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Montgomery Ward Co.

Satisfaction Guaranteed or Your Money Back

Catalogue and Buyers' Guide No 93

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The First Lesson in Economy

FANCY NOTIONS



Pin Cushion



Made of Japanese Silk stuffed cloth cotton and fitted with fancy celluloid head. A dainty novelty that will add a decorative touch to any dresser, dressing table, or sewing cabinet. Ship. wt., 3 oz.

Embroidery Needles

Nos. 4 to 12, 10 needles, 1 size in paper. Ship. wt., 1 oz. Mention size.

20C4664—Price, per paper... 12c
20C4680—Price, each... 19c



Embroidery Hoops
Adjusts itself. Sizes, diam. 4, 6 or 8 in. Ship. wt., 3 oz.
20C4636—Price, each... 19c
Oblong Embroidery Hoops. Size, 6x12 in. Ship. wt., 5 oz.
20C4637—Price, each... 15c



Tape Measure Metal Tipped

Good quality, with inches printed on both sides and having a piece of metal on one end to prevent tape from curling when in use. Ship. wt., 2 oz.

20C4635—Price, each... 15c



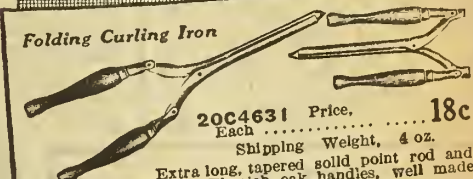
Marcel Hair Curler

Made of aluminum, guaranteed not to rust or tarnish and will not injure the hair. Moist hair slightly, clamp into wave and in about 30 minutes you will have a perfect "Marcel Wave."
20C4652—Price, per set of 2 wavers... 23c
Ship. wt., 3 oz.

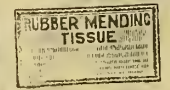


Marcel Waving Iron

Be in style! Do your own marcel waving with this nickel-plated marcel waving iron with polished hardwood handle. Durable and will last a long time. Gives that fashionable wavy effect to the hair. Length, about 8 1/2 in. Ship. wt., 6 oz.
20C4632—Price... 23c



20C4631—Price, Each... 18c
Shipping Weight, 4 oz.
Extra long, tapered gold point rod and clamp, nickel-plated. Flemish oak handles, well made and durable.



Mending Tissue

For silk, satin, woolen goods, kid gloves or buckskin mittens. One piece, 5x17, two pieces, 2 1/2 x 17; in envelope with instructions. Ship. wt., 1 oz.
20C4666—Price... 6c



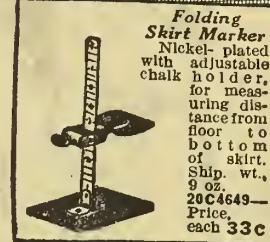
Tracing Wheel

Well made with polished steel shank and polished wood handle, strong and durable. Length, 5 1/2 in. Ship. wt., 3 oz.
20C4667—Price... 8c



Darning Egg

Black enameled stocking darning egg with handle—something no housewife can afford to be without. Length, abt. 6 in. Ship. wt., 4 oz.
20C4668—Price, Each... 6c



Folding Skirt Marker
Nickel-plated with adjustable chalk holder, for measuring distance from floor to bottom of skirt. Ship. wt., 9 oz.
20C4649—Price, each 33c



Made of steel spring with waxed, hardwood ends. Weight, per pair, 8 oz.
20C4669—Price, per pair... 12c

FANCY EMBROIDERED WASH TRIMMINGS



Lingerie Braid

Quality mercerized lingerie braid with plated ribbon. Washable and fast color. Width, 1/4 inch. Colors, blue or pink. Mention color wanted. Ship. wt., 2 oz.
20C4662—Price, per piece of 6 yds... 13c



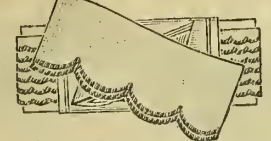
Bias Seam Tape

Extra fine quality white lawn Bias Seam Tape, used for trimming and binding seams. Made of extra fine quality lawn. Recommended for dainty work. Mention size wanted. Ship. wt., 2 oz.
20C4658—

Width, inch	Per piece of 6 yds.
1/4	12c
3/8	15c
1/2	19c

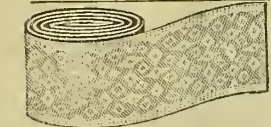
Good quality white lawn Bias Seam Tape. Shipping wt., 2 oz.
20C4657—

Width, inch	Per piece of 12 yds.
1/4	16c
3/8	23c
1/2	28c



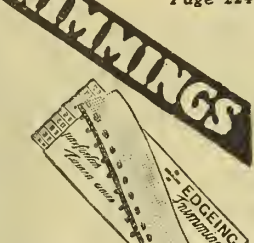
Stickerei Trimmings

Washable, strong woven colored scalloped edges. About 3/8 in. wide. Colors, navy, pink, cardinal, light blue or all white. Woven on white ground. State color. Ship. wt., 1 oz.
20C4654—3 yards for... 16c



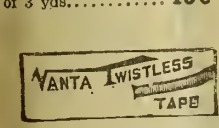
Camisole Shoulder Strap Ribbon

Mercerized Camisole shoulder strap ribbon, of excellent wearing quality. Laundered perfectly. Just the thing to use on that new, dainty bodice you are planning or for renewing straps that are frayed. Colors, white, blue or pink. Width, 1 in. Ship. wt., 1 oz.
20C4659—Price, per piece of 1 yard... 28c



Picot Edge Trimming

Fancy Picot Edge Trimming. A very pretty edging for children's garments, collars, etc. Comes in white background with the following colored edges: Pink, light blue, white, red and navy. Mention color wanted. Ship. wt., 1 oz.
20C4655—Price, per piece of 3 yards... 18c



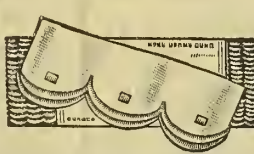
White Twistless Tape

White Twistless Tape for use on children's and women's underwear. Width, 7/8 in. 7 1/2 yards in piece. White only. Ship. wt., 2 oz.
20C4660—Price, for 1 piece of tape... 28c



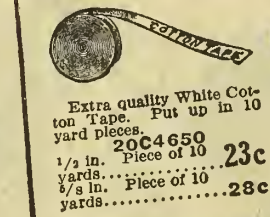
Blanket Binding

For binding blankets. Has non-ravel edge. Colors, white, pink, light blue or tan. Mention color.
20C6810—Width, about 1 1/2 in. Price, per yard... 15c
20C6811—Width, about 2 in. Price, per yard... 19c



Embroidery Edging

Washable, strong woven colored scalloped edges. About 3/8 in. wide. Colors, navy, pink, cardinal, light blue or all white. Woven on white ground. State color. Ship. wt., 1 oz.
20C4653—3 yards for... 18c



Extra quality White Cotton Tape. Put up in 10 yard pieces.
20C4650—1 1/2 in. Piece of 10 yards... 23c
20C4651—3/8 in. Piece of 10 yards... 28c

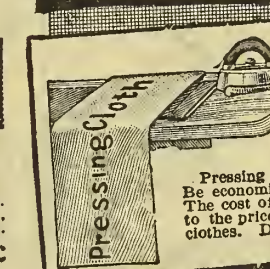


Dress Fasteners on Tape
Does away with sewing on of single fasteners. Width, about 1/2 in. Fasteners about 2 in. apart. Comes in black or white. Mention color. Ship. wt. per yard, 2 oz.
20C6809—Price, per yard... 23c



The Improved Rug Machine

It is very easy to operate and reproduces the design drawn on the canvas with great rapidity. It is especially designed for drawing in rugs and will do perfect work size, thus utilizing material that would otherwise be thrown away and enabling ladies to occupy their leisure time in the production of useful articles.
20C4645—Price, each... \$1.48
Shipping weight, 8 oz.



Press Your Clothes at Home

Pressing Cloth. Looking Like New
20C4634—Price, each... 49c
Shipping weight 4 oz.
Pressing Cloths scientifically treated. Be economical and be your own tailor. The cost of this cloth is small compared to the price usually charged for pressing clothes. Directions with each cloth.

FANCY TRIMMINGS BRAIDS



Ric-Rac Braids

White Cotton Ric-Rac Braid. Measure from point to point. Almost unlimited uses Ric-Rac. Mention size wanted.
20C4633—



Featheredge Braid

Fine quality white Featheredge Braid used extensively for fancy work. With this braid many beautiful designs can be obtained.

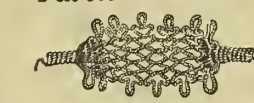
Art. No.	Width	Price Per Piece 6 yds.
20C4642	1/8 in.	15c
20C4643	1/8 in.	18c
20C4644	3/16 in.	21c

Ship. wt., per piece, 1 oz.



White Coronation Cords

Mercerized. Very popular for fancy work and trimming purposes. Illustrations are abt. actual size. Ship. wt., 1 oz.
20C4639—Small. Per piece of 6 yds... 23c
20C4640—Medium. Per piece of 6 yds... 28c
20C4641—Large. Per piece of 6 yds... 31c



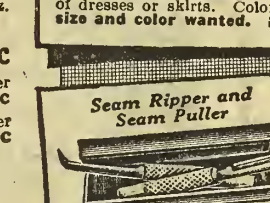
Turtleback Braid

For crocheting and fancy work. White only. Ship. wt., 2 oz. 3 yds. in piece.
20C4646—Width, 1/4 in. Per piece... 17c
20C4647—Width, 3/8 in. Per piece... 20c
20C4648—Width, 1/2 in. Per piece... 23c



Dress Belting

20C6803—Width, 1 1/2 in. Yard... 9c
20C6804—Width, 2 in. Yard... 11c
20C6805—Width, 2 1/2 in. Yard... 13c
Inside Skirt Belting. Made of a good, heavy, cotton grosgrain webbing. For making belts on inside of dresses or skirts. Colors, white or black. Mention size and color wanted. Ship. wt., 2 oz., per yard.



Seam Ripper and Seam Puller

Seam ripper with razor like blade and basting thread puller. Nicely nickel-plated. Should be in every sewing basket.
20C4656—Per set... 33c
Ship. wt., 2 oz.

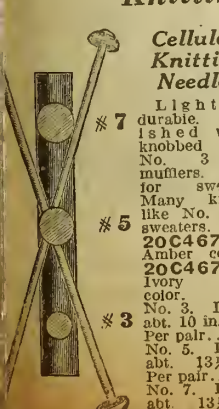


20C4616—Price, Each 10c
Ship. wt., 1 oz.
Silver Thimble fine quality. Will not tarnish. Sizes, 5 to 12. Size 5 small, for children. Mention size wanted.



Boned Duck Belting

Shipping weight, per yard, 2 ounces.
Width Per yard
20C6806—2 in... 21c
20C6807—2 1/2 in... 23c
20C6808—3 in... 26c
Girdle Support or Belt Foundation. Made of Duck-boned with flexible featherbone stays, bound with tape. Colors, black or white. State color and size wanted.



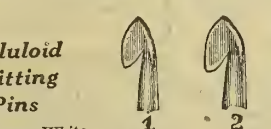
Celluloid Knitting Needles

Light and durable. Finished with knobby ends. No. 3 for mufflers. No. 7 for sweaters. Many knitters like No. 5 for sweaters.
20C4670—Amber color.
20C4671—Ivory White color.
No. 3. Length, abt. 10 in. Per pair... 18c
No. 5. Length, abt. 13 1/2 in. Per pair... 31c
No. 7. Length, abt. 13 1/2 in. Per pair... 36c



Celluloid Knitting Pins

Of Ivory White Celluloid for Socks and Wr. stlets. Large illustration shows about actual size. Ship. wt., 3 oz.
20C4674—Length, 7 in... 21c
Per set of 4 pins...
20C4675—Nickel-plated steel Knitting Pins. Length, 7 in. Per set of 4 pins... 10c



Celluloid Crochet Hooks

Made of Celluloid, highly polished. Suitable for Four Fold Zephyr Yarns or Shetland Fibers. Small, medium or large. Strong and durable but very light in weight. Illustration shows exact size. Mention size. Ship. wt., 3 oz. Length, about 8 inches.
20C4672—Price, each... 23c



Steel Knitting Pins Nickel-plated

Nickel-plated steel knitting pins generally used for socks, etc. A smooth strong pin at a very reasonable price. Length, 3 1/2 in. Size 10, coarse; 12, medium; 14, fine. Mention size wanted. Average ship. wt., 3 oz.
20C4676—Per set of 5 pins... 12c

Nothing equals the home knit garment. See our yarn page.

Foot Comforts, Shoe Findings and Warm, Soft Insoles


Ankle Support

27C5695—Men's, 6 to 12. Pair... **\$1.35**
27C5700—Women's, 3 to 8. Pair... **\$1.30**
27C5705—Boys, 3 to 5. Pair... **\$1.30**
27C5710—Misses, 11 to 2. Pair... **\$1.14**
27C5715—Children's, 8 to 10. Pair... **\$1.30**
27C5716—Infants, 2 to 7. Pair... **\$1.30**
 Can be worn with comfort in any kind of shoe. Will support weak ankles. Stays can be removed. No ½ sizes. Ship. wt., about 4 oz.



Gum Leather Lambs' Wool Cork and Felt Horsehair and Felt

27C5800—Men's sizes, 6 to 11. Pair... **10c**
 Three Pairs... **27c**
27C5805—Women's sizes, 3 to 8. Pair... **10c**
 Three Pairs... **27c**
27C5780—Men's, sizes, 6 to 11. Pair... **69c**
27C5785—Women's sizes, 2 to 8. Pair... **59c**
27C5790—Misses' sizes, 11 to 2. Pair... **55c**
27C5795—Child's sizes, 5 to 10. Pair... **48c**
 For making knitted slippers. Leather soles covered with thick layer of white wool. No ½ sizes. Ship. wt., 6 oz.
27C5810—Men's sizes, 6 to 11. Pair... **16c**
 Three pairs... **45c**
27C5815—Women's sizes, 3 to 8. Pair... **16c**
 Three pairs... **45c**
 Fine quality cork insoles for men and women. Give warmth and comfort to the feet. No ½ sizes. Ship. wt., about 6 oz.
27C5770—Men's sizes, 6 to 12. Pair... **18c**
 Three Pairs... **50c**
27C5775—Boys' and Women's sizes, 3 to 8. Pair... **18c**
 Three Pairs... **50c**
 Insole with red felt bottom covered with absorbent, warm horsehair tops. Wear horsehair side up. Non-metallic stiffener. Unshrinkable. No ½ sizes. Ship. wt., 6 oz.




Stocking Saver

27C5866—Men's and Women's sizes, 6 to 11. Pair... **27c**
 Three Pairs **75c**
27C5867—Women's and Boys' sizes, 1 to 5. Pair... **27c**
 Three Pairs **75c**
27C5868—Children's, 11 to 13. Pair... **25c**
 Three Pairs **75c**
 Prevent stockings from wearing out at the heel. Strong and durable. Will save many times their cost. No ½ sizes. Ship. wt., pair, 2 oz.



Good Quality Arch Support

27C5526—Men's sizes, 6 to 11. Pair... **\$1.15**
27C5527—Women's sizes, 3 to 7. Pair... **\$1.15**
 Durable arch support made of composition called nickel silver double plate, with good grade leather top. Strongly made. Will not rust. Ship. wt., abt., ¼ lb.



Rubber Bunion Protector and Reducer

27C5506—Men's right, each... **45c**
27C5507—Men's left, each... **45c**
27C5508—Women's right, each... **45c**
27C5509—Women's left, each... **45c**
 Fills all hollow places in the shoe, relieves pressure and friction. Worn under stocking. Ship. wt., about 2 oz.



Inside Heel Pillow

27C5539—Men's. **23c**
27C5540—Women's. **23c**
 Be sure to state size of shoe worn. Comfortable inside heel pillow. A spongy rubber pillow with non-curling good quality leather top lift that acts as a cushion for the heel to rest on. Ship. wt., 4 oz.



Callous and Corn Pads

27C5516—Corn Pad, Each... **12c**
27C5517—Callous Pad, Each... **13c**
 Softens and gradually removes corns and calluses. Made of soft rubber molded to fit over corn or callous. Relieves pressure. Ship. wt., 2 oz.



No Pain Toe Spread Sponge Rubber

27C5501—Large size, Each... **19c**
27C5502—Medium size, Each... **19c**
 Fits between the toe and restores large toe to correct position, overcoming the overlapping of toes. Made of soft red sponge rubber. Corrects the cause of bunion and enlarged great toe. Ship. wt., 2 oz.



Shoe Polishes, Cleaners, Repair Outfits, Rubber Heels, Shoe Trees, Etc.


Kabo White Kid Cleaner

27C5752—19c
 For cleaning and whitening all white kid and calf leather shoes. Will not injure or affect in the least. A safe cleaner that shows splendid results. Ship. wt., ¼ lb.



Kabo Shoe Cream or Cleaner

27C5759—19c
 A high grade glace kid cream that will put a brilliant lustre on all colored kid shoes. It also removes spots. This cream is harmless—will not injure or leave any bad after effects. Ship. wt., ¼ lb.



Shoe Polishes and Polishing Outfit

27C5756—Black, Each... **8c**
27C5758—Dark Brown, Each... **8c**
27C5757—Tan, Each... **8c**
 The American Shoe Polish is an excellent brand that will put a bright lustre on your shoes and preserve the leather. Ship. wt., 5 oz.
27C5735—39c
27C5736—Tan, 39c
 This outfit contains one sheepskin polisher, one bristle dauber and one box of polish. Ship. wt., 8 oz.



Cleans White Canvas or Buck Shoes

27C5763—10c
 A large bottle of Filtz Presto is just what you want to clean white canvas or white buck shoes. Non-injurious. Ship. wt., ¼ lb.



Waterproof Dressing

27C5880—¼ pint can. Ship. wt., 10 oz. Each... **\$0.35**
27C5885—1 gal. can. Ship. wt., about 14 lbs. Each... **\$3.25**
 For waterproofing and preserving shoes, harness and other leather products. Will give very satisfactory results. Not malleable.



Steel Spading Shank

27C5495—Each... **35c**
 Two for... **65c**
 Men's steel spading Shank made to fit the shoe as illustrated. Used for trenching, ditch digging and other purposes for which protection to the gank of the shoe is required. State size of shoe when ordering. Ship. wt., about 1 ½ lbs.



Quality Rubber Heels

27C5499—Heel Plates, Pair... **18c**
27C5498—Sole Plates, Pair... **36c**
 For use in foundries, mines and stone quarries. Saves the sole of your shoe. Easily attached. Sizes, 6 to 11. No ½ sizes. Ship. wt., pair 1 ½ oz.



Save Your Energy by Wearing Rubber Heels

27C5876—Men's Tan O'Sullivan's, Per Pair... **39c**
27C5879—Women's Tan O'Sullivan's, Per Pair... **32c**
27C5877—Men's Black O'Sullivan's, Per Pair... **39c**
27C5878—Women's Black O'Sullivan's, Per Pair... **32c**
27C5855—Men's Black Montgomery Ward Special, Per Pair... **15c**
27C5866—Women's Black Montgomery Ward Special, Per Pair... **15c**
 Send diagram of heel to be fitted. They reduce the jar of hard paved walks and streets and take the fatigue out of walking. Good quality springy rubber, is the chief element in the making of these rubber heels. Nails are supplied with every pair. Easily fastened on shoes. They are priced very low. Ship. wt., about ¼ lb.



Convenient Repairs for Rubber Goods

27C6088—Per Card of Three... **30c**
 Full directions with each card. Made of metal snapped into position easily. Can not peel off. Picture is about ½ actual size. Ship. wt., 2 oz.
27C6089—Outfit, Each... **35c**
 Three for... **95c**
 Outfit consists of 1 tube of patching cement, 1 roll of rubber, and scraper. Instructions with every package. Will patch any size hole in bicycle tires, inner tubes, boots, rubbers, etc. It is a perfect outfit for patching. Ship. wt., about 8 oz.




FIT-ALL Shoe Tree Ventilates

27C5933—Men's No. 3 fits shoe sizes, 5 to 8. No. 4 fits sizes, 8 to 14. Fits Widths AA to EE. Pair... **\$1.1**
27C5934—Women's No. 1 fits shoe sizes, 2 to 5. No. 2 fits sizes, 5 to 9. Fits Widths AA to EE. Pair... **\$1.1**
 The Fit-All Shoe tree is easily adjusted and will not rust. Ship. wt., per pair about ¼ lbs.



Adjustable Ice Creeper

27C6023—39c
 For use on rubbers or overshoes. Adjusts itself to required size when placed on heel. Hardened steel spikes. Ship. wt., about ¼ lb.



Handy Shoe Repair Outfit

27C5991—Set... **98c**
27C5992—Extra fasteners, thousand in box. Ship. wt., per thousand about 4 oz.
 Per box... **14c**
 Three boxes... **37c**
 Can be used for taking off or attaching buttons. Consists of one metal machine fastener, button remover and a supply of buttons. Ship. wt., 2 lbs.



Wooden Shoe Stretcher

27C5935—Men's, Each... **98c**
27C5940—Women's, Each... **98c**
 Corn and bunion attachments with each stretcher. A great help in breaking in new shoes. If your shoes are tight don't hesitate to order this stretcher as it does the work right. Ship. wt., 1 ½ to 2 lb.




Heavy Steel Heel Plates

27C6041—Women's and Children's, 12 Pairs... **7c**
 Gross Pairs... **70c**
27C6042—Men's and Boys', Per 12 pairs... **9c**
 Gross pairs... **90c**
 They keep your heels from wearing down. Ship. wt., gross pairs, 3 ½ lbs.



Steel Heel and Countel

27C5489—Per Pair... **5c**
 Saves your shoes. Particularly desirable for miners. Der same size shoe worn. Sizes 6 to 11. No ½ sizes. Ship. wt., abt. 1 lb.



Steel Hammer

27C5672—No. 1 Sharp ¾-inch... **59c**
27C5673—No. 3 Sharp ¾-inch... **59c**
27C5675—Size 00 Blunt ¾-inch... **59c**
27C5680—Size 5, Small Sharp ¾-inch... **59c**
27C5685—Size, 7, Medium Sharp ¾-inch... **59c**
27C5690—Size 8 Large Sharp ¾-inch... **59c**



Steel Hammer

27C5991—Set... **98c**
27C5992—Extra fasteners, thousand in box. Ship. wt., per thousand about 4 oz.
 Per box... **14c**
 Three boxes... **37c**
 Can be used for taking off or attaching buttons. Consists of one metal machine fastener, button remover and a supply of buttons. Ship. wt., 2 lbs.



Handy Shoe Repair Outfit

27C5001—\$3.95
 Eighteen useful articles at this extremely low price. Ship. wt., packed in wooden box, about 15 lbs.
 An excellent set of tools for mending the boots and shoes of the entire family. Every tool is standard, high grade and durable.
 Contents:
 1 Iron Stand, 4 Lasts, 1 Steel Hammer, 1 Steel Peg Nipper, 1 Sewing Awl Handle, 1 Sewing Awl Blade, 1 Pegging Awl Handle, 1 Wrench, 1 Pegging Awl Blade, 1 Shoe Knife, 1 Ball Wax, 1 Ball Shoe Thread, ¼-lb. Box 4-8 Cinch Nails, ¼-lb. Box 5-8 Cinch Nails, 1 lb. 6-8 Heel Nails, 1 Instruction Blank.



Steel Circlets

27C6031—Per Gross Box... **18c**
 Keeps heel from wearing down on one side. Ship. wt., per box, ¼ lb.




Steel Heel and Countel

27C5489—Per Pair... **5c**
 Saves your shoes. Particularly desirable for miners. Der same size shoe worn. Sizes 6 to 11. No ½ sizes. Ship. wt., abt. 1 lb.



These Supplies Will Keep Your Shoes in Good Repair

Oak Tanned Jumbo Blocks



5395—Extra heavy, wt., per doz., about 3 1/2 lbs. Ht., per doz., about 3 1/2 in. **\$1.85**
 5400—Heavy, wt., per doz., about 2 1/2 lbs. Ht., per doz., about 2 1/2 in. **\$1.59**
 5405—Medium, wt., per doz., about 2 1/4 lbs. Ht., per doz., about 2 1/4 in. **\$1.29**
 5410—Medium light, wt., per doz., about 2 1/4 lbs. Ht., per doz., about 2 1/4 in. **\$0.98**
 5415—Medium light, wt., per doz., about 2 1/4 lbs. Ht., per doz., about 2 1/4 in. **\$0.95**
 5420—Medium light, wt., per doz., about 2 1/4 lbs. Ht., per doz., about 2 1/4 in. **\$0.95**


Chrome Tanned Leather for Shoe Repairing



27C5380—Height per doz., about 2 1/4 inches. Wt., per doz., about 8 lbs. One Block. **\$1.15**
 27C5385—Height per doz., about 2 1/4 inches. Wt., per doz., about 9 lbs. One Block. **\$1.35**
 27C5390—Height per doz., about 3 inches. Wt., per doz., about 10 lbs. One Block. **\$1.55**
 27C5395—Height per doz., about 3 1/4 inches. Wt., per doz., about 11 lbs. One Block. **\$1.75**

Chemically treated to resist water and other elements that tend to destroy the wearing qualities of leather.

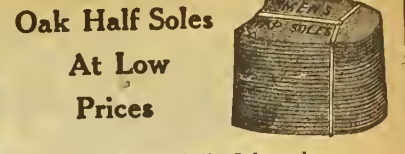
Chrome Tanned Leather for Shoe Repairing



27C5436—**\$1.35**
 1 pound. Chrome tanned leather strips are chemically treated and tanned to give unusually long service and are waterproof. They cost a little more but give a great deal more service. You pay for exact weight. When ordering give catalog number and number of pounds wanted. Average wt. per strip 1 to 1 1/2 lbs. Ship. wt. per strip about 1 lb. 8 oz.

27C5300
 Chrome half soles are the longest wearing genuine sole leather tanned. They are chemically treated so as to be entirely waterproof and will withstand the hardest kind of wear. They will out-wear a plain leather sole. Chrome soles are sure to give entire satisfaction. Height, per dozen pairs, about 5 1/2 inches. Weight, per pair about 9 oz.
 Price, per pair, Men's and Boys' **\$0.52**
 Price, three pair, Men's and Boys' **1.45**

Oak Half Soles At Low Prices



All Carefully Selected

Cut Soles	Thickness In. per doz. Pairs	Per Pair	Three Pairs
Ship. wt., 2 to 7 oz. pr.			
27C5350—Men's Fine.	6	45c	\$1.25
27C5355—Men's Med.	5	37c	1.02
27C5360—Men's Coarse	4 1/2	34c	.95
27C5361—Boys' Med.	5	29c	.79
27C5362—Boys' Coarse	4 1/2	25c	.69
27C5365—Women's Fine	4 1/2	19c	.54
27C5370—Wom. Fine	4	16c	.45
27C5375—Wom. Med.	3 1/2	15c	.42

Oak Strips



5445—Heavy, per pound. **\$1.29**
 5450—Medium, per pound. **\$1.29**
 5455—Light, per pound. **\$1.29**
 Quality sole leather strips. Cut from practical and economical cut of leather for general repair work. Average weight strip, 1 to 1 1/2 lbs. We charge for exact weight only.

Economy Fibre Taps



27C5351—Men's, pair. **30c**
 3 pairs. **85c**
 27C5352—Women's, pair. **25c**
 3 pairs. **65c**

Economy Fibre Taps can be used on new or old shoes. Anyone can attach them. Nails included. These soles do not fit right up to the edge of the sole, so you avoid having to trim the edges. Ship. wt., per pair about 10 oz.

VUL-TEX Fibre Half Soles



27C5301—One pair. **\$0.45**
 Three pairs. **1.30**

Vul-Tex fibre half soles are a combination of fibre and rubber made to stand hard wear. Just nail and trim to the shape required. Shank is pointed and beveled and will not pull. Not like the square cut shapes. This point considerably strengthens the shank of the shoe. Can be stitched on same as leather. If desired. Ship. wt., per pair, about 12 oz.

Good Quality Hemlock Heel Lifts



27C5420—Men's; height, dozen pairs, 5 1/2 inches. Wt., doz. pairs, about 1 1/2 lbs. **\$0.29**
 27C5425—Boys'; height, dozen pairs, 4 1/2 in. Wt., doz. pairs, about 1 lb. **\$0.29**
 27C5430—Women's; height, dozen pairs, 4 1/2 inches. Wt., doz. pairs about 2 lbs. **\$0.29**
 27C5435—Women's; height, dozen pairs, 4 1/2 inches. Wt., doz. pairs about 2 lbs. **\$0.29**

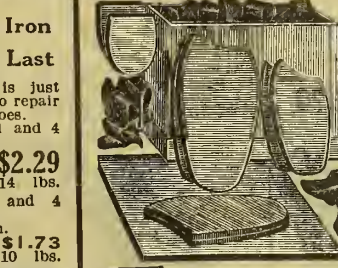
Good quality hemlock heel lifts at a very economical price.

Malleable Iron Stand and Last



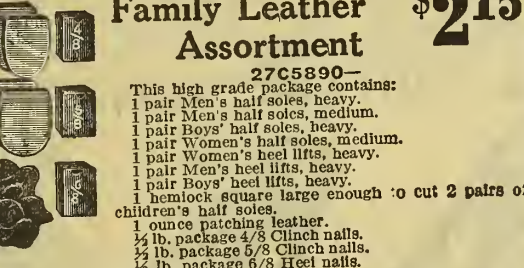
27C5895—Stand and 4 lasts. 24-inches High. **\$2.29**
 Per set. **\$2.29**
 Ship. wt., about 14 lbs.
 27C5900—Stand and 4 lasts. 19-inches High. **\$1.73**
 Per set. **\$1.73**
 Ship. wt., about 10 lbs.

Family Leather Assortment



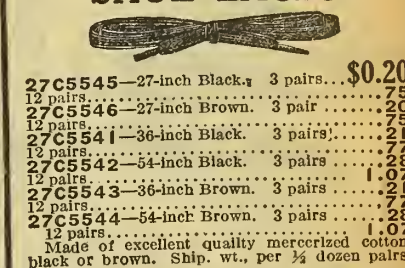
27C5890—This high grade package contains:
 1 pair Men's half soles, heavy.
 1 pair Men's half soles, medium.
 1 pair Boys' half soles, heavy.
 1 pair Women's half soles, medium.
 1 pair Women's heel lifts, heavy.
 1 pair Men's heel lifts, heavy.
 1 pair Boys' heel lifts, heavy.
 1 hemlock square large enough to cut 2 pairs of children's half soles.
 1 ounce patching leather.
 1/2 lb. package 4/8 Clinch nails.
 1/2 lb. package 5/8 Clinch nails.
 1/2 lb. package 6/8 Heel nails.
 Ship. wt., about 3 1/2 lbs.

Family Leather Assortment \$2.15



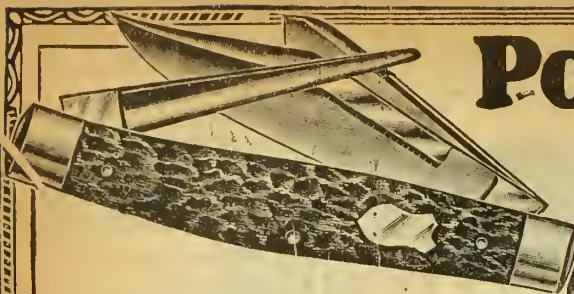
27C5890—This high grade package contains:
 1 pair Men's half soles, heavy.
 1 pair Men's half soles, medium.
 1 pair Boys' half soles, heavy.
 1 pair Women's half soles, medium.
 1 pair Women's heel lifts, heavy.
 1 pair Men's heel lifts, heavy.
 1 pair Boys' heel lifts, heavy.
 1 hemlock square large enough to cut 2 pairs of children's half soles.
 1 ounce patching leather.
 1/2 lb. package 4/8 Clinch nails.
 1/2 lb. package 5/8 Clinch nails.
 1/2 lb. package 6/8 Heel nails.
 Ship. wt., about 3 1/2 lbs.

SHOE LACES

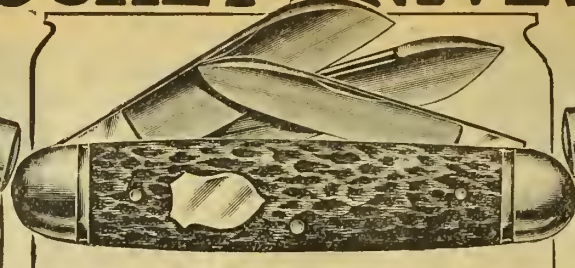


27C5545—27-inch Black. 3 pairs. **\$0.20**
 27C5546—27-inch Brown. 3 pair. **20c**
 27C5547—27-inch Black. 3 pairs. **21c**
 27C5548—27-inch Brown. 3 pairs. **21c**
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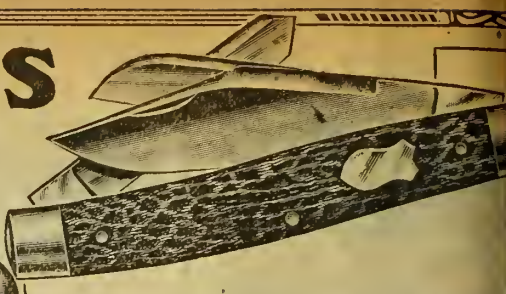
POCKET KNIVES



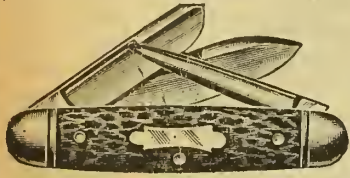
3-Blade Premium Stock Knife. Length, 3 3/4 in. Stag handle; nickel silver shield and double polished bolsters. Large 2 1/2 inch clip blade; smaller spay blade. A handy punch awl blade for wood or leather. Blades are well tempered to hold their keen edge. Ship. wt., 4 ozs.
46C5860—Each..... \$1.48



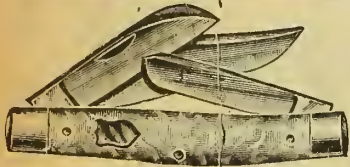
A big value in a 3-blade Cattle Knife. 3 3/8 inches long. A very substantial knife with stag handle and nickel silver shield and double bolsters. Rustproof brass lining. Large spear blade, 2 1/2 inches long, sheep-foot blade and pen blade. Shipping weight, 4 ounces.
46C5855—Each..... \$1.30



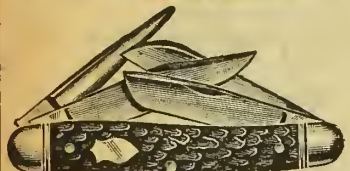
3-Blade Premium Stock Knife. Length, 3 3/4 in. Stag handle with polished double bolsters and nickel silver shield. Rustproof brass lining. Blades are heavy and forged from the finest steel. Oil tempered, ground and honed. Large clip blade, 2 1/2 in. long. Sheep-foot blade and spay blade. Ship. wt., 4 ozs.
46C5865—Each..... \$1.43



Substantial three-blade Cattle Knife. Length, 3 3/4 in. Stag handle with rust-proof brass lining. Nickel silver bolsters and shield. Blades are extra heavy, oil tempered, ground and honed. A large spear blade, 2 1/2 in. long, spay blade and punch awl blade for wood or leather. Ship. wt., 4 ozs.
46C5870—Each..... \$1.55



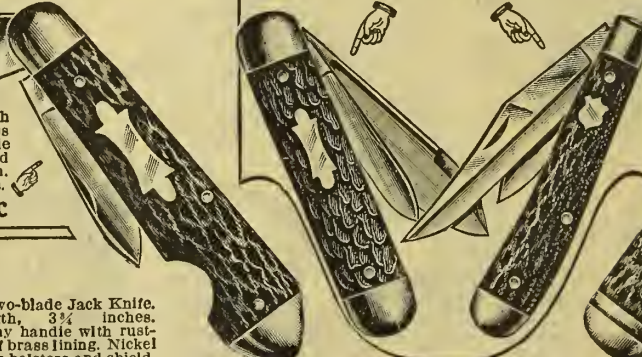
3-blade Premium Stock Knife, length, 3 3/4 in. Handles are finest mother-of-pearl. Nickel silver bolsters and shield. Rust-proof brass lining. The blades are forged from finest English steel. Large clip blade, 3 in. long. Ship. wt., 4 ozs.
46C5875—Each..... \$3.25



4-blade Premium Stock Knife, 3 3/4 in. long. Stag handle, rust-proof brass lining. Nickel silver bolster and shield. Blades are strong, well tempered English steel. Large clip blade, 2 1/2 in. long. Sheep's-foot blade, spay blade and punch awl blade. Ship. wt., 4 ozs.
46C5880—Each..... \$1.98



2-blade easy opener style Jack Knife. Length 3 3/4 in. Stag handle with rust-proof brass lining. Nickel silver shield. Polished double bolsters. The blades are strong, well tempered and keen edged. Large spear blade, 2 1/2 in. long and smaller pen blade. Ship. wt., 4 ozs.
46C5885—Each..... 84c

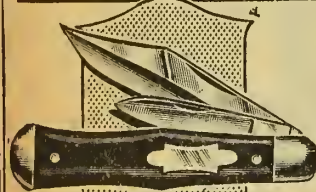


Knife and Chain

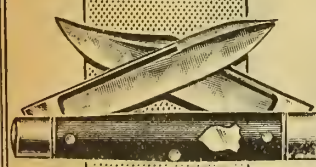
The popular 2-blade Jack Knife with chain, that is particularly suitable for boys. Ebony or stag handle; length, 3 1/4 inch. Highly polished bolsters. Large spear blade, 2 1/2 inches long and one small pen blade. The chain is 15 inches long and can be attached to button of clothing. Shipping weight, 4 ozs.
46C5945..... 80c

Knife and Chain

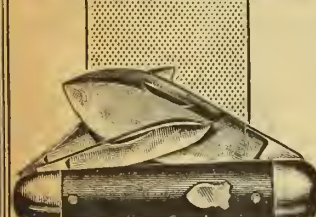
A one-blade Jack Knife with chain, built to give real service and one that should please any boy. The knife is 3 in. long and attached to a 14 in. chain that can be fastened to the button of clothing. Blade is 2 1/2 in. long, forged from high carbon steel and tempered to hold its keen edge. The handle is iron and substantially made. Ship. wt., 4 ozs.
46C5950..... 39c



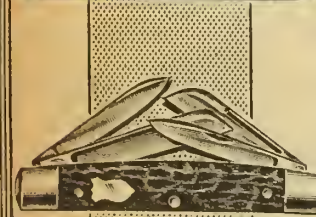
Two-blade Jack Knife. Length, 3 3/4 inches. Ebony handle with rust-proof brass lining. Nickel silver bolsters and shield. Has a large heavy clip blade, 2 1/2 inches long and a smaller pen blade. Blades are tempered to hold their keen edge. Shipping weight, 4 ozs.
46C5920— \$1.10



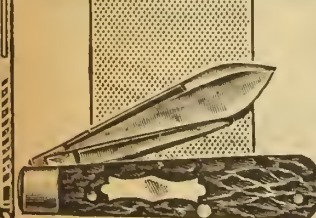
The Texas Toothpick style 2-Blade Pocket Knife. Length, 4 1/4 inch. Ebony handle. Polished double bolsters and nickel silver shield. Large clip and spear blades; each 3 1/4 inches long. Shipping weight, 3 ounces.
46C5925— \$1.30



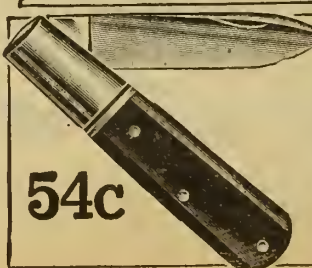
Jumbo pattern, 3-blade Pocket Knife; 3 3/4 inches long. Ebony handle. Rust-proof brass lining. Nickel silver bolsters and shield. Large blade is extremely heavy, length, 2 1/2 inches; width, 7/8 inches. Two medium sized pen blades. All blades are made from tough steel and well tempered. Shipping weight, 4 ounces.
46C5930— \$1.65



4-blade Congress style Pocket Knife, length, 3 3/4 in. Stag handle, rust-proof brass lining. Nickel silver shield and polished bolsters. Large Sheep's-foot blade, 2 1/2 inches long, one smaller sheep's-foot blade and two pen blades. All are hand forged and keen edged. Ship. wt., 4 ozs.
46C5935— \$1.60

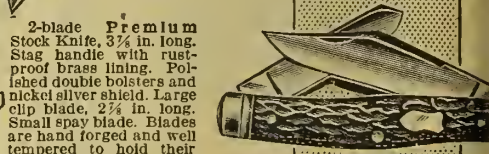


2-blade Pocket Knife, 3 3/4 inches long. Stag handle with rust-proof brass lining. Polished bolsters and nickel silver shield. Has a large spear blade, 2 1/2 inches long and a handy awl blade for putting a clean hole in wood or leather. A very serviceable knife for teamsters. Shipping weight, 4 ounces.
46C5940— 96c

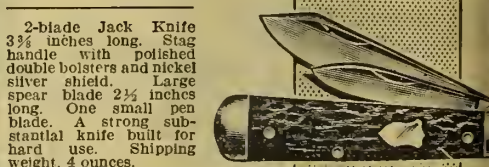


1-blade Jack Knife, 3 3/4 inches long. Bone handle with polished bolsters. Large spear blade, 2 1/2 inches long forged from finest steel. Shipping weight, 3 ounces.
46C5955— 54c
46C5956— Same Knife as above but in addition to the large blade, it also has a small pen blade. A favorite pattern. Ship. wt., 4 ozs..... 65c

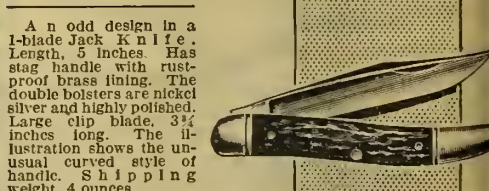
54c



2-blade Premium Stock Knife, 3 3/4 in. long. Stag handle with rust-proof brass lining. Polished double bolsters and nickel silver shield. Large clip blade, 2 1/2 in. long. Small spay blade. Blades are hand forged and well tempered to hold their keen edge. Ship. wt., 4 ozs.
46C5960— \$1.25



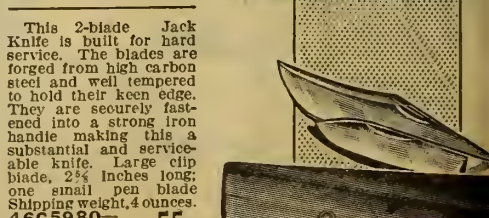
2-blade Jack Knife 3 3/4 inches long. Stag handle with polished double bolsters and nickel silver shield. Large spear blade 2 1/2 inches long. One small pen blade. A strong substantial knife built for hard use. Shipping weight, 4 ounces.
46C5965— 66c



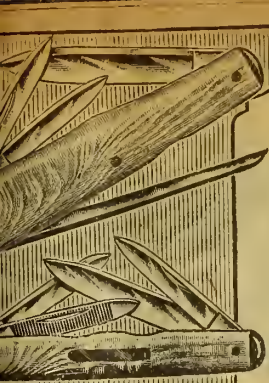
An odd design in a 1-blade Jack Knife. Length, 3 inches. Has stag handle with rust-proof brass lining. The double bolsters are nickel silver and highly polished. Large clip blade, 3 1/4 inches long. The illustration shows the unusual curved style of handle. Shipping weight, 4 ounces.
46C5970— \$1.25



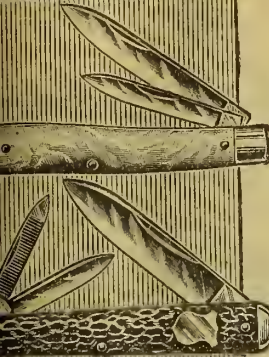
Two-blade Jack Knife, 3 3/4 inches long. Redwood handle with polished bolsters. Has large spear blade, 2 1/2 inches long and one small pen blade. Both blades are well tempered and will hold their keen cutting edge. Shipping weight, 4 ounces.
46C5975— 60c



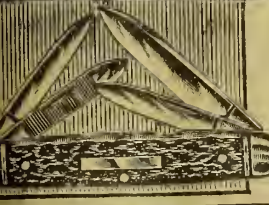
This 2-blade Jack Knife is built for hard service. The blades are forged from high carbon steel and well tempered to hold their keen edge. They are securely fastened into a strong iron handle making this a substantial and serviceable knife. Large clip blade, 2 1/2 inches long; one small pen blade. Shipping weight, 4 ounces.
46C5980— 55c



4-Blade Pen Knife. Length, 3 1/2 in. Pearl handle. Nickel silver bolsters. Three blades and nail file of tempered steel. Large blade, 1 1/2 inches. Shipping weight, 2 ounces. **46C6000—\$4.20** Each.....



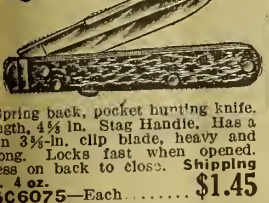
Pearl handle penknife. Length, 2 1/2 inches. Nickel-silver bolsters and shield. Rust-proof brass lining. Three blades of finest steel, and nail file. Length of large blade, 1 1/2 in. **46C6005—\$2.85** Each..... Shipping weight, 2 oz.



Vest pocket or women's 2-blade penknife. Length, 2 1/2 in. Fine pearl handle, nickel silver bolsters. Rust-proof brass lining. Keen-edged blades of fine steel. **46C6010—\$1.70** Each..... Shipping weight, 2 oz.



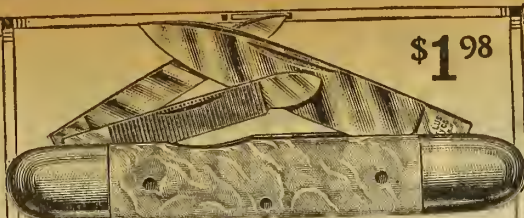
Three Blade Pocket Knife, 3 1/2 inches long. Stag handle, nickel silver bolsters and shield. Rust-proof brass lining. 2 1/2 inch large blade, pen and nail file blades. **46C6015—\$1.46** Each..... Shipping weight, 2 oz.



Stag handle pocket knife. Length, 3 inches. Nickel silver bolsters and name plate. Rust-proof brass lining. Three cutting blades forged from finely tempered steel, and one nail file blade. **46C6020—\$1.58** Each..... Shipping weight, 3 oz.

Army and Navy Tool Knife

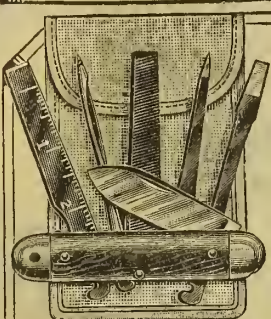
The Army and Navy—one of the best tool knives made. Length, 3 1/2 inches. Handle is ebony finish, made of a very tough composition, practically unbreakable. Four-leaf brass lined. Compact and strong. Cork-screw, leather punch, screw driver, bottle opener, can opener, and two keen-edged cutting blades. An ideal all around work knife. **46C6070—Price \$2.43** Shipping weight, 4 ounces.



\$1.98

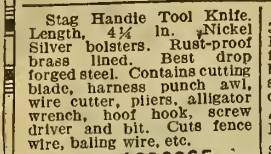
Pearl Handled Pocket Knife

An exceptional value in a useful pearl handled Pocket Knife of neat design. Length, 3 1/2 inches. Rust-proof brass lining, nickel silver bolsters and shield. 2 well sharpened cutting blades and one nail file. Length of large blade, 2 inches. **46C6025—Each \$1.98** Shipping weight, 2 ounces.



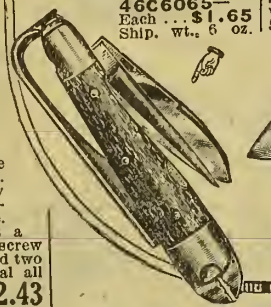
Knife and Tool Outfit

Jack Knife and 5 handy tools complete in artificial leather pouch. Length of knife, 3 1/2 in. Wood handles and a keen, heavy 2 1/2 inch blade. Tools fit into end of knife handle, opposite blade. Tools are forged from finest steel. Screw driver and chisel, 3 1/2 in; file, 3 1/2 in; gimlet, 3 1/2 in; and punch, 3 1/2 in. **46C6055—Ea. \$1.70** Shipping weight, 1 pound.



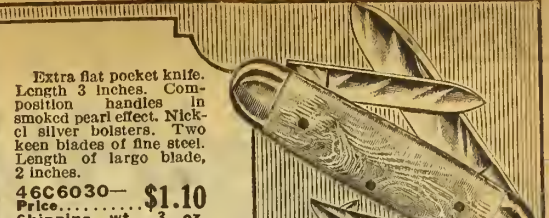
Stag Handle Tool Knife. Length, 4 1/2 in. Nickel Silver bolsters. Rust-proof brass lined. Best drop forged steel. Contains cutting blade, harness punch awl, wire cutter, pliers, alligator wrench, hoof hook, screw driver and bit. Cuts fence wire, balling wire, etc. **46C6065—Each \$1.65** Ship. wt., 6 oz.

Boys' Handy Knife. Length 3 1/2 in. Nickel silver bolsters. Blades are steel, tempered for hard service. Spear blade, 2 1/2 in. Awl blade, screw driver and bottle opener blade and can opener. **46C6060—\$1.65** Each..... Shipping weight, 5 ounces.



Hunting Knives

The Famous Marble Hunting Knife. Best quality forged steel. Extra heavy blade. Handle bound with leather. Brass guard. Leather sheath. **46C6085—5-inch blade. Ship. wt., 7 ozs. \$3.25**
46C6086—6-inch blade. Ship. wt., 10 ozs. 3.50
46C6087—7-inch blade. Ship. wt., 12 ozs. 3.75
46C6088—8-inch blade. Ship. wt., 14 ozs. 4.00



Extra flat pocket knife. Length 3 inches. Composition handles in smoked pearl effect. Nickel silver bolsters. Two keen blades of fine steel. Length of large blade, 2 inches. **46C6030—\$1.10** Price..... Shipping wt., 3 oz.

Stag handled Pocket Knife. Length, 3 1/2 in. Nickel silver bolsters and name plate. Rust-proof brass lined. Saber clip blade; length 2 1/2 inches, and a small blade. **46C6035—\$1.10** Each..... Shipping weight, 2 oz.

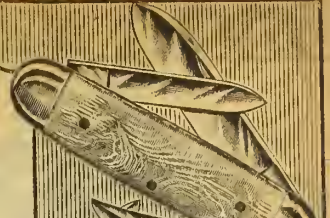
Two-blade, 3 1/2-inch penknife. Composition handles, golden tortoise shell effect. Nickel silver bolsters and shield. Rust-proof brass lining. Blades are fine steel. Length of large blade, 2 1/2 in. **46C6040—\$1.20** Each..... Shipping wt., 2 oz.

Fancy Celluloid Handle Knife. Length, 3 inches. Two good English steel blades. The handle is reproduction of smoked pearl. Rust-proof brass lined. Nickel silver bolsters. **46C6045—98c** Each..... Shipping wt., 2 oz.

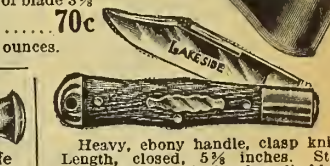
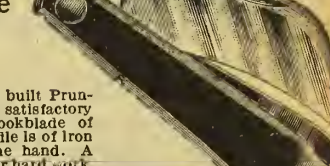
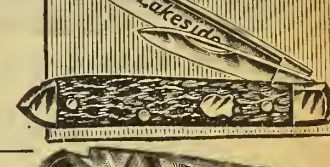
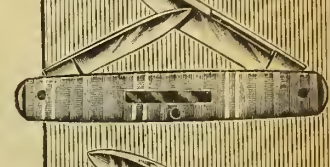
Stag handle Pocket Knife. Length, 3 inches. Rust-proof brass lined. Polished nickel silver bolsters and shield. Two sharp steel blades. **46C6050—98c** Each..... Shipping wt., 2 oz.

Pruning Knife

Built for Hard Work. Strong and substantially built Pruning Knife that will give very satisfactory service. Heavy, keen, hookblade of fine quality steel. The handle is of iron and fits comfortably in the hand. A plain, sensible knife, built for hard work. Length of knife 4 in; length of blade 3 1/2 in. **46C6071—Each 70c** Shipping weight, 4 ounces.



Heavy, ebony handle, clasp knife. Length, closed, 5 1/2 inches. Steel lined. Strong 4-inch saber clip blade of English steel. An excellent hunting knife and good for any heavy work. **46C6091—\$1.50** Each..... Shipping weight, 7 ounces.

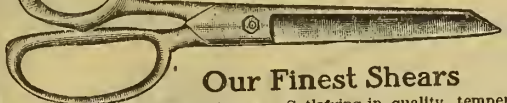


Straight Pattern Shears

Splendid values in finish, style and quality. The edges will give long service, and will cut cleanly the softest as well as the heaviest material. **46C6075—Each \$1.45**

Lakeside Scissors and Laid-Steel Shears

The Laid-Steel construction is the mark of perfection in shears. The body of the shears is made of toughened steel. On the face of each blade is welded a piece of extra hard, finely tempered steel which forms a lasting cutting surface. If the whole shear was made of this very hard steel, it would be too brittle and very liable to break when accidentally dropped. If the shear was made entirely of the softer steel, it wouldn't break so easily but it would not hold the edge. This is why we offer you only Laid-Steel shears—they mean longer wear and the best of cutting qualities.



Our Finest Shears

The Lakeside Premier Shears. Satisfying in quality, temper, fitting and finish. Oval pattern, just the right weight for ladies' use; keen edged, perfectly uniform in temper. Full nickel plated. **46C5016—6 7/8 in. Lgth. Cut. In. 5 ozs. \$1.08**
46C5017—7 1/8 in. Lgth. Cut. In. 6 ozs. 1.23
46C5018—8 1/8 in. Lgth. Cut. In. 8 ozs. 1.53
46C5019—9 1/8 in. Lgth. Cut. In. 10 ozs. 1.62
46C5036—Left-hand Premier Shear. Length, 8 in. Shipping weight, 8 ounces. Price..... \$1.85



Tailors' Shears

Finest quality, Tailors' heavy Shears. These are large and are designed for cutting heavy cloth. Not suited for general household use. Made from selected steel. Keen edged. The right pattern to properly fit the hand. Perfectly adjusted. The blades run smooth and cut clean. Nickel plated blades. Janned handle. Length, 12 inches. **46C5041—Each \$3.15** Shipping weight, 1 pound.



Bent Pattern Shears

Not only adapted for all work for which the straight pattern is used, but in addition is the ideal shear for cutting cloth on a table. The bent handle gives a full cut of the blade and enables one to follow a line accurately without lifting the material.

Black Janned Handle, Nickel Plated Blades

Article Number	Lgth. Inches	Shp. Wt.	Price
46C5046	8	7 ozs.	\$1.20
46C5051	9	9 ozs.	1.55
46C5056	10	14 ozs.	1.90

Polished, Full Nickel Plated

Article No.	Lgth. Inches	Shp. Wt.	Price
46C5061	8	6 ozs.	\$1.32
46C5066	9	8 ozs.	1.75
46C5071	10	10 ozs.	2.12



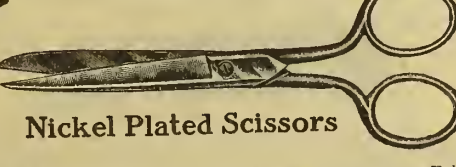
Button Hole Scissors

Button-hole scissors are a sewing necessity that every woman appreciates. These are full nickel plated and 4-in. long. Keen edged, well fitted blades, with screw for adjusting the size of button-hole. **46C5076—Each 98c** Shipping weight, 4 ounces.



Embroidery Scissors

A handy size Embroidery Scissors 3 1/2 inches long. Full nickel plated with sharp edge blades, carefully tempered and fitted to cut to the extreme points. These scissors will make a welcome addition to your sewing basket. **46C5081—Each 80c**



Nickel Plated Scissors

High-grade scissors. Sharp, well tempered blades. Full nickel plated. A requisite for every woman's work basket. **46C5086—4 in. 3 ozs. \$0.88**
46C5091—5 in. 4 ozs. .95
46C5096—6 in. 5 ozs. 1.05



Pocket Scissors

Nickel plated pocket scissors. The best quality that we can buy. Beveled blades well edged and tempered. Length, 4 1/2 in. **46C5101—Each 90c**
46C5106—Pocket scissors. Full size, 4 1/2 inch. Good value for the money. Each 53c Shipping weight, 4 ounces



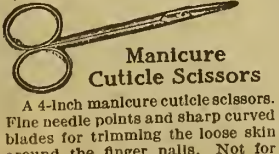
Embroidery Scissors

The popular Stork Style Embroidery Scissors 3 1/2 inches long. Nickel plated blades with gilt handles. The blades are well tempered with keen cutting edges and sharp points. **46C5111—Each \$1.00** Shipping weight, 3 ounces.



Finger Nail Scissors

Finger Nail Scissors. Length, 3 inches. Fine, heavy curved blades. A strong pair of scissors, especially tempered to hold their edge. Will cut the toughest, thickest nails. **46C5116—Each \$1.10**



Manicure Cuticle Scissors

A 4-inch manicure cuticle scissors. Fine needle points and sharp curved blades for trimming the loose skin around the finger nails. Not for cutting the nails. Shipping weight, 3 oz. **46C5121—Price \$1.10**



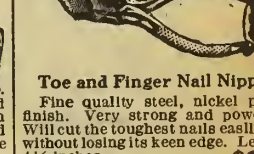
Scissors Sharpener

Equally good for scissors and shears and very easy to use. Holds the scissors on the hone at the correct angle to give it just the right bevel. Gives keen, smooth edge. Has 6-in. adjustable steel frame and a good sharpening stone. **46C5126—80c** Ship. wt., 10 ozs.



Finger-Nail Clip

A convenient Finger-Nail Clip. Fine quality steel, nickel plated finish. Cuts toughest nails. Can also be used as finger nail file and cleaner. Easily taken apart to be sharpened or cleaned. **46C5131—Each 27c** Ship. wt., 1 ounce.



Toe and Finger Nail Nipper

Fine quality steel, nickel plated finish. Very strong and powerful. Will cut the toughest nails easily and without losing its keen edge. Length, 4 1/2 inches. **46C5136—Each \$1.98** Shipping weight, 6 ounces.

EVER-READY



94¢



Ever-Ready Safety Razor and Ever-Ready Radio Blades

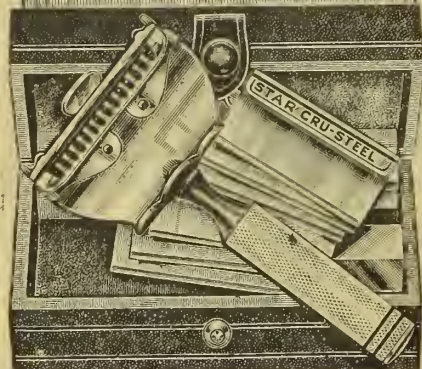
The Standard Ever-Ready Safety Razor Outfit consisting of Razor and 6 Ever-Ready Radio Blades in velvet lined, solidly made case. Simple in construction—there are no delicate parts to get out of order. So as to ensure strength and durability it is made of heavy brass material—the triple nickel plating gives it a pleasing and rust-proof bright finish. The handle is solid and heavy enough to give just the right grip when shaving. To protect the keen edges of Ever-Ready Radio Blades, each blade is individually packed to reach you in the best condition. Shipping weight, 7 ounces.

46C5160—Price for complete set. **94c**
 46C5162—Extra Ever-Ready Radio Blades. Package of 6. **37c**
 Shp. wt., 2 ounces.

SAFETY RAZORS

STAR

90¢



Star Safety Razor and Blades

Here is the latest and improved model Star Safety Razor with the water thin blades. Set includes Razor and 6 Blades in leatherette covered case. Razor is heavily nickel-plated. The Steel Blades are carefully tempered to hold their keen cutting edges. Shipping weight, 7 ounces. Shipping weight, 6 blades, 2 ounces.

46C5165—Price for Complete Set. **90c**
 46C5167—Extra Star Blades. Package of 6. **27c**

GEM

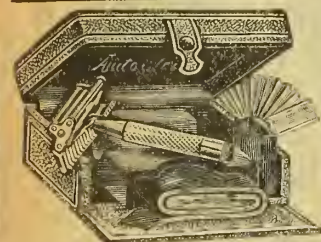
94¢



Gem Safety Razor and Damaskeene Blades

One of the most widely known and universally used safety razors made. This Gem outfit comprising razor and 6 Damaskeene Blades, durable, compact case, will please the most particular man. The razor substantially made and heavily nickel plated. The blade is automatically held at just the right angle to give a smooth, comfortable shave. The success of a razor depends more on the blade than any other feature. Gem Damaskeene Blades are made of high quality steel, well tempered and edged to assure shaving satisfaction. Shipping weight, 7 ounces.

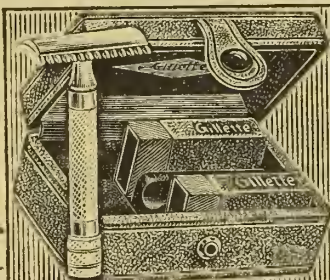
46C5170—Price for Complete Set. **94c**
 46C5172—Extra Gem Damaskeene Blades, Package of 7. **47c**
 Shipping weight, 2 ounces.



Auto-Strop Safety Razor \$4.95

The Auto-Strop Safety Razor, with 12 carefully selected blades guaranteed to give 500 shaves, and a specially made leather strop. Complete in a leather case. The frame is triple silver plated and will not rust. Shp. weight 7 ounces.

46C5175—Price. **\$4.95**
 46C5177—Extra Auto-Strop Blades. Shp. weight 1 ounce. Per half dozen **48c**



The Gillette Standard Set \$3.65

The standard model. Heavily silver plated. In a leather covered case, with 12 double edged, smooth shaving Gillette blades. Shipping weight, 7 ounces.

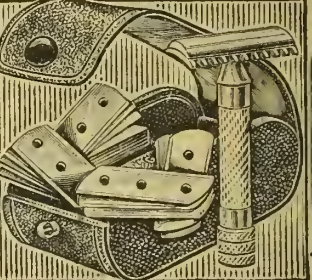
46C5180—Price, complete **\$3.65**
 46C5181—Gillette Razor Outfit as described above but also includes the LaPetite Strop for Gillette Blades. Shp. wt., 9 oz. Price, complete. **\$4.50**



Gillette Pocket Set \$3.65

So thin and compact that it can be carried comfortably in the vest pocket. Case is triple silver plated (won't rust) and is nicely lined. Contains a silver-plated Gillette Safety Razor and 12 Standard smooth shaving, double edged Gillette Blades.

46C5185—Price. **\$3.65**
 Shipping weight, 7 ounces.



Gillette Bull Dog \$4.50

Many men like the "Bull-Dog" because it has an extra large, stocky handle, which affords excellent grip and splendid balance. The entire razor is heavily silver plated and won't rust. Complete with 12 standard Gillette blades, famous for their splendid edge. In a neat, oval leather covered case.

46C5190—Price. **\$4.50**
 46C5191—Gillette Razor Outfit as described above but also includes the LaPetite Strop for Gillette Blades. Shp. wt., 9 oz. Price, Complete. **\$5.35**



Edson Safety Razor

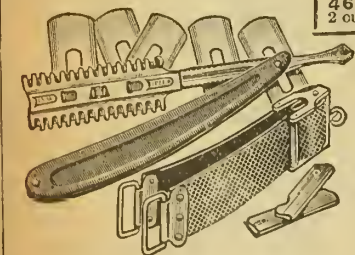
You'll never ask for a better shaving tool. Holds the blade at just the right angle to shave any beard closely and smoothly. Outfit consists of a heavy plated razor (can't rust) and 5 keen edged, hair tested Edson blades, all in compact, leather covered case. Fold up, it's no larger than a small pocket book. Shipping weight, 4 ounces. **72c**

46C5200—Price. **72c**

Edson Blades

Each blade is made from selected laboratory tested steel. Carefully tempered, honed and stropped to hold that sharp edge that means shaving comfort to you.

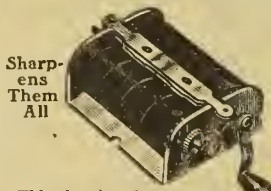
46C5201—Package of 10 blades **48c**
 Shipping weight, 2 ounces.



Durham-Duplex Stropping Set \$1.90

Razor, six blades and Automatic Strop. Gives the long, diagonal stroke of the old-fashioned razor, combined with the security of a safety razor. The Automatic Strop is described on this page under number 46C5225. It pays for itself over and over again by making your blades last longer and shave better. Shipping weight of outfit, 1 pound.

46C5210—Price. **\$1.90**
 Durham-Duplex Blades 46C5211—Per package of 5. Shp. wt., 1 ounce. Price. **48c**



Sharpen Them All

This handy sharpener restores safety razor blades to a keen, smooth edge. Sharpens all kinds. The two spiral leather rollers give the blade a diagonal stroke that gives a velvet edge. Simply and strongly made. Metal parts nickel-plated. Complete with 3 blade holders. Shipping weight, 10 ounces.

46C5215—Price. **\$1.25**



For Gillette Blades

The LaPetite Strop enables you to have the comfort of a new blade with every shave—and you get several times as many shaves per blade. Blade holder screws into handle of all Gillette Razors. Strop is Selected Shell Cordovan leather. Fits compactly in any Gillette Outfit. Shp. wt., 4 oz.

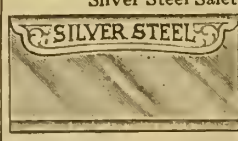
46C5220—Strop, Complete. **90c**



For Safety Razor Blades

Puts a keen edge on any safety razor blade. Leather strop, width, 2 inches; red self-honing sharpening side and black finishing strop. Width, 2 1/2 inches. Length, 17 1/2 inches. Shipping weight, 10 ounces.

46C5225—Each. **\$1.15**



Silver Steel Safety Razor Blades

Keen-edged blades, made from high grade crucible steel. Tempered by a special process that gives a uniformly, keen, smooth edge. Will shave the stiffest beard. Any of these three shapes, per package of 10 blades.

Price. **38c**

Style No. 2
 46C5212—Style No. 2 fits King, Superior, Ever-Ready, Gem, Yankee, Cru-Steel, Clark, Wiss and Clauss Safety Razors.

Style No. 5
 46C5216—Style No. 5 fits Clark's, Winner, Christy, Hos and Enders.

Style No. 8
 46C5217—Fits Clark's Jewel, Mark Cross, O. V. B. Klass, Ascot and Federal Safety Razors.

Shaving Set \$4.25

Everything you need to shave yourself is contained in this durable compact leather covered case. Length closed, 7 1/2 inches. Width, 3 1/2 inches. The set consists of a hollow round razor with a 1/2 inch blade, gun metal finish back and tang and black rubber handle. Strop is fine shell horsehide. Size, 2 1/2 x 1 1/4 inches. Brush is set in rubber and telescopes into nickel plated handle. Williams' Shaving Stick. Here's a useful gift for the man who shaves himself. Shipping weight, 11 ounces.

46C5213—Price. **\$4.25**



Automatic Safety Razor Blade Sharpener

For double-edged safety blades. The blade-holder turns the blade so that both sides are automatically stropped with a diagonal stroke. Strong, compact and nicely finished. Shipping weight, about 12 ounces.

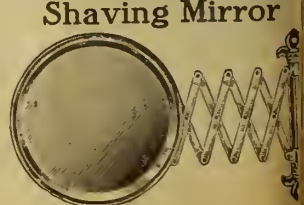
46C5230—For Gillette Blades. **\$1.78**
 46C5231—For Durham-Duplex Blades. **\$2.43**
 46C5232—For Ever-Ready, Gem, Star and other waffer blades. **\$1.78**



Edson Razor Traveling Set

Edson Safety Razor and Stroping Outfit. Consists of razor, ten blades, triple silver-plated stropping handle and leather faced strop. Makes your blade last longer. Artificial leather covered case. Shipping weight, 3 ounces.

46C5205—Each. **\$1.00**



Shaving Mirror

Adjusts to Any Angle

46C5218—**\$3.95**

RAZORS OF FINE STEEL

Army and Navy

Blade: 3/4 inches wide, round point forged in Wardlow's English Razor Steel.

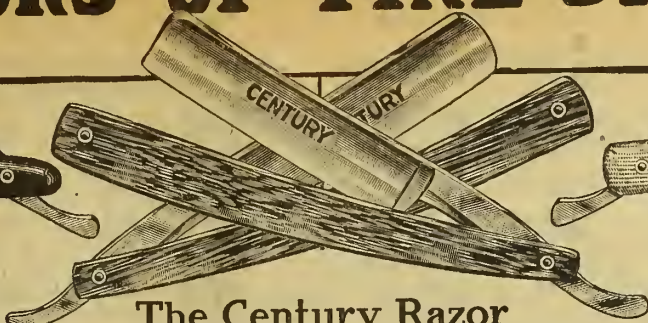
Grinding: 3/4 Hollow.

Tang: Half corrugated and polished.

Handle: Oval black hard rubber.

This razor is a duplicate of one made for United States Army and Navy and selected for its fine shaving qualities and sturdy ability. The shaving edge is stiff enough to shave the toughest beard with comfort. Shipping weight, 3 ounces.

46C5400—Price..... \$1.65



The Century Razor Your Choice of Square or Round Point

Blade: 3/4 inches wide forged from a special high carbon steel that takes a very hard temper. Grinding: Full hollow. Tang: Gold-plated, smooth finish. Handle: Celluloid in golden oak reproduction. This Razor with its thin yet stiff blade is notable for excellent edge holding qualities and the comfort with which it will shave any beard. Shipping weight, 3 ounces.

46C5404—Square Point. Price..... \$2.50
46C5408—Round Point. Price..... 2.50

The Mandarin

Blade: 3/4 inches wide forged from Wardlow's selected English steel and beautifully beveled. Mirror Polished.

Grinding: Full hollow. Hand honed and hair tested.

Tang: Full corrugated.

Handle: Grained celluloid in reproduction of Ivory.

The handsomest Razor in our stock and one that a man will cherish for a life-time, not only for its beauty, but for its superb shaving qualities. Will cut any beard with ease. Shipping weight, 3 ounces.

46C5412—Price..... \$4.25



low price. Ship. wt., 3 oz.
46C5416—Price..... 80c

Blade: 3/4 inches wide forged from selected Cutler's steel. Hollow Point.

Grinding: Half Hollow.

Tang: Plain polished.

Handle: Plain, hard black rubber.

This is a very fair quality Razor. Plain and sensible with no frills, and an excellent value at our very

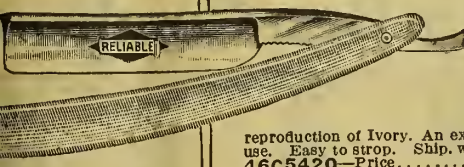
Blade: 3/4 inches wide. Made of high carbon tool steel that takes a very hard temper. Square point, full mirror polished.

Grinding: Hollow.

Tang: Half gimped, mirror polished.

Handle: Blue celluloid with white border. A good, smooth shaving Razor. Shipping weight, 3 ounces.

46C5444—Price..... \$2.10



reproduction of Ivory. An excellent Razor for home use. Easy to strop. Ship. wt., 3 oz.
46C5420—Price..... \$1.25

Blade: 3/4 in. wide forged from selected Cutler's steel, square point.

Grinding: Three-quarters Hollow.

Tang: Gun metal finish, full gimped.

Handle: Grained celluloid in

reproduction of Ivory.

An excellent Razor for home use. Easy to strop. Ship. wt., 3 oz.

46C5420—Price..... \$1.25



Handle: Plain hard black rubber. A keen cutting hand honed, hair tested edge with an extra stiff blade. We recommend it for any beard. Ship. wt., 3 oz.
46C5424—Price..... \$1.75

Blade: 3/4 in. wide. Wardlow's famous English steel, round point.

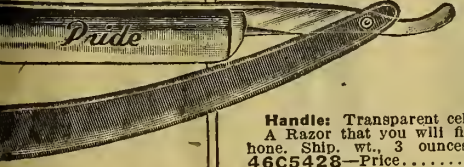
Grinding: Extra full hollow.

Tang: Half gimped and polished.

Handle: Plain hard black rubber.

A keen cutting hand honed, hair tested edge with an extra stiff blade. We recommend it for any beard. Ship. wt., 3 oz.

46C5424—Price..... \$1.75



Handle: Transparent celluloid, amber color. A Razor that you will find easy to strop and hone. Ship. wt., 3 ounces.
46C5428—Price..... \$1.95

Blade: 3/4 inches wide and forged from selected high carbon Cutler's steel, square point.

Grinding: Full hollow.

Tang: Polished.

Handle: Plain hard black rubber.

A Razor that you will find easy to strop and hone. Ship. wt., 3 ounces.

46C5428—Price..... \$1.95



A heavy Razor for tough wiry beards. Keen edged and hair tested ready to give unusual satisfaction. Ship. wt., 3 oz.
46C5432—Price..... \$1.72

Blade: 3/4 inches wide. Made of Wardlow's selected English Razor Steel, Needle Point.

Grinding: Full hollow.

Tang: Full gimped and polished.

Handle: Plain hard black rubber.

A heavy Razor for tough wiry beards. Keen edged and hair tested ready to give unusual satisfaction. Ship. wt., 3 oz.

46C5432—Price..... \$1.72



that comes honed to a smooth cutting edge and ready to give immediate satisfaction. Ship. wt., 3 oz.
46C5436—Price..... \$2.20

Blade: 3/4 inches wide forged from high carbon Cutler's steel.

Grinding: Full hollow.

Tang: Half gimped and polished.

Handle: Transparent celluloid in reproduction of polished horn.

A handsome clean shaving Razor

that comes honed to a smooth cutting edge and ready to give immediate satisfaction. Ship. wt., 3 oz.

46C5436—Price..... \$2.20

Perfection Razor Guard



This Guard Makes any Straight Razor A "Safety"

The Perfection Razor Guard makes a safety razor out of any old style razor, regardless of the width of blade. Doesn't interfere with close shaving, but does make your razor entirely safe. Nickel plated and rustproof. Fine for travelers. Order one when you buy a razor and return it if you are not pleased with it. Shipping weight, 1 oz.
46C5440
Each..... 28c

Blade: 3/4 inches wide. Wardlow's famous English Cutler's Steel, round point. Full mirror polished.

Grinding: Full hollow.

Tang: Full corrugated and mirror polished.

Handle: Plain hard black rubber.

All the quality is in the finely ground, hand-honed blade. Ship. wt., 3 oz.

46C5448—Price..... \$2.25

Blade: 3/4 in. wide and forged from high carbon cutler's steel, round point. Full mirror polished.

Grinding: Full hollow.

Tang: Half gimped and mirror polished.

Handle: Celluloid in reproduction of golden shell.

Will shave any beard. Ship. wt., 3 oz.

46C5452—Price..... \$2.50

Blade: 3/4 in. forged from finest Sheffield steel, sq. point.

Grinding: Full hollow.

Tang: Half gimped.

Handle: Hard black rubber.

The felt lining in handle is saturated with an oil which keeps blade clean and free from rust. Ship. wt., 5 oz.

46C5456—Price..... \$2.60

Old Style Blade: 3/4 inches forged from Wardlow's English Razor Steel, Hollow Point.

Grinding: Old Fashioned Straight Grind.

Tang: Plain polished.

Handle: Grained celluloid in reproduction of Ivory.

A Razor to please the man with an unusually heavy beard. When other razors have failed this blade shaves with ease. Shipping weight, 3 ounces.

46C5460—Price..... \$2.85

Blade: 3/4 inches wide, forged from Wardlow's English Razor Steel. Beautifully beveled and mirror polished.

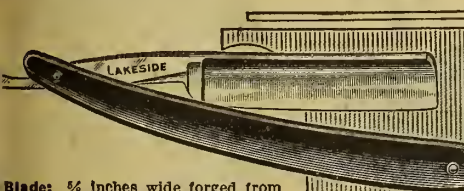
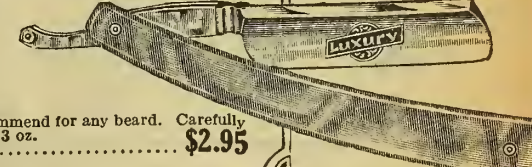
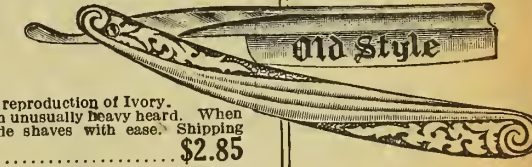
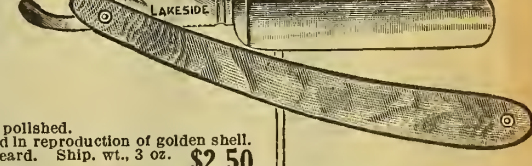
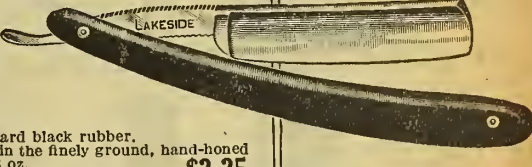
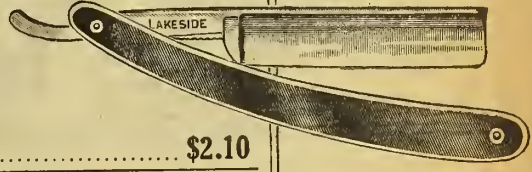
Grinding: Full hollow.

Tang: Pearl covered.

Handle: Celluloid reproduction of gray smoked pearl.

A handsome Razor that we recommend for any beard. Carefully made in every respect. Ship. wt., 3 oz.

46C5464—Price..... \$2.95



Blade: 3/4 inches wide forged from Wardlow's English Razor Steel. Needle Point.

Grinding: Extra Full Hollow.

Tang: Half Gimped.

Handle: Flat Hard Black Rubber.

A stiff, thin blade that barbers like. Shipping weight, 3 ounces.

46C5468—Price..... \$1.65

The Blackstone

Blade: 3/4 in. forged from Wardlow's English Razor Steel.

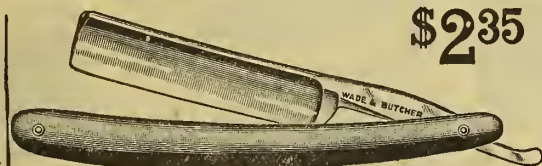
Grinding: Extra Full Hollow.

Tang: Half Gimped.

Handle: Grained Celluloid in reproduction of Ivory.

A clean shaving and edge holding Razor for barbers or for self-shavers who know how to care for a very fine blade. Ship. weight, 3 oz.

46C5472—Price..... \$1.85



\$2.35

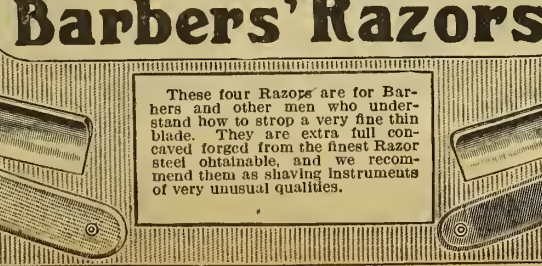
Wade and Butcher

Blade: 3/4 inches, selected English Sheffield Steel, square point.

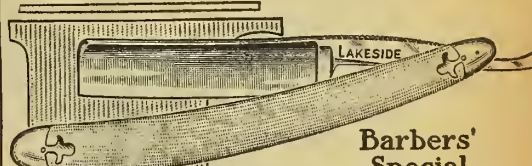
Grinding: English Hollow. Tang: Plain. Handle: Hard Black Rubber.

A plain sensible Razor made in one of the most famous shops in the world. A genuine Wade and Butcher and famous for good shaving qualities. Ship. wt., 3 oz.

46C5484—Price..... \$2.35



These four Razors are for Barbers and other men who understand how to strop a very fine thin blade. They are extra full concaved forged from the finest Razor steel obtainable, and we recommend them as shaving instruments of very unusual qualities.



Barbers' Special

Blade: 3/4 inches. Wardlow's English Razor Steel. Needle Point.

Grinding: Extra Full Hollow.

Tang: Half Gimped.

Handle: Grain Celluloid with Nickel Silver Tops.

This is a Barber's Blade, very finely concaved, yet tempered to hold its edge in the face of hard use. Shipping weight, 3 ounces.

46C5480—Price..... \$1.96



The Amber

Blade: 3/4 inches wide and made of fine, high carbon Razor Steel. Needle Point.

Grinding: Extra Full Hollow.

Tang: Gold Plated.

Handle: Transparent Celluloid, rich amber color.

Here is another Barber's Blade that is ground and tempered to stand up. A beautiful Razor. Shipping weight, 3 ounces.

46C5476—Price..... \$2.20

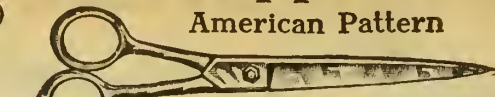
\$1.98

Hair Clippers and Barbers' Shears

\$3.63



Nickel Plated
A splendid clipper for the money. All nickel-plated. Smooth and easy in action. Cuts hair to 1/8 inch.
46C5625—\$1.98
Shipping weight, 9 oz.
Extra Spring for 46C5625. Weight, 1 ounce.
46C5626—Each.. 10c

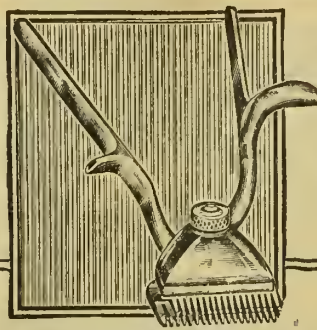


Lakeside Laid Steel Barber Shears. Will cut clean and hold an edge to perfection. Blade well tempered and accurately set.
Shipping wt., 4 ounces.
Full Nickel-Plated
46C5660—7 in. long.....\$1.15
46C5661—7 1/2 in. long.....1.25
46C5662—8 in. long.....1.25
Black Japanned Handle
46C5664—7 in. long.....1.06
46C5665—7 1/2 in. long.....1.11
46C5666—8 in. long.....1.16

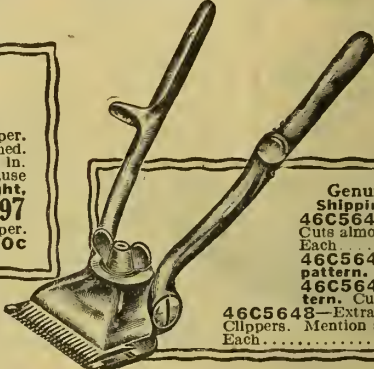


Barber's Shears. Strictly hand forged. Cut easily and smoothly. Hold their edge well. Regulation Barber's pattern and quality. Will give satisfaction both for professional use or for home hair cutting. Shipping weight, 4 ounces.
46C5670—Gun metal finish. Length, 7 1/2 in. Each.....\$1.49
46C5671—Nickel-Plated. Imported. Length, 8 in. Each.....\$1.75

Neck Shaver
Cuts almost as close as a razor. Blades are made from selected tool steel tempered to give a very durable cutting edge. Nickel plated throughout and proof finish.
Shipping wt., 8 ounces.
46C5635—\$3.63
Price.....\$3.63
Extra springs for above Ship. wt. 1 oz.
46C5636—Price. 10c



Roller Bearing Clippers
This is a very strong, smooth-working clipper. The body is heavily nickel-plated and polished. Cuts hair the regular length, to leave it 1/8 in. long. Will hold its cutting edge for years because of the fine temper of the blades. Shipping weight, 10 ounces.
46C5630—Each.....\$2.97
46C5631—Extra Springs to fit above clipper. Shipping weight, 1 ounce. Each.....10c



Genuine Brown and Sharpe
Shipping weight about 1 pound.
46C5645—Size 00. Improved pattern. Cuts almost as closely as shaving.
Each.....\$5.40
46C5646—Size 0. Bressant pattern. Cuts 1/8 inch. Each...\$5.40
46C5647—Size 1. Bressant pattern. Cuts 1/4 inch. Each...\$5.40
46C5648—Extra Springs for Brown & Sharpe Clippers. Mention size of clipper. Weight, 1 oz. Each.....10c

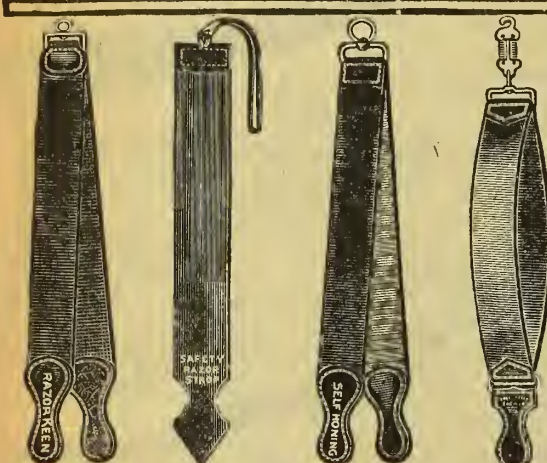


Perfection Clippers
Fine quality, built to give long service. Nickel-plated frame and plates. Hard tempered tool steel blades. Smooth working. Shipping weight 10 ounces.
46C5640—Leaves hair 1/8 inch long. Price.....\$3.98
46C5641—Leaves hair 1/4 inch long. Price.....\$3.88
Extra springs for above clippers. Ship. wt., 1 oz.
46C5642—Price, each.....10c

These clippers are for human hair only. For Dog and Horse Clippers see Index.

Strops and Honers to Keep Your Razor in Best Condition

To insure shaving comfort your razor should be kept in the best condition. These honers and strops renew the keen cutting edge so that you will get those smooth shaves that mean real pleasure.

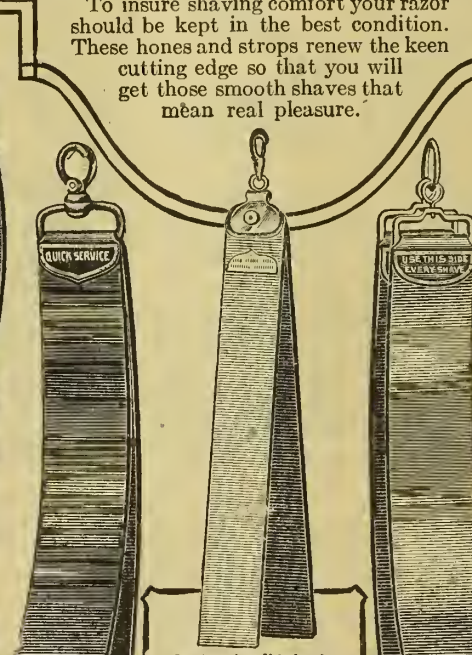


Combination strop of black cowhide leather finishing, and black cotton web sharpening side. Nickel plated swivel. Length, 23 1/2 in. each side. Width, 2 1/4 in.
46C5695—Each... 65c
Ship. wt., 6 oz.

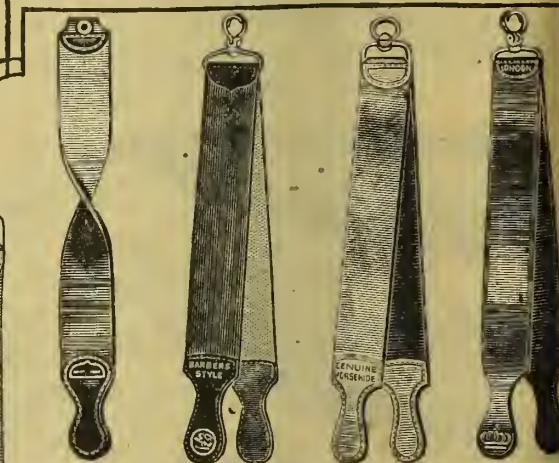
A handy strop especially for use with the Auto-Strop Safety Razor. Smooth finished shell horsehide. Very flexible. Size of strop, 16 in. by 1 1/2 in.
46C5698—Each... 50c
Ship. wt., 4 oz.

Self-honing leather sharpening side and black, heavy horsehide finishing side. Nickel-plated swivel. Size, 23 1/4 x 2 1/4 in.
46C5701—Each...\$1.25
Ship. wt., 10 oz.

Sharpening strop is prepared leather. Finish side smooth leather. Broken in, ready for use. Size, 23 1/2 x 2 1/4 inches.
46C5704—Price...\$1.30
Ship. wt., 8 oz.



Barbers' solid leather strop. Prepared leather. Self-honing sharpening strop. A heavy shell horsehide finish strop. Gilt swivel snap. Broken in, ready for use. 26x2 1/2 in.
46C5722—\$2.95
Ship. wt., 11 oz.



Single shell horsehide strop. Sharpening side is natural finish. Finish side is tan waxed. Length, 24 in. Width, 2 1/4 in. Ship. wt., 4 oz.
46C5707—Price...\$1.25

Double Strop. Sharpening side finest cotton web, finishing side heavy genuine horsehide. Gilt adjustable swivel clutch. Length, 24 1/2 in. Width, 2 1/4 in.
46C5710—Each...\$1.70
Ship. wt., 9 oz.

Self honing double leather strop. Black sharpener side. Finish side smooth tan shell horsehide. Nickel swivel. Length, 25 in. Width, 2 1/4 in.
46C5713—Each...\$1.80
Ship. wt., 9 oz.

Extra heavy double horsehide strop. Black sharpener side. Finish side smooth tan shell horsehide. Gilt clutch swivel. Length, 25 in. Width, 2 1/4 in.
46C5716—Each...\$2.10
Ship. wt., 10 oz.

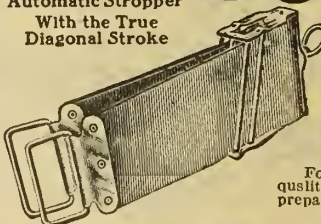
Here's The Strop For Dull Razors

The feature of this efficient strop is that it has three stropping surfaces instead of two as in most strops. One of these surfaces is especially treated to sharpen very dull razors. While this strop doesn't do away with the need for a hone, yet you won't have to have your razor honed so often. Leaves the razor an unusually smooth edge—a velvet edge that means clean comfortable shaves. It's a double swing strop, combination barber's canvas and genuine horsehide. Comes broken-in, ready for use. Strongly sewed, nickel-plated hook. Full size, length, 26 inches; width, 2 1/4 inches.
46C5725—Each.....\$1.55
Shipping weight, 7 ounces.

Our Quick-Service Strop—All Broken In

One of our best strops and our biggest value. It comes to you perfectly broken-in and ready for immediate use. One of the finest razor strops we ever saw, regardless of price. The sharpening strop is made from selected horsehide. Has plenty of draw and is unexcelled for quick sharpening. The finishing strop is extra soft and heavy shell horsehide. Gives a velvet edge. The strop is regulation Barbers' size—length, 26 inches; width, 2 1/4 inches. Has strong, handy, gilt Clutch swivel. Opens wide enough to pass over large hook or door knob.
46C5719—Each.....\$2.43
Shipping weight, 11 ounces.

Automatic Stropper With the True Diagonal Stroke

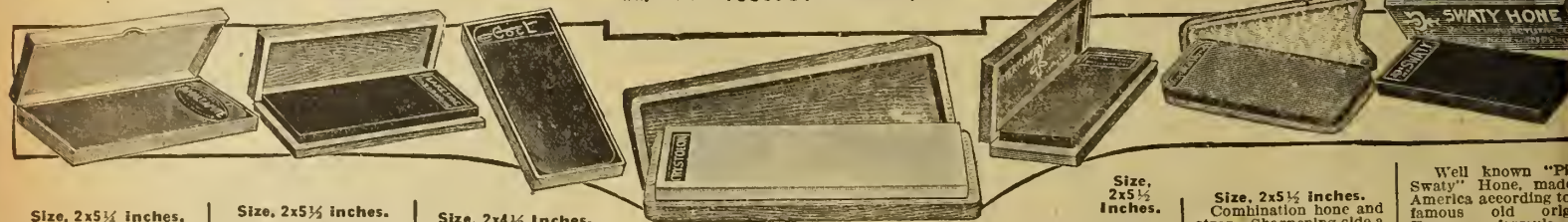
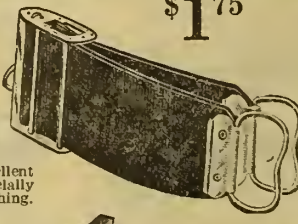


Strops regular style razors and any safety razor blade, to a keen velvet edge. Gives the diagonal "heel-toe" stroke that assures a perfect shaving edge. The diagonal stroke is obtained by setting the bladeholder at an angle to the strop. Far simpler and stronger than the cumbersome mechanism often used. Metal parts nickel-plated. Strop is oiled leather, with a honing surface for very dull blades and a fine finishing side. All broken in, ready for use. Extra holder for safety razor blades. Width of strop, 2 1/4 inches. Length, 20 inches. Shipping weight, 12 ounces.
46C5734—Each.....\$1.15

Combination four-sided cushion strop and hone. Hone and special leather sharpening side particularly for dull razors. Two leather sides have excellent finishing surfaces. Sew tension. Length, 13 1/2 in.
46C5728—Each..... 68c
Ship. wt., 9 oz.

Four sided combination strop and hone of excellent quality. Hone on one side for dull razors and three specially prepared leather sides for sharpening and finishing. Sew tension. Length, 14 1/2 in. Ship. wt., 11 oz.
46C5731—Each...\$1.75

\$175



Size, 2x5 1/4 inches.
Amalgamite razor hone. Can be used with oil, water or lather. One side cuts fast. The other side cuts slowly and finishes an edge to perfection.
46C5745—65c
Each.....
Shipping weight, 9 oz.

Size, 2x5 1/4 inches.
Lakeside razor hone. A fine, composition hone. Made of the finest abrasives. Gives good results when used with oil, or lather, or dry. Durable pasteboard box.
46C5747—78c
Price.....
Ship. wt., 10 oz.

Size, 2x4 1/4 inches.
Cott Hone. A high-grade composition hone, for barbers' or home use. Can be used with water, oil or lather. Gives a perfect edge. Will not glaze.
46C5749—46c
Each.....
Shipping weight, 6 oz.

Crystolon Hone \$1.35
A fine, big, fast-cutting hone. Size, 6 1/2 x 2 1/4 inches. Smooth, uniform texture. We recommend it for any razor. Leaves a smooth edge that assures comfortable shaves. Each in a hardwood case. Shipping weight, 1 pound.
46C5751—Price.....\$1.35

Size, 2x5 1/2 inches.
An inexpensive hone that can be successfully used wet or dry. Gives a keen, lasting edge. Good quality. Will not give a wire edge. Shipping weight, 8 ounces.
46C5753—38c
Price.....

Size, 2x5 1/2 inches.
Combination hone and strop. Sharpening side a special, fine composition dry hone. Finishing side is finest shell horsehide, mounted on an elastic felt pad. In an artificial leather case.
46C5755—\$1.10
Price.....
Shipping weight 8 oz.

Well known "Fitz Swaty" Hone, made in America according to famous old original European formula. A hone that sharpens either dry or when used with oil or water. Especially suited for Barbers' razors. 8 1/2 in. by 2 in. Ship. 8 oz.
46C5757—78c
Each.....

Diaries For 1921

These Are Dependable Fountain Pens

Ledgers and Record Books

Fountain Pen
The lever Self-Filling Pen is the latest style of self-filler and the most practical. It is a simple device. When the lever is even with the barrel the pen is filled. It is made of good quality rubber chased and set with a 14K iridium tipped gold pen. The safety cap is attached to the pen.
57C9822—Shipping weight, 4 oz. Sale Price..... **98c**

Rescent Self Filling Fountain Pen
57C9840—Made of hard para rubber fully chased and fitted with a 14-karat gold pen, iridium tipped. Self-filling device is operated by pressing on the plated crescent attached to the side. After filling, crescent is pushed down and locks with safety clip. Length, 5 1/2 in. Shp. wt., 4 oz. **89c**

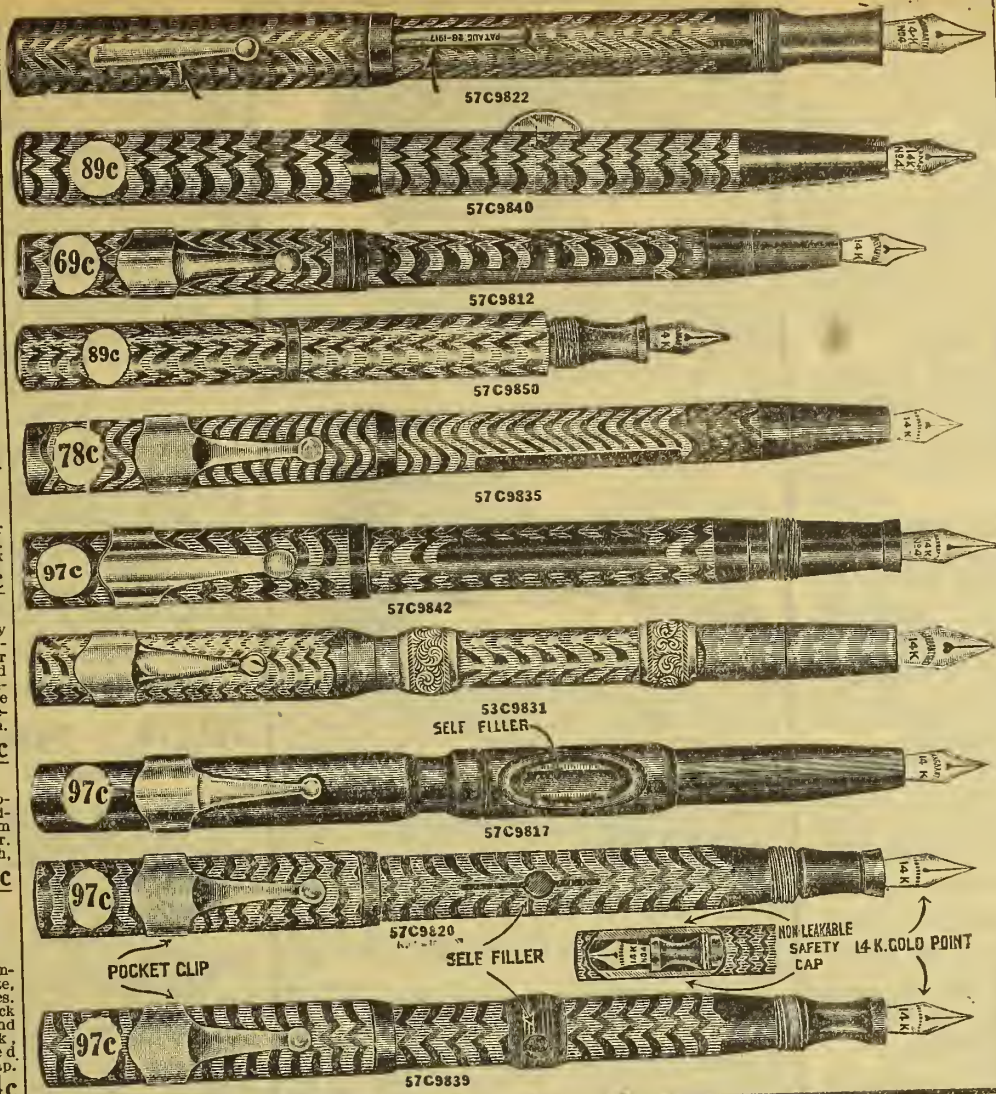
Big Value Dependable Pen
57C9835—Holder is genuine black rubber. Artistically chased. Large 14-karat gold pen, iridium pointed. Box in box, with clip and filler. Length, 6 inches. Shipping weight, 4 ounces. **78c**

Women's Fountain Pen—Ideal Size to carry in Handbag
57C9850—Made of best para rubber artistically chased. Non-leakable. 14-karat gold, iridium pointed pen. Box with filler. Length, 5 inches. Ship. weight, 4 oz. Price..... **89c**

Safety Self-Filling Fountain Pen
57C9839—Self-filling and a safety screw cap. The self-filler hole is protected by a sleeve which is turned after it is filled. Made of highly polished mechanical rubber, fitted with a 14-karat gold pen iridium tipped. The simplest simple pen to fill and clean. Dependable pocket clip. Length, 6 1/2 in. Shp. wt., 4 oz. **97c**

Fountain Pen
57C9831—Made of best para rubber, chased holder and with two gold-plated bands. 14-karat gold iridium pointed pen. Safety clip and filler. Shipping weight, 4 ounces. Length, 6 inches. **95c**

Fountain Pen Ink
57C7930—Contains, approximately, 3 1/2 fl. oz. ounces. Carter's blue-black Fountain Pen and Stylographic ink, with combined copper and filler and aluminum cap. Shp. wt., 13 oz. **34c**



Safety Screw Cap
57C9842—Non-leakable, can be carried in any position, best hardened para rubber. Cap is much heavier than on the usual fountain pens, and screws tightly over the nozzle and gold pen. Large solid gold, 14-karat pen, tipped with iridium. Individual box, filler and directions. Length 6 1/2 inches. Shipping wt., 4 oz. **97c**

Automatic Non-Leakable Self-Filling
57C9817—Genuine hard para rubber. Highly polished, self-cleaning. Fills itself by simple pressure on the rubber sack. Solid 14-karat gold pen, iridium tipped, with under-feed. Nickel-plated clip. Length, 6 1/2 inches. Shipping wt., 4 oz. **97c**

Self-Filling Screw Cap
57C9820
The new non-leakable safety screw cap makes the pen air-tight, prevents leaking in the pocket, stops drying of ink. Self-filling device is a slot in the barrel, operated by inserting a coin, pencil or the end of the clip. Put the gold pen point in the ink and release pressure and the pen is quickly filled without soiling the fingers.
Made of hard para rubber fully chased, and filled with a 14-karat gold pen, iridium tipped. Length 6 1/2 inches. Ship wt., 4 oz. With each pen we include a fountain pen clip free. **97c**

Our Low Priced Pen
57C9812—Chased holder. Polished para rubber. 14-karat gold pen. Length, 6 1/2 in. Shp. wt., 3 oz. Price..... **69c**

Standard Diaries For 1921
1 Day to a Page
3 1/2 x 6 in.

57C9128—Canvas, leather bound, flap, 1 pocket, red edges. **\$1.43**
57C9129—Roan, tuck, 1 pocket, marbled edges. Price..... **\$2.05**
1 day to page, 2 1/2 x 4 in.
57C9132—Roan, tuck, 1 pocket. Price..... **\$1.30**
57C9134—Russia, flap, 1 pocket and stamp pocket, gilt edges. Price..... **\$2.98**
1 day to page, 3 1/2 x 5 in.
57C9135—Cloth, tuck, 1 pocket, marbled edges. Price..... **\$1.15**
57C9136—Canvas, leather bound, flap, 1 pocket, red edges. Price **\$1.32**
57C9137—American Russia, flap, 1 pocket, red edges. Price..... **\$2.15**
1 day to page, 3 1/2 x 6 in.
57C9139—Canvas, leather bound, flap, 1 pocket, red edges. Price **\$1.83**
57C9141—American Russia, flap, 1 pocket red edges. Price..... **\$3.05**

Vest Pocket Diaries
7 days to page, 2 1/2 x 5 1/2 in.
57C9142—Diary and Cash Book, leather bound, flexible round corners, gilt edges. Price..... **\$1.15**
57C9143—Diary including 16 maps. Leather, flexible, round corners, gilt edges. Price..... **78c**

2 Days to a Page
2 1/2 x 4 in.
Shipping weight, each, 5 oz.
57C9111—Cloth, tuck, 1 pocket, marbled edges. Price... **67c**
57C9113—American Russia, flap, 1 pocket, red edges. Price..... **\$1.37**
2 days to page, 3 1/2 x 5 in.
Shipping weight, each 6 ounces.
57C9114—Cloth, tuck, 1 pocket, marbled edges. Price..... **85c**
57C9116—Roan, tuck, 1 pocket, marbled edges. Price..... **\$1.47**
57C9117—American Russia, flap, 1 pocket, red edges. Price... **\$1.83**
57C9119—Water Grain, flap, 2 pockets, gilt edges. Price... **\$2.30**
2 days to page, 3 1/2 x 6 in.
Shipping weight, each, 7 oz.
57C9120—Cloth, tuck, 1 pocket, marbled edges. Price..... **97c**
57C9122—Canvas, Leather bound, 1 pocket, red edges. Price... **\$1.15**
57C9123—American Russia, flap, 1 pocket, red edges. Price... **\$2.25**

2 days to page, 3 1/2 x 6 in.
Shipping weight, each, 7 oz.
57C9125—Canvas, Leather bound, 1 pocket, red edges. Price... **\$1.45**
57C9126—American Russia, flap, 1 pocket, red edges. Price... **\$2.47**

3 Days to a Page
2 1/2 x 4 in.
57C9198—Cloth, tuck, 1 pocket, marbled edges. Price..... **45c**
57C9199—Roan, tuck, 1 pocket, marbled edges. Price..... **93c**
3 days to page, 3 1/2 x 5 in.
57C9102—Cloth, tuck, 1 pocket, marbled edges. Price..... **58c**
57C9104—Roan, tuck, 1 pocket, marbled edges. Price..... **\$1.23**
57C9105—American Russia, 1 pocket, red edges. Price..... **\$1.43**
3 days to page, 3 1/2 x 6 in.
57C9107—Cloth, tuck, 1 pocket, marbled edges. Price..... **75c**
57C9108—Canvas, leather bound, flap, 1 pocket, red edges. Price **\$1.05**
57C9110—American Russia, flap, 1 pocket, red edges. Price... **\$1.83**

Note—A descriptive circular of Standard Diaries, including the above styles, will be sent upon request.

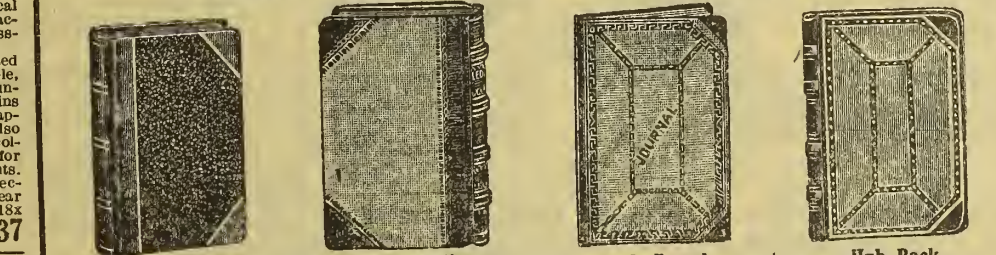
Blank Books and Ledgers

Farmers' Account and Farm Record
57C6904—Compiled by a practical farmer. Keeps accounts in a business-like manner. The system presented in this book is simple, concise and easy to understand. Contains large plate for mapping the farm, also properly arranged columns and headings for all necessary accounts. Each book contains accounts and records complete for three years, each year separate. Bound in black cloth. Size, 18 x 1 1/2 in. Shp. wt., 3 1/2 lbs. **\$4.37**

Miniature Ledgers, Journals and Records
Bound in flexible Black Morocco. Round corners. Green edges. 164 pages. Size, 5 1/2 x 1 in.
57C6925—Double Entry Ledger. **67c**
57C6927—Single Entry Ledger. **67c**
57C6929—Journal. **67c**
57C6931—Record. Shp. wt., each, 10 oz. **67c**

National Scale Duplicating Book
57C6853—National Scale Book. Size, 6 x 10 1/2 in. duplicating 300 original and 300 duplicates. 4 to the page. Shp. wt., each, 19 oz. **85c**

Scale Receipt Book not Duplicating
57C6854—Scale Receipt Book, containing 500 weight forms, with stubs, not duplicated. Bound in heavy boards. Marble paper sides and cloth backs. Size, 8 1/2 x 1 1/2 in. Shp. wt., each, 26 oz. **65c**



Crown Folio
Crown Folio. Bound in Black Cloth. Imitation Russia Leather Back and Corners. Spring back. Are splendid values at our low prices. An extra grade of white woven paper. Size, 8 1/2 x 14 1/2 in. Unit ruling. Ruled for the following:
57C6935—Double Entry Ledger.
57C6937—Single Entry Ledger.
57C6938—Single Entry Ledger.
57C6941—Journals.
57C6944—Records.
57C6947—Broad Day Book.
57C6950—Cash Book.

Flat Opening, Hub Back
Our strongest and best Book. Bound with duck sides and imitation Red Russia leather hub, base and corners. Containing 18 pound ledger stock. Flat opening. Size, 9 1/2 x 14 1/2 in. Unit ruling. Ruled for the following:
57C6954—Double Entry Ledger.
57C6957—Single Entry Ledger.
57C6960—Journals.
57C6963—Records.
57C6966—Broad Day Book.
57C6969—Records.
57C6972—Cash Book.

Duck Board
Bound in Duck with imitation Leather corners. Cap Folio smooth white woven writing paper, narrow faint ruling. Size about 7 1/2 x 12 1/2 in. Cannot supply with unit ruling. Ruled for the following:
57C6862—Double Entry Ledger.
57C6865—Single Entry Ledger.
57C6868—Journals.
57C6871—Records.
57C6874—Broad Day Book.
57C6877—Long Day Book.
57C6880—Cash Book.

Hub Back
Full Duck Cap Folio, lies flat opened. With imitation Russia leather corners, hub back, colored edges, smooth, white wove paper. Size, 8 1/2 x 12 1/2 in. Unit Rule for the following:
57C6883—Double Entry Ledger.
57C6886—Single Entry Ledger.
57C6889—Journals.
57C6892—Records.
57C6895—Broad Day Book.
57C6898—Long Day Book.
57C6900—Cash Book.

No. Pages	Price Each	Shipping Weight Pounds
150	\$1.69	2 1/2 lbs.
300	2.78	3 1/2 lbs.
500	3.95	4 1/2 lbs.

No. Pages	Price Each	Shipping Weight Pounds
300	\$3.47	4 1/2 lbs.
500	4.78	6 1/2 lbs.

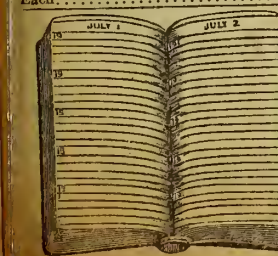
No. Pages	Price Each	Shipping Weight Pounds
100	\$0.98	1 1/2 lbs.
150	1.17	2 lbs.
300	1.69	3 1/2 lbs.
500	2.47	3 1/2 lbs.

No. Pages	Price Each	Shipping Weight Pounds
300	\$1.97	3 lbs.
500	2.76	5 lbs.

Specimens of Rulings in Our Blank Books
Note—In ordering, be sure and state the kind of Ruling, that is, whether you wish a Double Entry Ledger, Single Entry Ledger, Journal, etc., and number of pages wanted.

Five Year Diaries
Can be started any time in any year
A few lines for every day in the year—each year's entries appearing under the entry for the year preceding and so on for five years for recording interesting events or any purposes where "a year ago today" is interesting.
57C9146—Maroon Art Cloth, red edge, size, 3 1/2 x 5 1/2 in. Shp. wt., 11 oz. Price..... **\$1.48**
57C9147—Flexible Seal, round corners, gilt edges, size 3 1/2 x 6 in. Shp. wt., 11 oz. Price..... **\$2.08**
57C9148—Maroon Art Cloth, red edge, size, 4 1/2 x 6 1/2 in. Shp. wt., 13 oz. Price..... **\$2.97**
57C9152—Maroon Art Cloth, red edge, size, 5 1/2 x 7 1/2 in. Shp. wt., 20 oz. Price..... **\$3.98**

One Year Diaries
The books are printed for one year and can be started any day in any year and can be used for the following 365 days.
57C9160—Seven days to page. Vest pocket size, 2 1/2 x 5 1/2 in. Bound in black cloth covers. Gold edges. Shp. wt., 3 oz. Price..... **47c**
57C9161—Seven days to page. Vest pocket size 2 1/2 x 5 1/2 in. Bound in black leather covers. Gold edges. Shp. wt., 3 oz. Price..... **78c**
57C9163—Three days to page. Black Art Cloth binding. Size 3 1/2 x 5 1/2 in. Shp. wt., 5 oz. Price..... **93c**
57C9164—Three days to page. Black grained leather binding. Size, 3 1/2 x 5 1/2 in. Shp. wt., 5 oz. Price **\$1.57**



Handy Bookkeeping and Office Supplies



Loose Leaf Memorandum Book

Genuine leather covers. Simplest, easiest and most practical to operate. Sheets lie perfectly flat open, and can be written on from edge to edge. Faint ruling. Side opening. Bound in black leather with pocket. 50 sheets and linen tab index included.

With Leather Covers

\$1.69

57C9250—Memorandum Book, complete, size, 5x3 in. 6 rings. Ship. wt., 4 ounces. Price, **\$1.69**
57C9252—Extra sheets for 57C9250, 50 in package. Ship. wt., 2 oz. Price, **21c**
57C9255—Memorandum Book, complete size, 6x3 1/2 in. 6 rings. Ship. wt., 6 oz. Price, **\$2.10**
57C9257—Extra sheets for 57C9255, 50 in package. Ship. wt., 3 oz. Price, **24c**

Dating Stamp

57C8735—The convenient Dater consists of a metal holder provided with revolving rubber type and figures so arranged that by its use it is an easy matter to stamp the date on all bills and letters. In addition to the names of the months and the figures corresponding to the days of the month and the years, the Dater contains the following words: "Rec'd.", "Ans'd.", "Entered." Shipping weight, 4 oz. Each, **28c**

Numbering Stamp

57C8739—With six hands. Will number up to 999,999. Excellent for numbering library books, etc. Made in the same style as 57C8735. Shipping weight, 4 oz. Each, **30c**

Rubber Hand Stamps

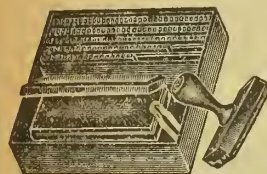
Order under Number **357C7090**
 Used for various purposes, such as stamping envelopes, postal cards, letter heads, etc. Mounted on a polished wood base with black enameled handle and have rubber cushion between the type and wood base, which makes them easy to operate.
 In ordering be sure to make copy plain. All prices based on the longest line on the stamp.



NOTE: RUBBER CUSHION
 Three inches or less. Per line, **35c**
 Exceeding three inches up to four inches. Per line, **45c**
 Exceeding four inches up to five inches. Per line, **50c**
 Exceeding five inches up to six inches. Per line, **60c**
 For type larger than 3/8 inch, price per line will be double.
 Allow ten days for making stamps to order. We ship at our expense.

Best Quality of Deep Rubber Type Outfits

Perfect in every detail. The illustrations show the actual sizes of type.



Useful for getting up from one to four lines of reading matter on short notice. These are ideal commercial outfits, perfectly molded of true alignment, and will print accurately. Put up in strong, cardboard box. Each outfit has self inking pad and tweezers.
 Note—Wherever we mention the quantity of letters before font of type we mean there are that many of the most frequently used capitals and small letters. The quantity of letters for the remainder of the alphabet is regulated by the importance of each letter. A 2A, 3a font of type has 2 capitals and 3 small letters, each, of those frequently used. Other letters in proportion.

AAAAAaaaaaaa 12

57C8729—5A 6a Font of Type, solid rubber, about 300 pieces consisting of large and small letters, three sets of figures, fancy ornaments, punctuation marks, dashes and other necessary marks and a 3-inch four-line metal holder. Shipping wt., 18 oz. Price, **\$1.48**

AAaaa.BBbbbCCccc 1234

57C8717—2A 3a Font of Type, containing about 153 pieces; large and small letters, two sets of figures, punctuation marks, fancy ornaments, \$ and marks, etc. 3 1/4-inch two-line metal holder. Shipping weight, 13 oz. Price, **93c**

A Aaaa.BBbbbCCcccDD 12345

57C8723—Special Printing Card Outfit, 2A 3a Font of Type, containing about 158 pieces, including two sets of figures, punctuation marks, etc., fancy ornaments, \$ and marks. 3 1/4-inch three-line metal holder. Shipping weight, 13 oz. Price, **93c**

AAAAAaaaaaaaBBBB II

57C8726—5A 6a Font of Type, containing about 300 pieces, both large and small letters, four sets of figures (two large and two small) punctuation marks, \$ and marks, and " " marks, stars and brackets, fancy ornaments, and a 3 1/4-inch four-line metal holder. Shipping weight, 1 lb. Price, **\$1.68**

Rubber Stamp Pads

Self Inking Rubber Stamp Pads. For use with rubber type outfits, hand stamp, etc., and contains enough ink for several months' service. Put up either:

Dark red
 Violet
 Green
 Light Red
 Blue
 Black

57C8756—Small size, 2 1/2 x 3 1/2 in. Ship. weight, 5 oz. **32c**
57C8760—Large size, 2 3/4 x 4 1/4 in. Ship. wt., 6 oz. Each, **43c**
 When Ordering, Always Give Color Desired

Rubber Stamp Inks

57C8752—Rubber Stamp Ink in black, light red, dark red, violet, blue or green. Contents, 1 1/2 oz. Ship. wt., 8 oz. Per bottle, **29c**

29c

Office Shears

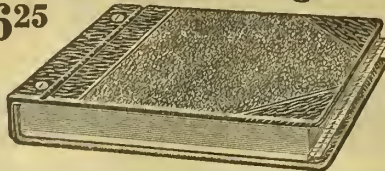
57C7416—All nickel finish Length 10 inches. Ship. wt., 1 1/2 lb. Price, **97c**

Paper Clips

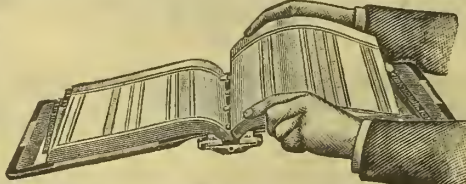
57C7618—Holds thinnest sheet of paper. Length, 1 1/4 in. Ship. wt., per box, 4 oz. Per box of 100, **10c**
 10 boxes (1,000). Price, **87c**

Loose Leaf Ledgers

\$6.25

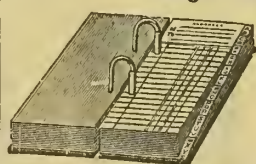


The mechanism of 57C6901 and 57C6906 is simple, strong and easily operated. A half turn of the two nickel plated locking screw beads, which are slotted out so they can be operated by any small coin or flat metal, completes the operation.
 Fitted with four telescoping posts, standard gauge, interchangeable with all standard makes of loose leaf ledgers.
 Binding, seal grain texhide hack and corners, with cloth sides over heavy boards.
 Has 1 1/4 inch hack, expanding to 2 1/4 inches to hold 375 leaves.
57C6901—Ledger complete with 200 sheets, size 7 1/2 x 10 1/2, and leather tabbed index. Ship. wt., 6 lbs. Price, **\$6.25**
57C6906—Same as 57C6901, but larger. Contains 200 sheets, size 9 1/2 x 11 1/2 and leather tabbed index. Ship. wt., 8 lbs. Price, **\$7.98**



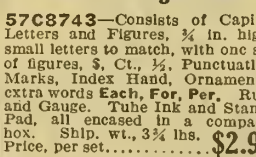
The steel case of 57C6906-6922-6932 is made in three parts—two side pieces and a back plate, each strongly reinforced and electrically welded, making a case, which is exceptionally light, rigid and durable, and all of the exposed metal is heavily nickleplated. A few turns of the key engaging the center shaft, contracts the sides of the binder cases, clamping the leaves firmly, as in a vise. 1 1/4 inch hack, expanding to 2 1/4 inches. Will hold 375 leaves.
57C6909—Bound in heavy blue slate canvas, leather corners. Contains 200 sheets, size 7 1/2 x 10 1/2 inches, and a leather tabbed index. Shipping weight, 6 1/2 lbs. Price, **\$8.25**
57C6916—Bound the same as 57C6909 but larger. Contains 200 sheets, size 9 1/2 x 11 1/2 inches and a leather tabbed index. Shipping weight, 8 1/2 lbs. Price, **\$9.25**
57C6922—Bound in Red Russia Leather, back and corners and corduroy sides. Complete with 200 sheets, size, 7 1/2 x 10 1/2 inches, and a leather tabbed index. Shipping weight, 6 1/2 lbs. Price, **\$9.98**
57C6932—Bound same as 57C6922 but larger. Contains 200 sheets, size 9 1/2 x 11 1/2 inches, and a leather tabbed index. Shipping weight, 9 1/2 lbs. Price, **\$12.25**
Extra Sheets for Loose Leaf Ledgers.
57C6923—Extra sheets, size 7 1/2 x 10 1/2 inches for use in ledgers, 57C6901, 57C6909, 57C6922. Shipping weight, 1 1/2 lbs. Price, per pkg. of 100 sheets, **\$1.08**
57C6933—Extra sheets, size, 9 1/2 x 11 1/2 inches for use in ledgers, 57C6906, 57C6916, 57C6932. Shipping weight, 1 1/2 lbs. Price, per pkg. of 100 sheets, **\$1.20**

Ledger Account Files



57C7308—Or Collection File. A small loose leaf ledger for keeping track of petty and transient accounts in statement form. Complete with 500, 4x9 inches statements with blank lines for names of buyer and seller, date, etc. Ship. wt., about 2 1/2 lbs. Price, **\$2.95**
57C7313—Blank Statements. File, 500 in package. Ship. wt., 2 1/2 lbs. Per package, **\$1.05**

The Art Sign and Price Markers' Outfit



57C8743—Consists of Capital Letters and Figures, 3/4 in. high, small letters to match, with one set of figures, \$, Ct., 1/2. Punctuation Marks, Index Hand, Ornaments, extra words each, For Per Rule and Gauge, Tube Ink and Stamp Pad, all encased in a compact, box. Ship. wt., 3 1/2 lbs. Price, per set, **\$2.98**

Mark Twain Scrap Book



Ready gummed page. No mutilage or brush required.
57C6979—Size, 6 1/2 x 9 1/2 in. cloth back, marble paper sides; 64 pages, with 2 gummed columns to page. Ship. wt., 1 lb. Each, **\$1.67**
57C6981—Size, 8 1/2 x 11 in.; 64 pages, with three gummed columns to page. Otherwise same as 57C6979. Ship. wt., 1 1/4 lbs. Price, each, **\$2.10**
57C6984—Bound in full cloth 10x12 in. Three gummed columns to each page. Contains 76 pages and an index. Shipping weight, 2 lbs. Each, **\$3.67**

Large Scrap Book

57C6987—Silk cloth covers with large fancy design embossed in gold. Size, 11x14 in.; 60 pages heavy, white paper with patent back. Ship. wt., 28 oz. Each, **\$1.57**

Memorandum Books

Bound in imitation Russia red leather, limp, and all ruled in dollars and cents.
57C9210—Slide opening, 36 leaves. Size, 2 1/2 x 5 1/2 in. Ship. wt., 4 oz. Printed Index. Price, **24c**
57C9214—Slide opening, 48 leaves. Size, 3 1/4 x 5 1/2 in. Ship. wt., 6 oz. Price, **27c**
57C9225—Slide opening, 80 leaves. Size, 3 3/4 x 6 1/2 in. Ship. wt., 8 oz. Price, **30c**
57C9229—Slide opening, 72 leaves as 57C9225. With Canvas Letter Index. Size, 3 1/4 x 6 1/2 in. Ship. wt., 8 oz. Price, **34c**
57C9235—Slide opening, 72 leaves. Size, 4 1/4 x 6 3/4 in. Ship. wt., 8 oz. Price, **39c**

Deliance Dimunette Check Protector

57C7607—There is only one known protection that really protects and that is Standard Protection—the kind the Dimunette gives—the one unfailing stumbling block to the modern check raiser.



Read this Extraordinary Guarantee by the Manufacturer.
 "We hereby guarantee that the user of the Dimunette shall not be liable in event that one of his checks is raised or altered, and that the use of the Dimunette is in conformity with the most exacting legal obligations in the matter of care devolving upon the maker of a check."

This guarantee is given to every purchaser of the Dimunette. Made of steel with brushed bronze effect. It is 3 1/4 in. high and 3 1/2 in. wide. Shipping wt., 37 oz. Price, **\$6.98**

\$6.98

Automatic Numbering Machines

57C8748—All steel beautifully finished in nickel with handsome wood handle. Non-rusting metal type, self inking dust proof.
 Three Movements
 Consecutive (Six wheels)
 Duplicate (prints Nos. 1 Repeat 1 to 999,999)
 Height, 4 inches Weight, 8 ounces.
 Put up one in a box with type-stick, bottle of ink and extra ink pad. Price, **\$5.98**



Automatic Numbering Machine

341274 Price **\$9.87**
 Facsimile Impression

57C8747—Model 49A has features found on no other numbering machine, namely, nickel bronze wheels, depressible and divided into equal tenths. It is self inking. Numbers from 1 to 999,999 automatically. Has three movements, viz.: consecutive, duplicate and repeat. Shipping weight, 21 oz. Price, **\$9.87**



Notary Public Seals

357C7592—Seals for Notary Public, Corporations, Lodges, Courts, etc. Japanese finish standard size press with 1 1/2 in. die. The illustration shows usual form, but will make up according to any form desired. Shipping wt., 5 lbs. Price, **\$4.75**
357C7596—Seal, Same as 357C7592, with a smaller die, 1 1/2 in. Shipping wt., 3 lbs. Price, **\$4.50**



Note—Above Seals are made to order only; will not send C. O. D. and if made as ordered, cannot be returned. Allow 10 days for the work.
 Note—When State Coat of Arms is required on seal or special engraving for lodges, church societies, etc., price will be extra, according to engraving desired. Write for prices.

Eyelet Punch and Set

57C7578—Eyelet Punch and Set, for binding manuscripts, legal papers, etc. Will punch hole and set eyelet without removing the punch from the hole. Ship. 8 oz. Each, **\$2.98**
57C7581—Eyelets for use with 57C7578 punch. 500 in box. Ship. wt., each, 10 oz. One size only, box, 500, **39c**



Automatic Paper Fastener

57C7574—Used in the manner of a ticket punch. Will fasten a number of sheets together, without the use of pins, clips, staples. Cuts, inserts and secures paper automatically. Made of steel, nickel-plated. Length, 5 inches. Ship. wt., 9 oz. Price, **\$2.57**



Paper Fastener

57C7553—Hotchkiss Automatic Paper Fastener. One blow cuts off the staple securely clinches it, and feeds another staple ready for use. Cast iron nickel finish. Shipping wt., 1 1/4 lbs. Price, each, **\$2.48**
57C7556—Flat Staples, 3/16 in., for use in above. 500 in box. Shipping wt., 3 oz. Per box, **27c**



Cap Badge

357C7419—Metal Cap Badge, made of nickel silver, nickel-plated. Length, 3 1/2 in. width varies. The illustration shows usual form we furnish with special wording. Make your copy plain. In this style furnish express, transfer, baggage, etc. Allow 10 days' time for making. Price, each, Postpaid, **98c**



Made to Order Metal Badges

Allow 10 days' time for making.
357C7422—Metal 6 ball pointed Star Coat Badge, made of nickel silver, nickel-plated. Diameter 2 1/2 in., with pin fastener.
 This style we furnish with special wording. For police, sheriff, detective, reporter, etc. Price, each Postpaid, **98c**



Police Star Badges

The official six ball pointed star, Nickel Silver.
 This style is a regular stock item and can be shipped immediately on receipt of order. Shipping wt., each 3 oz.
57C9803—Police. **57C9807**—Special Police.
57C9804—Sheriff. **57C9808**—Marshall.
57C9805—Deputy Sheriff. **57C9809**—Detective.
57C9806—Constable. **57C9810**—Game Warden.
57C9811—Watchman. Price, each, **89c**

Filing Outfits and General Office Supplies



\$13.78

The Gem Adding Machine

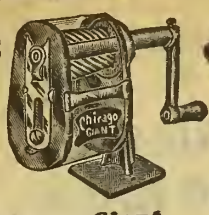
Seven Columns, A Great Time Saver for Storekeepers, Bookkeepers and Clerks
 57C9801—Adds seven columns absolutely accurate. Capacity, \$99,999.99. Does the carrying automatically. Clears to zero automatically. Simple to operate. Gives total totals always in sight of the operator. It is nickel-plated, with folding keys, which attach direct to the machine. Ship. wt., \$13.78 1 1/2 lbs. Price.....
 57C9814—Same as 57C9801. Nine column machine with a capacity of \$9,999,999.99. Ship. wt., 2 lbs. Price..... \$18.75



\$1.42

The Chicago

57C7652—Will sharpen any standard size pencil. Has two rotary cutters made of fine tool steel. Will sharpen thousands of pencils without adjustment or replacement. Can be fastened on the desk or on the wall. 4 inches high. Shipping weight, 1 1/2 lbs. Price..... \$1.42



\$1.83

Chicago Giant Pencil Sharpener

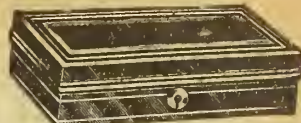
57C7654—Will sharpen thousands of pencils of all diameters without adjustment or replacement. Has two rotary cutters made of fine tool steel. Can be fastened on the desk or on the wall. 4 inches high. Shipping wt., 1 1/2 lbs. Price..... \$1.83



\$4.89

Dexter Pencil Sharpener

57C7655—Sharpens any pencil made and stops cutting when desired point is produced. Cutters remain sharp indefinitely. Equipped with twin milling cutter and point adjuster. Made of steel nickel-plated. Size 3 1/4 x 4 1/4 in. Shipping weight 2 1/2 lbs. Price..... \$4.89



For Liberty Bonds and legal and valuable papers. Well made of highly japanned tin, decorated in gold, handle on one end, two flat keys.
 57C7404—Length, 10 1/2 in., outside width, 5 1/2 in., height, 2 3/4 in. Ship. wt., 1 1/2 lbs. \$1.57
 57C7406—Length, 11 in., outside width 5 1/2 in., height, 3 1/4 in. Ship. wt., 1 1/2 lbs. \$1.87
 Each.....

Notes, Receipt Books

Contains special safety tinted paper of good quality, bound in flexible cardboard; lithographed forms each containing 50 leaves. Size, 3 1/2 x 10 3/4 in. Ship. wt., each, 6 oz.
 57C6846—Notes, Each..... 18c
 57C6848—Receipts, Each..... 18c
 57C6850—Rent Receipts, Each..... 18c

The Lawton Duplicator

Made in slate form, with heavy substantial frame, and with two surfaces. A perfect reproduction of the manuscript written with a common pen on ordinary paper, can be reproduced about 75 times, or an original written on the typewriter can be reproduced from 50 to 60 times in a few minutes. When using a typewriter it is necessary to use our Hektograph ribbon quoted below. No washing necessary. Prices complete with bottle of violet ink and sponge.
 57C7467—Note size, 10 1/2 x 7 1/2 in. Shipping wt., 5 1/2 lbs. \$4.47
 57C7471—Letter size, 11 1/2 x 9 1/2 in. Shipping wt., 6 1/2 lbs. 6.38
 57C7475—Cap size, 14 1/2 x 9 1/2 in. Shipping wt., 8 1/2 lbs. 7.48

Hektograph Duplicator

Hektograph Duplicator for making copies of pen or typewritten originals in one or more colors. Copies resemble the original, and the manner of using it is so simple that a boy can work it. Invaluable for making circulars, examination papers, postal cards and other notices, and all similar work. When using a typewriter it is necessary to use our Hektograph ribbon quoted below. Price includes violet ink and sponge.
 57C7452—Note size, 9 1/2 x 6 1/2 in. Ship. wt., 3 1/2 lbs. \$2.97
 57C7455—Letter size, 11 1/2 x 9 1/2 in. Ship. wt., 5 1/2 lbs. Ea. \$4.98

Duplicator Paper

For use on Hektograph or Lawton Duplicator. Never print on both sides of the paper. Each box contains 250 sheets.
 57C7479—Note size. Shipping weight, 1 1/2 lbs. \$0.98
 57C7484—Letter size. Shipping weight, 3 1/2 lbs. 1.59
 57C7488—Cap size. Shipping weight, 4 1/2 lbs. 1.98

Hektograph Supplies

57C7458—Hektograph Composition, for refilling, put up in 2 1/2 lb. can. Shipping weight, 3 lbs. \$2.89
 57C7461—Hektograph Duplicating Ink, black, violet, green, blue, red, 1-oz. bottle. Ship. wt., 6 oz. Per bottle, \$0.52
 57C7464—Hektograph Typewriter Ribbon, violet color only, for use on Lawton Duplicator or Hektograph. Shipping wt., 4 oz. \$0.79
 Each.....
 Mention name of typewriter when ordering.



\$1.15

57C7341—Thornward Letter File. Strongly made; has wood ends; joints stayed with cloth; also a self-working spring in cover. Index printed on both sides. Size 11 1/2 x 12 1/2 x 3 1/4 in. Shipping wt. each 2 1/2 lbs. Each..... \$1.15



87c

57C7331—The Madison Letter File. Indexed, wood frame fancy paper covered. Size, 12 1/2 x 11 1/2 x 3 in. Shipping wt. 2 1/2 lbs. Each..... 87c



72c

Each pocket indexed. Note size. Size 6 1/2 x 1 1/2 in. Made of heavy Manila paper. Capacity, 3,000 letters. Shipping wt. 1 lb. Each..... 72c



\$1.65

57C7326—Opens automatically by releasing lock; stands alone allowing use of both hands for filing; indexed right and left; wooden frame. Size, 11 1/2 x 12 1/2 in.; holds 1,000 letters. Ship. wt. 2 1/2 lbs. Each..... \$1.65



39c

57C7383—Size, 9 1/2 x 13 1/2 x 2 1/4 in., made from extra tinned wire with rubber feet. Will not injure the finish of office furniture. Shipping wt., each, 13 oz. 39c



\$1.97

57C7384—Quartered oak, golden finish. Height, 2 1/2 in. Length, 11 1/2 inches. Width, 9 1/2 inches. Ship. wt., about 2 1/2 lbs. Price..... \$1.97



57C7518



57C7493



57C7499



57C7506

Unexcelled for library or photographic use; will not discolor materials on which it is used; dries quickly. Very smooth. Keeps well under all climatic conditions.
 57C7491—In 4-oz. glass bottles. Shipping wt., 1 1/2 lbs. 18c
 57C7493—In 8-oz. glass jar. Shipping wt., 1 1/2 lbs. 28c
 57C7495—In 16-oz. glass jar. Shipping wt., 2 1/2 lbs. 47c
 57C7497—In large collapsible 2-oz. tube. Shipping wt., 5 oz. each. Per tube..... 12c

Peerless White Cream Paste
 57C7499—Sticks best when spread thin. Always ready for instant use and stays ready. No water required. Has an adjustable brush holder which keeps the fingers clean. Contains 5 1/2 fluid ounces. Shipping weight, 1 1/2 lbs. Price..... 37c

Mucilage and Liquid Cement
 57C7503—Mucilage, contents approx. 3 1/2 fluid oz. Shipping weight, 1 1/2 lbs. Price, per bottle..... 15c
 57C7506—Mucilage, 1-pt. bottle. Shipping weight, 3 lbs. Each..... 69c
 57C7512—Invincible Cement, for mending chairs, glassware, ornaments, etc. Shipping weight, 7 oz. 1-oz. bottle..... 20c

Liquid Glue
 A pure animal glue and in liquid form, strong and tenacious, readily applied, stands heat and cold, wet and dry. No disagreeable odor, does not sour, mold; will not get brittle.
 57C7515—In 1-oz. glass bottle, with brush. Shipping weight, 1/2 oz. Per bottle..... 17c
 57C7518—1/4-pt. can. Shipping weight, 1 lb. Price..... 38c
 57C7524—Quart can. Shipping weight, 2 1/2 lbs..... \$1.15



Double Arch Files

Mounted on striped wood back; well made and finished. Quotations are for the File and Board only. Indexes and Perforators not included.
 57C7358—Note, 7x12 in. Shipping wt., 1 1/2 lbs. 97c
 57C7361—Letter, 9x14 1/2 in. Shipping wt., 1 1/2 lbs. \$1.05
 57C7364—Cap, 9x15 1/2 in. Shipping wt., 2 1/2 lbs. \$1.10



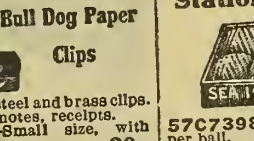
3 for 32c

Handy Perforator
 A handy perforator that can be attached to your Arch file. Perforates papers to fit any of the Double Arch Files listed above. Made of metal, nickel finish. Ship. wt., 7 oz. 57C7357—Perforator, 4 oz. Price..... 59c



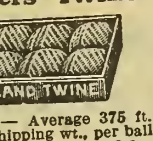
Document Envelopes

57C7374—Extending Document Envelopes, of extra heavy red fibred board, with flap and tape ties. When opened is two inches wide. Size, 4 1/2 x 10 1/2 in. Shipping wt., per 1/2 doz., 6 oz. 32c



Ball Dog Paper Clips

Best spring steel and brass clips. For holding notes, receipts, with 57C7625—Small size, with 1 1/2 in. jaws. 1/2 dozen..... 29c
 57C7628—Medium size, with 2 1/2 in. jaws. Per 1/2 doz., 39c
 Ship. wt., per 1/2 doz., 5 oz.



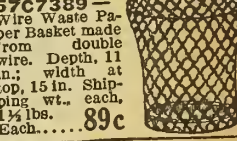
Stationers' Twine

57C7398—Average 375 ft. per ball. Shipping wt., per ball 4 oz. 21c
 57C7400—Per box, 6 ball assorted colors..... \$1.48
 Shipping weight, 19 oz.



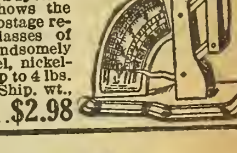
Paper File

Made of cast iron. Shipping wt., each, 6 oz. 57C7410—each..... 18c



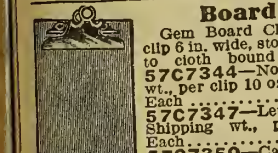
Waste Paper Basket

57C7389—Wire Waste Paper Basket made from double wire. Depth, 11 in.; width at top, 15 in. Shipping wt., each, 1 1/2 lbs. 89c



Office Eye Shades

57C7587—Office eye shade. Green, transparent celluloid, with ventilating spaces at top, and elastic ribbon tie. Shipping wt., 4 ounces. Each..... 24c



Board Clips

Gem Board Clips, nickel-plated clip 6 in. wide, stout spring; riveted to cloth bound tarboard back.
 57C7344—Note, 6 1/2 x 11. Ship. wt., per clip 10 oz. 53c
 57C7347—Letter, 9 x 12 1/2 in. Shipping wt., per clip, 12 oz. 57c
 57C7350—Cap, 9 x 15 1/2 in. Ship. wt., per clip, 1 1/2 lbs. Each..... 63c



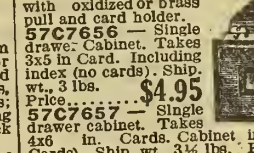
Small Card Index File

57C7549—Made of special tough fibre board equipped with alphabetical guide cards and 50 record cards. Size, 3x5. Steel follower. Mounted on double reinforced bottom, dustproof cover. Length, 11 1/2 inches. Width, 5 1/2 inches. Shipping wt., 2 1/2 lbs. Price..... \$1.68



Card Index Outfit

This system has no equal for keeping a record of costs, prices, and quotations; also for keeping a record of stock and material.
 57C7542—Same as 57C7549 to take 4x6 in. card including index and 100 cards. Ship. wt., 3 lbs. Price..... \$2.25



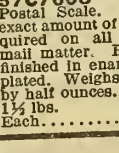
Single Drawer Card Index File

Oak, Golden finish, with oxidized or brass pull and card holder.
 57C7656—Single drawer cabinet. Takes 3x5 in. Card. Including index (no cards). Ship. wt., 3 lbs. Price..... \$4.95
 57C7657—Single drawer cabinet. Takes 4x6 in. Cards. Cabinet including index (no cards). Ship. wt., 3 1/2 lbs. Price..... \$7.12
 57C7658—Two Drawer Cabinet. Takes 3x5 in. Cards. Including indexes (no cards). Ship. wt., 5 lbs. Price..... \$7.89
 57C7659—Two Drawer Cabinet. Takes 4x6 in. Cards. Including indexes (no cards). Ship. wt., 5 1/2 lbs. Price..... \$9.20



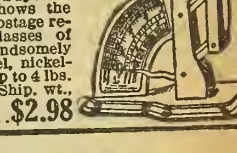
Postal Scale

57C7608—Superior Postal Scale. Shows the exact amount of postage required on all classes of mail matter. Handsomely finished in enamel, nickel-plated. Weighs up to 4 lbs. by half ounces. Ship. wt., 1 1/2 lbs. Price..... \$2.98



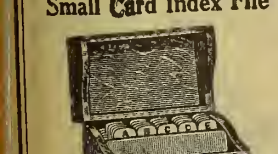
Hinged Card Index Tray

Made of quartered oak, golden finish, dovetailed corners and steel follow block.
 57C7560—Eight inches deep to take 3x5 inch cards. With A to Z index and 100 ruled cards. Shipping weight, about 12 lbs. Price..... \$2.92



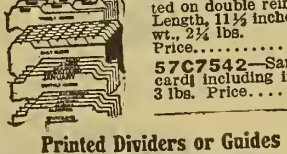
Blank Dividers or Guides

Five cut blank guides used between cards for special work.
 57C7572—Per package of 50; size, 3x5 in. Ship. wt., 3 oz. 49c
 57C7573—Per package of 50; size, 4x6 in. Ship. wt., 3 oz. Price..... 68c



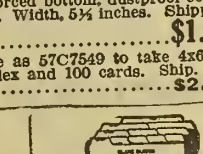
Printed Dividers or Guides

Shipping Weight, about 4 oz.
 57C7562—Days of the week 7 to set 3x5. Price..... \$0.21
 57C7563—Days of the week 7 to set 4x6. Price..... \$0.24
 57C7564—Months of the Year 12 to set 3x5. Price..... \$0.24
 57C7565—Months of the year 12 to set 4x6. Price..... \$0.27
 57C7566—Days of the Months 31 to set 3x5. Price..... \$0.57
 57C7567—Days of the Mon hs 31 to set 4x6. Price..... \$0.75
 57C7570—Alphabet A to Z 25 to set 3x5. Price..... \$0.38
 57C7571—Alphabet A to Z 25 to set 4x6. Price..... \$0.49



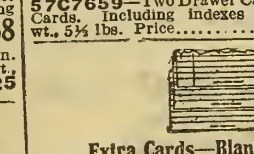
Small Card Index File

57C7550—Made of wood, golden oak finish and is complete with 100 white cards 3x5 inches and index. Just the thing for a daily reminder file. Shipping wt., 2 lbs. Price..... 79c
 57C7552—Same as 57C7550 only larger made to take 4x6 inch cards complete with 100 cards and index. Shipping wt., about 3 1/2 lbs. Price..... \$2.15



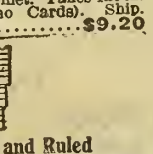
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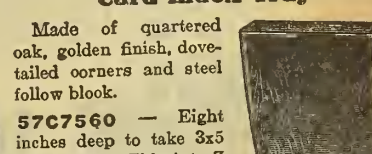
Extra Cards—Blank and Ruled

These cards are made of good quality white stock. Ship. wt., 4 oz.
 57C7525—Horizontal ruling 3x5 inches per 100 cards..... \$0.32
 57C7526—Horizontal ruling 4x6 inches. Per 100 cards..... \$0.52
 57C7527—Single Vertical ruling 3x5 inches. Per 100 cards..... \$0.34
 57C7528—Single Vertical ruling 4x6 inches. Per 100 cards..... \$0.52
 57C7529—Double Vertical ruling 3x5 inches. Per 100 cards..... \$0.49
 57C7530—Double Vertical ruling 4x6 inches. Per 100 cards..... \$0.72
 57C7531—Blank cards no ruling 3x5 inches. Per 100 cards..... \$0.29
 57C7532—Blank cards no ruling 4x6 inches. Per 100 cards..... \$0.43



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57C7550—Made of wood, golden oak finish and is complete with 100 white cards 3x5 inches and index. Just the thing for a daily reminder file. Shipping wt., 2 lbs. Price..... 79c
 57C7552—Same as 57C7550 only larger made to take 4x6 inch cards complete with 100 cards and index. Shipping wt., about 3 1/2 lbs. Price..... \$2.15



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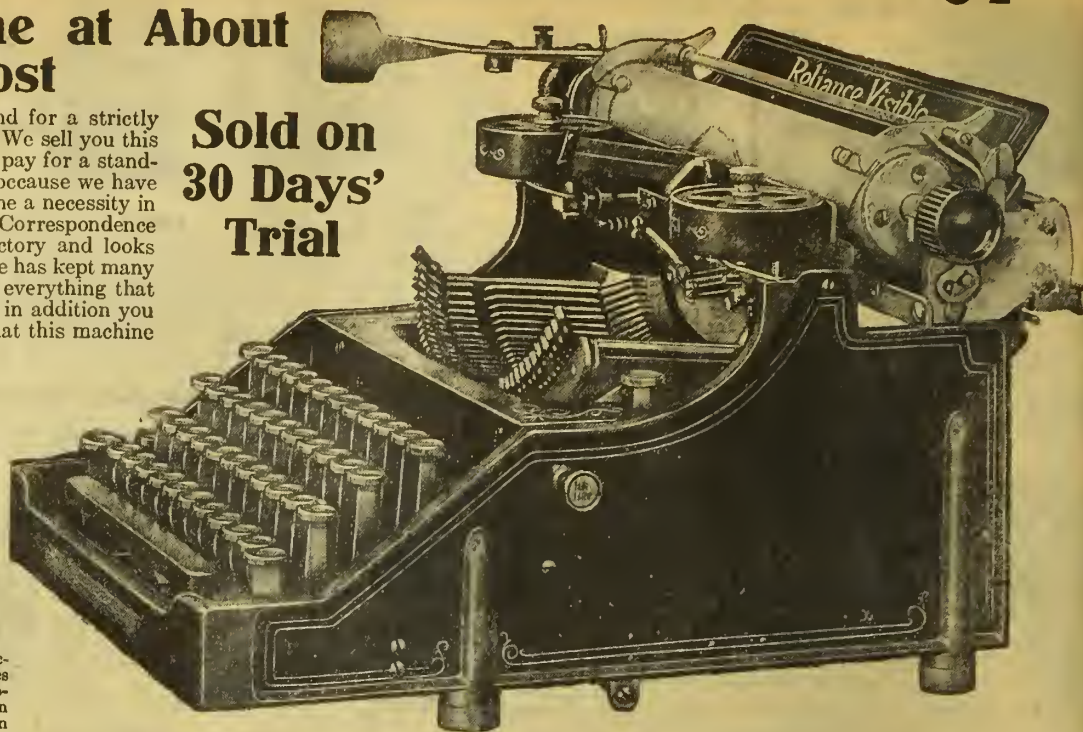
Reliance Visible Typewriter

\$67.50

A Standard Machine at About Half the Cost

The Reliance Visible Typewriter fills the demand for a strictly high grade standard machine at a reasonable cost. We sell you this machine for about one-half what you would have to pay for a standard machine of similar qualities. This is possible because we have no agencies or salesmen. The typewriter has become a necessity in the modern home as well as in the office or shop. Correspondence conducted on a typewriter is always more satisfactory and looks more business-like. The price of a standard machine has kept many from buying typewriters. In the Reliance you get everything that you would find in any other standard machine and in addition you have the guarantee of Montgomery Ward & Co., that this machine will give you satisfactory service.

Sold on 30 Days' Trial



Reliance Features

- | | |
|--------------------------|-----------------------|
| Visible Writing | Type Face Protection |
| Open Construction | Perfect Ribbon Action |
| Standard Keyboard | Back Space Key |
| Rapid Escapement | Marginal Release Key |
| Light, Easy Touch | Tabulator Stops |
| Ball Bearing Carriage | Line Lock |
| Removable Keyboard | Line Ruling Device |
| Automatic Paper Table | Extra Wide Carriage |
| Adjustable Paper Fingers | Best of Workmanship |

The Reliance has a standard keyboard same as shown on practically all standard machines. The writing is visible at all times and the type bars are accessible for cleaning. There is a two-color arrangement so that by using a two-color ribbon you can print parts of your letter in red if you wish. For convenience in cleaning, the entire type basket and keyboard may be removed. This also makes it possible to substitute new type bars which will print any foreign language you wish. We furnish these additional type bar sets at a reasonable extra cost. If interested in addition, type bar sets write us for particulars stating what you want.

Unless otherwise specified, we send you the Reliance Visible complete with what is known as Pica type which is the style of type employed in ninety per cent of machines used for ordinary purposes. We can also furnish machines with other styles on request. The type furnished with the machines is what you will most likely want.

One valuable feature about writing letters with a typewriter is that by using a sheet of carbon paper and more sheets of white paper you can make duplicate copies of your letters to keep for your files. There is a back space key which enables you to move the carriage back if you miss a letter. The Reliance also

SEND FOR OUR TYPEWRITER CIRCULAR IT GIVES YOU ALL DETAILS

has tabulator stops, line lock and line ruling devices, so that you can make out bills and keep records with it. Any boy or girl or grown person can learn to operate a typewriter in a very few days. No teaching is necessary. Our instruction book which accompanies the machine gives all the information needed.

If you have any need at all for a typewriter, we feel sure that after thirty days' trial of the Reliance, and if compared with the best machines you know of you will agree with us that it is a

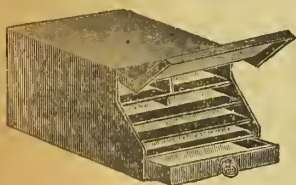
bargain. Once you have installed a typewriter in your home you will wonder how you got along without it.

57C8503—Price, complete.....\$67.50

Ship. wt., 58 lbs. Net wt., 25 lbs.

If after thirty days' trial in your own home you do not find the Reliance perfectly satisfactory, you can return it and we will pay back your money including all transportation charges. Unless otherwise specified we ship by freight.

Stationery Cabinet



With Drawer and Drop Curtain

A convenient receptacle for letter heads, envelopes, carbon paper, etc. It will hold an adequate supply of stationery and avoid the necessity of delving down in the desk drawers for paper and envelopes. A great timesaver.

Made of heavy tarboard, covered with leatherette. Outside dimensions: 9 1/2 in. wide, 15 in. deep, 6 3/4 in. high. Ship. wt. 6 lbs.

57C8528—Price.....\$3.90

Type Cleaning Brushes

57C8533—Ship. weight, 3 oz. 21c
Each.



Circular Typewriter Eraser

57C8536—Superior quality for erasing pen, pencil or typewriter marks. Ship. wt., 2 ounces. 5c
Each.

57C8537—Circular Typewriter Eraser with brush same as 57C8536, with brush attached for cleaning paper after erasing. Shipping weight, 1 oz. Price, each.....10c

Good Quality Typewriter Papers

Wardgrade Linen Laid Marked

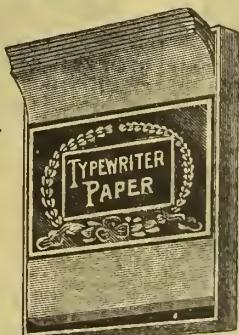
57C8568—Medium Weight legal size, 8 1/2 x 13 in. Shipping wt., per ream, 5 1/2 lbs. Price, per ream, 600 sheets.....\$2.15

57C8571—Medium Weight letter size, 8 1/2 x 11 in. Shipping wt., per ream, 4 3/4 lbs. Price, per ream, 500 sheets.....\$1.83

57C8574—Heavy Weight legal size, 8 1/2 x 13 in. Shipping wt., per ream, 6 3/4 lbs. Price, per ream, 500 sheets.....\$2.49

57C8577—Heavy Weight letter size, 8 1/2 x 11 in. Shipping wt., per ream, 6 1/4 lbs. Price, per ream, 500 sheets.....\$2.58

White Wove Paper



Put up in packages, each containing one ream (500 sheets). These superfine white wove papers, manufactured expressly for use on typewriting machines, are unsurpassed for strength and durability—qualities especially desired for typewriting. We do not sell less than one ream (500 sheets).

Second Sheets For Carbon Copies

For this purpose, cheap paper is used; after testing all colors for our own use, we finally adopted the manila, as giving the best carbon impressions.

57C8582—Price.....38c

Bond Paper Typewriter Tablet

A Tablet for people of limited correspondence, also school work. Contains 50 sheets white bond paper. Size, 8 1/2 x 10 1/2 in. Bound with neat cover and cardboard back. Ship. wt., 11 oz.

57C8582—Price.....38c

Stenographer's Note-Book 3 For 29c

57C8585—Size, 6x9 inches. Has 80 leaves. White paper. Ruled. Manila covers. Opens on end. The style of book in general use in all business offices. Shipping wt., each, 5 oz. Price, 3 For.....29c

Wardgrade Bond Papers

57C8550—Medium Weight Bond; legal size, 8 1/2 x 13 in. Shipping wt., per ream, 5 1/2 lbs. Price, per ream, 500 sheets.....\$1.98

57C8553—Medium Weight Bond; letter size, 8 1/2 x 11 in. Shipping wt., per ream, 5 lbs. Price, per ream, 500 sheets.....\$1.68

57C8556—Heavy Weight Bond; legal size, 8 1/2 x 13 in. Shipping wt., per ream, 6 1/2 lbs. Price, per ream, 500 sheets.....\$2.47

57C8559—Heavy Weight Bond; letter size, 8 1/2 x 11 in. Shipping wt., per ream, 5 1/4 lbs. Price, per ream, 500 sheets.....\$2.10

Special Bond Paper. This is a high-grade bond paper, and we can recommend it for its texture, strength and durability. Medium weight.

57C8562—Letter size, 8 1/2 x 11 in. Ship. wt., 4 1/2 lbs. Per ream.....\$2.57

57C8565—Legal size, 8 1/2 x 13 in. Ship. wt., 6 1/2 lbs. Per ream.....\$2.98

Carbon Papers

Best carbon papers for regular office correspondence and all typewriter work.

57C8540—Purple. Size, 8 1/2 x 11. 57C8541—Blue. Size, 8 1/2 x 11. 57C8542—Black. Size, 8 1/2 x 11. 57C8543—Purple. Size, 8x13. 57C8544—Blue. Size, 8x13. 57C8545—Black. Size, 8x13.

Shipping weight, per dozen sheets, 6 oz.; per box, 1 1/2 pounds. Per doz. sheets any one size.....\$0.32
Per box, 100 sheets.....1.98

Typewriter Ribbons



Very best quality. Each ribbon packed in a box. Be sure and give color wanted when ordering. Ship. wt., each, 3 oz. We can furnish the following colors:

- Black.....75c
- Purple.....75c
- Blue.....75c
- Black and Red.....75c
- Purple and Red.....75c
- Blue and Red.....75c
- 57C8587—Reliance Visible. 1/2-inch.....75c**
- 57C8586—Corona, 1/2-inch.....75c**
- 57C8589—Underwood, 3/8-inch.....75c**
- 57C8591—Underwood, 1/2-inch.....75c**
- 57C8588—Oliver. Width of ribbon, 7/16 in. Price, each.....75c**
- 57C8593—Oliver, 3/8-inch. Width of ribbon, 1 1/4 in. Price, each.....75c**
- 57C8590—Remington. Width of ribbon, 1 1/4 in. Price, each.....75c**
- 57C8595—Remington, 1/2-inch.....75c**
- 57C8592—Smith Premier. Width of ribbon, 1 1/4 in. Price, each.....75c**
- 57C8594—L. C. Smith. Width of ribbon, 1 1/4 in. Each.....75c**
- 57C8596—Royal, 1/2-inch.....75c**

Perfect Oil

57C8530—For typewriters, etc. Does not leak. Regulates the supply of oil to a drop. Length, 4 in. Nickel finish. Shipping wt., 4 oz. Price.....38c

Typewriter Oil

57C8527—Best quality double distilled oil; the only kind suitable for use on typewriters; 1 oz. bottle. Ship. weight, 7 oz. Price, per bottle.....21c



\$6.23

Practical and Instructive

57C8505 Practical Simplex No. 3

Educational and Instructive

Strongly made of steel and iron, with wooden base. A key for each letter, writing in sight, automatic inking device, automatic letter spacer, paper; feed rollers with line spacing ratchet, paper guard with attachment to automatically grip or release the paper so that the paper may be released or adjusted to any point as desired or rolled from the beginning, line by line, with line spacing ratchet. Ship. wt., 4 1/4 lbs.

57C8505—Each, packed in a neat box.....\$6.23

57C8521 Practical No. 1

\$1.98

The Ideal Machine for the Little Folks

Prints capital letters. Has figures, period, and comma. A compact, practical machine for the household. A kindergarten instructor of merit. Simple of operation. Adjustable to single or double spacing. Easily inked. May be used to write on note size typewriter paper. Paper is fed through feed roller. Made of steel. Mahogany finished base. Shipping weight, 1 1/4 lbs.

57C8521—Each comes in a neat box. Price, complete.....\$1.98

Typewriter Copying Ink, for Practical Typewriters Only

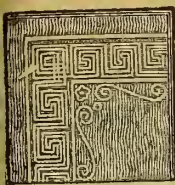
57C8524—Black. 57C8525—Purple. Put up in small metal tubes. Ship. wt., each, 2 oz. Price, each.....25c



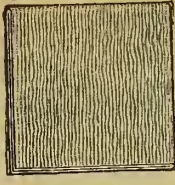
This is Like Letter Written on Practical No. 3

Paper Necessities for Home and Outings

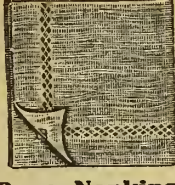
Paper Napkins with Fancy and Plain Border



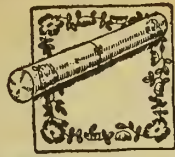
Paper Napkins
Grecian Border, extra fine, white crepe, paper napkins, dust proof envelopes. Size, 14 in. Ship. wt., for 9 oz. **42c**
57C6665—Per envelope **23c**
57C6668—Per envelope **23c**



Paper Napkins
57C6662—A American White Creped Tissue Paper Napkin. Plain white; plain edge. 14 in. square. Ship. wt., per 100, 12 oz. **\$0.26**
Per 1,000..... **2.30**



Paper Napkins
57C6671—A high grade of white crepe paper napkins, with a very pretty border of violets. Put up 100 in dust-proof envelopes. Price, per 100..... **53c**



Fancy Border Paper Napkins
57C6711—A American Tissue Paper Napkins, abt. 14 in. sq. Fancy border designs in assorted colors, two designs in a pkg. Ship. wt., per 100, 10 oz. We do not sell less than 100. **\$0.21**
Per 1,000..... **1.67**



Paper Napkins
Printed in gold and colors. Fine crepe. 100 in a sanitary envelope. 57C6674—Per envelope of 100. Ship. wt., 1 lb. Price..... **53c**
57C6675—Per Envelope of 50. Ship. wt., 9 oz. Price..... **35c**



Irish Lace Design Paper Doilies
57C6659—Size, 4x4 in. Ship. wt., 6 oz. Per pkg. of 24..... **27c**



Blue Bird Crepe Paper Napkins
57C6673—A fine quality of Crepe paper with blue bird design and gold border. 50 Napkins in envelope. Ship. wt., 9 oz. Price..... **35c**

Crepe Paper Streamers for Decorating
57C6579—Crepe paper ribbons, 2 1/2 in. wide, 50 ft. long, for decorating halls, arches, stores, homes, etc. Can furnish following colors:
Red, White, Blue, combined. Green Yellow
Blue Black
White Pink
State color wanted when ordering. Ship. wt., per roll, 4 oz. Price, per roll..... **15c**

Crepe Tissue Paper in Rolls
57C6578—In rolls, width, 20 in., and length, 10 ft. State color wanted. Ship. wt., per roll, 6 oz.
Virginia White, Turquoise Blue, Royal Blue, Violet, Purple, Dark Green, Apple Green, Nile Green, Leaf Green, Moss Green, Geranium, American Beauty, Canary, Yellow, Gold, Mandarin, Orange, Ruby, Black, Rose Pink.
Extra Fine White Tissue Paper
57C6585—White, Size, 20x30 in. Ship. wt., per quire, 8 oz. Price, per quire of 24 sheets..... **16c**

Paper Towel Fixture
57C6624—Strongly made all metal nickel-plated bracket. For any roll paper towels. Ship. wt., 4 oz. Price..... **97c**

Cooking Recipe Book Loose Leaf
57C6708—Substantially made with washable oil cloth covers, title stamped in gold. Contains a linen tabbed index of subjects, ruled sheets for copying of recipes and an envelope for temporary filing. Neatly bound. Size, 5 1/2 x 8 1/2 in. Ship. wt., 1 lb. Price..... **\$2.90**

Toilet Paper Fixture
57C6574—Strongly made nickel-plated, wood roll. For any roll toilet papers. Ship. wt., 6 oz. Price..... **12c**

Household or Store Twine
57C6764—Ball of three-ply white cotton twine for store or household use. Wt. per ball, 1/2 lb. Ship. wt., 4 oz. Price, per ball..... **24c**
Three for..... **65c**

Shipping Tags
Manila Shipping Tags, "K" or cheap quality where special strength is not required. For ordinary uses, 1,000 of one size in box. We do not break or assort boxes.
57C6753—Size, 4 1/2 x 1 1/2 in. Ship. wt., 3 1/2 lbs. Box **\$2.37**
57C6762—Size, 4 1/2 x 2 1/2 in. Ship. wt., 4 1/2 lbs. Per box..... **\$2.57**

Incense Burners
For the home. Made of aromatic substance. When lighted emits a delightful aroma. Very pleasant when the house is full of cooking odors.
Buddha Incense Burner
57C6738—Complete with one package of incense sticks. 4 1/2 inches high. Ship. wt., complete, 10 oz. Price..... **49c**
57C6739—Incense Sticks. Four bundles, each bundle containing 75 sticks. Ship. wt., 3 oz. Price..... **25c**

Special 24 Rolls Value For \$1.32



57C6546—Perforated roll contains 4 oz. of Manila crepe finish paper. Free from injurious chemicals. Ship. wt., 7 lbs. Price, 24 rolls..... **\$1.32**

Madison Toilet Paper
57C6537—Madison 5 oz. Perforated Roll Toilet Paper, extra quality Manila, crepe finish. Width, 4 1/2 in. Ship. wt., per 1/2 doz. rolls, 3 3/4 lbs. Price..... **26c**
Dozen rolls..... **97c**
57C6540—Per case (100 rolls). Ship. wt., 40 lbs. Price..... **\$6.89**

Extra Fine Manila Tissue 2000 Sheet Roll
57C6568—This roll contains 2,000 sheets guaranteed full count, of the finest grade antiseptic manila tissue. Each sheet, size, 4 1/2 x 4 1/2 in. Ship. wt., each 24 oz. Price, per roll..... **28c**

Antiseptic White Crepe Toilet Paper
57C6543—White Crepe Tissue Paper. 7 oz. roll. Free from injurious chemicals and will not irritate the skin. Ship. wt., per roll, 9 oz. Ship. wt. per 1/2 doz., 3 3/4 lbs. Price, 3 rolls for..... **37c**
6 rolls for..... **69c**
57C6545—Per case of 100 rolls. Ship. wt., 60 lbs. Price..... **\$9.72**

Extra Fine White Crepe Tissue
57C6550—The Glen Echo Toilet Paper is made from pure sulphite fibre under strict sanitary conditions and has a very soft finish. 6 1/2-oz. roll. Ship. wt., per 1/2 doz. rolls, 3 3/4 lbs. Price, 3 rolls for..... **45c**
6 rolls for..... **83c**

Superfine Toilet Paper 1000 Sheet Roll
57C6554—Superfine Perforated Roll Toilet Paper. First quality Manila tissue; 1,000 sheets to the roll. Ship. wt., per 1/2 doz., 4 1/2 lbs. Price, 3 rolls for..... **57c**
6 rolls for..... **97c**
57C6557—Per case (100 rolls). Ship. wt., 75 lbs. Per case. **\$13.98**

6000 Sheets of White Tissue Toilet Paper
57C6570—Six rolls of fine, perforated extra quality and free from injurious chemicals. Each roll contains 1,000 sq. sheets full count. Ship. wt., 4 lbs. Price, 6 rolls for..... **97c**

High Grade Shell Papers
A high grade of white decorated paper, pleasing designs and with lace border. 5 yds. to each piece. Ship. wt., 11 oz.
57C6608—Pink Rose design. 3 pieces or 15 yds. Price..... **23c**
57C6609—Blue Bird design. 3 pieces or 15 yds. Price..... **23c**
57C6611—Holland Scene. 3 pieces of 15 yds. Price..... **23c**

Heavy Lace Shelf Paper
High-grade, smooth, heavy book paper, plinked and embossed. In pieces, width, 10 in., length, 10 yds. or 360 ft. 57C6629—White. Ship. wt., per box, 3 1/4 lbs. Price..... **73c**

Sanitary Shelf and Lining Paper
57C6647—Used for lining shelves and drawers. Rolls of thirty lineal feet, 13 in. wide. Ship. wt., 2 1/2 lbs. Price, per roll..... **14c**

Parchment Paper in Sheets
57C6656—This pkg. contains 250 sheets, cut to size, 8 1/2 x 11 in. It is made of pure vegetable stock. Especially adapted for wrapping butter, hard cheese, meats, fish, etc. Ship. wt., 23 oz. Price, per pkg..... **78c**

Best Quality White Wax Paper
57C6654—Housekeepers will find this paper indispensable for wrapping up lunches, cheese, butter, lining pans, etc. 15 sheets, 12 x 15 in. in a roll. Ship. wt., per roll, 5 oz. Price, 4 rolls for..... **22c**

Paper Drinking Cups
25 For **20c**
57C6623—Sanitary paper drinking cup, odorless, just the thing for picnics, auto parties, etc. Put up 25 in pkg. Ship. wt., 8 oz. Price, per pkg..... **20c**

Dainty Ice Cream Plates
25 for **12c**
57C6715—For parties and picnics. Saves time and labor. Contains 25 paper pulp corrugated Ice Cream plates. 4 1/2 in. in diam. Ship. wt., per pkg., 6 oz. Price, per pkg..... **12c**

Fibre Teaspoons
57C6717—The same size as an ordinary teaspoon (1/2 in.). Very strong and can be used for serving ice cream and all hot dishes. Popular for picnics, auto trips, luncheons, church festivals, sick rooms and for general household use. Shipping weight, 5 oz. Price, per pkg. of 25 spoons..... **21c**

The best of the kitchen helps are listed on our kitchenware pages.

Practical Devices for Amusement and Instruction

Stereoscopes



Price per Set, **\$2.15**
75 War Pictures and a Stereoscope

See the World War Through the Stereoscope

Authentic scenes made during the war and shown in a way that scientifically reproduces the actual scene just as the soldier in action saw it. When you have seen the places mentioned through the stereoscope, you will find that you have a real picture in your mind that will not be easily forgotten. The stereoscope is made of polished wood with aluminum engraved hood with edges bound in plush and patented dark chamber. Lenses are large size. Shipping weight, 2 1/2 lbs.

57C9012—Price, per set..... **\$2.15**

Stereoscopes and Views That Furnish Entertainment and Education



Our Prize Beauty Aluminum Hood Dark Chamber Stereoscopes

57C9010—Polished wood with aluminum engraved hood with edges bound in plush and patented dark chamber. Lenses large size, prism magnifier, mounted in patent aluminum lens lock mounting, insuring perfect centering and best possible results. Patent folding band. Ship. wt., 18 oz. Price, each..... **\$1.35**

57C9014—Our popular Special Stereoscope has hood of aluminum, edges bound in plush. Lenses are good size, held in position by wooden mounts, frame finely finished walnut, stained hardwood, and with folding handle. Ship. wt., 1 lb. Price, each..... **\$1.10**

Stereoscopic Views

25 Views to Each Set



42c per Set

From original negative printed in rich colors. Ship. wt., per set, 10 oz.

- 57C9020—Life of Christ, illustrated set of 25 views. Per set..... **42c**
- 57C9026—China, Japan and the Orient. 25 views. Set..... **42c**
- 57C9029—Through England and France. 25 views. Set..... **42c**
- 57C9032—Niagara Falls and Watkins Glen. 25 views. Per set..... **42c**
- 57C9033—A Trip Across the Panama Canal. 25 views. Per set..... **42c**
- 57C9041—America. Illustrated. A tour of the big cities. 25 views. Per set..... **42c**
- 57C9044—The French Cook and Comic Lover Series. 25 views. Per set..... **42c**
- 57C9047—Boys Will Be Boys. A comic Series. Set..... **42c**
- 57C9023—Tour of Palestine and the Holy Land, including scenes from the Bible in sets of 25 views. Set..... **42c**
- 57C9049—Bells. A humorous series of a young man in search of a wife..... **42c**
- 57C9016—Allies' War Views. 25 views. Per set..... **42c**
- 57C9018—Italian War Views. 25 views. Per set..... **42c**
- 57C9021—Canada and the Great Northwest. 25 views. Per set..... **42c**
- 57C9024—Girls Will Be Girls. Pretty Girls in Comic Situations. 25 views..... **42c**
- 57C9027—The Great Northwest and Visit to Yellowstone. 25 views..... **42c**
- 57C9030—A Trip to the Philippines with Uncle Sam's Soldier boys. 25 views..... **42c**
- 57C9031—Uncle Sam's Big New Battleships. 25 views. Per set..... **42c**

Stereoscopic War Views

Actual Scenes of the World's Greatest War

57C9051—A set of 25 wonderful views made from the photographs taken by the Government's Own Photographers. These views show the destruction of towns, bridges and also views of the battlefield and our American soldiers in action. Ship. wt., 10 oz. Price..... **42c**

With Our Soldier Boys in France

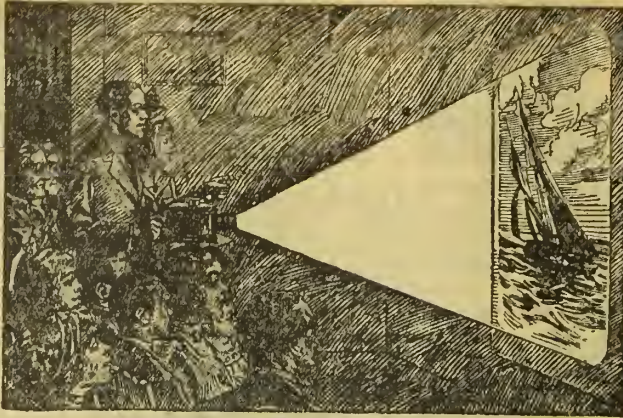
57C9048—25 thrilling views of our boys in France. Price..... **42c**

For Home and Country

57C9046—25 views covering a soldier's experiences from the time he enlisted till his return home from France. Ship. wt., 10 oz. Price per package..... **42c**

57C8905—Oblong album. Bound in leatherette. Rich canvas grained. White title. Holds 192 cards, 3 on a page. Size, 11 1/2 x 9 in. Ship. wt., 1 1/2 lbs. Price..... **87c**

Reproduces Pictures in their Natural Colors



Postcard Projectors

Any illustration or flat object (up to 5x9 1/2 inches, depending on size of machine) may be thrown on the screen, enlarged and in all its own colors; not limited to post cards. Any photograph or picture you have, any illustration you have from paper, magazine or catalog, cartoons, home drawn animals, such objects as butterflies, leaves, pressed flowers—in short, almost anything—may be shown. No glass slides necessary.

Owing to the fact that all type matter reproduces on the screen in reverse form, we suggest you write to us for full particulars regarding reversing mirror or special screen to overcome this.

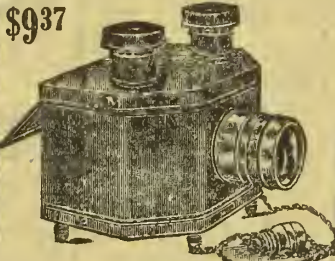
All electric post card projectors, are fitted with lamps, for 104 to 112 volt circuits, either alternating or direct current.

Our Prices Show Distinct Savings

Is as popular as the Talking Machine for home, parlor and auditorium amusement. There are no views to buy nor attachments to wear out. You furnish the pictures to be enlarged from your collection of post cards, photographs, or from books, papers, etc.

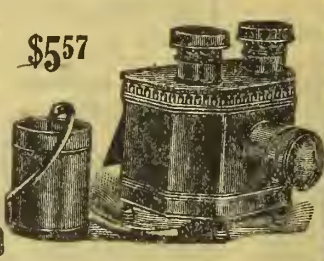
57C8850—Note: Calcium carbide for use with the acetylene machine in 2-pound can. Shipping weight, 2 1/2 pounds. Per can..... **35c**

Model D



\$937

Model C



\$557

The Modern Magic Lantern

This illustrates No. 57C8826
Size: Length, 10 in.; Width, 9 1/2 in. Height, 10 1/2 in. Shipping weight, 6 1/2 pounds.

Shows images on screen 3 feet long, from 5 1/2-inch post cards. Has 3-inch double plano-convex lenses in removable mounts and polished parabolic reflectors with two sliding picture holders, permitting quick change of pictures without opening the lantern.

157C8826—Model D Electric Projector. Powerful incandescent lamps. Price, complete, including conducting cord and plug..... **\$9.37**

157C8830—Model D Acetylene Projector. Fitted with two high power acetylene burners. Complete, excepting carbide. (See 57C8850.) Price..... **\$9.37**

This Illustrates No. 57C8814

Size: Length, 9 in.; Width, 6 in. Height, 8 in.; Shipping Weight, 4 lbs.

Equipped with carefully ground and polished lens, diameter, 3 in. Thoroughly ventilated to keep machines cool.

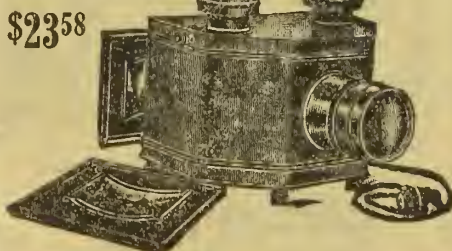
Decidedly an improvement over the common tin box type of low priced post card projectors.

Shows images on screen 2 to 3 ft. long, from 5 1/2-inch post cards.

57C8810—1920 Model Electric Projector. Fitted with electric cord incandescent lamps. Price, complete..... **\$5.57**

57C8812—1920 Model Acetylene Projector. Fitted with two powerful acetylene burners, including an acetylene generator. Price does not include carbide. (See 57C8850.) Price..... **\$5.57**

Our Special



\$2358

This Illustrates No. 57C8834

Pictures up to 5x7 in. may be inserted and held in perfect focus in the self-centering, adjustable holder. Particularly desirable for photographs. Is adaptable for various kinds of pictures. Its large lenses and great illumination, yield brilliant screen images. Has two patented adjustable picture holders, fitted into a double sliding carrier. Has 4-inch double plano-convex lenses in removable mounts, with Rack and Pinion for focusing. Yields on a 5 to 6-foot screen, images from a 5 1/2-inch post card at 12 to 14 feet from screen.

157C8834—Special Electric Projector. Two powerful incandescent lamps, 10 feet of electric cord. Complete. Price..... **\$23.58**

157C8838—Special Acetylene Projector. Two high candle power acetylene burners. Price does not include carbide. (See 57C8850.) Price..... **\$23.58**

The Senior Post Card Projector



\$1357

This Illustrates No. 57C8822

Enlarge any Photograph Picture or any Small, Flat Object

The image on the screen is larger, brighter and sharper. Thoroughly satisfactory instrument for adults where post cards only are to be shown. Shows image 4 feet long, from 5 1/2-inch post cards. Has 3 1/2-inch double plano-convex lenses in removable mounts and large polished parabolic reflectors, two sliding picture holders, permitting quick change of pictures, without opening lantern.

157C8818—Senior Electric Projector. Fitted with two high candle power electric lamps. Eight feet of electric cord. Complete, ready to operate. Price..... **\$13.57**

157C8822—Senior Acetylene Projector. Fitted with two acetylene burners. High candle power. Complete ready to operate, excepting carbide. (See 57C8850.) Price..... **\$13.57**

Two Good Values in Albums



57C8908—Oblong Album same style as 57C8905. Black silk embossed cloth binding. Title in white leaf. Holds 192 cards, 3 on a page. Size, 11 1/2 x 9 in. Ship. wt., 2 1/2 lbs. Price..... **98c**

57C8911—Oblong Album same binding as 57C8908. Holds 300 cards. Ship. wt., 2 1/2 lbs. Price..... **\$1.27**

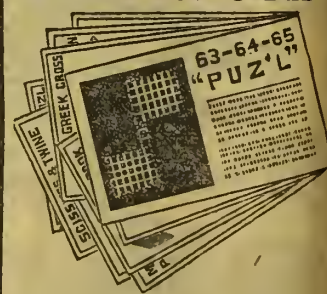
57C8914—Oblong Album bound in imitation leather. Has padded back and front cover. Title in gold. Holds 500 cards, 3 to a page. Size, 11 1/2 x 9 in. Ship. wt., 3 lbs. Price..... **\$2.58**

Mammoth Album

57C8924—Size, 10x13 1/2 in. Bound in Morocco grain imitation leather. Fitted covers. Title in gold. Holds 500 cards, 4 on a page. Ship. wt., 3 1/2 lbs. Price..... **\$4.48**



Puzzle Post Cards



Sixteen Different Puzzles to the Set

57C8935—These delightful puzzles are not only intensely interesting for children but will also be enjoyed by the "grown-ups". One card can be cut into four pieces. These pieces, fitted together, will give 63, 64 or 65 perfect squares. These puzzles are becoming very popular at parties. There are movie puzzles, loop puzzles, optical and solitaire puzzles, numerical and geometrical puzzles. Educational and instructive, as well as entertaining. Shipping weight, 3 ounces. Price, per package of 16 cards..... **21c**

Autograph Albums



57C8920—Eighty pages of high-grade cloth finish writing paper. Size, 3 1/2 x 6 inches. Bound in black cloth. Shipping weight, 5 oz. Price..... **78c**

Post Cards



Actual War Scenes on Post Cards

57C8956—Set of 25 Post Cards showing actual battlefields of Belgium and France. These cards are made from photographs taken by the government's own photographers. Ship. wt., 9 oz. Price, per set..... **42c**

Ford Auto Joke Post Cards

57C8977—Illustrating many amusing situations, printed in colors. 10 cards in package. Ship. wt., 3 oz. Price, per package..... **15c**

Stork Post Cards

57C8957—Clever and novel way to announce the birth of baby. Latest designs, very attractive. Ship. wt., 5 oz. 12 cards in package..... **15c**

Birthday Post Cards

57C8980—Printed on art linen heavy stock, artistic designs and borders in colors and gold. Six cards to package. Ship. wt., 2 oz. Price, per package..... **24c**

Post Cards of National Views

57C8930—A Trip Around Chicago in 20 artistically colored post cards. Ship. wt., 7 oz. Price, per package of 20 cards..... **18c**

57C8939—Seeing Niagara Falls. Artistic series brightly colored. Ship. wt., 7 oz. Price, per package of 15 cards..... **25c**

57C8948—California. 15 post cards artistically colored. Ship. wt., 7 oz. Price, per package..... **25c**

57C8933—Rocky Mountains. 18 colored post cards. Ship. wt., 7 oz. 18 in package. Price..... **29c**

57C8945—Yellowstone Park. A splendid set of 10 cards, all different. Ship. wt., 7 oz. Price..... **29c**

Lovers' Post Cards

57C8926—High-grade. Illustrated in colors and are representations of many love scenes. 20 cards in package. Ship. wt., 7 oz. Price, per package..... **19c**

Burnt Wood Post Card Box

57C9060—Fine Box. Size, 12x4x6 in. Decorated in colors. Two compartments. Holds about 400 post cards. Made of white basswood. Ship. wt., 13 oz. Price..... **67c**

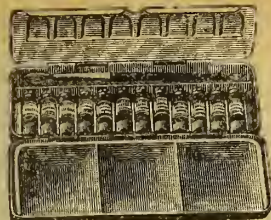


Artists'

Students' Water Color Box

\$2.98

57C9489—
Price, \$2.98
Shipping weight,
15 oz.
Put up in a
neat japanned
metal box. Con-
tains two camel's hair brushes and twelve tubes of assorted
colors, as follows: Light Red, Pale Chrome Yellow, Neutral
Tint, Vandyke Brown, Payne's Gray, Prussian Blue, Gam-
boge Tint, Olive Gray, Emerald Green, Cobalt Blue, Chi-
nese White and Burnt Sienna. Size of box closed, 4x7 1/2 in.



Ruxton's Amateur Oil Colors

57C9440—
Each \$1.67
Ship. wt., 12 oz.

An outfit of 12 single tubes Oil Colors, as follows: White, Red, Black, Chrome Green, Raw Umber, Chrome Yellow, Orange, Olive Green, Purple Lake, Rose Madder, Vandyke Brown, Blue, bottle of refined linseed oil and three bristle brushes. Colors finely ground, put up in a neat, cardboard box. All instructions for mixing paints.

Brushes. Colors finely ground, put up in a neat, cardboard box. All instructions for mixing paints.

Pocket Water Color Box

57C9479—
Each \$1.59
Shipping weight, 13 oz.

Contains 12 special pans and 2 tubes of moist water colors; also two camel's hair brushes. Colors: Vandyke Brown, Burnt Sienna, Emerald Green, Ivory Black, Prussian Blue, Ultramarine, Yellow Ochre, Lemon Yellow, tube Chinese White, tube Sepia. Put up in a japanned metal box with flap cover arranged as palette. Size, 6 1/2 x 3 1/4 inches.

Light Red, Gamboge, Crimson Lake, Vermilion, Yellow Ochre, Lemon Yellow, tube Chinese White, tube Sepia. Put up in a japanned metal box with flap cover arranged as palette. Size, 6 1/2 x 3 1/4 inches.

Artistic Stencils

For making artistic decorations on portieres, curtains, pillow tops, center pieces, etc., without any knowledge of painting or designing.



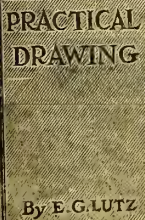
57C9406—
Outfit \$2.98

Stenciling outfit of large size, containing 12 tubes Oil Color, size 1/4 x 4 in., including one tube Gold and one tube Silver stencil ink; 8 large stencils, size 5 1/4 x 4 1/4 in.; 12 brass thumb tacks; 3 stencil brushes. Bottle indelible medium. Directions for stenciling, etc. Shipping weight, 26 ounces.

Gold and one tube Silver stencil ink; 8 large stencils, size 5 1/4 x 4 1/4 in.; 12 brass thumb tacks; 3 stencil brushes. Bottle indelible medium. Directions for stenciling, etc. Shipping weight, 26 ounces.

A Book for the Student

57C2032—A direct treatment of drawing that is entirely free from technical language, and will be found of infinite use to the student and the teacher. Contains useful hints for the reader, and has explanatory illustrations. 250 pages. Bound in hoard covers. Size, 5 1/2 x 7 1/2 in. Shipping weight, 22 oz. Price, \$1.67



Extra Soft French Pastel Crayons

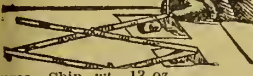
Box containing 30 crayons, assorted colors. Ship. wt., 11 oz. Price, \$1.83

Pastelo Water Color Crayons

57C9461—May be used wet or dry. 24 assorted colors. Packed in a hinged pasteboard box. Ship. wt., 1/2 lb. Price, 47c

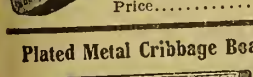
The Improved Pantograph

57C9426—Improved Pantograph higher grade, mounted movable point and elbow joint, pencil holder, divisions in figures. Ship. wt., 13 oz. Price, \$1.78



The Van Dyke Artists' Eraser

57C9567—A soft, pliable, highly efficient rubber in red color. Size, 1 1/2 x 1 1/2 in. Shipping weight, 3 oz. Price, 10c



Plated Metal Cribbage Boards

57C8632—Le Count's or Favorite Cribbage Board. Size, 3x10 1/4 in. Ship. wt., 29 oz. Price, without cards, \$1.69



Hoyle's Card Games

57C1590—Paper cover. Size, 4 1/2 x 7 1/2 in. 255 pages. Ship. wt., 9 oz. Official rules and instructions for more than 296 games. Latest edition. Price, 32c



Blue Ribbon Playing Cards—Linen Finish

57C8630—High-grade, linen finish cards, unexcelled in slip, finish and durability. These cards have the highly finished backs with the fancy design. Ship. wt., 8 oz. Price, 52c



Ornamental Design Card

57C8612—A good grade of enamel cards, highly finished fancy backs of assorted designs. Ship. wt., 7 oz. Per pack, 43c



The American Girl Card—Gilt Edge

57C8636—Extra quality double enameled cards. Unexcelled in slip, finish, and durability. Ship. wt., 7 oz. Per pack, 62c



Picture Back Playing Cards

57C8640—Plain edges. Enameled linen finish, assorted designs. Ship. wt., 6 oz. Per pack, 53c

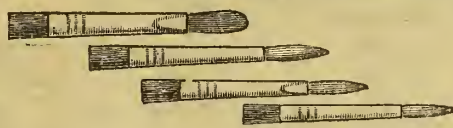


For the Amateur



For the Professional

Artists' Brushes



14c to 47c

In considering the purchase of artists' brushes, please bear in mind that there are several different grades. The ones we handle are well made from the best materials and are thoroughly reliable. Shipping weight, each, 3 ounces.

Superior Bristle Artists' Brushes
Round and flat. No. 1 to 12 series. Length of hair is graduated from about 3/8 inch in No. 1 to 1 inch in No. 12.

Flat	Round	Size	Price Each
57C9572	57C9573	1	14c
57C9574	57C9575	2	15c
57C9576	57C9577	4	16c
57C9578	57C9579	6	18c
57C9580	57C9581	7	20c
57C9582	57C9583	8	23c
57C9584	57C9585	10	24c
57C9586	57C9587	12	26c

Red Sable Brushes (For Oil Colors)
Round and flat polished handles. Length of hair is graduated from about 1/2 inch in No. 1 to 3/4 inch in No. 12.

Flat	Round	Size	Price Each
57C9588	57C9589	1	17c
57C9590	57C9591	2	18c
57C9592	57C9593	3	20c
57C9594	57C9595	5	22c
57C9596	57C9597	7	24c
57C9598	57C9599	8	26c
57C9600	57C9601	10	38c
57C9602	57C9603	12	47c

Tube Oil Colors

Very best American manufacture, put up in single and double tubes. Shipping weight of tubes, as follows: Single, 2 oz.; double, 4 oz. Winsor & Newton's, 3 oz. Tubes of oil colors vary in size as some colors are more expensive than others. For instance, a double tube of Purple Lake is only half the size of Chrome Green, etc.

Common Colors
Am. Vermilion. American manufacture only.
Antwerp Blue King's Yellow
Blumen Mauve
Brilliant Yellow Meglip
Brown Pink Naples Yellow
Brown Ochre Light
Burnt Sienna Naples Yellow
Burnt Umber Deep
Cinnabar Green Lamp Black
Deep Light Red
Cremnitz White Neutral Tint
Crimson Lake New Blue
Emerald Green Cinnabar Green
Flake White Light



Special Oil Colors

Brown Madder
Cerulean Blue
Chinese Vermilion
Geranium Lake
French Vermilion
English Vermilion
Sepia
57C9468—American manufacture, single tubes, in the above colors. Each, 22c



Extra Special Oil Colors

Carmine No. 2 Madder Lake
Cobalt Blue Rose Madder
Ultramarine Lemon Yellow
Indian Yellow
Viridian
Lemon Yellow, Pale
57C9470—American manufacture, single tubes, in the above colors. Each, 37c

Quadruple Tubes
Cremnitz White, Flake White, Silver White, 27c
57C9475—American manufacture. Price, each, 63c

Students' Permanent Moist Water Colors

In Screw Top collapsible Tubes. Size, 1/2 x 3 inches. The Students' Moist Water Colors are prepared by a reliable manufacturer, from the very best pigments. They are in every sense our low price we can recommend them not only to students but to artists as well. We can supply the following staple colors: (Wt. 1 ounce). Shipping weight, 3 oz. Chinese White Orange
Rose Madder
Sepia
New Blue
Prussian Blue
Burnt Umber
Chrome Yellow
Payne's Gray
Gamboge
Burnt Sienna
Hooker's Green No. 1
Hooker's Green
Cobalt Blue
Raw Umber
Raw Sienna
Crimson Lake
Rose Cautan
Chrome Yellow
Students' Permanent Water Colors, as named above
Each Tube, 15c
12 tubes, assorted colors, for 27c



Oils and Varnishes

2-ounce Bottles.
Ship. wt., each, 8 ounces.
57C9410—Linseed Oil, purified. 27c
Per bottle, 59c
57C9416—Genuine Mastic Varnish. Per bottle, 59c
57C9417—Genuine Picture Copal Varnish. Per bottle, 39c

For the Card Player

Poker Chip Racks
\$1.68

Made of wood, Mahogany finish. Spaces to hold cards and chips.
57C8643—Has spaces for 100 chips and space for one deck of playing cards. Size, 3x4x3 inches. Shipping weight, 1 lb. Price, \$1.68
57C8645—Same as above but larger. Has space for 200 chips and two decks playing cards. Ship. wt., 2 lbs. Price, \$3.20

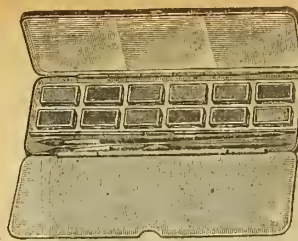


Poker Chips
\$2.75
Per Hundred

57C8652—Poker Chips. Engraved Flush Hand design on composition ivory. 100 in box. 50 White, 25 Red, 25 Blue. Ship. wt., per box, \$2.75
27 oz. Per box of 100, \$2.75
57C8654—Plain Poker Chips. Ivory finish. 100 in box. 50 White, 25 Red, 25 Blue. Ship. wt., 29 oz. Per box of 100, \$1.60



Materials



\$1.10

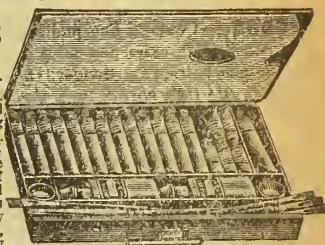
Students' Water Color Outfit

57C9481—Pocket Box, containing 12 special size pans moist water colors, viz.: Burnt Sienna, Crimson Lake, Light Red, Vermilion, Yellow Ochre, Gamboge, Vandyke Brown, Cobalt Blue, Ivory Black, Emerald Green, Prussian Blue, White, and two brushes. Strong japanned tin box. Size, 6x3 in. Ship. wt., 10 oz. Price, \$1.10

Large Oil Outfit

57C9404—
Price \$7.98
Ship. weight, 4 1/2 pounds

For students or professionals. Large japanned metal carrying case, with handle. Size, 1 1/2 x 7 1/2 x 10 1/2 in. Contains one extra large tube of Flake White and thirteen large tubes as follows: Yellow Ochre, Light Red, Burnt Sienna, Rose Madder, Terre Verte, Ivory Black, Middle Chrome Yellow, Prussian Blue, Naples Yellow, Indian Red, Pale Chrome Yellow, Emerald Green. Five medium tubes, containing Ultramarine, Crimson Lake, Mid. Vermilion Tint, Brown Madder and Cobalt Blue Tint. Also includes mahogany palette, bottle of linseed oil and turpentine. Nos. 2, 3, 4 and 6 brushes and steel palette knife. A strictly high-class outfit.



Student's Oil Color Outfit

57C9403 \$4.98
Price \$4.98
Ship. wt., 3 1/4 lbs.

Containing twelve tubes of selected oil colors that form the most useful palette. Mahogany palette, one bottle each linseed oil and turpentine, and four good quality bristle brushes. All packed in neat polished wood carrying case. Size of case, closed, 1 1/2 x 6 1/2 x 12 inches.



Drawing Paper

Drawing Paper in Sheets

For Water Color Painting and Drawing. Imported Hand Made Medium surface, select quality
57C9511—Demy, 15x20 inches. Shipping weight, per quire, 23 oz. Price, \$1.85

Imported Drawing Paper

57C9515—Drawing Paper especially adapted for colleges and schools. Size, 14x17 inches. Shipping weight, 10 47c
57C9516—15x20 inches. Ship. wt., 22 oz. Per quire, 75c
57C9517—Medium, 17x22 inches. Ship. wt., 28 oz. Per quire, 98c

Drawing Paper in Rolls

We do not cut rolls.
White Detail Paper, cold pressed is expressly made for draughting purposes, of selected stock. It stands erasing to fair extent, and will take India ink and pencil well. Ship. wt., 5 yard roll, 17 oz.
57C9521—Width, 36 in. Per roll of 5 yds., medium, 90c
Cream Drawing Paper
The finest paper in the market for preliminary and general drawing and sketching. Will stand erasing perfectly; will take ink, pencil and water color well.
57C9525—Width, 30 inches. \$1.05
Per 5 yard roll. Ship. wt., 23 oz.
57C9529—Width, 30 inches. Per 10 yard roll. Ship. wt., 46 oz. Price, \$1.98

Artists' Prepared Canvas

Finely Prepared—Smooth
57C9430—47 inches wide. \$2.98
Per yard
157C9431—47 inches wide. Per roll of 6 yards. Light weight. Smooth Sketching Canvas. \$1.70
57C9432—40 inches wide. Per yard, 1.78
157C9439—40 inches wide. Per roll of 6 yards, 9.37
Ship. wt., per yard, about 21 oz.

Academy Boards

Smooth	Rough	Size	Ship. Wt. Oz.	Price Each
57C9608	57C9609	9x12	10	18c
57C9610	57C9611	12x18	18	32c
57C9612	57C9613	18x24	34	65c

Water Color Sketch Blocks

Arnold's Water Color Blocks. Put up in convenient block form, containing 12 sheets of high quality pre-arranged paper.
57C9504—9x12 in. Ship. wt., 13 oz. Price, \$0.98
Per pad
57C9505—10x14 in. Ship. wt., 16 oz. Per pad, 1.17

Sketch Blocks

Sketch Blocks for pencil and pen work.
57C9509—Size, 9x12 inches. 28 sheets. Ship. wt., 8 oz. Price, 59c
57C9510—Size, 10x14 in. 28 sheets. Ship. wt., 10 oz. Price, 79c

Pinochle Cards



57C8638—Contains double deck of 48 cards with nine spots low. The cards are of superior quality highly enameled finish and with margin backs. Ship. wt., 7 oz. Price, 52c

Dice and Bunco and Other Games

57C8650—Imitation Ivory Dice with black spots. These are the popular 3/4-inch size. Ship. wt., per set, 2 oz. Price, per set of 3 dice, 29c

Playing Card Case
57C8660—Bookshaped playing card case of black seal grain leather. Nicely finished, button tab to hold cards in place, and one deck gold edge playing cards. Ship. wt., 6 oz. Price, \$1.53

Playing Cards

Ornamental Design Card

57C8612—A good grade of enamel cards, highly finished fancy backs of assorted designs. Ship. wt., 7 oz. Per pack, 43c



The American Girl Card—Gilt Edge

57C8636—Extra quality double enameled cards. Unexcelled in slip, finish, and durability. Ship. wt., 7 oz. Per pack, 62c



Picture Back Playing Cards

57C8640—Plain edges. Enameled linen finish, assorted designs. Ship. wt., 6 oz. Per pack, 53c



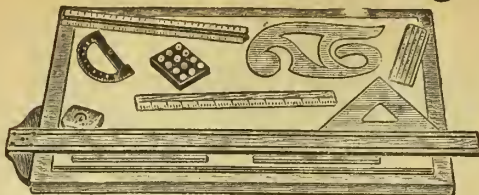
Mechanical Drawing Sets and Supplies



Superior Outfit

57C9920—Contains fine quality 6-inch compass with pencil joint, extra pen point and lengthening bar. 6-inch hairspring divider. 3½-inch spring bow pen, 3¼-inch spring bow divider. 3½-inch spring bow pencil. 4¼-inch and 5½-inch ruling pens with ebony handles and box of leads. Imitation leather pocketbook case, plush lined. Button catch. Size closed, 8½x4 in. Ship. wt., 14 oz. Price.....**\$8.98**

Our School Drawing Outfit



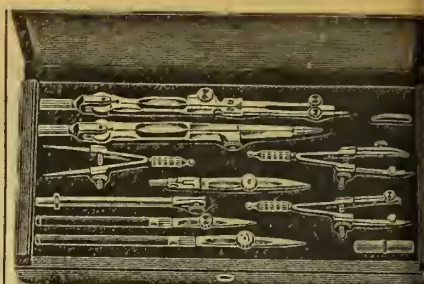
Complete Outfit
\$8.50

157C9314

For the study of mechanical drawing, etc., in high schools or manual training courses, we have prepared a special outfit, which contains everything necessary, except the drawing instruments; all are of excellent quality. The outfit consists of one drawing board, size 15x20 in.; 18 in. T-square; two wood triangles, 45 degree and 30x60 degree triangular wood scale, 4 in. brass protractor; 2 Van Dyke lead pencils, bottle waterproof drawing ink; one dozen thumb tacks; rubber eraser; plotting scale; flat 12-in. rule; irregular curve; six sheets drawing paper. Put up in heavy paper box.
157C9312—Complete as described. Ship. wt., 8 lbs. Price.....**\$5.98**

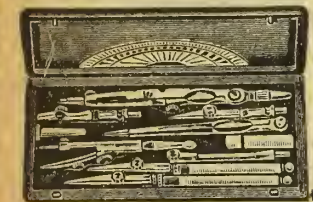
Complete Draughting Outfit

A larger and more complete outfit, suitable for the student or practical draughtsman, which includes articles of better quality. The outfit contains:
Drawing board, 20x24 in. with hardwood ledges to prevent warping; 24-in. T-square; two 6-in. transparent celluloid triangles, 45 and 30x60 degrees; 12-in. triangular boxwood scale; large transparent irregular curve; bottle of waterproof drawing ink; two Van Dyke drawing pencils; multiplex eraser; 12 German silver thumb tacks; 12-in. boxwood rule; 4½-in. protractor; 24 sheets best drawing paper, 19x24 in.
157C9314—Complete as described. Ship. wt., 11 lbs. Price.....**\$8.50**



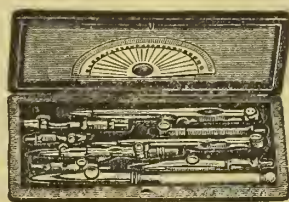
Our Premier Outfit

Our highest grade instruments, in pocket case with velvet lining. Contains one 6-in. compass with pencil point, pen point and lengthening bar, 6 in. hair spring divider, 3¼-in. spring bow divider, 3¼-in. spring bow pen, 3¼-in. spring bow pencil, 4¼-in. and 5½-in. ruling pens with ebony handle and box of leads. Size closed, 8½x4 in. Ship. wt. 14 oz.
57C9922—Leather case. Price.....**\$14.98**
57C9923—Imitation Leather Case. Price.....**13.48**



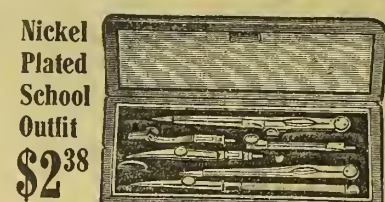
High School Outfit
\$4.98

57C9901—Contains 5¼-inch compass, attached needle point with pencil and pen points and lengthening bar; 4¼-inch plain divider, 3¼-inch spring bow pen. 5-inch ruling pen, bone handle, 5½-inch bone handle, ruling pen, transparent bone protractor. Plush lined case with bar lock, including bone pencil box with metal lead holder to use with compass and key for tightening joints. Ship. wt., 10 oz. Price.....**\$4.98**



Nickeled School Outfit
\$3.85

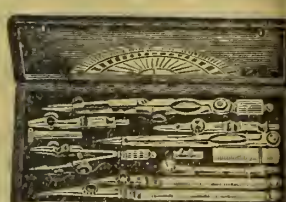
57C9908—Contains one 5¼-in. ruling pen with bone handle. 4-in. plain divider, compass, 4½-in. with fixed needle point, pen and pencil joint and lengthening bar, one small compass with adjustable needle points, pencil point, pen point and key, one transparent bone protractor. In a plush lined case with bar lock. Size of box, 3½x7 inches. Ship. wt., 8 oz. Price.....**\$3.85**



Nickel Plated School Outfit
\$2.38

57C9906—Contains 5-inch ruling pen with bone handle, 4-inch plain divider, compass, with fixed needle point, pen and pencil joints, and lengthening rod, transparent bone protractor and key. Plush lined box with bar lock. Size of box, 3¼x6¼ in. Ship. wt., 7 ounces. Price.....**\$2.38**

Quality Outfit
\$6.98

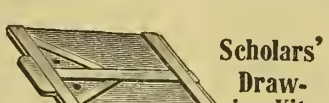


57C9903—Nickel finish outfit. Consisting of one 5-in. ruling pen with joint bone handle, one 5½-in. compass with fixed needle point. Pen and pencil parts and lengthening bar. 4¼-in. plain divider, one 3-in. spring bow pen with metal handle. One celluloid protractor and bone pencil box, and contains an extra 6¼-in. ruling pen. In a leatherette covered folding pocket case, velvet lined and bar lock. Ship. wt., 10 oz. Price.....**\$6.98**



Drawing Boards

57C9343—Made of pine with hardwood ledge, dovetailed into boards to allow contraction and expansion. Size, 20x24 in., ¾ in. thick. Shipping weight, 7 pounds. Each.....**\$4.25**
57C9346—Drawing Board. Size, 20x24 in. Made of selected white pine, ¾-in. thick, with two drawing surfaces; no cleats. Ship. wt., 4 lbs. Each.....**\$2.50**



Scholars' Drawing Kit

57C9348—Indispensable for beginners. Consists of a drawing board, size, 13x19 inches, a T-square and two wooden triangles, one 45 degrees and the other 30x60 degrees. The T-square slides under the cleat and holds the triangles in place when not in use. Ship. wt., 1¼ lbs. Price.....**\$1.38**

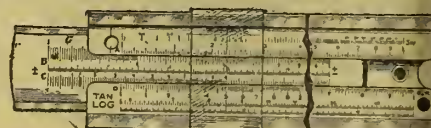
Mechanical Drawing and Elementary Machine Design



workshop mathematics. Price.....**\$2.45**

57C3854 — By F. L. Sylvester. Cloth Bound. Size, 5¼x7½ in. 333 pages. Ship. wt., 1½ lbs. 215 illustrations. First principles of geometric and mechanical drawing. Price.....**\$2.45**

Richardson's Slide Rule



57C9315—Will multiply, divide, solve proportion, extract square or cube roots, calculate interest and percentage, also all sorts of measurements. Metal stock, length 11 inches, width 1¼ in., with runner. Scales mounted on enameled metal. Shipping weight, 14 ounces. Each.....**\$3.00**

T Squares

57C9347 — T Square, made of solid mahogany with hard ebonyized edge, fixed head, length, 24 in. Price.....**\$1.08**
57C9349—Mahogany T Square, same as 57C9347; length 30 in. Price.....**\$1.23**
57C9344—Maple blade, fixed head. Length, 24 in. Price.....**47c**
57C9345—Maple blade, fixed head. Length, 30 in. Price.....**57c**
Ship. wt., each, 2 lbs.



57C9327—Post's Colored Waterproof Inks in the following colors:
Carmine. Blue. Orange.
Green. Vermillion. Brown. Violet.
Scarlet. Indigo. Brick Red.
Per bottle (Contents each bottle ¼ oz.).....**23c**

Liquid Drawing Inks

Post's Waterproof Drawing Inks are equal to any other Drawing Inks on the market. Even flowing; permanent in color. Contents of bottles, ¼ ounce. Shipping weight, 5 ounces.
57C9323—Post's Waterproof Black Ink. Per bottle.....**23c**
57C9325—Post's Non-Waterproof Black Ink. Per bottle.....**23c**

Colored Drawing Inks

Per bottle.....**23c**

VAN DYKE Drawing Pencils



57C9563—Hexagon shape. This pencil is of superior quality. Uniformly graded, free from grit. Furnished in the following degrees of hardness: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H. Shipping weight each, 2 oz. Each.....**9c**
Per dozen.....**97c**

Wood Triangles, 30x60 Degrees

57C9360—Size, 8 in. Ship. wt., 3 oz. **23c**
57C9361—Size, 10 in. Ship. wt., 4 oz. **32c**
57C9362—Size, 12 in. Ship. wt., 5 oz. **39c**

Wood Triangles, 45 Degrees

57C937C—Size, 6 in. Ship. wt., 3 oz. **21c**
57C9371—8 in. Ship. wt., 4 oz. **32c**
57C9372—10 in. Ship. wt., 5 oz. **39c**

Transparent Celluloid Triangles 45 Degrees

Art. No.	Size	Ship. wt.	Price
157C9375	6 in.	3 oz.	\$0.53
57C9376	8 in.	4 oz.	.78
57C9377	10 in.	4 oz.	1.35
57C9378	12 in.	5 oz.	1.97

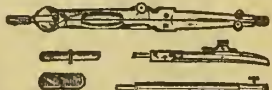
Note.—Size given on triangles is the length of longest side.

Transparent Celluloid Triangles 30x60 Degrees

Art. No.	Size	Ship. Wt.	Price
57C9365	6 in.	3 oz.	\$0.37
57C9366	8 in.	4 oz.	.52
57C9367	10 in.	4 oz.	.68
57C9368	12 in.	5 oz.	1.18

Engineers' Triangular Chain Scale

57C9353—12 in. Boxwood, divided 10, 20, 30, 40, 50, 60 parts to the inch. Ship. wt., 4 oz. Each.....**59c**



High Grade Compass Set \$3.98

57C9987—This high grade compass is 5½ inches long, with fixed needle point pen and pencil parts and lengthening bar. Lead box and key. Knurled metal handle. A very handsome instrument that will satisfy the most exacting draughtsman. Ship. wt., 6 ounces. Each.....**\$3.98**

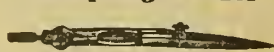


Irregular Curves

Accurately made; for drawing irregular curves. These devices are about the most useful things a draughtsman can have on his desk. Anyone who is interested in mechanical drawing will be pleased to own a set. Ship. wt., each 5 oz.

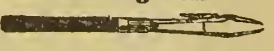
57C9381—No. 14, transparent celluloid. Length, 10¼ in. **78c**
57C9383—No. 15, transparent celluloid. Length, 8¾ in. **78c**
57C9385—No. 16, transparent celluloid. Length, 7¾ in. **78c**

Hairspring Divider



57C9996—Hairspring divider, 6-in. Fitted with straightening device and set screw for holding in position. Exceedingly well-made and will give good service in any draughting room. Ship. wt., 5 oz. Price, each.....**\$1.78**

Ruling Pen



57C9998—Ruling pen, 5¼ in. with ebony handle. Best workmanship and material. This is an excellent instrument that will give perfect satisfaction to any draughtsman or student. Ship. wt., 4 oz. Each.....**98c**

Architects' Scale Rule



57C9351—12-in. Boxwood, divided ½, ¼, ⅓, ⅕, ⅙, ⅛, 1, 1½ and 3 in. to the foot. Used for mechanical drawing and all architectural work. Ship. wt., 4 oz. Each.....**59c**

Steel Thumb Tacks—Put Up 100 in a box

57C9337—½ in. Ship. wt., 4 oz. Per box.....**24c**
57C9339—⅞ in. Ship. wt., 5 oz. Per box.....**27c**
57C9341—1¼ in. Ship. wt., 6 oz. Per box.....**34c**



Protractors

57C9392—Brass Protractors, half-circle. Whole degrees, diameter, 4 in. Ship. wt., 3 oz. Each.....**23c**
57C9395—Celluloid transparent half circle, 5 in. half degree graduations. Ship. wt., 3 oz.**90c**

Blue Print Papers

Freshly made, will not spoil in several months if properly kept. Parchment Blue Print Papers are the toughest in the market. Will keep well, make splendid prints.
57C9533—Satin, medium thickness, 30 inches wide. Ship. wt., 1 lb. Per 5 yard roll.....**83c**
57C9549—Parchment, thin, 36 inches. Ship. wt., 21 oz. Per 10 yard roll.....**\$1.78**

Tracing Cloth and Tracing Paper

Cloth, one side glazed, the other dull.
57C9551—30 inches wide. Per yard.....**\$1.15**
Per roll of 24 yards.....**17.98**
57C9553—36 inches wide. Per yard.....**\$1.35**
Per roll of 24 yards.....**19.97**
Ship. wt., per yard, about 20 oz.
57C9555 — Parchment Tracing Paper in sheets. Size, 15x20 inches. Ship. wt., 14 oz., 24 sheets in package. Per package.....**78c**

Table Showing Freight and Express Rates

The rates shown below are those in effect at the time this catalog was printed, and are subject to change.

From CHICAGO To	Freight Rates Per 100 lbs.				Express Rates per 100 lbs.	From CHICAGO To	Freight Rates Per 100 lbs.				Express Rates per 100 lbs.	From CHICAGO To	Freight Rates Per 100 lbs.				Express Rates per 100 lbs.
	1st Class	2nd Class	3rd Class	4th Class			1st Class	2nd Class	3rd Class	4th Class			1st Class	2nd Class	3rd Class	4th Class	
ALABAMA						Indianapolis	.66	.49	.37	.29	1.26	Corinth	1.35	1.14	.94	.79	2.64
Birmingham	\$1.86	\$1.57	\$1.31	\$1.07	\$2.80	Logansport	.46	.40	.31	.24	1.15	Greenville	1.37	1.12	.94	.72	2.91
Huntsville	1.62	1.42	1.15	.91	2.64	New Albany	.65	.55	.44	.32	1.51	Hattiesburg	1.61	1.36	1.16	.97	3.19
Mobile	1.37	1.12	.94	.72	3.41	South Bend	.42	.36	.29	.21	.99	Jackson	1.57	1.32	1.12	.95	3.08
Montgomery	1.86	1.64	1.40	1.10	3.02	Terre Haute	.55	.46	.36	.27	1.26	Natchez	1.37	1.12	.94	.72	3.35
Tuscaloosa	1.99	1.72	1.41	1.12	2.80							MISSOURI					
ARKANSAS						Council Bluffs	1.00	.81	.56	.40	2.64	Columbia	.79	.61	.46	.32	2.25
Fort Smith	1.62	1.39	1.09	.86	3.35	Davenport	.49	.39	.30	.25	1.14	Lebanon	1.02	.90	.62	.46	2.47
Helena	1.37	1.12	.94	.72	2.64	Des Moines	.75	.60	.45	.34	1.14	St. Louis	.57	.46	.36	.29	1.70
Jonesboro	1.26	1.05	.82	.66	2.47	Fort Dodge	.81	.65	.49	.36	2.31	Trenton	1.00	.81	.56	.40	2.14
Little Rock	1.50	1.26	.96	.74	3.08	Ottumwa	.69	.55	.41	.31	1.87						
Pine Bluff	1.50	1.26	.96	.74	3.08	St. Charles	1.00	.81	.56	.40	2.86	MONTANA					
Texarkana	1.81	1.52	1.25	1.06	3.63	Waterloo	.70	.56	.42	.31	1.98	Billings	3.12	2.61	2.11	1.71	6.10
CALIFORNIA						KENTUCKY						Butte	3.31	2.82	2.31	1.86	7.37
Bakersfield	4.25	3.69	3.06	2.59	9.95	Bowling Green	1.25	1.04	.84	.69	1.70	Great Falls	3.25	2.77	2.27	1.79	7.04
Fresno	4.25	3.69	3.06	2.59	9.95	Corinth	1.36	1.16	.99	.81	1.70	Kallapell	3.44	2.94	2.41	1.97	7.64
Los Angeles	4.25	3.69	3.06	2.59	9.95	Franklin	1.00	.81	.69	.57	1.92	Miles City	2.81	2.41	1.94	1.47	5.33
Sacramento	4.25	3.69	3.06	2.59	10.28	Hopkinsville	1.00	.81	.69	.57	1.92	NEVADA					
CONNECTICUT						Louisville	.66	.56	.45	.34	1.54	Austin	4.56	4.10	3.61	3.02	9.13
Hartford	1.21	1.06	.81	.57	2.97	Paducah	.73	.63	.50	.38	1.70	Elko	3.44	2.97	2.49	2.02	8.47
New Haven	1.21	1.06	.81	.57	2.97	LOUISIANA						NEW HAMPSHIRE					
DELAWARE						Kentwood	1.74	1.41	1.20	1.00	3.41	Concord	1.21	1.06	.81	.57	2.97
DOVER	1.12	.99	.75	.52	2.69	La Fayette	1.81	1.62	1.34	1.14	3.79	Atlantic City	1.20	1.06	.82	.60	2.80
DIST. OF COL.						Monroe	1.37	1.12	1.25	1.06	3.52	Paterson	1.12	.99	.75	.52	2.80
Washington	1.09	.95	.71	.49	2.64	New Orleans	1.37	1.12	.94	.72	3.57	Trenton	1.12	.99	.75	.52	2.80
FLORIDA						Vidalia	1.37	1.12	.94	.72	3.35	NEW YORK					
Jacksonville	1.83	1.55	1.37	1.20	3.96	MAINE						Albany	1.09	.95	.72	.51	2.69
Miami	3.04	2.64	2.35	2.08	5.17	Augusta	1.21	1.06	.81	.57	3.36	Buffalo	.77	.66	.52	.39	2.14
Pensacola	1.37	1.12	.94	.72	3.57	Bangor	1.21	1.06	.81	.57	3.08	Elmira	.90	.79	.60	.42	2.36
Tallahassee	2.48	2.14	1.84	1.49	3.68	Portland	1.21	1.06	.81	.57	3.63	Syracuse	.90	.79	.60	.42	2.36
Tampa	2.45	2.09	1.79	1.60	4.56	Presque Isle	1.84	1.61	1.29	.97	3.63	Watertown	1.12	.99	.75	.52	2.80
GEORGIA						Springfield	1.20	1.06	.80	.57	2.75	NEW HAMPSHIRE					
Atlanta	1.98	1.70	1.44	1.18	3.02	Annapolis	1.09	.95	.71	.49	2.64	Concord	1.21	1.06	.81	.57	2.97
Augusta	1.98	1.70	1.44	1.18	3.02	Baltimore	1.09	.95	.71	.49	2.64	Atlantic City	1.20	1.06	.82	.60	2.80
Macon	1.98	1.70	1.44	1.18	3.02	Cumberland	.90	.79	.60	.42	2.36	Paterson	1.12	.99	.75	.52	2.80
Savannah	1.83	1.55	1.37	1.20	3.68	MASSACHUSETTS						Trenton	1.12	.99	.75	.52	2.80
Waycross	2.33	2.00	1.77	1.48	3.63	Boston	1.21	1.06	.81	.57	2.91	NEW JERSEY					
IDAHO						Lowell	1.21	1.06	.81	.57	2.91	Atlantic City	1.20	1.06	.82	.60	2.80
Boise	3.51	3.01	2.51	2.06	8.00	Springfield	1.21	1.06	.81	.57	2.86	Paterson	1.12	.99	.75	.52	2.80
Idaho Falls	3.31	2.81	2.32	1.86	8.08	MICHIGAN						Trenton	1.12	.99	.75	.52	2.80
Lewiston	3.63	3.14	2.61	2.19	9.02	Alpena	.84	.71	.56	.41	2.42	NEW YORK					
Montpelier	3.31	2.81	2.32	1.86	7.31	Battle Creek	.54	.45	.36	.27	1.26	Albany	1.09	.95	.72	.51	2.69
Wallace	3.63	3.14	2.61	2.19	8.30	Bay City	.67	.57	.45	.34	1.81	Buffalo	.77	.66	.52	.39	2.14
ILLINOIS						Grand Rapids	.59	.50	.40	.30	1.26	Elmira	.90	.79	.60	.42	2.36
Chicago	.50	.47	.39	.30	1.81	Ironwood	.81	.69	.55	.35	2.64	Syracuse	.90	.79	.60	.42	2.36
Centerville	.52	.42	.34	.26	1.54	Marquette	.75	.62	.50	.35	2.42	Watertown	1.12	.99	.75	.52	2.80
Joliet	.26	.21	.17	.14	.82	MINNESOTA						NEW HAMPSHIRE					
Peoria	.46	.36	.27	.22	1.26	Bralner	1.21	1.00	.80	.54	3.08	Concord	1.21	1.06	.81	.57	2.97
Rockford	.36	.30	.25	.17	1.15	Crookston	1.49	1.24	.99	.69	3.52	Atlantic City	1.20	1.06	.82	.60	2.80
Rock Island	.47	.37	.29	.24	1.26	Duluth	.81	.69	.55	.35	2.80	Paterson	1.12	.99	.75	.52	2.80
Springfield	.47	.39	.30	.24	1.43	St. Cloud	1.05	.87	.70	.46	2.91	Trenton	1.12	.99	.75	.52	2.80
INDIANA						Sillwater	.62	.52	.41	.29	2.64	NEW JERSEY					
Fort Wayne	.51	.44	.34	.26	1.46	Winona	.75	.62	.50	.31	2.63	Atlantic City	1.20	1.06	.82	.60	2.80
						MISSISSIPPI						Paterson	1.12	.99	.75	.52	2.80
						Mississippi	1.56	1.27	1.02	.87	2.80	NEW YORK					

How to Figure Freight Charges

Railroads divide merchandise into several classes, each having a different rate. The first thing to do, therefore, is to find in what class the article you have in mind belongs. If the classification below does not show the article, take the classification for something similar. Refer to the table of rates given above to find the rate per hundred pounds on that class of freight from Chicago to your town, or to the nearest town shown in the list. Multiply that rate by the weight of the article which is given in the description of our merchandise, in our catalogs. For example—suppose you live in La Crosse, Wis., and want to find the freight charges on a Plow or a Corn Planter or a Stove. This merchandise takes third class rates from Chicago to western points and the third class rate to La Crosse is 41c per 100 lbs. If the merchandise weighs 650 pounds, the charges would be $\frac{1}{2}$ figure times 41c or \$2.66. If your town is not shown in the rate table above, figure from the town nearest to your station that is shown. If there is no agent at your station the freight charges must be prepaid; otherwise you pay the charges when the goods arrive.

100 Lb. Shipments and Over Most Economical

The minimum freight charge of the transportation companies is based on 100 pounds. It is therefore to your advantage to include enough items to build your order up to this weight because you pay freight for 100 pounds, whether your shipment weighs 10 or 100 pounds. Over 100 pounds you pay freight for only what you get. Thus if 100 pounds cost you 60c for freight, 110 pounds would cost you only 66c. (One and one-tenth times 60c.) 140 pounds would cost you 84c. (One and three-quarters times 60c.) and 175 pounds would cost you \$1.05 (one and three-quarters times 60c.). We aim to pack all merchandise so that the shipment will cost you the lowest possible amount for transportation charges.

When several articles are ordered of different classifications, the freight rate per 100 pounds is based on the highest class article.

Explaining Merchandise Listing Below

- 1st. means 1st. Class Rates
- 1½1st. means 1 and ½ times 1st Class Rates
- 2x1st. means 2 times 1st Class Rates
- 2½x1st. means 2 and ½ times 1st Class Rates

- 3x1st. means 3 times 1st Class Rates
- 4x1st. means 4 times 1st Class Rates
- 2 means 2nd Class Rates
- 3 means 3rd Class Rates

- 4 means 4th Class Rates
- 5 means 5th Class Rates
- 6 means 6th Class Rates
- K. D. means Knocked Down.

Freight Classifications

The classification is not the same throughout the country, and the classes are given below under three heads.

WESTERN CLASSIFICATION applies to

- Arizona
- Arkansas
- California (West of Mississippi River)
- Colorado
- Idaho
- Illinois
- Iowa
- Kansas
- Louisiana
- Minnesota
- Missouri
- Montana
- Nebraska
- Nevada
- New Mexico
- North Dakota
- Oklahoma
- Oregon
- South Dakota
- Texas
- Utah
- Washington
- Wisconsin
- Wyoming

EASTERN CLASSIFICATION applies to

- Connecticut
- Delaware
- District of Columbia
- Indiana
- Indiana
- Maine
- Maryland
- Massachusetts
- Michigan
- New Hampshire
- New Jersey
- New York
- Ohio
- Pennsylvania
- Rhode Island
- Vermont
- Virginia
- West Virginia

SOUTHERN CLASSIFICATION applies to

- Alabama
- Florida
- Georgia
- Kentucky
- Louisiana
- Tennessee
- South Carolina
- (East of Mississippi River)

ITEM	CLASSES		
	West	East	South
Ammunition	2nd	2nd	1st
Auto Tops	1½1st	1½1st	1st
Baby Carriages	1½1st	1½1st	1st
Bath Tubs	4th	4th	6th
Beans, Dried	3rd	4th	4th
Bee Hives, K.D.	3rd	3rd	2nd
Bedsteads	2 x1st	2 x1st	2 x1st
Bed Springs	1½1st	1½1st	1½1st
Bicycles	1st	1st	1st
Books	1½1st	1½1st	1½1st
Bookcases	1½1st	2 x1st	1½1st
Buggy Tops	1½1st	1st	1½1st
Buggy Wheels	1½1st	1st	1st
Building Paper	3rd	4th	4th
Bureaus	1st	1st	1st
Cady	2nd	2nd	3rd
Canned Goods	4th	4th	3rd
Carpets	1st	1st	1st
Ceramics	4th	4th	4th
Chairs, Common	1½1st	1½1st	1st
Chairs, Morris	1st	1st	1st
Folded	1st	1st	1st
Chiffoniers	1½1st	1½1st	1st
Chiffoniers	1½1st	1½1st	1st
China	2nd	2nd	2nd
China Closets	2 x1st	1½1st	1½1st
Clocks	1st	1st	1st
Coffee	1st	1st	1st
Conductor Pipe	4th	4th	4th
Iron	1st	1st	1st
Corn Planters	3rd	3rd	3rd
Corn Shellers	2nd	3rd	3rd
Cups	1½1st	1½1st	1½1st
Crackers	3rd	4th	4th
Cream Separators	2nd	2nd	2nd
Crockery	3rd	3rd	3rd
Cultivators, Walking	2nd	3rd	3rd
Cupboards	2nd	2nd	2nd
Davenport	1st	1st	1st
Desks	1st	1½1st	1st
Door Hangers	3rd	4th	4th
Doors	4th	3rd	4th
Dressers	1st	1st	1st
Drills, Corn	2nd	3rd	3rd
Drugs	1st	1st	1st
Dry Goods	3rd	3rd	3rd
Earthenware	3rd	3rd	3rd
Engines	1st		

Simple Measurement Instructions

Your measurements should be taken carefully by some one else, according to the diagrams shown here. Always look over your order before mailing to make sure that you have given us all the measurements required.

Women's, Misses', Children's Clothing

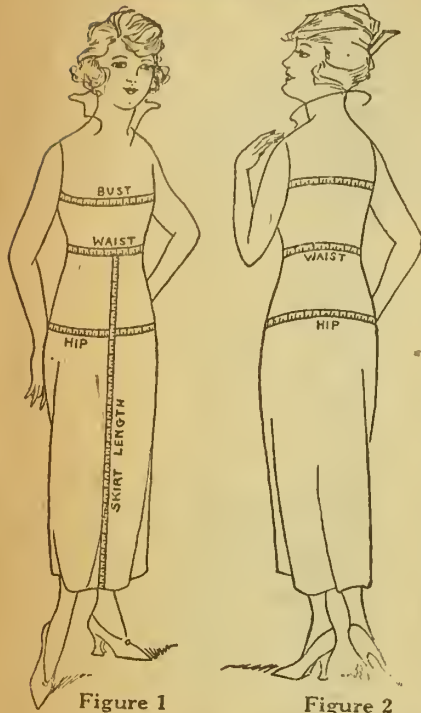


Figure 1

Figure 2

Our garments are so well tailored that it is easy to be fitted, if you will follow these directions exactly.

Do not take the measurements yourself.

Use an accurate tape line which does not stretch and take the measurements snugly but not too tight over a waist or skirt.

MAKE NO ALLOWANCE WHATSOEVER FOR FULLNESS. WE DO THAT.

BUST MEASURE: Over a tightly fitting waist or dress, place tape line entirely around the body, well up across the shoulders in back, close up under the arms, and have it meet across the fullest part of the bust. If necessary, pin tape at back to prevent slipping down.

WAIST MEASURE: For either regulation waist-band or girde-top skirts measure all around smallest part of waist over your skirt to where tape measure meets in front. The number of inches shown by your tape is your proper waist measure.

HIP MEASURE: Place tape line around fullest part of hips over your skirt 7 inches below smallest part of your waist. Figure 1 shows tape line meeting in front. Do not allow tape measure to slip up or down. The number of inches shown by your tape line is your proper hip measure.

FRONT LENGTH OF SKIRT: Measure from smallest part of waist in front, or natural waist line, down to whatever length is desired.

When Ordering, Give These Measurements

Women's Coats—Give bust measure.

Women's Dresses—Give bust measurement, waist, hip, front length of skirt.

Women's Suits—Same as for women's dresses.

Women's and Misses' Skirts—Give waist, hip, front skirt length.

Waists—Give bust measurement.

House Dresses, Kimonas, Aprons, etc.—Give bust and waist measure.

Petticoats—Fastening with drawstrings at the waist, give front length only. With elastic waistband give waist measurement and front length.

Raincoats—Give bust measurement only.

Misses' and Juniors' Coats—Give age and bust measurement. If large or small for her age, let us know for what age she is usually taken, as this information will enable us to fill your order more intelligently.

Misses' and Juniors' Dresses and Suits.—Give bust measurement, waist, hip, front length of skirt, and age.

Children's or Girls' Coats and Dresses—Give age and back length to bottom of skirt. If child is large or small for her age, let us know the age she is usually taken for.

Children's Bath Robes, Aprons, Raincoats—Give age. If your child is large or small for her age, tell us the age she is usually taken for.

Underwear, Women's—For Gowns, Corset Covers, Brassieres, Princess Slips, Combinations, Envelope Chemises, Knit Vests and Union Suits give bust measure only. For Knit Drawers, give size as requested in each description. For other drawers give side length.

Underwear, Misses' and Children's—See garment descriptions.

Maternity Garments—See description of garments.

Sweaters, Women's and Misses'—Order size 4 inches larger than your bust measure taken over dress.

Children's Bath Robes, Aprons, Raincoats—Give age. If your child is large or small for her age, tell us the age she is usually taken for.

Underwear, Women's—For Gowns, Corset Covers, Brassieres, Princess Slips, Combinations, Envelope Chemises, Knit Vests and Union Suits give bust measure only. For Knit Drawers, give size as requested in each description. For other drawers give side length.

Underwear, Misses' and Children's—See garment descriptions.

Maternity Garments—See description of garments.

Sweaters, Women's and Misses'—Order size 4 inches larger than your bust measure taken over dress.

Men's and Boys' Clothing

How to Take Raincoat or Overcoat Measure

When taking measurements for Raincoat or Overcoat place the tape measure across the chest as shown in Fig. 3. Always take your chest measure over your vest and always give chest, height and weight.

How to Measure for Hunting Clothing

When measuring for a coat put tape around chest close up under arms over shirt. If chest is 40 inches, order a size 40 coat if you do not intend to wear more than an ordinary shirt under the hunting coat. If you wear additional clothing and your chest is 40 inches, order a size 42. See Fig. 4 on how to measure for pants.

How to Order Hat or Cap



To measure for Hat Size. When you order, measure your head as illustrated and send us either this measurement in inches or compare the number of inches your head measures with this scale of hat sizes and send us the hat size you wear.

Children's Hat Size, 6 1/2 to 6 3/4
Boys' Hat Size, 6 3/4 to 7
Men's Hat Size, 6 3/4 to 7 1/2

Hat Sizes	Measures Around Head Inches	Hat Sizes	Measures Around Head Inches
6	18 1/2	7	21 1/2
6 1/4	19	7 1/4	22
6 1/2	19 1/2	7 1/2	22 1/2
6 3/4	20	7 3/4	23
7	20 1/2	7 3/4	23 1/2
7 1/4	21	7 3/4	23 1/2
7 1/2	21 1/2	7 3/4	23 1/2

How to take Chest Measure for Suits, Raincoats, Overcoats or Overall Jackets

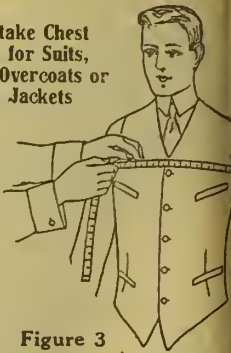
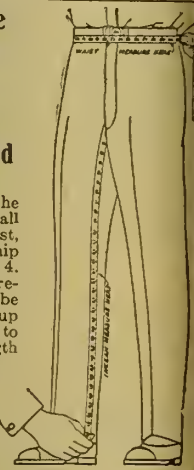


Figure 3

Chest Measurement. See tape measure is well up under arms and over shoulder blade in Figure 3. Measure over vest always give chest, height and weight.

How to Take Waist and Inseam Measurement for Trousers and Overalls

Waist—Put the tape measure all around your waist, just above the hip bones. See Fig. 4. **Inseam** Measurement should be taken from close up in crotch down to the desired length as shown in picture Fig. 4. When ordering state waist and inseam, also height and weight.



When Ordering, Give These Measurements

Men's Clothing—Follow instructions given with Fig. 3 and 4 on this page.

Men's Mackinaws, Rubber Raincoats, Oiled Slicker Clothing, Duck or Fur Coats and Working Clothing—Give chest measure, height and weight.

Men's Overalls—Give waist and inseam measure; also height and weight.

Sweaters—Order size 4 inches larger than chest measure taken over shirt.

Underwear—Follow requirements called for in descriptions.

Young Men's Clothing—See Men's Clothing diagram on this page.

Furnishings, Men's—See requirements in descriptions. Also state if you require longer or shorter than ordinary sleeve length.

Hats and Caps.—See picture above on this page.

Hosiery—Follow schedule in men and boys' hosiery section of big book.

Boys' Clothing.—State age, chest, waist measure. Also color desired and article number.

Youths' or High School Clothing—When ordering long trousers, give same information as requested for men's and young men's suits.

Hosiery Sizes—Men's Socks

Size of Shoe.....	5 1/2-6	6 1/2-7	7 1/2-8	8 1/2-9	9 1/2-10 1/2
Size of Sock.....	9 1/2	10	10 1/2	11	11 1/2

How to Find Correct Shoe Size (See Page 271)

Remove your shoe, place the measurement chart flat on the floor and set the end of a straight stick or piece of cardboard exactly on the line. Hold the stick or piece of cardboard, straight up at right angle, and gently place the back of the heel of your stocking foot against it, being careful not to push the stick off the line.

Stand erect, resting the foot firmly on the chart. The figure on the chart next to the extreme end of your big toe indicates the size of the shoe you should order. Be sure to include this size together with the width of shoe required in your order. Also all the numbers which you will find on the inside of your old shoe.

How to Measure for Rubbers

The best way to get your correct size in rubbers is to send us, if possible, the exact numbers printed inside of the shoes or slippers to be fitted. Or if you place your shoe on a piece of paper and draw an outline from the shoe, mentioning whether it is a high or low heel, you will be doubly sure of getting the correct width. It is very important that you mention the height of the heel, as a high heel rubber will not fit a low heel shoe and a low heel rubber will not stay on a high heel shoe. Do not use the shoe size chart in finding the size rubbers you require.



How to Measure Size of Finger for Ring

Wrap a narrow strip of paper snugly around large joint of finger. Cut the paper off so the ends just meet. Enclose this paper with your order or lay it on scale shown just above, so that one end of strip just covers the line at "A"; the figure at the other end of strip is the ring size you need. If end of strip falls between two numbers order a half-size larger than the smaller of the two numbers. For wedding ring or band ring, order size one-quarter larger than measure indicates.

Back Lace Corsets Except Topless

Take your waist measure, tight over the corset. If you are ordering back lace corsets, subtract two (2) inches. This allows for the lacing. Thus, if your waist measure over your corset is 25 inches, for a back lace corset, order size 23.

Front Lace and Topless Corsets

Take your waist measure tight over your corset. If you are ordering front lace or topless corsets, subtract one (1) inch. Thus, if your waist measure, over your corset, is 25 inches, for a front lace or topless corset, order size 24.

Women's Stockings

Size of Shoe.....	1-2	2 1/2-3 1/2	4-5	5 1/2-6	6 1/2-7	7 1/2-8
Size of Hosiery.....	8	8 1/2	9	9 1/2	10	10 1/2

Children's Stockings

Size of Shoe.....	6-6 1/2	7-7 1/2	8-8 1/2	9-10	10 1/2-12	12 1/2-2	2 1/2-3 1/2	4-4 1/2	5-6	6 1/2-7
Size of Hose.....	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10

Children's Bonnets

Measure head exactly as illustrated by placing tape measure on point on the neck just below the ear, as shown and then around face to same point on opposite side. Send the exact measurement in inches.



How to Measure for Gloves

Draw your tape measure around over the knuckles (as shown in picture to the right) not too tight, and not including the thumb. To this measurement add 1/4 inch for dress gloves and 1/2 inch for working gloves which will be your correct size. Women's unlined Kid glove sizes: 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8. Women's Silk, Fabric and lined glove sizes: 5 1/2, 6, 6 1/2, 7, 7 1/2, 8, 8 1/2. Men's Dress Glove sizes: 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/2, 10, 10 1/2. Men's Work Glove sizes: 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 10 1/2, 11. Children's Gloves: Order by age. Be sure to state if child is large or small for age.

Rates and Information for Parcel Post Shipments

Merchandise by Mail

Weight of Packages	Local Zone	1st	2nd	3rd	4th	5th	6th	7th	8th
oz. to 1 lb.	\$0.05	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12
1 lb. to 2	.06	.06	.06	.08	.11	.14	.17	.21	.24
2 lbs. to 3	.06	.07	.07	.10	.15	.20	.25	.31	.36
3 lbs. to 4	.07	.08	.08	.12	.19	.26	.33	.41	.48
4 lbs. to 5	.07	.09	.09	.14	.23	.32	.41	.51	.60
5 lbs. to 6	.08	.10	.10	.16	.27	.38	.49	.61	.72
6 lbs. to 7	.08	.11	.11	.18	.31	.44	.57	.71	.84
7 lbs. to 8	.09	.12	.12	.20	.35	.50	.65	.81	.96
8 lbs. to 9	.09	.13	.13	.22	.39	.56	.73	.91	1.08
9 lbs. to 10	.10	.14	.14	.24	.43	.62	.81	1.01	1.20
10 lbs. to 11	.10	.15	.15	.26	.47	.68	.89	1.11	1.32
11 lbs. to 12	.11	.16	.16	.28	.51	.74	.97	1.21	1.44
12 lbs. to 13	.11	.17	.17	.30	.55	.80	1.05	1.31	1.56
13 lbs. to 14	.12	.18	.18	.32	.59	.86	1.13	1.41	1.68
14 lbs. to 15	.12	.19	.19	.34	.63	.92	1.21	1.51	1.80
15 lbs. to 16	.13	.20	.20	.36	.67	.98	1.29	1.61	1.92
16 lbs. to 17	.13	.21	.21	.38	.71	1.04	1.37	1.71	2.04
17 lbs. to 18	.14	.22	.22	.40	.75	1.10	1.45	1.81	2.16
18 lbs. to 19	.14	.23	.23	.42	.79	1.16	1.53	1.91	2.28
19 lbs. to 20	.15	.24	.24	.44	.83	1.22	1.61	2.01	2.40
20 lbs. to 21	.15	.25	.25	.46	.87	1.28	1.69	2.11	2.52
21 lbs. to 22	.16	.26	.26	.48	.91	1.34	1.77	2.21	2.64
22 lbs. to 23	.16	.27	.27	.50	.95	1.40	1.85	2.31	2.76
23 lbs. to 24	.17	.28	.28	.52	.99	1.46	1.93	2.41	2.88
24 lbs. to 25	.17	.29	.29	.54	1.03	1.52	2.01	2.51	3.00
25 lbs. to 26	.18	.30	.30	.56	1.07	1.58	2.09	2.61	3.12
26 lbs. to 27	.18	.31	.31	.58	1.11	1.64	2.17	2.71	3.24
27 lbs. to 28	.19	.32	.32	.60	1.15	1.70	2.25	2.81	3.36
28 lbs. to 29	.19	.33	.33	.62	1.19	1.76	2.33	2.91	3.48
29 lbs. to 30	.20	.34	.34	.64	1.23	1.82	2.41	3.01	3.60
30 lbs. to 31	.20	.35	.35	.66	1.27	1.88	2.49	3.11	3.72
31 lbs. to 32	.21	.36	.36	.68	1.31	1.94	2.57	3.21	3.84
32 lbs. to 33	.21	.37	.37	.70	1.35	2.00	2.65	3.31	3.96
33 lbs. to 34	.22	.38	.38	.72	1.39	2.06	2.73	3.41	4.08
34 lbs. to 35	.22	.39	.39	.74	1.43	2.12	2.81	3.51	4.20
35 lbs. to 36	.23	.40	.40	.76	1.47	2.18	2.89	3.61	4.32
36 lbs. to 37	.23	.41	.41	.78	1.51	2.24	2.97	3.71	4.44
37 lbs. to 38	.24	.42	.42	.80	1.55	2.30	3.05	3.81	4.56
38 lbs. to 39	.24	.43	.43	.82	1.59	2.36	3.13	3.91	4.68
39 lbs. to 40	.25	.44	.44	.84	1.63	2.42	3.21	4.01	4.80
40 lbs. to 41	.25	.45	.45	.86	1.67	2.48	3.29	4.11	4.92
41 lbs. to 42	.26	.46	.46	.88	1.71	2.54	3.37	4.21	5.04
42 lbs. to 43	.26	.47	.47	.90	1.75	2.60	3.45	4.31	5.16
43 lbs. to 44	.27	.48	.48	.92	1.79	2.66	3.53	4.41	5.28
44 lbs. to 45	.27	.49	.49	.94	1.83	2.72	3.61	4.51	5.40
45 lbs. to 46	.28	.50	.50	.96	1.87	2.78	3.69	4.61	5.52
46 lbs. to 47	.28	.51	.51	.98	1.91	2.84	3.77	4.71	5.64
47 lbs. to 48	.29	.52	.52	1.00	1.95	2.90	3.85	4.81	5.76
48 lbs. to 49	.29	.53	.53	1.02	1.99	2.96	3.93	4.91	5.88
49 lbs. to 50	.30	.54	.54	1.04	2.03	3.02	4.01	5.01	6.00
50 lbs. to 51	.30	.55	.55	1.06					
51 lbs. to 52	.31	.56	.56	1.08					
52 lbs. to 53	.31	.57	.57	1.10					
53 lbs. to 54	.32	.58	.58	1.12					
54 lbs. to 55	.32	.59	.59	1.14					
55 lbs. to 56	.33	.60	.60	1.16					
56 lbs. to 57	.33	.61	.61	1.18					
57 lbs. to 58	.34	.62	.62	1.20					
58 lbs. to 59	.34	.63	.63	1.22					
59 lbs. to 60	.35	.64	.64	1.24					
60 lbs. to 61	.35	.65	.65	1.26					
61 lbs. to 62	.36	.66	.66	1.28					
62 lbs. to 63	.36	.67	.67	1.30					
63 lbs. to 64	.37	.68	.68	1.32					
64 lbs. to 65	.37	.69	.69	1.34					
65 lbs. to 66	.38	.70	.70	1.36					
66 lbs. to 67	.38	.71	.71	1.38					
67 lbs. to 68	.39	.72	.72	1.40					
68 lbs. to 69	.39	.73	.73	1.42					
69 lbs. to 70	.40	.74	.74	1.44					

Merchandise shipped by mail takes the parcel post rates. The map in the lower part of this page will show you what zone your postoffice is in from Chicago. If in doubt ask your postmaster or carrier.

To find out what the postage charges will be on your order, compare the total shipping weight (the catalog description of each item gives the weight) with this table, which gives the charges for packages of various weights to the different parcel post zones.

The zone rates do not apply to packages weighing four ounces or less, which are carried for one cent an ounce regardless of distance.

Books weighing eight ounces or less may be mailed for one-half cent an ounce. Books weighing over eight ounces are charged for by the pound, the rate per pound varying according to the zone to which the package must be carried.

Liquids may be shipped by parcel post in single glass bottles not exceeding sixteen ounces and in bottles of four ounces or less each when the total weight does not exceed twenty-four ounces. The weight limit for liquids in sealed metal containers is the same as for other parcel post matter.

Unmailable Articles. Some few articles in the Drug Line and explosive or poisonous articles are not mailable—cannot be sent by Parcel Post. These articles are so marked in the descriptions.

Size and Weight Limits

Packages weighing up to seventy pounds each may be mailed to any postoffice in zones one, two and three. Packages which do not exceed fifty pounds in weight may be mailed to all zones.

Packages having a combined length and girth of more than seven feet may not be mailed by parcel post. Measurement should be made by running a tape around the package the short way and to this adding the length of the long side.

Revenue Tax

In addition to the rates shown here the war revenue bill requires a tax of one cent for each twenty-five cents of postage or fraction thereof on packages bearing twenty-five cents or more postage.

How to Figure Express Charges

Express is a quick and safe method of shipping. The express agent in your town will explain his company's service, and will tell you the correct charges on any shipment.

For your convenience we give on this page a scale by which you can figure the charges on small express packages from one to fifty pounds. For instance—by referring to the table on page 593 under heading "Table Showing Freight And Express Rates," you will find that the Express rate per hundred pounds to St. Cloud, Minn., is \$2.91. If your order weighs 10 lbs. you will find by the scale below that 10 lbs. at the rate of \$2.91 per hundred pounds will cost 54c. If the rate per hundred pounds is \$3.46, and your package weighs 15 pounds, the express charge would be 75c. These rates do not apply to Groceries, however. The express charge on Groceries is one-fourth less than the charge on other merchandise.

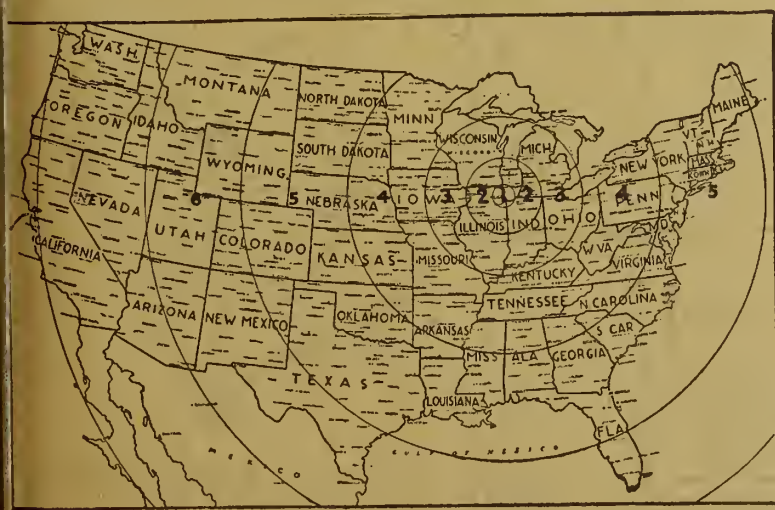
Scale of First-Class Express Charges

This is an official scale of Graduated Charges used by all Express Companies.

These rates are those in effect when this Catalog was printed. They are subject to change. In the column below under your express rate for one hundred pounds, will be found the amount you will have to pay on express shipments from one to fifty pounds. If the exact weight of your goods or the rate to your station is not shown, refer to the next higher rate or weight, and the result will be within a few cents of the correct charge. The charge on Food Stuffs, however, is one-fourth less than the charge on other merchandise. Take the weight of your order and figure charges according to this scale. If the shipment consists of Food Stuffs three-quarters of the result will be the correct charge.

When the Rate per 100 lbs. is	.82	.99	1.26	1.54	1.81	2.09	2.36	2.64	2.91	3.19	3.46	
Pkg. not over												
1 pound	.29	.29	.29	.29	.29	.30	.30	.30	.30	.31	.31	
2 pounds	.29	.29	.30	.30	.31	.31	.32	.32	.33	.33	.34	
3 pounds	.29	.30	.31	.31	.32	.32	.34	.34	.35	.35	.37	
4 pounds	.30	.31	.32	.33	.34	.35	.36	.37	.40	.41	.43	
5 pounds	.30	.31	.33	.31	.35	.36	.37	.40	.41	.42	.43	
6 pounds	.31	.32	.33	.35	.36	.38	.40	.42	.43	.45	.46	
7 pounds	.31	.33	.34	.36	.38	.41	.42	.44	.46	.48	.49	
8 pounds	.32	.33	.35	.37	.40	.42	.44	.46	.48	.51	.53	
9 pounds	.32	.34	.36	.38	.42	.44	.46	.48	.53	.54	.56	
10 pounds	.33	.34	.37	.40	.43	.45	.48	.51	.54	.56	.59	
15 pounds	.35	.38	.42	.46	.51	.55	.58	.63	.67	.71	.75	
20 pounds	.38	.43	.47	.53	.58	.64	.69	.75	.80	.86	.91	
25 pounds	.41	.45	.52	.59	.66	.73	.79	.87	.93	1.00	1.07	
30 pounds	.44	.48	.57	.65	.74	.81	.90	.98	1.07	1.14	1.22	
35 pounds	.46	.53	.62	.71	.81	.91	1.00	1.10	1.20	1.30	1.39	
40 pounds	.49	.56	.67	.78	.89	1.00	1.11	1.22	1.33	1.44	1.55	
45 pounds	.52	.59	.71	.85	.97	1.09	1.21	1.34	1.46	1.58	1.70	
50 pounds	.55	.63	.77	.90	1.04	1.18	1.32	1.45	1.59	1.73	1.87	
When the rate per 100 lbs. is	3.74	4.01	4.29	4.56	5.11	5.66	6.21	6.76	7.31	7.86	8.96	10.06
Pkg. not over												
1 pound	.31	.31	.32	.32	.32	.33	.33	.34	.34	.35	.36	.37
2 pounds	.31	.35	.35	.36	.37	.38	.40	.41	.42	.43	.45	.47
3 pounds	.37	.38	.40	.41	.42	.44	.45	.47	.48	.51	.54	.57
4 pounds	.42	.43	.44	.45	.47	.49	.52	.54	.56	.58	.63	.67
5 pounds	.45	.46	.47	.48	.52	.54	.57	.59	.63	.65	.70	.76
6 pounds	.48	.49	.52	.53	.56	.59	.63	.66	.69	.73	.79	.86
7 pounds	.52	.54	.56	.57	.62	.65	.69	.73	.77	.80	.88	.96
8 pounds	.55	.57	.59	.62	.66	.70	.75	.79	.84	.88	.97	1.06
9 pounds	.58	.62	.64	.66	.71	.76	.81	.86	.91	.96	1.06	1.15
10 pounds	.62	.65	.67	.70	.76	.81	.87	.92	.98	1.03	1.14	1.25
15 pounds	.79	.84	.88	.91	1.00	1.08	1.17	1.24	1.33	1.41	1.57	1.74
20 pounds	.97	1.02	1.08	1.13	1.24	1.35	1.46	1.57	1.68	1.79	2.01	2.23
25 pounds	1.14	1.21	1.28	1.34	1.48	1.62	1.76	1.89	2.03	2.17	2.44	2.72
30 pounds	1.31	1.40	1.47	1.56	1.73	1.89	2.06	2.22	2.39	2.55	2.88	3.21
35 pounds	1.48	1.58	1.68	1.77	1.97	2.15	2.35	2.52	2.74	2.93	3.31	3.70
40 pounds	1.66	1.77	1.88	1.99	2.21	2.43	2.65	2.87	3.09	3.31	3.75	4.19
45 pounds	1.84	1.96	2.08	2.20	2.45	2.69	2.95	3.19	3.44	3.68	4.18	4.67
50 pounds	2.00	2.14	2.28	2.42	2.69	2.97	3.24	3.52	3.79	4.07	4.62	5.17

This Map Shows You What Zone Your Post Office Is In From Chicago



Locate the State in which you live on above map. The figure inside the circle passing through the portion of the state in which your town is located will indicate your parcel post zone. Your postmaster will cheerfully give you any additional information you may require.

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You may have any of our special catalogs free of charge by simply writing us a postcard telling which ones you want or by checking them on the handy coupon on Pages 1031 and 1037 of this book.

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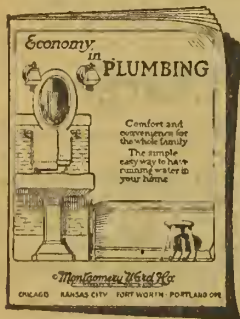
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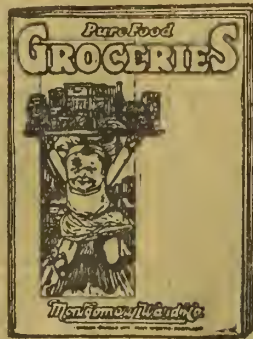
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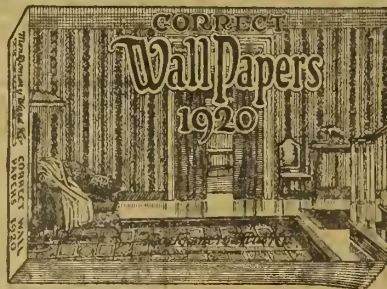


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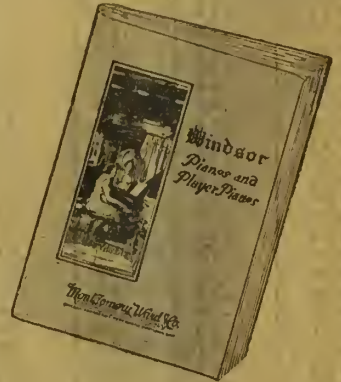


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You Will Find a Handy Request Coupon on Pages 1031 and 1037

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Cans, Cream Setting	1010	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Cans, Dairy	1010	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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Cans, Gasoline	806	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Cans, Kerosene	806	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Cans, Milk and Cream	1010	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Cans, Oil	806, 828	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Cans, Dill, Dillars, Bicycle	650	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Cans, Sugar	807	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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Grocery Catalog		Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candies, Christmas		Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candies, Electric	601, 667	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candle Holders	581	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candle Holders, Christ-		Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
mas Tree	502	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candle Lamps, Dark		Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Room	644	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candle Lamps, Electric	640	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candlesticks	457, 469	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candlesticks, Electric	457, 469	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candlesticks, Mahogany	469	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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Candy	528-531	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candy Boxes	528	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candy Jars, Glass	457	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candy Jars, Silver	457	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candy Making, Books	572	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Candy Making, Ther-		Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
mometers	466	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Cane Knives	924	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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Canned Heat	805	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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Canning Dishes	804	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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Canoe Glue	638, 871	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
Canoe Paddles	638	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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Fordsons	900	Cepuloses, Quinine Sulphate	557	Carrying Cases, School	628	Cattle Remedies	562	Chains, Petroleum	781	Charm, Watch, Gold	438
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ngs, Hair	Silver	Iron, Strap	Japanese Water Colors	Kerosene Engines	Knit Caps, Men's	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
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ngs, Hair	Ingrain Carpet	Iron Holders	Japanese Water Colors	Kerosene Engines	Knit Skirts, Women's	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
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ngs, Hair	Initials, Marking	Iron Levels	Japanese Water Colors	Kerosene Engines	Knit Skirts, Women's	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Initials on Tape	Iron Pegs, Tent	Japanese Water Colors	Kerosene Engines	Knit Skirts, Children's 135	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Initial Belts	Iron Pipes and Fittings	Japanese Water Colors	Kerosene Engines	Knit Skirts, Girls'	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
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ngs, Hair	Initials, Marking	Iron Pump Stands	Japanese Water Colors	Kerosene Engines	Knit Skirts, Women's	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Initial Rosettes	Strychnine	Japanese Water Colors	Kerosene Engines	Knit Skirts, Boys' 269	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
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ngs, Hair	Initial Towels	Iron Rope Hoists	Japanese Water Colors	Kerosene Engines	Knit Skirts, Women's	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Initial Transfer Book	Iron Rust Remover	Japanese Water Colors	Kerosene Engines	Knit Skirts, Children's 135	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	For Sewing	Iron Sash Pulleys	Japanese Water Colors	Kerosene Engines	Knit Skirts, Girls'	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Injection Tablets	Iron Settees, Vases, Write	Japanese Water Colors	Kerosene Engines	Knit Skirts, Misses' 262, 263	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Injectors, Automatic	For Prices	Japanese Water Colors	Kerosene Engines	Knit Skirts, Men's 268, 269	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
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ngs, Hair	Water Supply	Iron Tempers	Japanese Water Colors	Kerosene Engines	Knit Skirts, Women's	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Inks, drawing	Iron Tire Bolts	Japanese Water Colors	Kerosene Engines	Knit Skirts, Children's 135	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Inks, Fountain Pen	Iron Tire Bolts	Japanese Water Colors	Kerosene Engines	Knit Skirts, Girls'	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
ngs, Hair	Inks, Indelible	Iron Tongs	Japanese Water Colors	Kerosene Engines	Knit Skirts, Misses' 262, 263	Knives, Pen	Knives, Pen	Knives, Pen	Knives, Pen
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Sharpeners, Scissors.....	307	Shirts, Flannel, Men's.....	381	Showers, Electric.....	661	Silver Jewels.....	454	Soccer Footballs.....	630	Spark Plugs, Tractor	
Sharpeners, Scissors.....	307	Shirts, Flannel, Men's.....	381	Showers, Electric.....	661	Silver Jewels.....	454	Soccer Footballs.....	630	Spark Plugs, Tractor	
Sharpeners, Scissors.....	307	Shirts, Flannel, Men's.....	381	Showers, Electric.....	661	Silver Jewels.....	454	Soccer Footballs.....	630	Spark Plugs, Tractor	
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Sharpeners, Scissors.....	307	Shirts, Flannel, Men's.....	381	Showers, Electric							

Hawthorne Bicycles—Built for Service



\$51.45

Complete with New Departure Coaster Brake

Hawthorne Bicycles, like everything else we sell, are absolutely guaranteed to satisfy you. Compare a Hawthorne with any make of bicycle on the market forgetting all about the price, and you'll say the Hawthorne is as good as the best and better than the average. Then compare the prices. You'll take a Hawthorne every time.

De Luxe Streamline Motobike

This Motobike presents the highest type of bicycle design and construction. Its graceful streamline design and masterly construction will delight you as long as you own it. It is complete in every detail from the Motocycle pattern Double Truss Front Fork through its streamline Motobike Braided Handle Bars, its Motobike trussed Frame, large comfortable saddle to a strong luggage carrier and stand. It gives you complete satisfaction because of its beauty, balance and durability. Study carefully the specifications below and you will readily see the high points of refinement that are built in this Motobike. This bicycle is covered by our Special Bicycle Guarantee.

FRAME—Made of carefully tested 18 gauge seamless tubing, reinforced by fishmouth connections so all joints are flush. A Motobike must have a tank as it gives a touch of refinement that is entirely lacking in ordinary models with the open space between the top bars. The De Luxe Streamline has an exceedingly neat motorcycle tank of superior design—and large enough to carry all the tools.

COLOR—Two selections of beautiful colors.
160C3000—Attractive, lustrous, cherry red, with cream ornamental head, seat-post mast, panel on front and fenders.

160C3001—Magnificent combination of army khaki and white. The frame is khaki with white decorative stripes. The finishes have a glistening lustre as each coat of enamel is baked on separately, and the colors are serviceable as well as charming.

SIZE—The frame is furnished in one size only. The curved top bar allows seat post to be raised or lowered making this model suitable for any rider with an inseam measurement of 27 inches to 35 inches (from crotch to toes). Anyone who can ride a 20 or 22-inch bicycle will find the Motobike size satisfactory.

FIRESTONE TIRES—These are the heavy stud black tread Firestones—the most expensive Firestones for bicycles.

SADDLE—Big Troxel Saddle, motorcycle type, with a heavy leather seat supported by two sets of shock absorbing springs designed to give greatest comfort.

HANDLE BARS—The adjustable "Streamline" design handle bars used on the Motobike are the most popular made for bicycles. Crossbar strengthens entire bar. Finely nickled.

MUD GUARDS—Deep center, drop side motorcycle type. They are light in weight, yet very strong. Protection against road grime is certain.

LUGGAGE CARRIER—This essential, so necessary nowadays, is built to hold even heavy packages. Riveted steel construction.

COASTER BRAKE—The always dependable New Departure Coaster Brake is furnished as standard equipment on all "Streamline" Motobikes.

EQUIPMENT—Includes pump and necessary tools.
 Shipping weight, about 60 pounds.

160C3000—Motobike in Red and Cream Colors..... **\$51.45**
160C3001—Motobike in Khaki and White..... **51.45**
160C3003—Motobike without tank or luggage carrier in red and cream colors..... **49.95**

Hawthorne Arch Bar Model

Something different and a little newer is offered you in this Arch Bar Model of our Hawthorne line. The graceful curves in the top bars give this bike an individuality that is especially desirable to those who want a bicycle a little more snappy than ordinary. It has all the distinguishing points that characterize our Hawthorne Bicycles. It is equipped with Motobike Trussed Front Fork and deep drop side Mud Guards, which tend to emphasize its elegant design. You will be pleased with this Arch Bar Model, because of its beauty and serviceability. This bicycle is covered by our special bicycle guarantee.

FRAME—New, latest Improved Arch Bar frame. Standard 1-inch steel 18 gauge seamless tubing with flush joints reinforced by fishmouth connections. Curved top bar with full rounded truss bar. An exceptionally attractive model.

SIZE—Furnished in one size only. The seat post can be raised or lowered, making this model suitable for any rider with an inseam measurement of 27 to 35 inches (from crotch to toe). A comfortable size for anyone who can ride a 20 or 22-inch bicycle.

COLOR—Frame is a beautiful light green, with cream colored head, seat post mast and spears on the front forks. Also cream colored stripe on guards.

FIRESTONE TIRES—Heavy stud black tread Firestones—the most expensive Firestones for bicycles—are used.

FORKS—Front forks oval tubing, tapering to bottom. Fork crown is solid forging. A strong double truss brace of motorcycle pattern extends full length of fork.

PEDALS—Rubber pedals, full ball-bearing motorcycle anti-slip type.

SADDLE—Troxel Saddle is supported by two easy acting shock absorbing springs.

HANDLE BARS—Adjustable. Forward extension type. Wide spread.

MUD GUARDS—Strong, yet light in weight, double braced. Deep drop side, full protection type. Rear guard has clip for holding up stand.

COASTER BRAKE—The dependable, easy acting New Departure Brake is used on 160C3005.

EQUIPMENT—Hand horn, tool bag, frame pump, oil can, wrench, tire repair outfit.
 Shipping weight, about 55 pounds.

160C3005—Arch Bar Roadster Model..... **\$47.45**
160C3008—Arch Bar Coaster Model..... **50.45**



\$47.45

Complete with New Departure Coaster Brake



\$50.45

Complete with New Departure Coaster Brake

Hawthorne Curved Bar Model

When we designed this Curved Bar Model we had in mind the young man who would want a bicycle that would be as easy to pedal, good to look at and as durable as any could find and still have a racy distinctive style all its own. Then, too, because of the Curved Bar design the larger boys can use this model and not outgrow it as they would the regular design. So from the Double Truss Fork in the front to the strong Channel Stand in the rear you young men, who desire a bicycle that will stay with you for years will find delight in this distinctive, clean cut Hawthorne Curved Bar Model. This bicycle is covered by our Special Bicycle Guarantee.

FRAME—Made of carefully tested 18 gauge, seamless tubing reinforced by fishmouth connections as all joints are flush. The curved top bar and clean cut line appearance makes this model a favorite among boys and young men.

SIZE—The frame is furnished in one size only. The seat post can be raised or lowered, making this model suitable for any rider with an inseam measurement of 27 inches to 35 inches (from crotch to toes). Proper size for anyone who can ride a 20 or 22-inch bicycle.

COLOR—The finish is the most harmonious and pleasing combination of olive green and red your eyes ever looked upon.

EQUIPMENT—Delta Electric Lamp and Battery Container (no Battery). Frame pump also furnished.

SADDLE—Well-known Troxel Saddle, with two flexible shock-absorbing springs.

HANDLE BARS—Wide adjustable, forward extension type.

GRIPS—The rubber grips are long corrugated pattern which give an excellent holding surface and relieve your hand and arms from much vibration.

MUD GUARDS—Corrugated metal, raised center. Fastened with flat braces.

FORK—Special drop-forged crown forks that will withstand the most severe service. Double truss rod extends entire length like on De Luxe Motobike.

FIRESTONE TIRES—We have used the popular red tread Firestone Tires which will give excellent service and utmost protection against skidding.

COASTER BRAKE—The always dependable New Departure Coaster Brake is used on Coaster Model.
TOOLS—This equipment includes frame pump and tool bag with wrench, oiler, tire repair tool, tube of cement, roll tire tape, nipple grip.
 Shipping weight, 55 pounds.

160C3010—Hawthorne Curved Bar Roadster..... **\$44.45**
160C3012—Hawthorne Curved Bar, Coaster Brake Model..... **47.45**

Latest Models—None Better Made

\$44⁴⁵

Complete with New Departure Coaster Brake



When you buy a Hawthorne Bicycle you get the advantage of all the knowledge and experience gained in manufacturing and selling bicycles for over 20 years. Only the best materials—seamless steel tubing, steel drop forgings, high grade tires and the best of fittings are used in Hawthorne Bicycles. When you buy a Hawthorne Bicycle you get a bicycle that not only looks well, but which will wear well too, and which carries the Montgomery Ward & Co. guarantee.

Hawthorne Reliable Model

The first so-called "Safety" bicycles that were built were diamond frame models, and today, the diamond frame model is still a very popular bicycle. In this Hawthorne Reliable Model we offer you a bicycle that is the result of 20 years experience in designing and building bicycles. If you need a well equipped, gracefully proportioned, well built, durable and comfortable standard bicycle, this Reliable Model we are sure will give you what you want. This bicycle is covered by our Special Bicycle Guarantee.

FRAME—Seamless steel tubing, 18 gauge, strong fishmouth reinforcements at all joints. Furnished in 20 and 22 inch sizes. Riders with inseam measurement of 27 to 32 inches (from crotch to toes) take 20-inch frame—30 to 35-inch inseam, 22-inch frame. Specify size when ordering.

COLOR—Rich blue with white finished head and seat post bar. Rims aluminum finish and striped.

FORKS—Drop forged crown, strongly reinforced and brazed.

HANGER—Is one-piece construction. Diamond shaped. Finely tempered and nicked.

SPROCKET—Has 26 teeth in front. Pressed from cold rolled plate steel. Finely finished and nicked.

FIRESTONE TIRES—Red tread with white side walls—the famous Firestone Non-Skids. Much higher priced tires than generally used on this type bicycle.

PEDALS—Large rubber motorcycle style. Ball bearing. Broad and comfortable.

SADDLE—Big Troxel Saddle, heavy leather seat supported by two sets of shock absorbing springs.

HANDLE BARS—Forward extension, adjustable style. Neat rubber grips.

HUBS—Concave type. Turned from solid steel.

RIMS—Made of selected straight grain rock maple.

COASTER BRAKE—(On Coaster Brake Model)—The widely used and well-known New Departure. Recognized as a leader by all bicyclists.

TOOLS—Leather bag, oiler, wrench, tape, tube cement and nipple grip. Also big quick acting frame pump.

MUD GUARDS—Corrugated metal, raised center. Fastened with flat braces over front and rear wheels.

Shipping weight, about 55 pounds.
160C3014—Hawthorne Reliable Roadster Model..... **\$41.45**
160C3016—Hawthorne Reliable Coaster Brake Model..... **44.45**

Hawthorne Steady Service Model

Here is a bicycle that you will feel proud of all the time. It is built to give steady satisfactory service.

This Steady Service Model is Hawthorne built, which means it is well built. It is a graceful, well balanced design, well constructed and will give you the service you expect.

You will like it because it is an easy running, satisfying bicycle and wonderfully well made.

This bicycle is covered by our Special Bicycle Guarantee.

FRAME—Standard 18 gauge one-inch seamless steel tubing. All joints strengthen with fishmouth reinforcements, thoroughly brazed.

SIZE—Furnished in 20 and 22-inch sizes. Riders with inseam measurements of 27 to 32 inches (from crotch to toes) take 20-inch frame—inseam of 30 to 35 inches, take 22-inch frame. Specify size when ordering.

COLOR—Frame, lustrous black with bright red head. Rims are black enameled with red center. Frame and rims finished with several coats of enamel, baked and polished.

FIRESTONE TIRES—The well known Firestone Gray Tread Non-Skid Tires are used in this model.

SADDLE—Troxel Saddle, heavy leather seat, supported by two sets of shock absorbing springs.

HANDLE BARS—Forward extension, adjustable bars. Can be turned up or down.

TOOL OUTFIT—Genuine leather bag, complete set of tools.

Shipping weight, about 55 pounds.
60C3022—Steady Service Bicycle Roadster Model..... **\$38.45**
60C3024—Steady Service Bicycle Coaster Model (New Departure)..... **41.45**

Complete with New Departure Coaster Brake



\$46⁴⁵

\$41⁴⁵

Complete with New Departure Coaster Brake



Hawthorne Women's Model

This Women's Model is a bicycle that will delight any girl or young woman who wishes to enjoy the health-giving pleasure of cycling. It is Hawthorne built which means that every detail of construction has been carefully supervised and only the very best materials used. It is gracefully designed and sturdily constructed and will appeal to you at once. A careful study of the specifications below and a comparison of this price with the prices usually asked for a bicycle will convince you that this is a wonderful value for the money.

FRAME CONSTRUCTION—Fishmouth reinforcement is employed in strengthening all joints. Sturdy 18 gauge seamless tubing, with joint reinforcements thoroughly brazed by the dip-method assures great strength. Furnished in 20-inch size only.

COLOR—Rich blue with white finished head and seat post bar. Rims enameled and striped to match.

SADDLE—Troxel Saddle, with two shock absorbing springs. This is a specially shaped saddle that is exceedingly comfortable.

FIRESTONE TIRES—The popular Firestones, with red tread and white sidewalls, are used on this model.

OTHER FEATURES—One piece hanger, rat-trap pedals with rubber foot rests, adjustable handle bars, extension type, a strong, serviceable channel bar stand, leather tool bag with full set of tools.

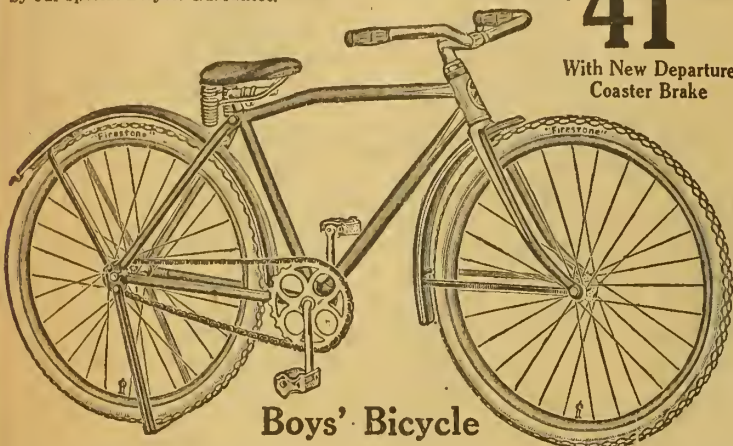
Shipping weight, about 55 lbs.
160C3020—Roadster Model..... **\$43.45**
160C3021—Coaster Brake Model..... **46.45**

Hawthorne Juvenile Bicycles

Our Juvenile Bicycles for boys and girls represent the best that 20 years and more experience has taught us to build. Both the Boys' and Girls' Models embody all those points of merit that characterize our Hawthorne Models. In construction they are no different from our larger models, but are designed to fit the younger folks who have not yet grown big enough to ride the regular sizes. Health, clean sport, and happiness for your boy or girl are assured in the purchase of one of these Hawthorne Juvenile Models. Both models are covered by our special Bicycle Guarantee.

\$41⁶⁵

With New Departure Coaster Brake



Boys' Bicycle

This Boy's Bicycle is designed and built exactly like our men's models, except for size. The curved top bar makes it possible for a boy to buy a wheel that fits him now and use it long after he would have outgrown a diamond frame model. The 16 in. size fits the boy with inseam measurement of 20 to 23 inches (from crotch to toes). The 18 in. size, the boy with 24 to 26 inch inseam measurement. This bicycle, because of its design and construction, presents an attractive appearance and will stand many years of hard wear. This Bicycle is covered by our Special Bicycle Guarantee.

FRAME—Standard 1-inch 18 gauge, seamless steel tubing, fishmouth reinforcements on the inside, heavily brazed, adding great strength; flush joints throughout. Neat curved top bar like the most expensive bicycle for men.

COLOR—Beautiful cherry red, with cream-colored head and darts on fork. These colors will please every boy.

SADDLE—Famous Troxel Saddle, equipped with shock absorbing springs.

COASTER BRAKE—On Coaster models we use the famous New Departure Brake.

FIRESTONE TIRES—Fine quality gray tread Firestone Non-Skid type.

MUD GUARDS—Strong, light weight metal over front and rear wheel.

OTHER FEATURES—Wide channel bar stand, tool bag with full set of tools, special one piece hanger, adjustable seat post, adjustable extension type handle bars.

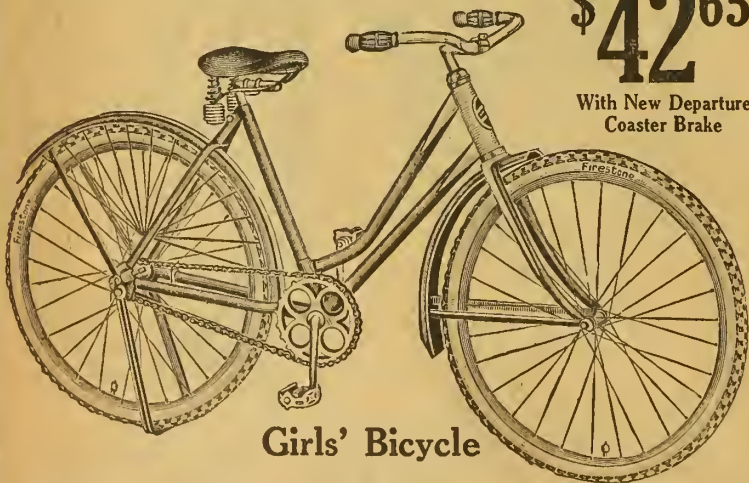
Shipping weight, about 45 lbs.

Price List Boys' Hawthorne Models

Article No.	Frame	Wheels	Model	Price
160C3026	16 in.	24 in.	Roadster	\$37.65
160C3028	16 in.	24 in.	Coaster	41.65
160C3030	18 in.	26 in.	Roadster	37.65
160C3032	18 in.	26 in.	Coaster	41.65

\$42⁶⁵

With New Departure Coaster Brake



Girls' Bicycle

The Girls' Bicycle shown above is but a smaller edition of our Women's Model. It is a graceful, well-proportioned bicycle, built on the characteristic Hawthorne lines. It will always be a source of pride, pleasure, and satisfaction to the girl who owns one. It is easy to pedal, safe to ride, and good to look at. The best Girls' model that 20 years' experience in this line has enabled us to produce. Like our Boys' model it is covered by our Special Bicycle Guarantee.

FRAME—Standard 1-inch 18 gauge, seamless steel tubing, fishmouth reinforcements on the inside, heavily brazed, adding great strength; flush joints throughout.

COLOR—Beautiful cherry red, with cream-colored head and darts on fork. These colors will please every girl.

SADDLE—Famous Troxel Saddle, equipped with shock absorbing springs.

COASTER BRAKE—On Coaster models we use the famous New Departure Brake.

FIRESTONE TIRES—Fine quality gray tread Firestone Non-Skid type.

MUD GUARDS—Strong light weight metal over front and rear wheel. Numerous eord protectors to prevent the rider's skirt from becoming entangled in the rear wheel.

OTHER FEATURES—Wide channel bar stand, tool bag with full set of tools, special one piece hanger, adjustable seat post, adjustable extension type handle bars.

Shipping weight, about 45 lbs.

Price List Girls' Hawthorne Bicycles.

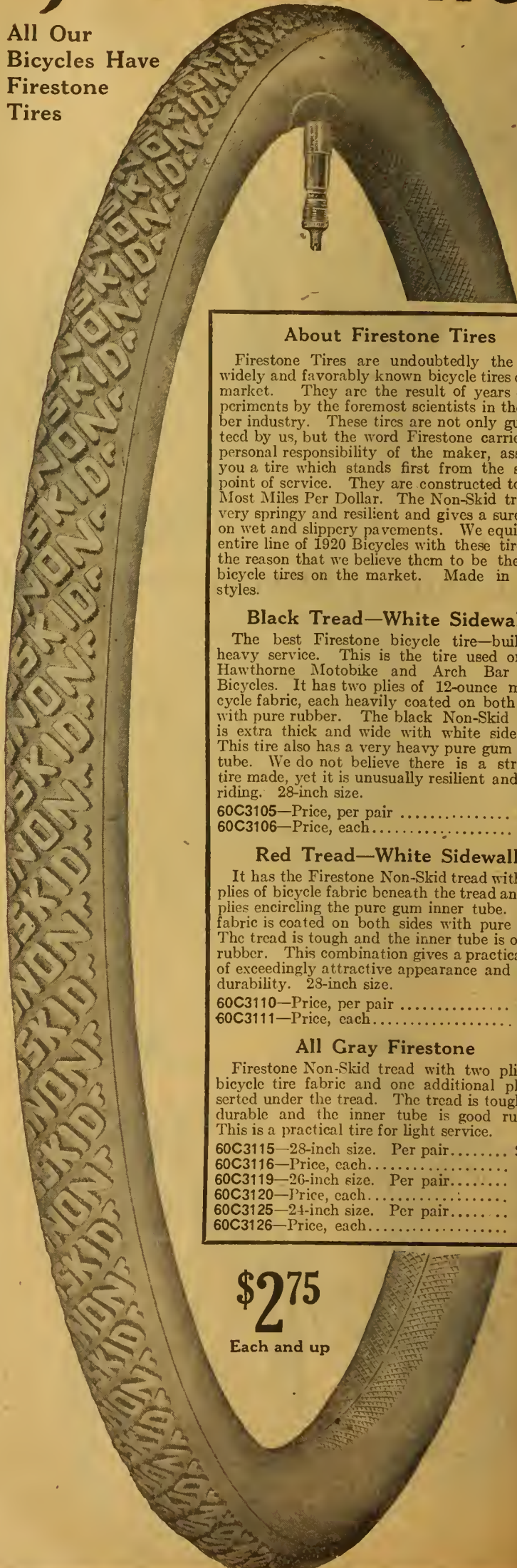
Article No.	Frame	Wheels	Model	Price
160C3034	16 in.	24 in.	Roadster	\$38.65
160C3036	16 in.	24 in.	Coaster	42.65
160C3038	18 in.	26 in.	Roadster	38.65
160C3040	18 in.	26 in.	Coaster	42.65

Our Guarantee

In addition to our regular Satisfaction Guaranteed or your Money Back Guarantee, we agree to renew or repair free of cost to the purchaser any part found defective in Material or Workmanship if the defective parts are first sent to us. This is not for one year but for the life of the bicycle. Further, if you do not like any bicycle you buy when you receive it, return it to us and get your money back.

Firestone Tires

All Our Bicycles Have Firestone Tires



About Firestone Tires

Firestone Tires are undoubtedly the most widely and favorably known bicycle tires on the market. They are the result of years of experiments by the foremost scientists in the rubber industry. These tires are not only guaranteed by us, but the word Firestone carries the personal responsibility of the maker, assuring you a tire which stands first from the standpoint of service. They are constructed to give Most Miles Per Dollar. The Non-Skid tread is very springy and resilient and gives a sure hold on wet and slippery pavements. We equip our entire line of 1920 Bicycles with these tires for the reason that we believe them to be the best bicycle tires on the market. Made in three styles.

Black Tread—White Sidewall

The best Firestone bicycle tire—built for heavy service. This is the tire used on our Hawthorne Motobike and Arch Bar 1920 Bicycles. It has two plies of 12-ounce motor cycle fabric, each heavily coated on both sides with pure rubber. The black Non-Skid tread is extra thick and wide with white sidewalls. This tire also has a very heavy pure gum inner tube. We do not believe there is a stronger tire made, yet it is unusually resilient and easy riding. 28-inch size.

60C3105—Price, per pair \$8.90
60C3106—Price, each..... 4.50

Red Tread—White Sidewall

It has the Firestone Non-Skid tread with four plies of bicycle fabric beneath the tread and two plies encircling the pure gum inner tube. The fabric is coated on both sides with pure gum rubber. The tread is tough and the inner tube is of exceedingly attractive appearance and great durability. 28-inch size.

60C3110—Price, per pair \$7.45
60C3111—Price, each..... 3.75

All Gray Firestone

Firestone Non-Skid tread with two plies of bicycle tire fabric and one additional ply inserted under the tread. The tread is tough and durable and the inner tube is good rubber. This is a practical tire for light service.

60C3115—28-inch size. Per pair..... \$6.15
60C3116—Price, each..... 3.10
60C3119—26-inch size. Per pair..... 5.55
60C3120—Price, each..... 2.80
60C3125—24-inch size. Per pair..... 5.45
60C3126—Price, each..... 2.75

\$275

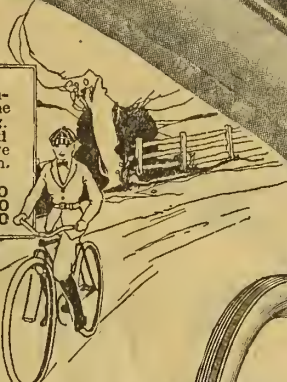
Each and up

Hercules Giant Stud Tires

\$2.50
Each

This tire is made for long endurance, constructed of fine quality fabric scientifically compounded with rubber. The price is right. We sell an enormous quantity of these tires. The large, thick Giant studs of live red rubber which form the tread insure safety from skidding. Beneath the Giant stud tread surface are four thick, firmly knitted, thoroughly rubber-saturated layers of fabric forming an almost sure puncture-proof foundation. The Hercules tires have a hannellette strip of cement holding surface giving a strong grip when cemented to the rim. Ship. wt., each, 3 lbs. Per pair, 6 lbs.

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|---------------------------------|--------|-------------------------------|--------|
| 60C3150—28 inch size, Pair..... | \$4.95 | 60C3151—28 inch size, Each | \$2.50 |
| 60C3154—Juvenile, 26 in. Pair.. | 4.75 | 60C3155—Juvenile, 26 in. Each | 2.40 |
| 60C3158—Juvenile, 24 in. Pair.. | 4.65 | 60C3159—Juvenile, 24 in. Each | 2.30 |



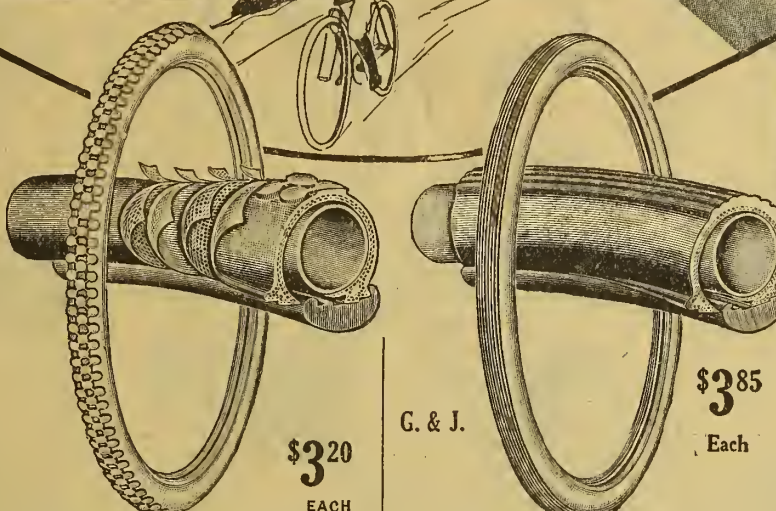
Majestic Tires

This Majestic Tire gives the bicyclist a strong, serviceable tire. It is constructed to resist punctures. The heavy tread and thick side walls with four layers of heavy bicycle fabric under the tread thickly coated with high grade rubber and vulcanized by a special process, account for the long life and elasticity.

The chances of skidding are reduced by the extra heavy, new design sudded tread. Use Majestic Tires and avoid all trouble resulting from small punctures, for if you should have a small puncture, the opening closes of its own accord without any annoyance to the rider. On slippery roads the non-skid tread surface holds tight, saves you much uneasiness such as is experienced when using a smooth tread. The portion that attaches to the rim is covered with a heavy hannellette, assuring a strong grip when cemented to the rim. Ship. wt., per pair, 6 lbs.

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|---------------------------|---------------|--------|
| 60C3130—For 28 inch size. | Per pair..... | \$5.45 |
| 60C3131—For one tire. | Each..... | \$2.75 |

\$2.75
Each



Combination Clincher Casings

Made of fine quality bicycle tire fabric and scientifically compounded rubber mixture. First, several layers of selected fabric, that have been specially covered with high grade rubber gums, are put together layer upon layer. Then the special wear-resisting larger buton, non-skid type, rubber tread is added and the whole tire cured under mold pressure in live steam. The heavy nobby stub takes up all road wear and tends to prevent skidding. Hawthorne Combination clincher tires will fit any G. & J. type wood rim, any metal lined clincher, or any all steel clincher rim. Will fit either 28x1 1/2 or 28x1 3/8 size rims. Made for these sizes only. Shipping weight, each, 3 lbs.

- | | |
|-------------------------|--------|
| 60C3163—Price each..... | \$3.20 |
|-------------------------|--------|

Cushion Pneumatic Tires

A combination of the modern pneumatic and the old style cushion tire. They are particularly in demand in parts of the country where thorns, cactus, and extremely hard, flinty roads must be traveled. The alternate layers of rubber and fabric are extra heavy, and, due to the thick side walls and heavy resisting tread, are as nearly puncture proof as a tire can be made without being solid rubber. Furnished in two sizes. Ship. wt., 8 1/2 lbs. per pair.

- | | |
|---------------------------------------|--------|
| 60C3180—Size, 28x1 1/2. Per Pair..... | \$7.25 |
| 60C3181—Size, 28x1 1/2. Each..... | 3.65 |
| 60C3185—Size, 28x1 1/8. Per Pair..... | 7.85 |
| 60C3186—Size, 28x1 1/8. Each..... | 3.95 |

\$3.65
EACH

Double Clinch Tires and Inner Tubes

Quality alone has kept these tires constantly before the public for years. Have red tread and gray side walls. Will also fit single clinch Clincher rims. Ship. wt., each 3 1/2 lbs.

- | | |
|-------------------------------------|--------|
| G. & J. Outer Casing Only. | \$3.85 |
| 60C3165—Size, 28x1 1/2. Each..... | 3.85 |
| 60C3167—Size, 28x1 1/8. Each..... | 4.15 |
| Extra Heavy Tread G. & J. Casing. | \$4.15 |
| 60C3170—Size, 28x1 1/2. Each..... | 4.15 |
| 60C3171—Size, 28x1 1/8. Each..... | 4.15 |
| Ship. wt., 5 1/2 lbs. | |
| G. & J. Endless Inner Tube | \$1.30 |
| 60C3175—Size, 28x1 1/2. Each..... | 1.30 |
| 60C3177—Size, 28x1 1/8. Each..... | 1.30 |
| Shipping weight, each, about 10 oz. | |

\$3.85
Each

Runabout Tires

They are well made of good quality, selected rubber and cotton tire fabric. They are single tube tires, for the cement type rim. We strongly urge you to purchase our Majestic Tire, our Riverside or the Hercules Giant Tire. If, however, you desire a lower price tire we recommend these, for they will give you good service for the price we ask. Furnished in two sizes, 28x1 1/2 or 28x1 3/8. Ship. wt., per pair, 4 1/2 lbs.

- | | |
|---------------------------------------|--------|
| 60C3190—Size, 28x1 1/2. Per Pair..... | \$4.35 |
| 60C3191—Size, 28x1 1/2. Each..... | 2.20 |
| 60C3195—Size, 28x1 1/8. Per Pair..... | 4.45 |
| 60C3196—Size, 28x1 1/8. Each..... | 2.50 |

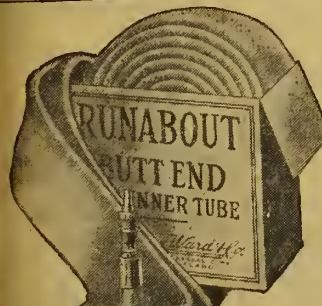
\$2.20
EACH

Riverside Tires

The use of our Riverside Tires is becoming more popular each day. To obtain nearly absolute freedom from tire trouble you can do no better than to fit your bicycle with a pair of Riversides. The use of two layers of tough motor-cycle fabric makes these tires long lasting. The tread is an unique design which appears very attractive on the wheel and has a tendency to cling to wet pavements, thus avoiding all possibility of skidding. The air tube is of heavy gauge rubber. This special construction acts as a check against objects which would naturally puncture the usual tire. They are made in single tube type only, which are cemented on the regular crescent rim. Furnished in three color treads, red, white and black, with white side walls. 28 inch size. Ship. wt., per pair, 6 lbs.

- | | |
|-----------------------------------|--------|
| 60C3135—Red Tread Per Pair..... | \$6.35 |
| 60C3136—Red Tread Each..... | 3.20 |
| 60C3139—White Tread Per Pair..... | \$6.25 |
| 60C3140—White Tread Each..... | 3.15 |
| 60C3145—Black Tread Per Pair..... | \$6.15 |
| 60C3146—Black Tread Each..... | \$3.10 |

\$3.10
Each



Butt End Inner Tubes

A popular priced guaranteed tube of excellent construction. Made of good quality heavy gauge gray rubber by skilled workmen and will not fly out nor crack readily with age. This tube is considered a practical one and will give excellent service considering the price. Shipping weight, 10 oz.

- | | |
|--------------------------------|------|
| 60C3306—28x1 1/2 in. Each..... | .85c |
|--------------------------------|------|

INNER TUBES

For All Makes of Bicycle Tires



Riverside Red Inner Tubes

Hand made and always sent to you fresh and snappy. Each tube inspected and vulcanized correctly. Two styles, butt end or endless style. Will fit either 28x1 1/2 or 28x1 1/8 in. size tires. Ship. wt., 10 oz.

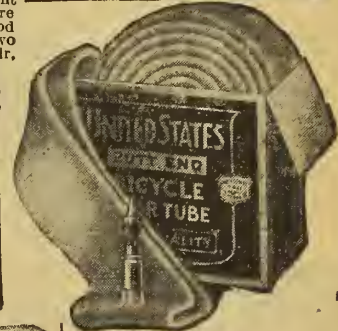
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|-----------------------------------|--------|
| 60C3302—Butt End Style. Each..... | \$1.20 |
| 60C3303—Endless Style. Each..... | 1.30 |



Endless Inner Tubes

Made of new gray rubber that is live and of high quality. The vulcanizing is scientifically done in such a way as to combine the greatest amount of elasticity with strength. These tubes are made for clincher rims. Ship. wt., about 10 oz.

- | | |
|---|--------|
| 60C3310—Size, 28x1 1/2 or 1 1/8 inch tires. | \$1.05 |
|---|--------|



U.S. Butt End Inner Tubes

\$1.40 EACH
Manufacturer's No. 1 Quality. A product that has been on the market for many years, and we recommend these tubes to give as good service as can be had. Made of high grade rubber that gives the greatest efficiency. Made only in Butt End style. Ship. wt., 10 oz.

- | | | |
|----------------------------------|-----------|--------|
| 60C3314—For 28x1 1/2 inch tires. | Each..... | \$1.40 |
| 60C3315—For 28x1 1/8 inch tires. | Each..... | 1.45 |

Bicycle Lamps, Horns, Pedals, Carriers and Supplies

Solar Gas Lamp

Complete with Bracket

Throws a bright light about 150 feet. Flame can be turned up or down by regulating water supply to carbide. Good quality, nickel plated metal, will not rust. Double convex bull's eye lens, diameter, 2 1/2 in. Brackets can be attached as shown in illustration.

\$4.15

To extension handle bar stems only as Total height, 7 inches. Shipping weight, 2 1/2 lbs.

60C3545—Price, each, \$4.15

Liberty Model Bicycle Gas Lamp

New design gas lamp. Throws a light at the side as well as straight ahead. Brass finely nickel-plated, except bracket. Needle valve operated by small adjustment at top regulates water flow thus controlling the volume of light. Three inch convex front lens. Furnished with bracket like Solar lamp.

\$2.65

60C3545. Total height, 6 in. Ship. wt., about 2 lbs.

60C3550—Price, each, \$2.65

Searchlight Gas Lamp

True to its name, it throws the light a long distance on the road. Best quality metal, nickel plated. Will not rust. Silver plated parabolic reflector and powerful polished lens. Has 2 1/2 in. convex bull's eye removable lens, protected reflector, red and green side lights, and water reservoir. Height, 8 in. Ship. wt., 2 1/2 lbs.

\$3.40

60C3548—Price, each, \$3.40

Leader Oil Lamp

This oil lamp is very popular. Gives steady light. Burns about 10 hours on one filling. Will not sputter out. 2 1/2 inch plain convex lens. Green and ruby jeweled side lens. Full nickel plated. Height, 5 1/2 inches. Ship. wt., about 1 lb.

\$1.20

60C3532—Price, each, \$1.20

Calcium Carbide—Not Mailable

To be used with bicycle and motorcycle gas lamps. Gives a clear, bright light on contact with water. 2-lb. can. Ship. wt., 2 1/2 lbs.

60C8796—Price, each, \$3.50

Veeder Trip and Total Mileage Cyclometer

This cyclometer has the same good features as the Veeder 10,000 mile, with the trip added. Registers the trip and total mileage at the same time on two separate dials. This gives you an easy record for checking up a day's run, etc. For 28-inch wheels. Ship. wt., 6 oz.

\$2.45

60C3626—Price, each, \$2.45

New Departure Cyclometer For 28-inch wheels only.

An absolutely accurate, excellently made, low priced cyclometer. Registers 10,000 miles, then repeats. Shows tenths of miles. Silver color dial, black numbers. Attaches to front axle. Shipping weight, 5 oz.

60C3630—Price, each, \$0.95

Repair Forks

Made to fit any size bicycle, whether 20, 22 or 24-inch frame. They are made from the best steel tubing, with three plate crown. Full nickel plated. Carefully constructed, and very strong. Stems are 9 inches long, 6 inches of which are threaded. Can be easily cut off to the required length, with a back saw or file. Diameter of stem, 1 inch; threaded 24 threads to inch. This is standard size. Will fit all makes and models of bicycles. Ship. wt., 2 1/2 pounds.

60C3432—Price, each, \$2.95

Bicycle Baskets

Small package carrier. Handy for lunches. Will fit any bicycle head and is held securely by straps. Simple to adjust, basket always carries level. Ship. wt., 2 1/2 lbs.

60C3420—Price, each, \$0.85

60C3421—Price, each, \$0.95

60C3422—Price, each, \$1.15

Heavy Service Package Carrier for All Bikes

Will carry heavy packages, without sag. Strong, adjustable, galvanized finish—will not rust. Three sizes. Carrier complete with front supporting fork and straps. Ship. wt., each, about 6 lbs.

60C3401—Price, each, \$1.85

60C3402—Price, each, \$1.95

60C3403—Price, each, \$2.25

Loud Tone Bicycle Hand Horn

A turn of the crank gives a loud penetrating tone. Complete for attaching. Ship. wt., 1/2 lb.

60C3575—Price, each, \$0.22c

Steel Toe Clip

Fine quality spring steel, polished and nickel plated to fit 60C3601 3001 style pedals. Makes pedaling easy and smooth. Ship. wt., 4 oz.

60C3720—Price, pair, \$0.20c

Trouser Guard

This alarm is fastened to side of fork at a point where the small roller is just above the tire. By pulling the string, the roller is revolved at a high speed which produces a whistling sound and carries for quite a long distance. Will not work ahead of fork. Nickel plated and polished. Ship. wt., 1 lb.

60C3615—Price, each, \$0.83c

Aluminum Enamel

Ready for use and easily applied. It gives a permanent finish to rusty bicycles, spokes or rims and other metal work. Is washable and lasting. Put up in 1/2-pint cans. Shipping weight, 12 ounces.

60C3782—Price, per can, \$0.25c

Mud Guards

Complete with braces and protector flap, as illustrated. Should be on every wheel. Light in weight and add greatly to the appearance of a bicycle. Will not rattle if nuts are kept tight. Plain black. Ship. wt., about 4 lbs.

60C3395—Price, pair, \$0.80c

Corrugated Steel Mud Guard

Complete with braces and protector flap, as illustrated. Should be on every wheel. Light in weight and add greatly to the appearance of a bicycle. Will not rattle if nuts are kept tight. Plain black. Ship. wt., about 4 lbs.

60C3395—Price, pair, \$0.80c

Deep Mud Guard

Fit any bicycle with 28-inch wheels. Wide deep center, drop side steel mud guards similar to those used on most expensive Motorbikes. Not only improves appearance of bicycle but gives you full protection against dirt or slush flying from tires. Front guard fitted with flap. Ship. wt., about 4 1/2 lbs.

60C3393—Price, per pair, \$1.35

Carrier and Stand

Will stand the most severe usage. Basket is 18x12x4 in. Made of flat bar iron, hand riveted. Fits any 28-inch bicycle wheel without the slightest adjustment. Stand is 12 inches wide, thus insuring safety from the wheel falling over when carrier is loaded. Stand folds back when riding. Black enamel finish. Shipping weight, 9 lbs.

60C3390—Price, each, \$2.85

Delta Single Cell Electric Light Outfit

This electric lamp is one of the most desirable articles you add to your bicycle. A snap of the switch operates light—no lig around—no trouble. Only one regular dry cell needed. V satisfactorily under all kinds of weather conditions. Lamp fits under handle bars. Battery container fastens to frame. 1 3/4 inch bulb's eye. Ship. wt., 3 lbs. Price does not include battery.

60C3540—Price, each, \$1.75

Presto Electric Light Outfit

Lamp is nickel plated, fastens securely to the handle bars. Battery container finished in black and is just large enough to carry one regular 2 1/2 x 6 dry cell. Battery not included. Shipping weight, about 1 1/2 lbs.

60C3535—Price, each, \$1.15

American Ignitor Dry Battery

60C3501—American 2 1/2 x 6 inch Ignitor Dry Battery. Av initial ampere, 25 to 30 amperes. Ship. wt., each, 3 lbs.

Rubber Pedals

Large, corrugated rubbers prevent slipping and are easy on shoes. Extra big ball cups and bearings. Sold only in pairs. Shipping weight, per pair, about 1 1/2 lbs.

60C3590—Price, pair, \$1.35

English Style Wide Pedals

Strongly made. Measure 3 1/2 inches across foot rests. Polished and nickel plated. Ship. wt., 1 1/2 pounds.

60C3599—Price, pair, \$1.15

Good Pedal

A splendid low-priced pedal. Nickel and highly polished. Ship. wt., 1 1/2 lbs.

60C3601—Price, pair, \$0.95c

Bicycle Repair Crank Hanger

This outfit is complete so that the new equipment will run as smoothly and freely as the hanger that originally came with your bicycle. This repair hanger can be easily put on any bicycle that was originally fitted with a one-piece hanger. The sprocket is standard size, 26 tooth and takes a regular 3/8-inch width by 1-inch pitch chain. Complete set ball bearings, with cups, cones and bushings furnished. The crank hanger is of high-grade drop forged steel, accurately made and finely finished. With this entire outfit, you can easily and quickly equip your bicycle with an up-to-date repair hanger that will run smoothly and give entire satisfaction. Shipping weight, about 4 1/2 lbs.

60C3875—Price, each, \$4.15

Handy Oiler

Does not leak. Slope towards the end makes the oil flow thin and easily. Dust cannot reach the oil. Ship. wt., 1 oz.

60C3922—Price, each, \$0.12c

Carrier and Cushion

Made of 1/2-in. flat steel. Reinforced by steel cross piece. Length, 17 1/2 in. Width, 7 in. Weight, 1 1/2 lbs. Enamelled black. Cushion made to fit carrier. Easily attached and taken off. Soft cushion padding covered with black artificial leather. Size, 6x14 inches. Shipping weight, each, 2 1/2 pounds.

60C3410—Price, each, \$0.60c

60C3412—Price, each, \$0.90c

Bicycle Lock with Chain

Nickel-plated Bicycle Lock and substantial Steel Chain. Ship. weight, 2 ounces.

60C3653—Price, each, \$0.23c

Bicycle Saddles—Handle Bars—Pumps and Supplies




Troxel Motobike Bicycle Saddle
\$3.25

Comfort is certain to the rider who has his bicycle equipped with this big, carefully hair-padded leather top saddle. The numerous coil springs absorb the jolts and jars, as they work very freely. This model is copied after the lines of the finest motorcycle saddles. The seat is about 11 inches long and 8 1/2 inches wide. Fitted with adjustable attaching clamp. Shipping weight, 6 pounds.
60C3460—Price, each.....\$3.25



Troxel Top Notch Saddles
\$2.45

Wide comfortable leather seat. Real flexible, easy riding compound springs held in position by special brace. Length, about 9 1/2 inches. Width, about 7 1/2 inches. Shipping weight, about 4 1/2 lbs.
60C3469—Price, each.....\$2.45



Troxel Tip Top Saddle
\$2.30

This is one of the most popular Troxei models. Light in weight but the design permits of great flexibility. Seat of fine black leather. Length, about 10 inches. Width, 7 1/2 inches. Fitted with adjustable compound spring. Spring works easily and freely. Shipping weight, about 5 lbs.
60C3464.....\$2.30



Troxel Women's Saddle
\$2.55

A new model Troxei saddle designed especially for women. Has a short nose with new nose spring and extra broad top insuring comfortable riding. Exceptionally fine leather top. Spiral springs and truss. Adjustable clamp. Length of top, 8 1/2 inches. Width, 7 1/2 inches. Shipping weight, about 4 1/2 lbs.
60C3457—Price.....\$2.55



Troxel Coil Spring Saddle
\$2.10

Universal double coil spring saddle that will carry you over rough roads real comfortably. Truss and spring black enameled. Best grade leather. Length, 10 1/2 inches; width, 8 inches. A reasonably priced coil spring saddle that will give very satisfactory service. Shipping weight, 2 lbs.
60C3468—Price.....\$2.10



Troxel Low-Priced Saddle
\$1.95

Leather top over shapely frame. Length, about 9 1/2 inches; width, 7 1/2 inches. Shipping weight, about 4 1/2 lbs.
60C3475—Each.....95c



Troxel Rubber Cement
28c

Safe to handle, non-explosive. Excellent quality. For patching or repairing double tube tires.
60C3738—1/4 pint size, contents about 8 oz. Ship. wt., 1 lb. Price each.....28c
60C3740—1/2 pint size, contents about 4 oz. Ship. wt., 8 oz. Price, each.....15c
 Furnished in tubes.
60C3742—Tubes 6x1 inches. Two tubes, ship. weight, about 8 oz., for.....19c
60C3743—Tubes 4x1 inches. Two tubes, ship. weight, about 6 oz., for.....15c




Troxel Bicycle Roller Chain
\$2.85

Runs smoothly and quietly. Best quality and finish. For 3/16 inch sprockets. 1-inch pitch. Standard length. Ship. wt. 1 1/2 lbs.
60C3861—Price.....\$2.85



Troxel Chain Adjuster
9c

Made of stamped steel. Permits setting rear wheel back to proper chain adjustment. Nickel plated. Shipping weight, ounces.
60C3868—Per pair.....9c



Shelby Motobike Bar
\$2.90

Unquestionably the strongest, neatest appearing handle bar made. Reinforced by cross-bar. Nickel plated. Width, about 21 inches. Extension type. Steel expander stem. Grips not included. Shipping weight, about 4 pounds.
60C3445.....\$2.90



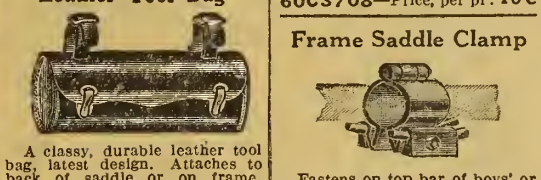
Extension Handle Bar
\$1.35

Width, 22 inches. 2 1/4-inch extension, internal expander. No grips included. Ship. wt., 2 lbs.
60C3442.....\$1.35



Rubber Grips
15c

Reinforced with wire netting. Fit any 1/2 standard bar. Length, 6 inches. Shipping weight, 8 oz. Two colors: red and black. 4 oz.
60C3700—Black, per pair.....15c
60C3703—Red, per pair.....5c



Leather Tool Bag
50c

A classy, durable leather tool bag, latest design. Attaches to back of saddle or on frame. Ship. wt., 6 ounces.
60C3572—Price, each.....50c




Suspension Spring
95c

For any wood base saddle. Front adjustable. Shipping weight, about 2 1/2 lbs.
60C3483—Each.....95c




Saddle Spring
80c

Perfection Spring Steel. Will fit any wood base bicycle saddle. Ship. wt., about 2 1/4 lbs.
60C3481—Price.....80c



Hawthorn Tire Puncture Solution
23c

For mending old leaky, porous or punctured bicycle tires. Stops punctures perfectly and does not dry up. Is not affected by cold or heat. Will not clog or injure the valve. Very simple to apply. One tube is sufficient for one tire. Size of tube, 1 1/2 x 6 inches. Shipping weight, each, 10 oz.
60C3760.....18c
60C3762—Price for two tubes.....33c



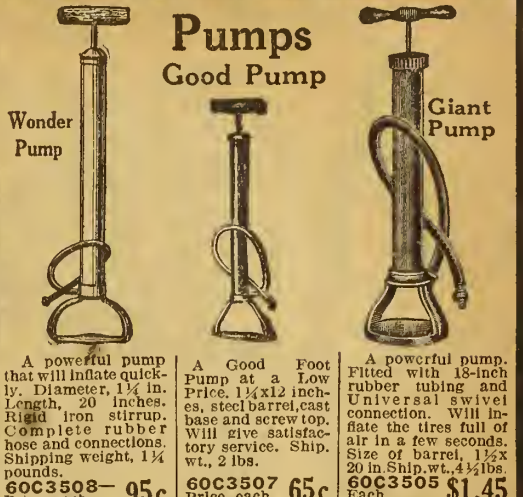
Steel Balls

Article No.	Shp. wt. per Doz.	Price Size 2 Doz.
60C3925	1 oz.	5c
60C3926	1 oz.	7c
60C3927	2 oz.	9c
60C3928	3 oz.	13c
60C3929	3 oz.	15c
60C3930	4 oz.	20c



Axle Nuts
6c

Standard size nickel-plated hexagon bicycle nuts. Have 24 threads to inch. Ship. wt., 2 oz.
60C3905—For 1/2 axles.....6c
60C3906—For 3/8 axles.....6c
60C3907—For 7/8 axles.....8c



Pumps
Good Pump

Wonder Pump
95c


A powerful pump that will inflate quickly. Diameter, 1 1/4 in. Length, 20 inches. Rigid iron stirrup. Complete rubber hose and connections. Shipping weight, 1 1/4 pounds.
60C3508—95c
 Price, each.....95c

Good Pump
65c

A Good Foot Pump at a Low Price. 1 1/4 x 12 inches, steel barrel, cast base and screw top. Will give satisfactory service. Ship. wt., 2 lbs.
60C3507 65c
 Price, each.....65c

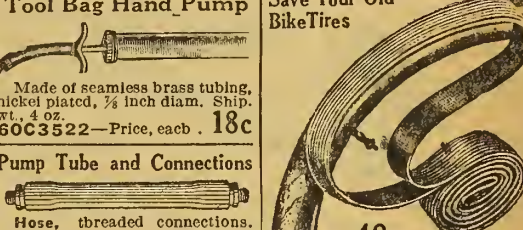
Giant Pump
\$1.45

A powerful pump. Fitted with 18-inch rubber tubing and Universal swivel connection. Will inflate the tires full of air in a few seconds. Size of barrel, 1 1/2 x 20 in. Ship. wt., 4 1/2 lbs.
60C3505 \$1.45
 Each.....\$1.45



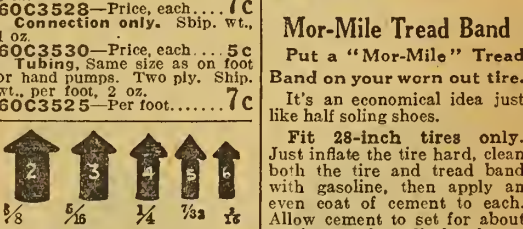
Frame Pump
52c

Powerful as a foot pump; made of seamless brass tubing, nickel plated. Will not rust. Size, 1 1/4 x 11 in. Furnished with clip to fit all bicycles. Ship. wt., 7 oz.
60C3518—Price, each.....52c



Tool Bag Hand Pump
7c

Made of seamless brass tubing, nickel plated, 3/8 inch diam. Ship. wt., 4 oz.
60C3522—Price, each.....7c



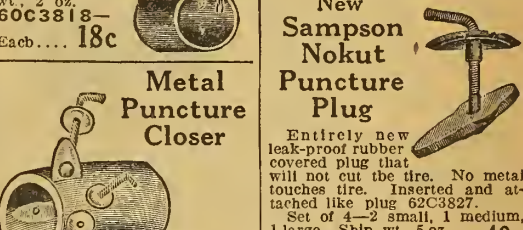
Pump Tube and Connections
7c

Hose, threaded connections. About 3 inches long. Ship. wt., 3 oz.
60C3528—Price, each.....7c
 Connection only. Ship. wt., 1 oz.
60C3530—Price, each.....5c
 Tubing, Same size as on foot or hand pumps. Two ply. Ship. wt., per foot, 2 oz.
60C3525—Per foot.....7c



Tire Repair Plugs
20c

Plugs for repairing single tube tires. Assorted sizes. Ship. wt., 1 oz.
60C3823—Per dozen.....20c



Tire Repair Tool
18c

For repairing single tube tires. Put sufficient rubber bands on tool to fill puncture, cover with rubber cement and insert; release the catch and withdraw the tool. Ship. wt., 2 oz.
60C3818—Each....18c



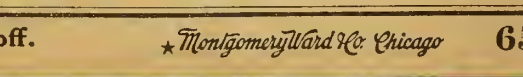
Metal Puncture Closer
30c

Will effectively close cuts or holes in single tube tires or outer casings. Furnished in set of 4 containing assorted sizes; two small—one medium—one large. Ship. wt., 4 oz.
60C3827—Set of 4.....30c




3 in 1 Oil
13c

For guns, rifles, revolvers, reels, sewing machines, clocks, bicycles, woodwork, etc. 1 oz. bottle. Ship. wt., 10 oz.
60C2032.....13c
60C2033—3 oz. bottle. Ship. wt., 15 oz. Each.....23c
60C2035—Large factory size holds 1/2 pint or 8 oz. of oil. Ship. wt., about 32 oz. Each.....45c



Hubs
90c

Have 32 holes front and 36 holes rear. Ship. wt., about 1 1/2 and 2 1/4 lbs.
60C3377—Front Hub.....90c
60C3378—Rear Hub \$1.95



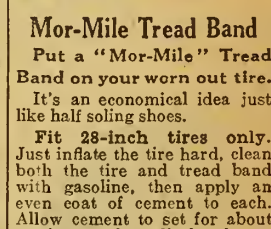
Large Size Frame Tire Pump
\$1.15

Made of seamless brass tubing, nickel plated. Large diameter. Will inflate tires exceptionally fast for this type of pump. Length, when closed, 15 inches. Double fasteners prevent rattling. Shipping weight, 1 1/4 lbs.
60C3515—Price.....\$1.15



Mor-Mile Tread Band
48c

Put a "Mor-Mile" Tread Band on your worn out tire. It's an economical idea just like half soling shoes. Fit 28-inch tires only. Just inflate the tire hard, clean both the tire and tread band with gasoline, then apply an even coat of cement to each. Allow cement to set for about 5 minutes, then slip band over tire and the job is completed. Ship. wt., 7 oz.
60C3295—Price, each 48c



Tire Tape
25c

Most necessary in your bike needs. Thin as paper; extra strong. Weight, about 4 ounces each. Ship. wt., about 5 oz.
60C3735—Price, each.....25c



New Sampson Nokut Puncture Plug
40c

Entirely new leak-proof rubber covered plug that will not cut the tire. No metal touches tire. Inserted and attached like plug 62C3827. Set of 4—2 small, 1 medium, 1 large. Ship. wt., 5 oz.
60C3820—Set of 4.....40c



New Departure Coaster Brake
\$4.90

The New Departure Coaster Brake has been used as regular equipment on Hawthorne Bicycles for many years and we have found it exceptionally reliable under all conditions of service. We can furnish the New Departure Coaster Brake drilled for 28 or 36 spokes with 8, 9 or 10-tooth sprockets for 3/16 by 1 inch pitch chain. Be sure to specify number of spokes and size of sprockets. Unless otherwise instructed we will furnish a hub for 36 spokes, with a 9-tooth sprocket, for a 1-inch pitch chain. Shipping weight, 3 pounds
60C3370—Brake and 1 1/2 inch hub only. Price.....\$4.90

Bicycle Rims and Wheels

Bicycle Wheels



Rims of high-grade rock maple. Complete with hub and axle ready to set into forks. Spokes are nickel-plated and very strong. Hubs are fine quality nickel-plated steel highly polished. The best of steel bearings, extra hardened cups, and cones are used. Rear wheels will be fitted with 9-tooth sprocket for one-inch pitch chain, 3/4-inch wide on both plain hubs and coaster brakes unless otherwise specified. Average ship. wt., 3 1/2 lbs., with regular hubs; 4 1/2 lbs. with coaster brake.

Wheels With Natural Finish Rims—For 28-inch Cement Type Tires			
60C3205	—Front, Each		\$4.35
60C3206	—Rear, Each		5.25
60C3207	—With New Departure Brake, Each		8.85
For 24-inch Cement Type Tires			
60C3210	—Front, Each		\$4.35
60C3211	—Rear, Each		5.25
60C3212	—With New Departure Brake, Each		8.85
For 26-inch Cement Type Tires			
60C3215	—Front, Each		\$4.35
60C3216	—Rear, Each		5.25
60C3217	—With New Departure Brake, Each		8.85
Wheels With Black Rims, Red Center—For 28-inch Cement Type Tires			
60C3220	—Front, Each		\$4.50
60C3221	—Rear, Each		5.40
60C3222	—With New Departure Brake, Each		9.00
Wheels With Aluminum Finished Rims—For 28-inch Cement Type Tires			
60C3225	—Front, Each		\$4.50
60C3226	—Rear, Each		5.40
60C3227	—With New Departure Brake, Each		9.00
Wheels With G. & J. Double Clinch Wood Rims for 28-inch Tires—Natural Finish Rims			
60C3230	—Front, Each		\$4.50
60C3231	—Rear, Each		5.40
60C3232	—With New Departure Brake, Each		9.00
Wheels With Metal Lined Clincher Rims—For 28-inch Single or Double Clincher Tires—Natural Finish Rims			
60C3235	—Front, Each		\$4.60
60C3236	—Rear, Each		5.50
60C3237	—With New Departure Brake, Each		9.10
Black Rims with Red Center			
60C3240	—Front, Each		\$4.75
60C3241	—Rear, Each		5.65
60C3243	—With New Departure Brake, Each		9.25
Aluminum Finished Rims			
60C3245	—Front, Each		\$4.75
60C3246	—Rear, Each		5.65
60C3247	—With New Departure Brake, Each		9.25

Bicycle Wood Rims

Made from one-piece high-grade, selected and seasoned rock maple and elm. Finely finished. For 28-inch wheels only. Ship. wt., about 1 1/2 pounds.

For 28-inch Cement Type Tires Only

Art. No.	Drilled	Finish	Each
60C3250	32 holes	Natural	\$1.10
60C3251	36 holes	Natural	1.15
60C3252	36 holes	Black with red center	1.23
60C3253	36 holes	Black with red center	1.23
60C3254	32 holes	Aluminum color finish	1.23
60C3255	36 holes	Aluminum color finish	1.23

Juvenile Sizes Cement Type Only

Wheels	Art. No.	Drilled	Finish	Each
24-inch	60C3275	28 Holes	Natural	\$1.10
26-inch	60C3276	28 Holes	Natural	1.10

Metal Lined Clincher Wood Rims

These are excellent quality rims suitable for nearly all climates. Used as standard equipment on many fine bicycles. Ship. wt., 3 1/2 lbs. For 28-inch clincher tires. Each

60C3260	—Drilled 32 holes. Natural finish	\$1.55
60C3261	—Drilled 36 holes. Natural finish	1.55
60C3262	—Drilled 32 holes. Black with red center	1.65
60C3263	—Drilled 36 holes. Black with red center	1.65
60C3264	—Drilled 32 holes. Aluminum color finish	1.65
60C3265	—Drilled 36 holes. Aluminum color finish	1.65

G. & J. Style Wood Rims

For 28-inch Clincher tires. G. & J. style rims are very popular due to the ease of removing the tire which they permit. All that is necessary when a puncture occurs is to remove one side and pull out tube for repairing. Ship. wt., 1 1/2 lbs.

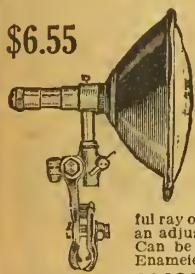
60C3270	—Drilled 32 holes. Natural fin. only	\$1.30
60C3271	—Drilled 36 holes. Natural fin. only	1.30

MOTORCYCLE



SUPPLIES

\$6.55

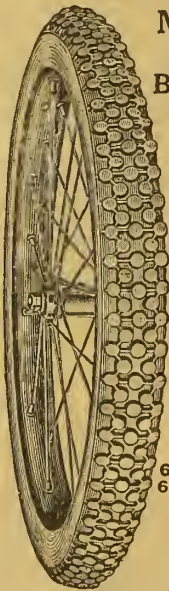


Kaufman Silverbeam Motorcycle Electric Headlight

Used by Famous Riders on Record Breaking Runs

When using this spot light you can hit it up at the same speed at night as you do in daylight. Its piercing glare is insurance against hitting ruts and jagged rocks. The most dependable and attractive motorcycle lamp obtainable. Has a heavy convex lens which centers a strong powerful ray of light just where you want it. Equipped with an adjustable bracket which will fit any motorcycle. Can be easily detached and used as trouble light. Enamelled back with nickel rim and bracket.

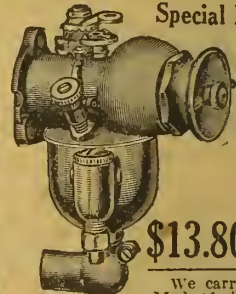
60C3558—Headlight fitted with 6-8-volt, 30 C. P. Nitrogen Bulb, for use with 6-volt battery. Price, each.....\$6.55



Motorcycle Tires Big Stud—Heavy Tread

These motorcycle tires have giant studs that always grip the road with such a strong hold that you'll doubly appreciate the way your machine will cover muddy roads and slippery pavements. Then there's the thick surface of the sturdy tread built over an under structure of toughest motorcycle fabric saturated with rubber compound under pressure. These tires are sure to give you surprisingly high mileage at a low cost, which features we know will please you. When used with Red Inner Tubes listed below you have a combination practically unbeatable. Shipping weight, per tire, about 8 1/2 to 10 lbs.

60C3200—Casing, Size, 26x2 1/4 \$9.35
60C3202—Casing, Size, 28x3 15.25



Special Model H Schebler Carburetor for Indian Twin Motorbike

Special Model for Indian T. Motorcycles, 7 H. P. 1911, 1912, 1914 and 1915 with 1-inch connect. The gasoline flow for high speed controlled by L-shaped lever, which rolls on a cam. This cam in turn also adjustable, thus making it possible to obtain an absolutely perfect adjustment of air and gasoline for speeds. Shipping weight, 4 lbs.

60C3568—Special Indian Model, complete with manifold fitting.....\$13.80

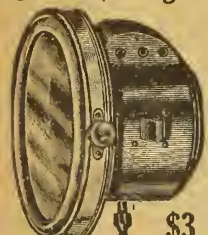
We carry an extensive line of Piston Rings Made of close-grained, springy gray metal. Reduces friction. Furnished in following sizes for popular makes.

Be sure to specify make of machine and size, when ordering. Weight, 3 oz.

60C3983	—Excelsior, 3 1/2 x 3/16 in.	23c
60C3986	—Excelsior, 3 1/2 x 3/16 in.	23c
60C3987	—Excelsior, Indian, Thor, 3 1/2 x 3/16 in.	23c
60C3988	—Excelsior, 3 1/2 x 3/16 in.	23c
60C3989	—Harley, 3 x 3/16 in.	23c
60C3990	—Indian, 2 3/4 x 3/16 in.	23c
60C3992	—Indian, 2 3/4 x 3/16 in.	23c
60C3993	—Merkel, 3 1/2 x 3/16 in.	23c
60C3994	—Merkel, 3 1/2 x 3/16 in.	23c
60C3995	—Thor, 3 1/2 x 3/16 in.	23c

Piston Rings 23c each

Gas Headlight



One-piece construction Riveted throughout. Fitted with a beveled silvered reflector, which throws the light on both sides of the road. Has large ground glass main lens mirror reflector. Used with carbide generator shown on this page. Diameter of door, 8 inches. Finely finished. Ship. wt., 6 1/2 lbs. Price, each.....\$3.15

60C3555—Price.....\$3.15

Sunbeam Electric Headlight



An up-to-the-minute electric lamp finished in full nickel. Throws a bright light far ahead on the road. 6-volt 10 C. P. bulb. Front diameter, 6 inches. Width between props, 5 1/2 inches. Ship. wt., 3 lbs.

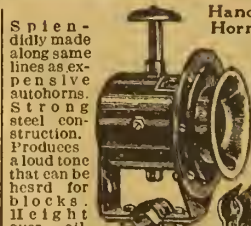
60C3552—Each.....\$3.90



Motorcycle Coil

Equipped with plug switch and to 18-in. primary leads, also one 18-in. secondary lead. Enclosed in a polished fibre case. Size of case, 2 1/2 x 6 in. Ship. wt., 2 1/2 lbs.

60C3565—Price.....\$3.45



Hand Horn

Splendidly made along same lines as expensive automobiles. Strong steel construction. Produces a loud tone that can be heard for blocks. Height over all, 6 1/2 in. Diameter of bell, 3 1/4 in. Ship. wt., about 3 1/4 lbs.

60C3584—Price, Each \$2.55

Veeder Trip Cyclometer

Genuine Veeder with 10,000-mile season register and special trip register. Water and dust proof. Ship. wt., 6 oz.

60C3632—For Motorcycles where the front wheel sets in front of fork, such as Indian, Pope, etc. Price.....\$3.30

60C3635—For Motorcycles where the front wheel sets in front of fork, such as Indian, Reading Standard, etc. Price.....\$3.65

Motorcycle Mica Spark Plug

A heavy mica core wound on a taper rod forms the basis of its construction. Mica washers over this core pressed together under heavy power forms an outside protection, preventing the plug from becoming oil soaked. Shipping weight, 3 ounces.

60C3980—Metric size.....85c
60C3981—1/2-in. size.....85c
60C3982—3/4-in. size.....95c

Motorcycle Lock

Detachable shaft. Makes it easy to Shackle, 7 inches long. Will easily lock thru wheel and fork. Hardened steel. Shipping weight, 1 lb.

60C3660—Price, each.....95c

Pedal Rubbers

A motorcycle pedal repair rubber. Checkered, with hole through center. Ship. wt., 14 oz.

60C3603—Per set of four 28c

Motorcycle Roller Chain

Sizes, 3/8-in. pitch, width 1/2 in., and 5/8-in. pitch, width 3/4 in. Ship. wt. per ft., 12 oz.

60C3954—5/8x1/2 inch.....70c
60C3956—5/8x3/8 inch.....80c

Gas Lamp Tip

Strong metal base. Fits any standard lamp. Burns 3/8 foot gas per hour. Ship. wt., 2 oz.

60C3937—Each.....14c

Gas Generator

Holds 8 ozs. of carbide. Length over all, 8 1/2 inches. Diameter, 3 inches. Full nickel plated. Ship. wt., 2 1/2 lbs.

60C3560—Generator and Adjustable Bracket.....\$4.95

28c Per Pair



60C3730—Pair.....28c

Blow Out Patch

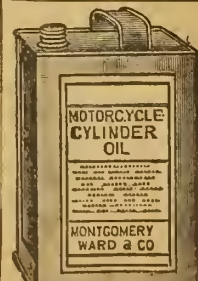
A smooth, well finished white patch with red rubber tips. Approved motorcycle type and construction. Shipping weight, about 6 oz.

60C3310—For 2 1/2 or 2 3/4-inch tires.....25c
60C3351—For 3-inch.....25c

Hawthorne Bicycle Oil

Especially for bicycles. Will not gum or stick. In metal cans with screw cap and spout. Ship. wts., 5 and 9 oz.

60C3972—4-oz. can.....20c
60C3973—8-oz. can.....25c



Runrite Motorcycle Oil

For the Indian type, with force feed. Use No. 1 Motorcycle Oil, a rich, heavy, ruby colored oil, of high fire test. For the Harley-Davidson type, using the splash system of lubrication, we recommend our No. 2 Motorcycle Oil, similar to No. 1, but a free flowing oil of good cold test. Shipping weight of oil, 1-gal. can, about 9 lbs.; 5-gal. can, 40 lbs.

75C7221—No. 1 in 1-gal. can.....\$1.18
175C7222—No. 1 in 5-gal. can.....1.10
75C7226—No. 2 in 1-gal. can.....1.18
175C7227—No. 2 in 5-gal. can.....1.10

FLASHLIGHTS

TRADE
AMERICAN
MARK

\$1.15

\$2.48

Fibre Case Flashlight

Because of its special construction the reflector of this light will throw a bright, broad light a very long distance. Handy to use around the shop, garage or barn. The case is of high grade fibre. Has switch for flash or continuous light. Diameter of reflector, about 2½ inches.

Article No.	Size Inches	Price Complete	Uses Battery	No. Cells	Uses Lamp	Shp. Wt.
63C2013	5½x1¼	\$1.15	63C2201	2	63C2303	18 oz.
63C2016	6¾x1½	1.50	63C2204	2	63C2306	22 oz.
63C2020	9 x1½	1.70	63C2210	3	63C2311	27 oz.

American Flashlights Are the Very Best

American Flashlights are the very highest grade in both workmanship and material. They are furnished in both vulcanized fibre and nickel finish. The fibre cases are made from the best fine grained fibre obtainable and fitted with heavily nickelled brass trimmings. The nickel cases are made from seamless brass tubing, heavily plated, presenting an unusually attractive appearance. Both types are non-short-circuiting, preventing accidental short-circuiting of batteries on contact with metals. All American flashlights are equipped with Mazda Lamps of the latest improved type and reflector of original design which gives the right diffusion of light.

One of the big features of American Tubular Flashlights is the double contact switch, permitting either a flash or continuous light. This contact is a distinct improvement over the ordinary combination push button and permanent switch in that the two contacts work independently of each other, always insuring a positive connection between lamp and battery.

The shock absorber as illustrated in the sectional view is so constructed as to eliminate direct contact between lamp and battery. It protects the base of lamp from breakage caused by ordinary falls or jolts. All tubular flashlights on this page are equipped with a shock absorber with the exception of 63C2021 and 2022.

American Batteries

American flashlight batteries are all of standard size and will fit any make flashlight. They are of the very best quality. Actual tests have shown that on intermittent service they are excelled by none. We guarantee them to equal the burning life of any kind of flashlight battery and we will replace any that are not satisfactory.

When ordering batteries measure the old one and order size required by article number.

Nickel Plated Tungsten Searchlight

Large Broad Lens

This searchlight is equipped with a specially designed, extra large reflector and lens. The brilliant rays of light are thrown a great distance. Especially useful to firemen, policemen, automobilists, motor boat owners, trainmen and others who require a portable light of great power. Case is made of brass, highly nickel plated. Fitted with a parabolic reflector and powerful beveled lens, outside diameter about 3½ inches. Has switch for flash or continuous light.

Article Number	Size Inches	Price Complete	Uses Battery	No. Cells	Uses Lamp	Shp. Wt.
63C2121	1¼x6¾	\$2.48	63C2204	2	63C2306	25 oz.
63C2123	1¼x9	2.80	63C2210	3	63C2311	30 oz.



\$1.98

Tungsten Portable Searchlight

Especially useful to firemen, policemen, automobilists, motor boat owners, trainmen and others who require a portable light of great power. Case is made of heavy vulcanized fibre, fitted with a highly polished parabolic reflector and powerful beveled lens. All metal parts are of brass heavily nickelled. Has switch for flash or continuous light. Outside diameter of lens about 3½ inches.

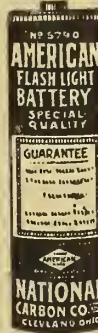
Article Number	Size Inches	Price Complete	Uses Battery	No. Cells	Uses Lamp	Shp. Wt.
63C2021	1¼x6¾	\$1.98	63C2204	2	63C2306	25 oz.
63C2022	1¼x9	2.60	63C2210	3	63C2311	30 oz.

American Tubular Batteries

63C2201—American two-cell battery. No. 5791. Height, 7 in. Diam. 1 in. Fits 1¼x5½ in. Tubular lights. This is same size as Ever-Ready 791, Franco 1029, French 121. Ship. wt., of 3, 15 oz. Three for..... **69c**

63C2204—American two-cell battery. No. 5790. Height, 4¾ in. Diam. 1¾ in. Fits 1½x6¾ in. Tubular lights. This is same size as Ever-Ready 790, Franco 1028, French 221. Ship. wt., of 3, 27 oz. Three for..... **78c**

63C2210—American three-cell battery. No. 5705. Height, 7 in. Diam. 1¾ in. Fits 9 in. Tubular lights. This is same size as Ever-Ready 705, Franco 1027, French 231. Ship. wt., of 3, 45 oz. Three for..... **\$1.14**



Fibre Case Tubular Flashlight

Case of fine, black vulcanized fibre with heavy nickel plated fittings. Has pebbled reflector which throws a bright light without any glare. Cannot short circuit. Switch for flash or continuous light. Complete with battery and Mazda Tungsten Lamp.

Article Number	Size Inches	Price Complete	Uses Battery	No. Cells	Uses Lamp	Shp. Wt.
63C2006	1¼x5½	\$0.98	63C2202	2	63C2202	16 oz.
63C2003	1½x6¾	1.28	63C2205	2	63C2206	18 oz.
63C2010	1½x9	1.50	63C2210	3	63C2211	27 oz.

Vest Pocket Nickel Flashlight

63C2092—Price, complete..... **80c**

A small, compact light. Fits into the vest pocket, or in a lady's purse. Throws a very bright light. Case is of brass, nickel-plated. Size, ½x1¼x3 in. Ship. wt., 6 oz. Fitted with 63C2232 two-cell guaranteed battery and 63C2333 2.5-volt Mazda Tungsten Lamp.

Utility Battery Spotlight

\$2.75



Can be used for a Ford spotlight and trouble light, as a boat light or for general purposes. Throws a light 200 feet and more.

Use it as a spotlight and there is no wiring to be done. Just attach the lamp to windshield and the battery under the seat. As a trouble light it can be detached from windshield and used to illuminate repair work or tire changes.

As a utility lantern it is easily carried around and can be adapted to hundreds of uses. Uses two No. 6 dry cells. Comparatively inexpensive to operate. Switch turns light on and off. Deep parabolic beveled reflector. Four-foot cord. Weight, without batteries, 1½ lbs. Battery container and lamp finished in black enamel.

63C1990	Utility light, less batteries and pedestal, in spot light bracket.....	\$2.75
63C2501	American No. 6 Dry Cell. Wt., 2 lbs. Each.....	39c

American Flat Style Batteries

Shipping wt., of 3, 9 to 12 ounces.

Article Number	No. Cells	Size	Price for Three
63C2230	2	1½x1½x3½	69c
63C2232	2	2¼x1½x6¾	69c
63C2234	2	1½x2¼x3½	90c
63C2236	3	2½x2½x3½	90c



Delta Two-Cell Hand Lantern

\$1.70

This electric lantern is designed and built for continuous hard usage. For use around the farm, on boats, in oil houses, in powder mills, on vehicles of all kinds. Gives a bright, penetrating light at a very low upkeep cost. It will not cause explosions and is absolutely safe under any conditions. Will not blow out or shake out and is dependable and reliable. Case is of heavy drawn japanned steel. Size 7¼x5½x2½ in. Flanged base prevents upsetting. Triple silver-plated reflector; width 3¼ in. Switch to turn light on and off. Weight about 1½ lbs. without batteries.

63C2026—Lantern with 3-volt bulb for use with two No. 6 dry cells. Price, without batteries..... **\$1.70**

63C2028—Lantern with 6-volt bulb and fitted with two No. 6 dry cell batteries, gives a very brilliant light and has wonderful lasting powers. Ship. wt., 8 lbs. Price..... **\$3.10**

See Page 664 for Dry Cell Batteries

Electric Cap Light

63C2081—Complete. **\$2.15**

Price, without battery..... **\$1.70**

Meets the requirements of hunters, miners, engineers, inspectors, and others who need a strong, concentrated light. Can't blow out or cause fires. Permits both hands being free to work. Consists of a reflector with lens, diam. 1¼ in., a battery and a three-foot connecting cord. The battery can be carried in the pocket or laid in any convenient place. The reflector can be attached to the cap or elsewhere by means of the attachment pins. Ship. wt., 3 lbs. Uses bulb 63C2311

63C2240—Extra Battery. Ship. wt., 1 pound..... **49c**

\$1.31

Miners, Nickel Plated Flashlights

The specially constructed reflector of this light enables it to produce a broad, bright light that will light up the way for many feet. Very desirable for hunting, fishing and camping trips. Has switch for flash or continuous light. Diameter of reflector, about 2½ in. Complete with battery and Mazda Tungsten Lamp. Case is of brass in polished nickel finish.

Article Number	Size Inches	Price Complete	Uses Battery	No. Cells	Uses Lamp	Shp. Wt.
63C2108	5½x1¼	\$1.31	63C2201	2	63C2303	18 oz.
63C2055	6¾x1½	1.76	63C2204	2	63C2306	22 oz.
63C2057	9 x1½	1.98	63C2210	3	63C2311	27 oz.



Nickel Plated Flashlights

Very attractive highly polished nickel plated cases. Has pebbled reflector which throws a bright light without any glare. Switch for flash or continuous light. Cannot short circuit.

Article Number	Size Inches	Price Complete	Uses Battery	No. Cells	Uses Lamp	Shp. Wt.
63C2129	5½x1¼	\$1.16	63C2201	2	63C2303	16 oz.
63C2049	6¾x1½	1.39	63C2204	2	63C2306	18 oz.
63C2052	9 x1½	1.69	63C2210	3	63C2311	27 oz.

Mazda Tungsten Lamps

Drawn wire Mazda Tungsten lamps of best quality. Ship. wt., each, 2 oz. Price, each... **\$0.20**

Ten for..... **1.50**

Plain Tipless Lamps

Article Number	Volt-agg	Fits	Dia. In.
63C2301	1.5	Single Cell Lantern.....	¾
63C2303	2.7	2 Cell 1¼x5½ in. Tubular light.....	¾
63C2306	2.9	2 Cell 1½x6¾ in. Tubular light.....	¾
63C2307	3	3 Volt Hand Lanterns.....	¾
63C2309	3.8	Flat Pocket Light.....	¾
63C2311	3.8	Three Cell 1½x9 in. Tubular light.....	¾
63C2313	6.2	Five Cell 1½x13½ in. Tubular light and 6 volt Hand Lanterns.....	1½

Lamps with White Opal Back

Price, each..... **\$0.20**

Ten for..... **1.50**

Order by Article Number.

63C2333—2.5-volt Lamp for two-cell nickel lights.

63C2335—3.5-volt Lamp for three-cell nickel lights.

One-Cell Electric Spotlight

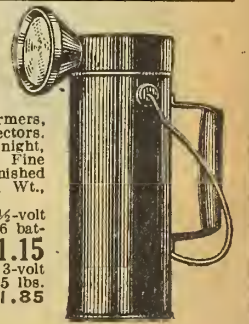
This is one of the most useful lights ever devised for use on a farm.

Throws a brilliant shaft of light 250 to 300 ft. Just the thing for farmers, automobilists, watchmen, and inspectors. Sportsmen use it to spot game at night, deliverymen to spot house numbers. Fine to light up the road at night. Finished in black enamel. Size, about 3x7½ in. Wt., 12 oz. without battery.

63C2034—Lantern fitted with 1½-volt bulb for use with any standard No. 6 battery. Price, without battery..... **\$1.15**

63C2036—Lantern fitted with 3-volt bulb and 3-volt battery. Ship. wt., 5 lbs. Price..... **\$1.85**

See Page 664 for Batteries



Superior Powerlite Electric Plant

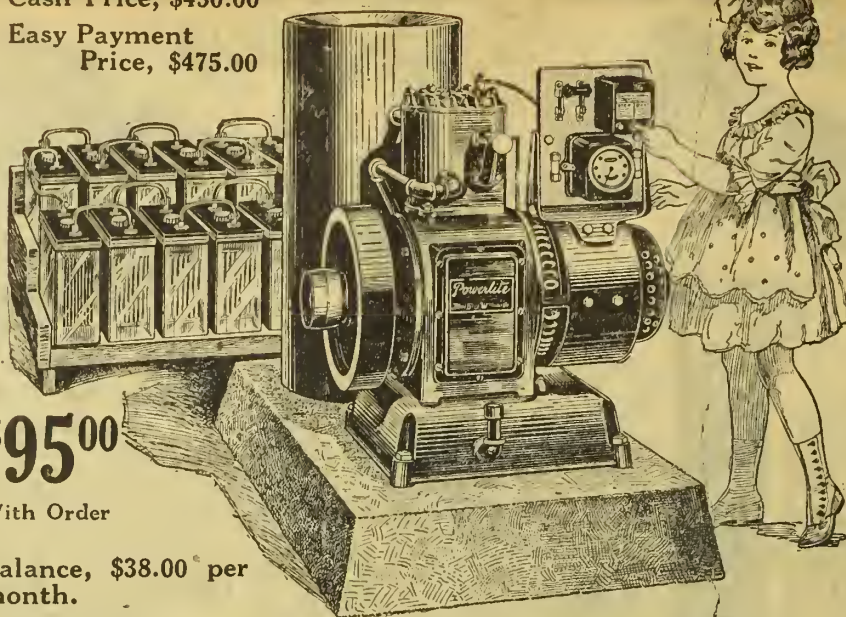
Cash Price, \$450.00
Easy Payment
Price, \$475.00

\$95.00

With Order

Balance, \$38.00 per month.

Large Size Powerlite Unit Electric Plant So Simple a Child Can Operate It



Electric Light and Power on the farm offers the most satisfactory method of lighting from the standpoint of safety and convenience, and provides the house and farm with Electrical Power for running such machines, vacuum cleaners, fans, irons, automatic water supply systems, grindstone, corn shellers, fan mills and many other conveniences which do so much to lessen farm work and really cost very little to operate.

Lights can be snapped on and off instantly in part of the house, barn, workshop or dairy. There are no lamps to fill or chimneys to clean. There is no danger of explosion or fire caused by a match, turned coal oil lamp or lantern.

A Power Light is a Permanent Investment

A Powerlite Plant is a permanent investment which will add much to the value of your farm. From your family will reap rich dividends of convenience, comfort, time and labor saving; satisfaction and joy in the beauty and attractiveness of their home.

Low Operating Cost

This can all be had at comparatively low cost. Fuel and oil will often be less than 50¢ per week depending on how much light and power is used. A gallon of kerosene used in our Powerlite Unit will generate enough electricity to give five times much light as the same amount of fuel will give when burned in a kerosene lamp.

The Powerlite Unit Electric Plant takes up small space, runs quietly and gives off no objectionable gases. Therefore it is the ideal plant to use if installation is to be made in the basement of the house where space is limited and where odors, noise and dirt are objectionable. The generator, engine and switchboard are assembled together on a heavy cast iron base, making a complete unit only 28 inches long, 15 inches wide and 25 inches high.

This plant was designed by engineers who have years of experience in manufacturing farm lighting plants. It is so simple that it will not get out of order easily. It is easily operated and requires but little attention. Will stand hard usage and last indefinitely. In economy of operation it is surpassed by none. While it embodies every worth while present day feature, it has fewer parts than most other plants and is so simplified that anyone with any knowledge of ordinary farm machinery can operate it with the instructions we furnish.

The engine has an air cooled head and a thermo-siphon water cooled cylinder, combining the desirable features of both systems. There is no wasted power driving a fan or a water pump. Head can be easily taken off for grinding the valves or removing the carbon. Water does not need to be disconnected. There is no trouble with gaskets as a new one can be made in a minute or two from an ordinary piece of wrapping paper.

SEMI-AUTOMATIC. This Superior Powerlite Unit Plant is semi-automatic in operation. It starts with the push of a switch, no hand cranking is necessary, and stops automatically when the batteries are fully charged.

LARGE CAPACITY. This plant should not be compared with the smaller plants on the market. It has a large, sturdy ball bearing generator with a normal capacity of 1,000 watts at 1150 R.P.M. and will develop 1,250 watts with a nominal rise in temperature. Generator alone will light 50 20-watt lamp continuously.

POWERLITE STORAGE BATTERY. The storage batteries we furnish with our Powerlite Unit Plant are acknowledged to be equal to the very best batteries of this type on the market. See complete description and guarantee below.

BURNS KEROSENE. The Powerlite Unit Plant Engine has an air cooled head which permits the use of kerosene as fuel without any special adjustment. A few drops of gasoline for priming is all that is necessary for starting. One gallon of kerosene will run it for 3 hours on a charging rate of 18 amperes and will completely charge the 80 ampere hour battery. This makes it equal or superior to any plant on the market in fuel economy.

Easy to Install and Operate

These plants are shipped to you so that they are ready to use when you receive them. The batteries come to you fully charged. Connect up the wires from switchboard to the batteries and house wires and you can then turn on your lights. These few connections are plainly marked so that there is no chance of making them other than correctly. After the plant is set up any member of the family who knows anything about farm machinery can operate it.

An instruction book written in plain terms so that anyone can understand it, is furnished with every plant. You do not have to know anything about electricity to install and operate our Powerlite Plants.

Price on Powerlite Unit Plant Includes:

Complete Engine and Generating Unit, with Switchboard as described in detailed specifications.
Set of 16-Cell Powerlite Storage Batteries. See description below for details.
Necessary Wire to connect switchboard with battery.
Battery Hydrometer. Five extra glass fuses.
Complete Instructions for Installation and Operation.
Blue Print showing how battery rack should be constructed.

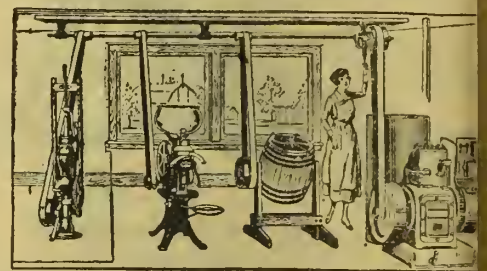
Plant with Large Size Battery

163C166—Powerlite Unit Plant complete with 80 ampere hour 32 volt storage battery. (Intermittent rating 120 ampere hours.) Ship. wt., 925 lbs. If you wish to pay cash in full with order, price is **\$450.00**
Easy Payment Terms are \$95.00 cash with order and \$38.00 per month for 10 months (no interest). **\$475.00**
Total Price.....

Plant with Extra Large Size Battery

163C172—Powerlite Unit Plant complete with 160 ampere hour 32 volt storage battery. (Intermittent rating 240 ampere hours.) Ship. wt., 1,325 lbs. If you wish to pay cash in full with order, price is **\$530.00**
Easy Payment Terms are \$105.00 cash with order and \$45.00 per month for 10 months (no interest). **\$555.00**
Total Price.....

All Parts Shipped Promptly from Stock at Chicago.
See time payment order blank on opposite page.



Belt Power in Addition to Electricity

A Power Pulley is mounted on the fly wheel by means of a 3 H.P. mechanical power direct from the pulley is available. It is possible to operate machines with a belt from the pulley which would be too heavy a drain on the plant storage battery if operated by an electric motor. The generator acts as a governor absorbing the excess power—giving it to the storage battery. The engine speed can be varied from 400 to 1400 R.P.M. so that various machines can be operated at the proper speed.

Detailed Specifications of Powerlite Unit Plant

Capacity—Normal Capacity of generator 1,000 watts. Generator alone will light 50-20 watt lamps continuously. Either 80 or 160 ampere hour Powerlite Storage Battery furnished. Eighty ampere hour storage battery has capacity of 2560 watts and will light 16-20 watt lamps for 8 hours. 160 ampere hours battery has twice this capacity.

Engine—Four cycle water cooled cylinder, air cooled by 3 1/4 in. stroke, 3 1/4 in. bore, connecting rod bearing 1 3/4 in. diameter, 2 3/4 in. long, piston pin bearing 1/2 in. diameter, crank case main bearing 1 1/2 in. diameter, 3 in. long, valve 1 3/4 in. outside diameter, 1 1/8 in. clear opening.

Ignition—Timer and special coils adapted for emergency starting with three dry cells. Timer mounted on camshaft and easily adjusted.

Cooling—25-gallon water tank.

Lubrication—Renault Type splash system. Only one point to fill oil.

Lubricating Oil Consumption—100 hours to a gallon.

Available Mechanical Power—Up to 3 H.P. direct from pulley on fly wheel. Diameter of pulley 4 inches, face 2 inch. Engine can be used independently of electrical equipment for many power purposes.

Switchboard—Oil finished black marine slate of very high quality and highest insulating qualities. Instruments used are the very finest. The combined Cutler Hammer Reverse Current Relay, Starting and Ignition Switch is most dependable at times. A push of a button starts the engine. It operates exactly the same principle as the self-starter on an automobile. The reverse current relay automatically prevents the discharge of the battery through the generator and will operate satisfactorily indefinitely. The engine is stopped by pulling out the ignition switch.

The Sangamo Ampere Hour Meter—Indicates the condition of your batteries, ampere rate of charge and discharge and automatically stops the engine when the batteries are fully charged, thus preventing any damage due to overcharge. This is a very high grade instrument and is used as standard equipment on a great many lighting plants.

The Two Pole Switch connects the line wires to the storage battery.

The Glass Fuses make it easy to see when they have blown. The fuses protect the battery from too great a discharge caused by a short circuit.

Fuel Consumption—One gallon of gasoline or kerosene will run engine 5 hours and charge completely the 80 ampere hour battery.

Generator—Normal capacity 1,000 watts at 1150 R.P.M. Direct current, bi-polar, open ventilated frame. Forged steel pole pieces. Laminated armature keyed to shaft. One piece armature shaft machined all over and ground. Ball bearing packed in grease and dust-proof casing. High grade extra large carbon brushes.

Charging Rate—Variable 5 to 25 amperes.

Color—Painted Green.

Powerlite Storage Batteries

The batteries supplied with our Powerlite Plants are acknowledged to be the very best batteries, equal or superior to any other on the market. They are of the pasted plate type, sealed in glass jars. The plates are extra large and heavy and the extra large sediment space beneath the plates lengthens the life of the battery. They are shipped to you fully charged so that when you receive your plant and set it up, it is ready for service.

Our batteries not only bear standard ratings, which are based on the number of amperes that can be drawn from them in eight hours, but also the intermittent rating. Some companies use only the latter method of rating their batteries, indicating a correspondingly higher rating. Where comparisons are made be sure that the comparison is made on the same basis of rating.

If you already have an Electric Plant and your original set of batteries has become exhausted, order a set of these batteries. They will replace the original storage batteries of any make or type 32 volt Farm Electric (Lighting) Plants. They work satisfactorily no matter what make of batteries was originally with the plant. Price includes 16 complete cells of batteries together with the necessary connecting bolts and straps. All sets carefully crated and packed. We guarantee safe delivery.



Prices on Powerlite Batteries

Article Number	Battery Size		Price Complete Set	Shipping Weight lbs.	Active Area Pos. Plates per Cell
	8hr. Discharge Rating Amp. Hr.	Intermittent Rating Amp. Hr.			
163C141	80	120	\$110.00	520	560 sq. in.
163C144	160	240	\$190.00	900	1090 sq. in.

Battery 163C141 has a capacity of 2,560 watts at a discharge rate of 320 watts for 8 hours. At a lower discharge rate the capacity is increased. At a higher discharge rate the capacity is decreased. Battery 163C144 has a capacity of 5,120 watts or just twice as much as 163C141 battery.

Our Guarantee on Powerlite Batteries

We guarantee these batteries to give lighting service for 3 1/2 years, when installed and operated according to our instructions, and when they are recharged not oftener than twice a week. If for any reason the battery proves defective or does not give good service within the 3 1/2 years' period we will replace it on the basis of service rendered. If, for example, some part of or the whole battery should prove defective at the end of two years, we will replace it for 4/7 of the cost of a new battery. If the battery should last only one year, we would replace it for 2/7 of the cost of a new battery, etc. In this way, you are assured that you will only be obliged to pay for the actual service you get from your battery.

While our guarantee applies for only 3 1/2 years, these batteries when properly cared for will give much longer service—5 years or more, usually, and many of these batteries have been in service for 8 years. Actual tests show that Powerlite batteries have, on the average, over 100% capacity at the end of 450 cycles and approximately 75% capacity after 600 cycles of charge and discharge. 600 cycles are equivalent to 10 years average service.

On Easy Monthly Payment Terms

Save \$200.00 to \$250.00
On Your Electric Plant

If you have a good Gasoline or Kerosene Engine which you can use to operate an Electric Plant, buy Powerlite Belted Plant and save \$200.00 to \$250.00 over what you would have to pay elsewhere for a Unit Plant of equal quality and capacity. This is not all you will save, you let us plan the entire installation. On Lighting Fixtures, Wiring Materials, Utility Motors, Automatic Water Systems, Electric Irons, Fans, etc., you will find that we can save you very close to another \$100.00, probably more.

Quality—the Big Feature

In the manufacture of Powerlite Plants, quality and dependability are the big points for which we have striven. No item of expense has been spared in order to build plants that will give the utmost satisfaction. It is only our "Direct Method of Selling" that makes it possible for us to offer you this very substantial saving.

Large Size Powerlite Belted Electric Plant

The Biggest Value for the Money

These plants consist of three units, the generator, batteries and switchboard, connected together with the necessary wires. These three parts together with a gasoline or kerosene engine give you a dependable working plant at low cost that will give constant service at any hour of the day or night. The plant is shipped to you so that it is ready to use when you receive it. The batteries have been given their first charge. Connect up the wires from switchboard to the batteries and generator and from the switchboard to the house wires and you can then turn on your lights. These few connections are plainly marked so that there is no chance of making them other than correctly.

When you want to recharge the batteries, start your engine by means of the starting switch. Hand cranking is not necessary unless your engine is over 5 H. P. The lights may be used while the battery is being recharged if you wish. An instruction book written in plain terms so that anyone can understand it, is furnished with every plant. You do not have to know anything about electricity to install and operate your Powerlite Belted Plants.

Operated with any Farm Engine 2½ H. P. or Larger

As many of our customers already have a good farm engine which they wish to use to operate their electric plant, we list these plants without engines. This type plant will furnish you current at the least outlay for the plant and also at the least cost for the current. You can belt the generator to the fly wheel of your engine and charge your battery while your engine is doing their work. In this way the cost of current to you is very little. About 2½ horse power is required to drive the generator when operated at full capacity. If the engine you intend to use is installed in a weather-tight building and there is room in the same building for the lighting plant, put the complete plant in that building. If the building is liable to become very cold in the winter, it would be advisable to put the batteries in the basement of your house or in some convenient warm building.



The Generator

The Generator furnished with our Powerlite Plants is a large sturdy generator with a capacity of 40 volts, 25 amperes—1,800 watts when operated at a speed of 1,800 R.P.M. It is of the four-pole type, insuring high efficiency, continuous service and an even flow of current. The rating given is the continuous load capacity and the generator can deliver 25 per cent more current than its rated capacity, without excessive heating. Large ring lining bearings cast of high grade special composition bearing metal. This generator will last a lifetime under ordinary conditions and requires no attention other than oiling every month and having the brushes renewed every few years. The direction in which the generator should be driven is clearly marked on the top. Equipped with a sliding base so that the belt slack can be taken up without moving the floor fastenings.

To get the best results from your plant it is important that this generator be operated at the proper speed (1,800 R.P.M.). In order that we may determine what size pulley you should have, we must know the speed of your engine, also the diameters of the fly wheel and driving pulley. Give us this information when sending your order and we will supply the pulley on the generator if the proper diameter without extra charge.

Regular pulley equipment: Diameter, 4 inches; face, 4 inches. Shipping weight of generator complete, 150 pounds.

Price of Generator Separately

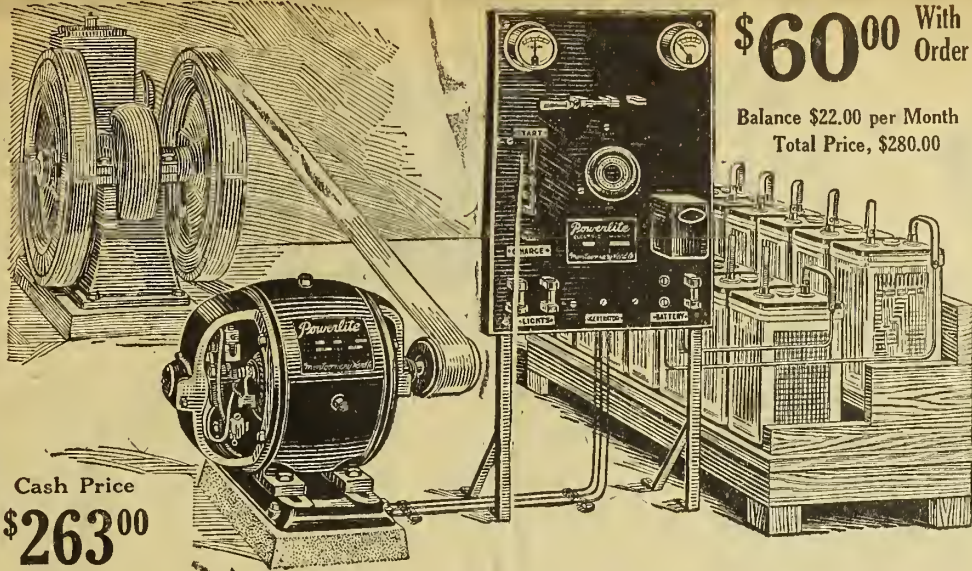
We can supply the generator of our Powerlite Plant separately. It can be used with or without the switchboard for charging automobile storage batteries, running motors, etc.

63C189—Generator only, as described above. **\$86.00**

63C200—Field rheostat for use with above generator. **\$6.00**

When ordering a complete Powerlite Plant, an extra rheostat is not necessary, as the switchboard of Powerlite Plants is equipped with a rheostat.

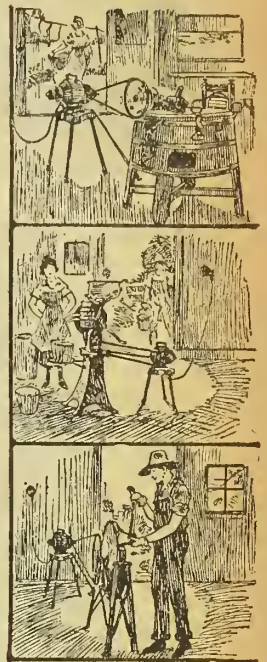
See Page 656 for Large Size 115-125 volt Generators.



Cash Price
\$263⁰⁰

\$60⁰⁰ With Order

Balance \$22.00 per Month
Total Price, \$280.00



Powerlite Belted Electric Plant Complete Consists of

Powerlite Storage Battery consisting of 16 cells of capacity stated and covered by guarantee shown on opposite page.
Generator, 40-volt, 25-ampere, speed 1,800 R. P. M., as described and illustrated on this page.

Switchboard as described and illustrated on this page.

Necessary Wiring to connect the above 3 units.

Battery Hydrometer.

Speed Indicator.

Endless Leather Belt 2 inches wide, 14 feet long.

Five Extra Fuses.

Screws, Bolts and Cleats to secure generator, switchboard and connecting wires to floor or wall.

Complete instructions for installation and operation.

Battery rack illustrated is not included. Blue-prints giving dimensions of suitable rack included.

Price includes parts as listed but does not include engine shown in illustration.

Plant With Large Size Battery

163C181—Powerlite Belted Plant, complete with 80 ampere hour 32 volt storage battery. (Intermittent rating 120 ampere hours.) Shipping weight, 870 lbs.

If you wish to pay cash in full with the order the price is **\$263.00**

Easy Payment Terms are \$60.00 cash with the order and \$22.00 per month for 10 months (no interest).

Total Price **\$280.00**

Plant With Extra Large Size Battery

163C187—Powerlite Belted Plant, complete with 160 ampere hour 32 volt storage battery. (Intermittent rating 240 ampere hours.) Shipping weight, 1,250 lbs.

If you wish to pay cash in full with the order the price is **\$343.00**

Easy Payment Terms are \$60.00 cash with the order and \$30.00 per month for 10 months (no interest).

Total price **\$360.00**

When placing your order give speed of engine and diameters of fly wheel and driving pulley.

All parts shipped promptly from stock at Chicago.

Use Handy
Order Blank
Below

The Switchboard

On the switchboard are mounted the necessary instruments to control the operation of the plant and indicate the flow and pressure of the current. The board itself is made of oil finished black Marine slate of the best quality and highest insulating properties. Size of slate, 24x16 inches. All instruments used are of the finest quality and are especially designed and built for these plants.

The operation of the board is very simple. To start the engine, the starting switch is thrown over to the starting side and then thrown back after engine is started. To raise or lower the charging rate, the rheostat hand control is revolved as indicated. There are no further operations to be performed when charging the batteries.

The **Ampere Meter** indicates the amperes or amount of current flowing. When the generator is charging it indicates the rate of charge, when current is being used it indicates the rate of discharge.

The **Voltmeter** indicates the voltage or pressure of the current. The **Rheostat** enables you to regulate the amount of current generated by the generator. Simply turning the hand control, raises or lowers the charging rate as desired.

The **Reverse Current Relay** is the heart of the plant. The instrument used on our plants is most dependable at all times and will operate satisfactorily indefinitely.

The **Starting and Generator Switch** enables you to use your generator as a motor in cranking your engine, making it unnecessary to crank the engine (if not over 5 H.P. size) by hand. This same switch is also used to connect the generator and battery during the charging period.

The **Voltmeter Switch** cuts the voltmeter out of the circuit when reading is not desired. This saves considerable current and is one of the features of this switchboard.

The **Line Fuses** are placed in the line circuit. Their function is to protect the battery from too great a discharge, caused by short circuits on the line, etc. The cases of the fuses are of glass, making it easy to see when they have "blown."

Battery Fuse is placed between generator and battery. **Switchboard** is fitted with brackets so that it can be mounted on the floor or on the wall as desired.

Price of Powerlite Switchboard Separately. We can supply this Powerlite Switchboard separately if desired. Shipping weight, 60 pounds.

163C193—Powerlite Switchboard as illustrated. **\$62.50** with mounting brackets. Price.

Special Order Blank for Ordering Powerlite Plants on Easy Terms

MONTGOMERY WARD & CO., CHICAGO, ILL.

You may ship Powerlite Plant article No. Price..... I am enclosing \$..... required with order as my first payment. Within one month after receiving the plant I will pay you \$..... and I will pay you the same amount each succeeding month until the plant has been paid for in full, when it shall become my property.

I Am to Pay No Interest

I have always been prompt in payment of my debts and submit the accompanying true statement as to my property and responsibility for the purpose of assuring you that you will be safe in trusting me to pay as agreed.

Sign Name Here..... Post Office.....
R. F. D. No..... State.....
Shipping Point..... County.....

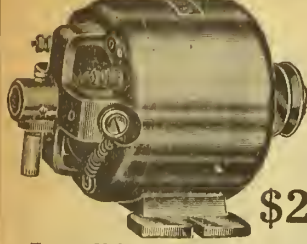
PLEASE GIVE US THE FOLLOWING INFORMATION

Do you own building in which plant is to be installed?.....
Give name (in full) of party holding legal title to your property.....
Give wife's name in full if title is in husband's name or husband's name if title is in wife's name.....
Cost of property including improvements..... If mortgaged state amount \$.....
How long have you lived in place now located?.....
If less than five years give former address.....
Amount you owe which is past due if any \$.....
How much are you worth over and above any debts you owe \$.....
As reference give name of your banker and one other reference, business house preferred.

Name	Address	Business or Occupation

We Can Save You Money on Electric Power Equipment

Farm Power Motors



\$21.95

For 32 Volt and 110 Volt Direct Current. Every farmer who has an electric plant should install electric motors every place a wheel is turned. The electric motor will do the work better and cheaper. Attach one to your cream separator, churn, shelling machine, milk tester, grinder, pump, corn sheller, etc.

These motors are especially designed for use on Farm Lighting and Power Systems such as Powerlite, Delco, Lalley, Alco, Alamo, Western, Willys, etc.

They are efficient in design, insuring economical operation, and are constructed of high quality material so that they will give first class service for many years. The ratings given are conservative and we guarantee that these motors will develop their full rated power. The 1/2 H.P. and smaller can be attached to any lighting socket. The 1/2 H.P. must have special wiring. The 1/2 H.P. motor has flat belt pulley. Smaller sizes have round belt pulleys. The 1/2 H.P. motor has 3/8-inch shaft. Smaller sizes have 1/2 in.

Speed about 1700 R.P.M.

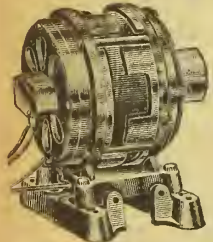
For 30-32 volt (15 or 16 cell) Plants

Article Number	Horse Power	Price	Pulley Diam. Inches	Belt Size Inches	Ship. Wt.
163C250	1/2	\$21.95	1 1/2	3/8	25 lbs.
163C251	1/2	25.50	2 1/4	3/8	30 lbs.
163C252	1/2	29.95	2 1/2	3/8	50 lbs.
163C253	1/2	49.00	2 1/2	1 1/2	56 lbs.

For 110 volt (55 or 56 cell) Farm Plants or Central Station Direct Current

Article Number	Horse Power	Price	Pulley Diam. Inches	Belt Size Inches	Ship. Wt.
163C260	1/2	\$21.95	1 1/2	3/8	25 lbs.
163C261	1/2	25.50	2 1/4	3/8	30 lbs.
163C262	1/2	29.50	2 1/2	3/8	50 lbs.
163C263	1/2	49.00	2 1/2	1 1/2	56 lbs.

Heavy Duty Continuous Service Motor



Split Phase Induction Type

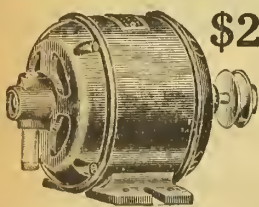
\$34.50

These motors are especially adapted for operating machinery which starts with a light load. Can be attached to any lighting socket, although special feed line is better for the 1/2 H. P. size. Very simple, rugged, efficient motors designed for continuous hard service. Equipped with high grade ball bearings. Have a 150% starting torque, yet because of design they require less starting current than most single phase motors. Maximum temperature rise 40° C on full load. No windings on rotor. Black enamel finish. Runs either direction. Speed 1800 R.P.M. Prices include pulley, adjustable sliding base and centrifugal starting switch. We do not recommend this motor for water pump duty or for use where the starting load is heavy. See Induction Repulsion Motors on this page.

For Use on 110 Volt 60 Cycle Single Phase Alternating Current.

H.P.	Article No.	Price	Pulley Diam. In.	Pulley Face In.	Ship. Wt.
1/2	163C215	\$34.50	2 1/2	1 1/2	50 lbs.
1/2	163C220	49.50	3	2	90 lbs.

Fractional Horse Power Motors Intermittent Duty—Split Phase Type.



\$22.95

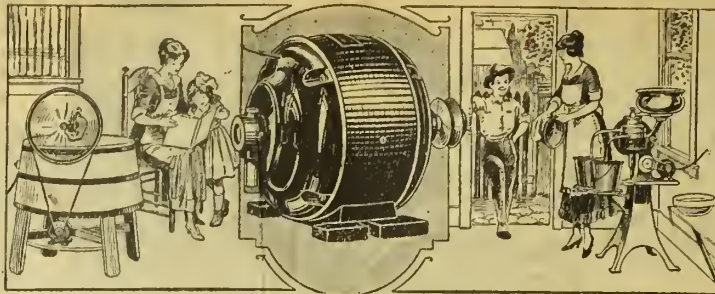
For use on 105 to 120 volt, 60 cycle, single phase, alternating current.

These motors are used to operate grinders, churns, ice cream freezers and many other light machinery devices. In the home or work shop they can be put to work on a great variety of jobs. They are especially adapted for intermittent duty type. One pronounced characteristic of this type of motor is the heating that takes place when they are in use. Soon after being started they will heat up about 40 degrees centigrade above the surrounding air. No further heating will occur unless motors are overloaded. This characteristic is not objectionable under most conditions, but should be taken into consideration when purchase is made.

These motors will carry a 100% overload for a short time. Have a starting pull 50% greater than their rated power. They incorporate the latest developments in this type of motor and are very carefully constructed. Black enamel finish. Perfect lubrication. Phosphor bronze bearings. No windings on rotor. Pulley is 1 1/2 in. effective diameter for 3/8 inch round belt. Shaft diam. 1/2 in. Can be attached to any lighting socket. Speed about 1750 R. P. M. Complete with heavy 10 ft. cord and attaching plug.

Article Number	Horse Power	Price	Shipping Weight
163C210	1/2	\$22.95	30 lbs.
163C212	1/2	25.95	37 lbs.

Prices On This Page are Subject to Market Changes



Splash Proof Motor

Particularly intended for use on washing machines, cream separators, churns. A liberal quarter horse power motor.

For use in places where liquids, such as water and milk are liable to be splashed on it. Water cannot hurt it. Ends are carefully enclosed to entirely exclude any ordinary splash, but are yet arranged to allow free air circulation for cooling. This motor will provide electric power for a great variety of small machines. With it most any hand power washer with a revolving balance wheel can be easily made into an electric. The cream separator, churn, ice cream freezer and similar machines can be driven with it. Can be attached to any lighting socket. Fitted with 10-foot cord and attaching plug. Speed about 1750 R. P. M. Develops better than 1/2 horse power and will carry a temporary 50% overload with but

slight raise in temperature. Grooved pulley, effective diameter 1 1/2 inches for 3/8 inch round belt. Shaft diam. 1/2 in. If different size grooved pulley or a flat belt pulley is required, see pulleys listed below. Shipping weight, 39 pounds.

163C200—For 110 volt, 60 cycle, alternating current. Price.....	\$28.95
163C201—For 110 volt, 25 cycle, alternating current. Price.....	\$31.25
163C202—For 220 volt, 60 cycle, alternating current. Price.....	\$31.25
163C205—For 32 volt direct current. Price.....	\$29.95
163C206—For 110 volt direct current. Price.....	\$29.95
163C207—For 220 volt direct current. Price.....	\$31.25

Pulleys, Round Belting and Attaching Cord

For Fractional H. P. Motors

When ordering a motor less than 1 H.P. it is very essential that you determine whether the pulley supplied will run your machinery at the proper speed. The pulleys supplied with our motors are the ones most commonly used but for those who require pulleys of a different size, we can supply them as listed below.

To find what size pulley you should use, multiply the diameter in inches of the pulley on the machine to be driven by its revolutions per minute (R.P.M.) and divide by the R.P.M. of the motor. The result gives you the diameter in inches of the pulley you should use on the motor.

Grooved Pulleys

Cast pulleys for 3/4 in. round leather belting. Fit 1/2-inch shaft. Ship. wt. 1/2 to 1 lb.

63C6001—1-in. Diameter. Price....	\$0.90
63C6002—1 1/4-in. Diameter. Price....	.90
63C6003—1 1/2-in. Diameter. Price....	.90
63C6004—2-in. Diameter. Price....	.90
63C6005—2 1/4-in. Diameter. Price....	.90

Flat Flanged Pulleys

Cast pulleys with flanged sides for flat belting. Fit 1/2 in. shaft. Ship. wt., 1 lb.

63C6010—1 1/2-in. diam., 1 1/2-in. face..	\$1.10
63C6011—1 3/4-in. diam., 1 1/2-in. face..	1.10

Round Leather Belting

For running washing machines, churns, cream separators, etc. with motor having 3/4 in. grooved pulley. Especially prepared, durable and strong. Cut any length desired. 3/4 in. in diam. Ship. wt., per foot, 2 ounces.

63C2602—Price, per foot.....	15c
63C2603—Coupling for Round Belting. Makes a good strong joint and permits easy take up of belt. For 3/8 inch round belt only. Ship. wt., 2 ounces. Price.....	18c

Flat Machined Pulleys

Machined pulleys for flat belts. Have 2-inch crown faces. Shipping weight, 2 lbs. each.

63C6040—2-in. Diam. to fit 1/2-in. shaft.	
63C6041—1 1/2-in. Diam. to fit 1/2-in. shaft.	
63C6042—2-in. Diam. to fit 3/4-in. shaft.	
63C6043—1 1/2-in. Diam. to fit 3/4-in. shaft.	
Price, each.....	\$1.48
63C6034—Fifteen foot cord with attaching clips and plug for motors. Price.....	\$1.70

Induction Repulsion Motors

For Use on 110 or 220 Volt, 60 Cycle, Single Phase Alternating Current

These motors are especially desirable for operation on lighting circuits to operate apparatus requiring a heavy starting pull. They draw a comparatively low amperage from the line when starting, yet have a starting torque of over 200% of the full load torque and accelerate rapidly. These characteristics distinguish them from the split phase type of motors and make them especially desirable for operating pumps, cream separators and all other machines starting under a heavy load.

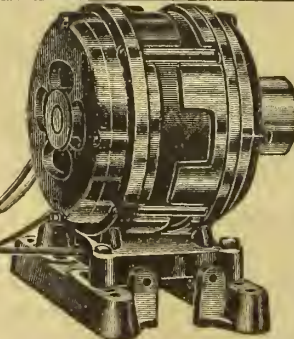
Bronze oil ring bearings, slide rails on 1 and 2 H. P. Black enamel finish. Wound rotor. Copper bar commutator with rugged short circuiting device. Speed 1750 R.P.M.

Price List Induction Repulsion Motors.

Interchangeable 110 or 220 volt, 60 cycle, single phase, alternating current.

H. P.	Article Number	Price	Pulley Dia.	Pulley Face	Ship. Wt.
1/2	163C330	\$68.25	3 in.	2 in.	105 lbs.
1	163C332	92.40	4 in.	3 in.	165 lbs.
2	163C334	135.45	4 in.	3 in.	265 lbs.

These motors can also be supplied for 25 cycle current. Write for prices.



Large Power Induction Motors Squirrel Cage Type

Although the prices we quote on these motors are much lower than prices asked for most other makes of motors of the same power, we guarantee them to equal in performance any make of motor, regardless of price. These modern power motors are dependable and simple. They incorporate the most modern features of construction. Very efficient at both full and light load. Their high power factor makes them very desirable from the central station viewpoint. They are all fitted with high grade ball bearings. The bearing at the pulley end being several sizes larger than the bearing at the other end in order to give ample strength to take care of belt pull. When properly installed they will give many years of reliable service with no attention other than an occasional oiling. The temperature rise is low and is guaranteed to be not over 40 degrees centigrade rise on continuous load operation. Motors can be wired to operate in either direction. Guaranteed to come within the specifications of the American Institute of Electric Engineers and are further guaranteed for a period of one year to be free from any electrical or mechanical defect.

Split Phase—Single Phase Type

The best made and most efficient motor of this type. For driving line shafts or for running any machinery starting on a light load, these motors will give very satisfactory service. They are not recommended for pump duty or for use where the starting load is heavy. See Induction Repulsion Motors.

Starting torque 150%, pull out torque 200% of full load torque. Starts quicker and with less line disturbance than most single phase motors. Four pole. Speed, 1800 R.P.M. Prices include pulley, adjustable sliding base and special double throw starting switch.

Price List Single Phase Induction Motors for 110 Volt, 60 Cycle Alternating Current.

H.P.	Article No.	Price	Pulley Diam. In.	Pulley Face In.	Ship. Wt.
1	163C300	\$79.00	3 1/2	2 1/2	157 lbs.
1 1/2	163C302	93.00	4	3 1/2	172 lbs.
2	163C304	108.00	4	3 3/4	202 lbs.

For 220 Volt, 60 Cycle Alternating Current.

H. P.	Article No.	Price	Pulley Diam. In.	Pulley Face In.	Ship. Wt.
1	163C306	\$79.00	3 1/2	2 1/2	157 lbs.
1 1/2	163C308	93.00	4	3 1/2	172 lbs.
2	163C310	108.00	4	3 3/4	202 lbs.

Three-Phase Type

These motors are suitable for operating all classes of machinery where high efficiency and economy are desired. They have a starting torque (or pull) of over 200% of the full load torque, which well adapts them for use on pumps and other work having a heavy starting load. Prices include pulley and adjustable sliding base on all motors. Prices do not include starting switch. The sizes 5, 7 1/2, 10 and 15 H.P. motors are furnished with six leads brought out so that the motors can be started by the use of the Y-Delta starting arrangement. If the Y-Delta starting arrangement will not give a sufficient starting torque, then any standard compensator may be used. Prices on compensators quoted on request.

Four Pole. Speed, 1800 R.P.M.

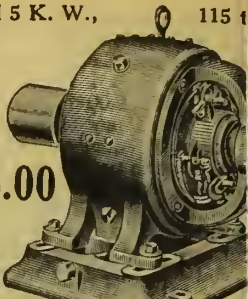
Price List Three Phase Induction Motors For 220 Volt, 60 Cycle Alternating Current.

H. P.	Article No.	Price	Pulley Diam. In.	Pulley Face In.	Ship. Wt.
1/2	163C350	\$43.00	2 1/2	1 1/2	50 lbs.
1	163C352	57.00	3	2	90 lbs.
1 1/2	163C354	77.00	3 1/2	2 1/2	157 lbs.
2	163C356	91.00	4	3 1/2	172 lbs.
3	163C358	113.00	4 1/2	4	248 lbs.
10	163C360	150.00	6	4 1/2	352 lbs.
15	163C362	200.00	8	4 1/2	510 lbs.
7 1/2	163C364	220.00	8	4 1/2	510 lbs.

These motors can also be supplied for 25, 30 and 50 cycle current. Prices quoted on request.

Large Generators

3 and 5 K. W., 115 V.

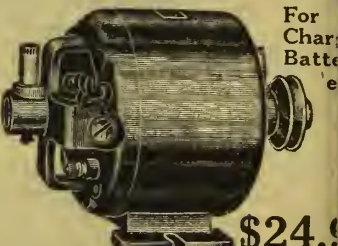


\$185.00

Large sturdy generators. Designed to provide Electric Light and Power for farms, garages, villages, manufacturing plants, etc. If you have power or a large size gasoline or kerosene engine you can belt one of these generators to source of power and provide an abundant source of electric light as well as power for running machinery. To run the 3,000 watt generator, 7 1/2 H.P. of electric light is required; for the 5,000 watt, 10 H.P. of electric light is required. They have the capacity of 115 to 125 volts. They have the advantage over low voltage generators in that they transmit current over greater distances. Pole ventilated type generator. Large ring bearings cast of high grade special bearing material. Rating given is the continuous load rating. They will last a lifetime under ordinary conditions and require no attention other than occasional oiling and renewing the brushes. Bearings every few years. Equipped with a base so that the belt slack can be taken up without moving floor fastenings. Speed of watt generator is 1800 R.P.M.; 5,000 watt generator speed 1200 R.P.M. Complete with Rheostat.

Art. No.	Price	Output Watts	Pulley Diam. In.	Pulley Face In.
163C275	\$185.00	3,000	5	5
163C277	335.00	5,000	6	6

Direct Current Generators



For Charge Batteries

\$24.00

These generators are intended for use where direct current is required, such as for charging storage batteries, etc. They can also be used for lighting purposes. Attach them to any source of power, gas engine, water wheel, electric motor, etc. Revolve at speed of 1750 R.P.M. and they will generate current to their rated capacity against load resistance. Regulating rheostats listed should be used for regulating the current. Complete directions for connecting up generator included.

Article No.	Price Each	Output Watts	Volts	Amp.	Pulley Dia. Inches
163C288	\$24.95	90	9	10	1 1/2
163C282	29.50	180	18	10	1 1/2
163C284	47.00	250	25	10	2
163C286	57.00	500	50	10	3 1/2

Pulleys take 3/4 in. round belt except on 500 size, which takes 2 inch flat belt. Power req. to operate 90 W.—1/4 H. P. 180 W. and 250 W.—1/2 H. P. 480 W. about 1 H. P.

Rheostats

Field control rheostats for use in connection with our Direct Current Generators. Shipping weight, 8 lbs. each.

63C6145—Field Rheostat for use with 163C282, 163C284 or 163C286 generator. Each..... \$4.00

63C6147—Field Rheostat for use with 163C286 generator. Each..... \$4.00

Electric Meters



Fine quality meters. Three inch face. Black enamel finish. Very accurate and sturdy. 2 inch posts with nuts and washers project back for "front of board" mounting. Shipping weight, 2 lbs. Direct current instrument D'Arsonval pattern. Alternating current instrument is very accurate and well damped.

Direct Current Volt Meters

Article Number	Scale	Price	Article Number	Scale	Price
63C6250	0-3	\$6.75	63C6265	0-5	\$7.50
63C6252	0-15	6.75	63C6267	0-15	6.75
63C6254	0-30	6.75	63C6269	0-30	6.75
63C6256	0-50	6.75	63C6275	30-0-30	6.75
63C6258	0-75	7.25	63C6277	40-0-40	7.25
63C6260	0-150	8.50	63C6279	40-0-60	8.50

Alternating Current Volt Meters

Article Number	Scale	Price	Article Number	Scale	Price
63C6281	0-20	\$7.95	63C6286	0-5	\$7.95
63C6282	0-30	7.95	63C6287	0-15	7.95
63C6283	0-150	10.50	63C6288	0-20	7.95
63C6284	0-300	11.95	63C6289	0-30	7.95

Enjoy the Advantages of Running Water in Your Home



Utility Motor Outfit
\$47.50

Outfit consists of our 1/4 horse power splash proof motor, mounted on a stand which is easily moved. Can be attached to a washing machine, churn, cream separator, ice cream freezer, grind stone or any machine requiring not over 1/4 H.P. for its operation. Motor fitted with 15 foot cord and plug for connecting to any convenient lighting socket. Stand is provided with an adjustable brace and clamp that can be secured to almost any solid object. Motor revolves at a speed of 1750 R.P.M., and is fitted at one end with a 1 1/2 inch grooved pulley revolving at 1750 R. P. M. At the opposite end of the motor is a reducing gear fitted to a combination pulley revolving at 280 R.P.M. This combination pulley has three grooved pulleys, diameter 5, 4 and 3 in., to take 1/2 in. or smaller round belting and a flat face pulley 1 1/2 in. diam. for 1 in. flat beltings. This combination of slow speed and different sized pulleys makes it possible to drive nearly any slow revolving machine with regular sized pulleys and wheels supplied on it. Supplied with a 15-foot 3/8 in. round leather belt. Ship. wt., 125 lbs.

163C225—Utility Motor Outfits for 32 volt direct current 15 and 16 cell farm light. Price, \$47.50

163C230—Utility Motor Outfit for 110 volt, 60 cycle alternating (central station) current. Price, \$47.50

Automatic Electric Water Systems

For City or Country Homes Having Electrical Power

This automatic electric water system will supply you with running water in the bath-room, kitchen, laundry, dairy, stable or any other part of your farm. Attach the tank to the house supply pipe, connect the motor to your electric wires, run a pipe from the pump to the well or cistern and the system is ready for operation. A reserve supply of water is always stored in the tank. The motor automatically starts to operate in the pump when the supply falls below a certain level in the tank. When the water in the tank is raised sufficiently the motor stops automatically so that you always will have an ample supply of water, practically without any attention.

TANK—The tank is made of sheet steel coated to prevent rusting. We provide two size tanks, 50 gallon which is large enough for the ordinary 5 or 6 room home and 100 gallon size which is intended for larger homes. The house supply connection takes a 1/2 inch size pipe.

PUMP—The pump on our outfit is a fine piece of workmanship, with brass-lined cylinder. All working parts are enclosed in a dust-proof case and run constantly in an oil bath. On both suction and discharge lines of the pump an air chamber is used which prevents friction and pound in the lines and makes possible satisfactory intermittent service. The water cylinder is fitted with an intake valve for supplying air to replace that lost by absorption in the water. The pump has a capacity of 150 gallons per hour against 50 pounds maximum pressure. Suction connection size, 1/2 inch.

AUTOMATIC SWITCH The automatic switch starts and stops the motor as the reserve supply in the tank demands. Switch starts motor when pressure falls to 25 pounds, and stops it at about 45 pounds.

MOTOR—The motor is especially suited for pump operation and can be supplied in any voltage required. Develops full power and can be used for operating many other devices in addition to water plant if desired.

VALVES AND GAUGES—Included in the equipment is a relief valve, a shut-off valve, pressure gauge and water gauge.

SPECIAL NOTE—These outfits can only be used where the pump is not over 22 feet above the surface of the water in the well, cistern or other source of supply.

Complete Instructions for Installation are sent with every outfit
Ship. wt., of outfits with 50 gal. tank 275 lbs. 100 gal. tank outfit ship. wt. 355 lbs.
Outfits without tank 165 lbs.

Prices with 110 volt Alternating Current Motor for use on Central Station Power Current.

163C125—Automatic Electric Water System, 150 gallons per hour capacity, with 50-gallon, black enameled steel tank and motor for use on 110 volt 60 cycle alternating current. Price, complete outfit, \$149.50

163C126—Same as outfit 163C125, but with 100-gallon tank. Price, complete outfit, \$166.00

163C127—Same as outfit 163C125, but without tank and fittings. Price, \$110.00

163C128—Same as outfit 163C125, but without tank and fittings and pressure switch. Price \$99.00

Float Switch for Open Tanks

163C131—Float Switch for use with Outfit 163C125 or 163C128 to control water level in an open tank. Price, \$22.95

Fresh Water Attachment

163C135—Fresh water attachment so constructed that pressure in tank is shut off and pump starts up automatically when faucet on fresh water line is opened. Cold water is delivered direct from the well. Price, \$11.25

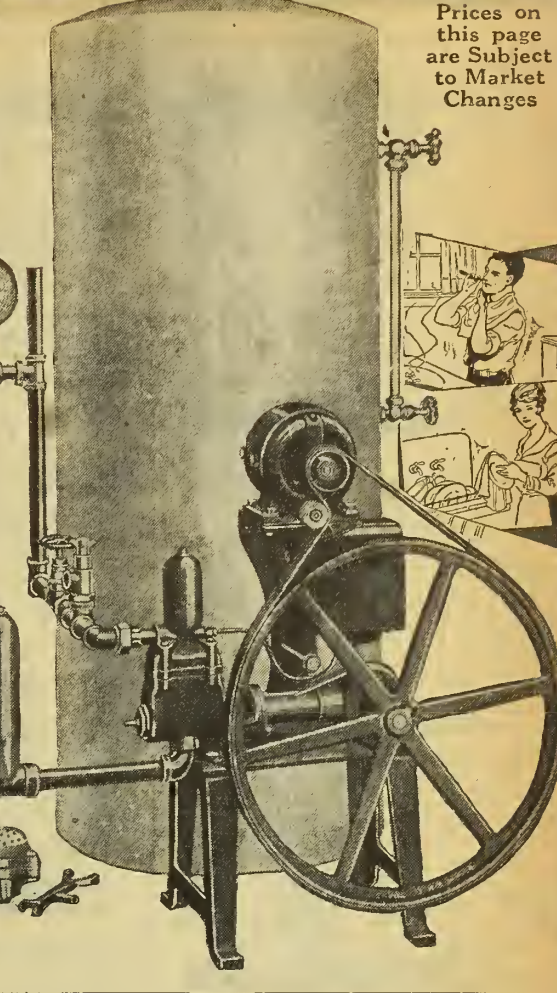
Price with 32 volt Direct Current Motor for Farm Electric Plants

163C120—Automatic Electric Water System, 150 gallons capacity per hour. With 50-gallon black enameled steel tank and Motor for use on 32-volt Farm Electric Plant current. Price, complete outfit, \$151.00

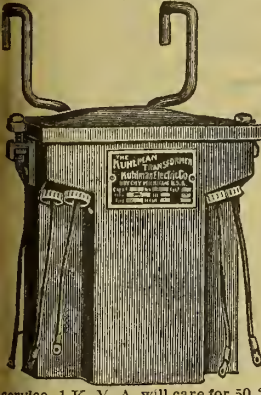
163C121—Same as Outfit 163C120, but with 100-gallon tank. Price, complete outfit, \$167.50

163C122—Same as Outfit 163C120, but without tank and fittings. Price, \$111.50

163C123—Same as Outfit 163C120, but without tank and fittings and pressure switch. Price \$99.50



Prices on this page are Subject to Market Changes



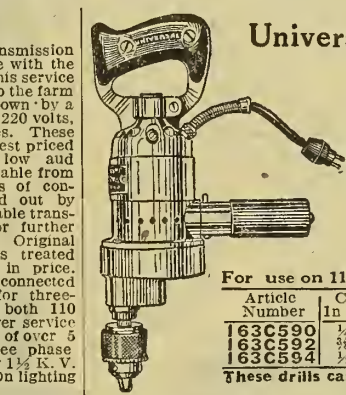
Farmers living in territory through which electric transmission lines run will find that arrangements can be made with the Electric Company to obtain current from such lines. This service is supplied by running branch lines from the main line to the farm to be serviced. At the farm the current is stepped down by a transformer from the transmission voltage to 110 and 220 volts, which voltages are used for light and power purposes. These transformers compare favorably with the best, and highest priced transformers on the market. The efficiency is very high and the operating company's standpoint. All other points of construction have been carefully and scientifically worked out by capable electrical engineers resulting in a thoroughly reliable transformer. If interested in technical details write us for further information. All sizes of transformers are oil cooled. Original filling of oil included in price. Have cast iron bases for low resistance compound. Hanger irons included in price. Primary wiring arranged so that transformers can be connected separately for single service or in banks of two or three for three-phase service. Secondary circuit is arranged to provide both 110 and 220 volt service. For lighting service and small power service single transformers are recommended. For power service of over 5 K. V. banks of two or three transformers wired for three phase service are recommended. For motors under 5 H. P. allow 1 1/2 K. V. A. per H. P.; over 5 H. P. 1 K. V. A. per H. P. is sufficient. On lighting service 1 K. V. A. will care for 50 20-watt lamps or their equivalent.

Price List Single Phase Transformers

Article Number	Cap. K.V.A.	Ship. Wt. Lbs.	Price
2200 H.V. to 220-110 L.V.	4400 H.V. to 220-110 L.V.	6600 H.V. to 220-110 L.V.	
2300 H.V. to 230-115 L.V.	4600 H.V. to 230-114 L.V.	6900 H.V. to 220-110 L.V.	
2400 H.V. to 240-120 L.V.	4800 H.V. to 240-120 L.V.	7200 H.V. to 220-110 L.V.	
Article Number	Cap. K.V.A.	Ship. Wt. Lbs.	Price
63C525	1	37.50	114
63C526	2	51.00	136
63C527	3	71.50	152
63C528	5	87.00	250
63C530	1	47.00	114
63C531	2	61.50	176
63C532	3	74.00	182
63C533	5	97.00	250
63C535	1	65.50	132
63C536	2	86.00	146
63C537	3	106.00	176
63C538	5	129.50	269

Electric Transformers

Farmers living in territory through which electric transmission lines run will find that arrangements can be made with the Electric Company to obtain current from such lines. This service is supplied by running branch lines from the main line to the farm to be serviced. At the farm the current is stepped down by a transformer from the transmission voltage to 110 and 220 volts, which voltages are used for light and power purposes. These transformers compare favorably with the best, and highest priced transformers on the market. The efficiency is very high and the operating company's standpoint. All other points of construction have been carefully and scientifically worked out by capable electrical engineers resulting in a thoroughly reliable transformer. If interested in technical details write us for further information. All sizes of transformers are oil cooled. Original filling of oil included in price. Have cast iron bases for low resistance compound. Hanger irons included in price. Primary wiring arranged so that transformers can be connected separately for single service or in banks of two or three for three-phase service. Secondary circuit is arranged to provide both 110 and 220 volt service. For lighting service and small power service single transformers are recommended. For power service of over 5 K. V. banks of two or three transformers wired for three phase service are recommended. For motors under 5 H. P. allow 1 1/2 K. V. A. per H. P.; over 5 H. P. 1 K. V. A. per H. P. is sufficient. On lighting service 1 K. V. A. will care for 50 20-watt lamps or their equivalent.



For use on 110 to 125 volt Direct or Alternating Current

Article Number	Cap. In Steel	In Soft Metal	Price	Ship Weight	Length Over all
63C590	1/4 in.	3/8 in.	\$55.00	6 lbs.	13 in.
63C592	3/8 in.	1/2 in.	66.00	7 lbs.	13 1/2 in.
63C594	1/2 in.	3/4 in.	106.00	13 1/2 lbs.	16 1/2 in.

These drills can be supplied for 32-volt Farm Electric Plant Current for \$1.50 extra

Valve Grinder Attachment

This valve grinder attachment used with the Universal 3/4 inch Electric Drill provides an electric valve grinder that will enable you to grind valves in only a fraction of the time required by hand work and will do a better job. Makes 400 oscillations per minute—the correct speed for perfect valve grinding. Will not score the valve and will reset the valve more perfectly because of mechanical precision and correct speed. Will not get out of order and will last for years. This attachment used with our Universal drill in the ordinary automobile repair shop will pay for itself and the drill in a month. Ship. wt., 21 oz. Valve adapters included to fit nearly all standard valves.

63C6207—Valve grinder attachment. Price, \$10.00

Universal Electric Drills and Valve Grinders

For the manufacturing plant, workshop, garage, or farm, electric drills have proven to be great time and money savers. With them, drilling and many other operations can be done better and in a fraction of the time required to do the same operations by hand or old methods. The UNIVERSAL ELECTRIC DRILLS we offer are the highest grade drills, equal in service and durability to the very best. Have the balance and "feel" so much appreciated by all real mechanics. Light in weight and will give maximum service under the most severe use.

Body of the drills is made entirely of aluminum carefully machined. In the 3/4-inch size the planetary system of gearing is used, compounded with gears to offset chuck spindle. In the 1/2-inch size, worm drive gears are used. This avoids strains and overloads on bearings and motor. Anti-friction bearings used on armature shaft, gears are heat treated and run in oil. Supplied with Jacob's chuck and key, switch in handles; 10 foot waterproof cord and attaching plug.

Miniature Lamp Sockets
These Sockets will not take Edison Base Lamps. They are only for miniature lamps shown on page 653 and 667.

Pendant Porcelain Sockets
Has wire leads. Can be used for drop-light or out-of-doors. Weight, 1 oz.

63C2762—Miniature base. Price, 12c

Can be screwed to any wood support. Weight, 1 oz.

63C2750—Miniature base porcelain sockets. Price, 10c

See page 653 and 667 for Miniature Lamps.

Buy a Transformer and Save Battery Expense

Operates only when connected onto alternating current line of 100 to 120 volts 60 cycles.

All the trouble and expense of replacing worn out batteries is eliminated by the use of a transformer. It is easily installed and will last indefinitely.

This transformer produces three voltages, 6, 8 and 4 volts which can be obtained by attaching your wires to the binding posts as indicated by arrows on the case of the transformer.

Attach it to your regular lighting wires and it transforms the current down so that it is suitable for door bells, buzzers, annunciators, door openers, etc. It will register on your meter only when bells are rung. Strong metal case. 1 1/2 x 2 1/2 x 3 1/2 in. Ship. wt., 2 lbs. Working cap. 25 watts

63C5921—Transformer only, without push button, wire or bell. Each, \$1.48

Bell Ringing Transformer

A small compact transformer that will give good service. Case of pressed steel. Operates on 100-120 volt, 60 cycle alternating current. 6 volt bell circuit. Ship. wt., 1 1/2 lbs.

63C5924—\$1.15

Each

63C5925—Price Per Dozen, \$12.00

Push Buttons

Nicely finished wood push button with composition centers. Ship. wt., 1 oz.

63C5935—Ea. 14c

63C5936—Dozen \$1.35

63C5941—Plain oval push button in satin brass finish. Size, 1 1/2 x 2 in. Ship. wt., 4 oz. Each, 55c

Insulated Bell Wire

Insulated Wire. For wiring door bell systems, annunciators, miniature lights, etc. Prices quoted are subject to change.

63C5960—Single Conductor Annunciator Wire. Size, 18, about 150 ft. to the lb. Price, per pound, 69c

63C5962—Double Conductor Wire. Size, 18, about 65 ft. to the pound. More easily and quickly installed than single wire. Price, per pound, 72c

Insulated Staples

63C5952—Insulated Saddle Staple. Height, 3/4 in. Better and safer than plain staples for fastening wires. Ship. weight, 3 oz. Price, per package of 100, 20c

Electric Bells

Best grade electric signal bell. Can be operated on one cell battery. Japanese iron box and frame. Nickel plated gong. Well constructed. Ship. wt., about 9 oz.

63C5945—2 1/2 inch gong. Price each, 52c

63C5947—3-inch gong. Price, each, 58c

63C5948—Transformer, 4 cell 4-inch gong wt., 1 lb. Price \$2.55

63C5950—2 1/2-inch gong bell to operate direct from 30-32 volt farm lighting plant current. Price, 70c

Skeleton Gongs

A suitable signal bell for assembly halls, schools, etc. Gongs are made of bell metal, nickel plated. Shipping weight, 2 1/2 to 8 1/2 lbs.

63C6504—Price, 4-inch gong, Each, \$3.60

Operates on 2 dry cells.

63C6506—Price, 6-inch gong. Each, \$4.50

Operates on 3 dry cells.

63C6508—Price, 8-inch gong. Each, \$7.20

Operates on 4 dry cells.

Weatherproof Bell

For Use on 30-32 Volt Farm Electric Plants

A signal bell that can be installed in the barn or other outbuildings to receive calls or signals from the house, etc. Weatherproof. Nickel-plated gong. Black enameled body. Ship. wt., 3 lbs.

63C6512—Weatherproof Bell with 6 inch gong \$6.75

Each

63C6511—With 4 inch gong \$4.95

Wire Your House for Electric Light

Prices on This Page are Subject to Market Changes.

New Code, Rubber Covered Wire, Single Braid



Solid conductor copper wire, insulated with rubber compound over which is one cotton saturated braid. Recommended for any open wiring on cleats, tubes or knobs, and for loom and moulding wiring. Each unbroke coil of 500 ft. bears Underwriter's inspection tag. Ship. wt. 3 to 18 1/2 lbs. per 100 ft. according to size. Sold only in lengths listed.

Article Number	Size	Price For 10 ft.	Price For 25 ft.	Price For 100 ft.	Price For 500 ft.
63C3015	14	\$0.47	\$1.71	\$6.79	\$7.94
63C3020	12	.57	2.07	7.33	9.33
63C3025	10	.79	2.90	10.05	13.05
63C3028	8	50.49	1.10	4.04	18.20
63C3032	6	.77	1.75	6.40	28.80
63C3036	4	1.10	2.49	9.15	41.20

New Code Rubber Covered Wire Double Braid



Offers better protection to mechanical wear than single braid wire. Should be used in all metallic conduits, flexible or rigid. Has one solid conductor, insulated with rubber compound over which are two saturated cotton braids. Ship. wt. 4 to 18 1/2 lbs. per 100 ft. according to size. Sold only in lengths listed.

Article Number	Size	Price For 10 ft.	Price For 25 ft.	Price For 100 ft.	Price For 500 ft.
63C3040	14	\$0.59	\$2.17	\$7.97	\$9.75
63C3045	12	.68	2.47	11.15	14.95
63C3050	10	.90	3.32	14.95	20.35
63C3055	8	50.54	1.25	4.53	20.35
63C3060	6	.83	1.77	6.95	31.25
63C3065	4	1.18	2.68	9.80	44.15

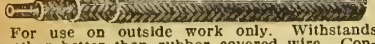
Duplex New Code Rubber Covered Wire



Consists of two solid conductors, each insulated with rubber compound, over which is one saturated cotton braid. Conductors so insulated are laid parallel and covered over all with saturated cotton braid. Used for wiring in metallic conduit. Ship. wt. 6 to 12 lbs per 100 ft. according to size. Sold only in lengths listed.

Article Number	Size	Price For 10 ft.	Price For 25 ft.	Price For 100 ft.	Price For 500 ft.
63C3080	14	\$0.50	\$1.14	\$4.17	\$18.75
63C3085	12	.58	1.33	4.86	21.85
63C3090	10	.75	1.79	6.57	29.55

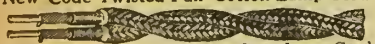
Weather-Proof Copper Wire



For use on outside work only. Withstands weather better than rubber covered wire. Conductor is of solid copper wire, covered with three layers of cotton braid, saturated with weatherproof insulating material. Ship. wt. 2 1/2 to 16 1/2 lbs. per 100 ft. according to size. Sold only in lengths listed.

Article Number	Size	Price For 10 ft.	Price For 25 ft.	Price For 100 ft.	Price For 500 ft.
63C3125	14	\$0.44	\$1.63	\$5.73	\$7.30
63C3130	12	.57	2.07	7.33	9.33
63C3135	10	.77	2.80	10.05	13.05
63C3140	8	50.45	1.12	3.75	16.90
63C3145	6	.65	1.48	5.40	24.35
63C3150	4	.93	2.10	7.30	35.05

New Code Twisted Pair Cotton Lamp Cord



Two conductor, twisted New Code Lamp Cord. Full coils tagged with Underwriter's inspection stamp. Conductor consists of fine copper wire strands, twisted together. Covering is of fine quality, interwoven yellow and green cotton. This cord is used for drop lights and extensions. Ship. wt. 6 to 12 lbs. per 100 ft. according to size. Sold only in lengths listed.

Article Number	Size	Price For 10 ft.	Price For 25 ft.	Price For 100 ft.	Price For 250 ft.
63C3175	18	\$0.52	\$1.15	\$4.21	\$9.45
63C3180	16	.61	1.38	5.05	11.90
63C3185	14	.91	2.07	7.59	17.10

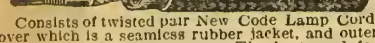
New Code Twisted Pair Silk Lamp Cord

New Code Twisted Pair Silk Lamp Cord. Covering is of high grade silk, in rich, fast colors. This cord is used for drop lights or portable lamps. Size No. 13 only. Weight, per 100 feet, 5 pounds. Order color wanted by article number. Sold only in lengths listed.

63C3190	Green	63C3198	Brown.
63C3192	Yellow.	63C3200	Maroon
63C3194	Old Gold.	63C3202	White.
63C3196	Old Oak.		

10 ft. .80c 25 ft. \$1.95 100 ft. \$7.50

New Code Reinforced Portable Lamp Cord



Consists of twisted pair New Code Lamp Cord, over which is a seamless rubber jacket, and outer braid of mercerized cotton. The best cord for portable extension lights, lamps and vacuum cleaners. Strands wear well. Wt. per 100 feet, 9 lbs. Sold only in lengths listed.

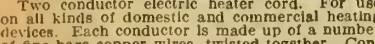
Article Number	Size	10 ft.	25 ft.	100 ft.
63C3250	18	\$0.64	\$1.45	\$5.30

Reinforced Portable Lamp Cord Saturated Braid

Same as above but covered with saturated braid. For extension lights and where cord is used in damp places, (not in water.)

Art. No.	Size	10 ft.	25 ft.	100 ft.
63C3255	16	\$0.96	\$1.96	\$7.15
63C3260	14	1.18	2.70	9.85

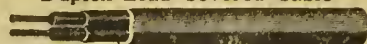
Electric Heater Cord



Two conductor electric heater cord. For use on all kinds of domestic and commercial heating devices. Each conductor is made up of a number of fine bare copper wires, twisted together. Conductor is enclosed in a covering of asbestos and mercerized cotton braid. Two conductors so insulated are twisted together. Very flexible and durable. Approved by Underwriters. Extra fine quality. Ship. wt. per 25 ft. 1 1/4 to 2 lbs. Sold only in lengths listed.

Article Number	Size	Price 8 ft.	Price 25 ft.
63C3265	18	\$0.96	\$2.80
63C3270	16	1.12	3.20
63C3275	14	1.20	3.45

Duplex Lead Covered Cable



For underground or underwater use. Consists of solid copper wire conductors, insulated with new code, rubber compound over which is a saturated taping. Two conductors so insulated are laid parallel and enclosed in a continuous lead sheath which practically is protection against the action of gases, acids and all other destructive elements ordinarily met with.

Article Number	Size Conductor	Approx. Weight 100 Feet Pounds	Price Per Foot	Price 100 Feet
63C3330	14	30	11c	\$ 8.75
63C3335	12	34	15c	12.50
63C3340	10	40	19c	15.15
63C3345	8	60	24c	19.25

Flexible Non-Metallic Conduit

We carry the very highest quality. Very flexible, non-kinking. Moisture and fire resisting. Used for various insulating purposes. If rubber covered wires are run between partitions, or crossed over each other, they are usually put inside either loom or conduit, to afford proper fire protection. Ship. wt. 6 to 28 lbs. per 100 ft. according to size.

Article Number	Inside Diam. Inches	Price For 10 ft.	Price For 25 ft.	Price For 100 ft.	Price For 250 ft.
63C3379	3/8	\$0.52	\$1.26	\$4.60	\$10.30
63C3380	1/2	.55	1.38	4.95	11.25
63C3385	3/4	.85	2.16	7.50	16.90
63C3390	1	1.15	2.75	9.95	22.50
63C3395	1 1/4	1.75	4.12	14.95	33.75
63C3399	1 1/2	2.50	5.73	20.85	46.90

Loom Fasteners

Holds loom to box securely and neatly. Eliminates possible friction and injury to insulation. Easy to install. Designed for punching 1/4 inch loom into 1/2 inch hole. Required wherever loom is run into a metal box. Ship. wt. 10, oz. per doz.

63C3626—Bushing for non-metallic conduit. Price, per doz. 23c

Flexible Armored Cable (BX)

Consists of two or three solid copper wire conductors, insulated with rubber, and two coverings of cotton braid, over which is a covering of flexible steel. Easier to install in many difficult places than any other kind of wire, especially in buildings already finished and in use. Weight, per 100 feet, about 44, 52 or 60 lbs.

Article Number	No. of Con'ds	Gauge Band S.	Price Per Foot	Price Per 100 Feet
63C3305	Two	14	16c	\$12.60
63C3310	Two	12	19c	14.75
63C3315	Three	14	19c	14.35

Box Connectors for Armored Cable. Connector for securing armored cable to outlet box, outlet box or push switch. Wall Box. Angle connectors are required where cable cannot be brought in at right angles. They also make a more compact and neater job. Fit all three size cables listed. Require 1/2 inch knock-out hole. Diam., 3/4-in. Wt., each, 1 to 5 oz.

Article Number	Style	Price Each
63C3630	straight	9c
63C3634	45° angle	20c
63C3638	90° angle	26c

Rigid Iron Conduit

Standard Enamelled Wrought Pipe. Thoroughly cleaned and covered with double coat of elastic enamel. Is weather, water, acid and alkali-proof. Non-corrosive. Easily bent without injury to the enamel. Supplied in 10-foot lengths. Threaded on both ends, with couplings on one end. We recommend the use of iron conduit in all new buildings. Though more expensive the system is better and safer.

Article Number	Size	Weight Per 100 Feet Pounds	Price Per 10 Feet	Price Per 100 Feet
163C800	1/2-in.	80	\$1.10	\$10.25
163C801	3/4-in.	120	1.30	11.95
163C802	1-in.	175	2.10	19.50

Conduit Entrance Fitting

Reversible entrance fitting for either vertical or horizontal pipe. Removal of hood permits straight pull on wires.

Service End Fittings. 63C3890—For 1/2-inch conduit. Three wire cover. Each. .48c

63C3893—For 3/4-inch conduit. Three wire cover. Each. .64c

63C3894—For 1-inch conduit with two wire cover. Each. .64c

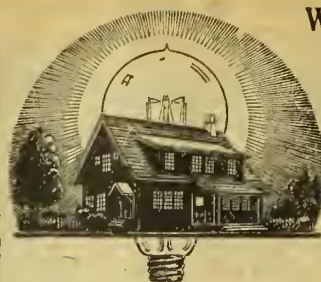
63C3895—For 1-inch conduit with two wire cover. Each. .78c

63C3896—For 1-inch conduit. Three wire cover. Each. .78c

Steel Cut-Out and Switch Box

An approved box is required for every cut-out switch or fused branch block. These boxes are National Electric Code Standard and meet all requirements. They are made of enameled sheet steel, with electro welded seams. Covers fit tight and open all the way. Boxes are strong, well made and neat in appearance. Are almost fire, water and dust proof. Have sufficient knock-outs for making all connections.

Article Number	Width Inches	L'th Inches	Depth Inches	Wt. about Pounds	Price Each
63C3550	4 1/2	9	3 1/2	3	\$0.80
63C3552	6	8	4	3 1/2	1.15
163C820	8	10	4	5 1/2	1.32
163C822	10	12	4	10	1.71
163C824	12	18	4	17	2.20
163C826	12	24	4	20	3.75



Wire Your House For Electric Light

The wiring materials we carry are selected from among the foremost standard lines. Every article listed is inspected most carefully so as to insure high quality. All materials listed meet the specifications of the National Board Fire Underwriters and when properly installed, will put all installations.

We give you the benefit of our quantity purchases in our low prices quoted here. You are always safe in sending your order for wiring materials as we will give you the benefit of any market decline. Likewise, should there be any advance in market prices, we reserve the right to advance our prices accordingly.

If you are in doubt as to what size wire you should use send for our Lighting Fixtures Catalog. Charts are shown in this catalog which indicate the size wire that should be used for all installations, regardless of the size of the load in watts or the distance this load is to be carried. If you are interested in Lighting Fixtures, see page 661.

Safety Entrance Switch

Two pole 30 ampere 250 volt Entrance Switch, mounted in 16 gauge steel box—externally operated. Current can be turned on or off without opening box. Close with a snap action so that operator cannot get close or fuse the blade and contact jaws by slow movement of the handle. Position of lever shows at a glance whether current is on or off. Can be locked with a padlock, making it impossible to open box and touch any live part. Size, 5x10 x4 in. Ship. wt. 6 lbs. Price, \$2.58



Octagon Outlet Boxes

Standard outlet boxes, at prices that mean a saving. Made of heavy stamped sheet metal. One of these boxes is required at each branch or outlet. Have knockouts for 1/2 inch conduit or armored cable. Octagon shape, makes them easy to install and permits of a better job. Have lugs and screws for covers.

Article Number	Diam.	Depth	Wt.	Price, Each
63C3690	3 1/4	1 1/2	6 oz.	17c
63C3695	4	1 3/4	7 oz.	20c

Gasoline Blow Torch

One of the finest and most popular Blow Torches on the market. Tank of polished brass. Special bronze burner. Improved air pump. Produces a solid blue flame, generating about 1500 degrees (Fahrenheit). Easily regulated. A line torch for electricians and linemen. Also suitable for paint burning, thawing out pipes, and for plumbers, tinners, etc. Has removable solder iron holder.

63C5864—Blow Torch. Capacity, 1 pt. Ship. weight, 3 lbs. Each. \$5.75

63C5866—Blow Torch. Capacity, 1 qt. Ship. weight, 4 lbs. Each. \$6.45

Baby Gasoline Torch

For Difficult Work in a Tight Corner. The Smallest Practical Torch Made. Lights with a match. Perfect and powerful. Burns without air pressure. A simple automatic tool, with nothing to get out of order or to be replaced. Tank is only 2 1/2 inches high and 1 1/2 inches in diameter. Requires no pumping. Always ready for use. Will burn steadily for one hour on one filling of gasoline. Ship. wt. 5 oz.

63C5860—Baby Gasoline Torch. Price, each. \$1.88



Soldering Set

63C5844—A complete outfit for doing ordinary small soldering. Consists of large soldering copper, bar of solder, powdered resin and directions. Put up in wooden box. The parts of this set are all good quality, making it suitable for electrical work and light household repairing. Shipping weight, 1 1/2 lbs. Price, complete set. \$1.70

Electric Soldering Irons

63C5870—Soldering iron as illustrated. L'th. 16 in. Diam. of tip, 1 in. Adapted for general small solder work around the house or manufacturing plant. Uses 200 watts current. Price. \$11.25

63C5872—Soldering iron same as above but for light soldering work for jewelers, telephone exchanges, etc. Length, 13 1/2 in. Diam. of tip, 3/4 in. Uses 75 watts current. Price. \$8.25

Electric Soldering Iron

63C5874—This soldering iron is of the same general construction as the iron listed above but is especially adapted for garage and general heavy work. Extra tips are especially adapted for soldering battery terminals and burning in connections. Uses 275 watts current. Length, 16 in. Diam. of tip shown in iron, 1 1/2 in.; hooked tip average diam. 1/2 in., small tip diam. 3/4 in. Ship. wt., about 4 lbs. Price, complete with three tips for use on 108 to 115 volt current, 6 ft. reinforced attach. cord and plug. \$16.20

We list a complete line of conduit fittings in our Lighting Fixtures catalog. Send for a copy.

Insulated Wire Connectors

No Soldering Necessary. Anyone can make a quick Underwriter's Approved electrical connection with these connectors. A screw driver is the only tool required. For fixture outlets and motor leads, these connectors do away with blow torch, solder and tap. They save time, money and material. Can be used for connecting sizes 12 and 14 single conductor wire only. Ship. wt., 2 oz.

63C2690—Each. \$1.00

63C2691—Ten for. \$1.00

Wire T Connectors

This connector is similar to the wire connector listed above, but is used where a "tap off" of the main line is desired. Can be used for connecting sizes 12 and 14 single conductor wire only. Ship. wt., 2 oz.

63C2692—Each. \$1.10

63C2693—Ten for. \$1.10

Wire Connector

63C2696—This connector will make and break a circuit for lamps, fans, small motors, or any apparatus using up to 10 amperes on 110 or less voltage currents. Can be easily installed on twisted, parallel or portal lamp cords up to 3/4 in. diameter. Made of high composition material with embedded brass connectors. Screw caps on each end prevent short and protect the connections. Length, 2 1/2 in. Outside diameter, 1 inch. Ship. wt., 3 oz. Price, each. \$2.00

Extension Cord

Extension Cord made of No. 18 Twisted Pair Cotton Lamp Cord. Has regular Edison base key socket, with one end and separate black composition attachment plug on the other. Every home, office and shop needs one or more extension cords. This kind for lights, fans, grinders, small motor etc. Ship. wt., about 10 oz.

63C4680—6 ft. Extension Cord Complete with socket and attaching plug. Each. \$1.20

63C4688—10 ft. Extension Cord complete with socket and attaching plug. Each. \$1.40

High Grade Pliers

Side cutting Pliers. Forged from best quality steel. A good tool for linemen and electricians. Ship. wt., 4 to 10 oz.

63C5810—5-inch Plier. Price, each. \$1.10

63C5812—6-inch Plier. Price, each. 1.10

63C5814—7-inch Plier. Price, each. 1.40

Best Hardened Tool

Side cutting Pliers. Forged from best quality steel. A good tool for linemen and electricians. Ship. wt., 4 to 10 oz.

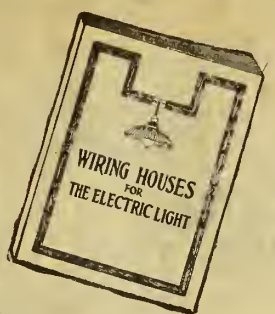
Tell You How To Do The Work Yourself

All Prices on This Page are Subject to Market Changes

Do Your Own Electric Wiring and Save Money

Offer you our Engineering and Estimating Service to select the necessary materials to wire your house or office for electricity. We have experts ready to serve you at any time. Send us a diagram of the floors you want wired, indicating where you want lights and state whether the wiring is under the process of construction or already built. We will then send you an exact list of materials required, to be used with a wiring diagram that you can easily follow. If you want to do the work yourself we will send a free instruction with the order. Electric wiring is not difficult. Any handy man can wire a house properly with the help we give. In case you want this instruction book before placing your order for materials, order by article number below.

3000—Book on modern methods of installing electric wiring in the home. Ship. wt., 5 oz. **25c**



Pendant Switch

63C4514—Pendant Switch. Suspended on drop cord to control current to fixture, fan or other device. Small neat size. Handy to turn current on or off. Brush brass finish. Ship. wt., 5 oz. **63c**



Porcelain Tubes

Unglazed Porcelain Tubes, 5/16 inside; 3/8 outside. Take either 14, 12 or 10 single braid rubber covered or weatherproof wire. Required wherever a wire is drawn through a partition or joist of any kind. Length given is from underhead to end. Wt. per hundred, 7 to 15 pounds.

63C3902—Length, 3 in. Per doz. **\$0.22**
163C3902—Length, 3 in. Per doz. **1.59**
63C3904—Length, 4 in. Per doz. **0.32**
163C3904—Length, 4 in. Per doz. **2.11**
63C3906—Length, 6 in. Per doz. **0.46**
163C3906—Length, 6 in. Per doz. **3.40**
63C3908—Length, 8 in. Per doz. **0.81**
163C3908—Length, 8 in. Per doz. **5.95**



Concealed Porcelain Rosette

Used with concealed wiring. For installing drop lights. Easy to install. Base is fastened in position and wired. Cord fastened to cap, and then turned onto base. Ship. wt., each, 5 oz. **19c**
63C3960—Price, each. **\$1.79**
 Ten for.....



Porcelain Cleat Rosette

Used with cleat wiring. For installing drop cords. Easy to install. Cap turns onto base. Ship. wt., each, 8 oz. **19c**
63C3965—Price, each. **\$1.79**
 Ten for.....



Glazed Porcelain Cleats

Take either 14, 12 or 10 wires. Two wire have 2 1/2 in. wire centers, three wire have 1 1/2 in. wire centers. Ship. wt., per doz. pair, 3 lbs. **\$0.70**

63C3920—2 Wire. Per doz. **4.95**
163C3920—2 Wire. Per doz. **7.00**
63C3922—3 Wire. Per doz. **4.95**
163C3922—3 Wire. Per doz. **4.95**

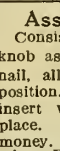


Round Split Porcelain Knobs

Old code No. 5 1/2 porcelain split knob. Height, 1 1/4 in. Diameter, 1 in. Hole, 1/4 in. Grooved to take two No. 12 or 14 wires. Ship. wt., per 100, 9 1/2 lbs. **\$0.44**
163C3935—Per 100..... **3.28**



New code No. 5 1/2 porcelain split knob. Ht., 1 1/4 in. Diam., 1 1/4 in. Hole, 1/4 in. in. Ship. wt., per 100, 11 lbs. **\$0.49**
63C3937—Per doz..... **3.58**
163C3937—Per 100.....



Assembled Split Knobs

Consist of a complete split knob assembled together with nail, all ready to fasten in position. Just pick up knob, insert wire and drive into place. Save time, labor and money. Take No. 10, 12 or 14 wire. Weight, per 100, 10 lbs. New code standard. Diam. 1 1/4 in. with leather nail head and nail. **\$0.63**
63C3939—Per doz..... **4.70**
163C3939—Per 100.....



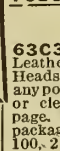
Solid Porcelain Knobs

Old code No. 5 1/2 solid porcelain knob. Height, 1 1/4 in. Diameter, 1 in. Hole, 1/4 inch. Groove, 3/16 in. Ship. wt., per 100, 3 1/2 lbs. **\$0.28**
63C3925—Per doz..... **1.98**
 New Code No. 5 1/2 solid porcelain knob. Height, 1 1/4 in. Diameter, 1 1/4 in. Hole, 1/4 in. Groove, 3/16 in. Ship. wt., per 100, 11 1/2 lbs. **\$0.34**
163C927—Per doz..... **2.42**
163C928—Per doz..... **2.42**
 New 4 solid porcelain knob. Height, 1 1/4 in. Diameter, 1 1/4 in. Hole, 1/4 in. Groove, 3/16 in. Ship. wt., per 100, 20 lbs. **\$0.44**
63C3929—Per doz..... **3.28**
163C929—Per 100.....



Reversible Porcelain Knobs

Square Reversible split knob. Top and bottom pieces are the same. Height, 1 1/4 in. Width, 1 1/4 in. Grooved for two No. 12 or 14 wires. Ship. wt., per 100, 17 lbs. **\$0.53**
63C3940—Per doz..... **3.85**
163C3940—Per 100.....



Nail Heads

63C3950—Leather Nail Heads for use with any porcelain knobs or cleats of this page. Weight, per package of about 100, 2 oz. Price..... **9c**

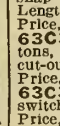


Round Head Blued Iron Wood Screws

Ship. wt. per gross, 2 1/2 lbs. and 3 lbs. **63C3952**—For use with cleats and split knobs. Length, 2 1/2 in. Size 11. Price, per dozen 1 c. Per gross **\$1.05**
63C3953—For split knobs. Length, 3 in. Size 11. Price, per dozen 1 c. Per gross **\$1.35**
63C3954—For use with cleats and split knobs. Length, 2 1/2 in. Size 11. Price, per dozen 1 c. Per gross **\$1.05**
63C3955—For wood moulding, rosettes, cap switches, without switch bases. Length, 1 1/4 inches. Size 6. Price, per doz. **4c** Per gross **36c**
63C3957—For wood moulding, rosettes, cap switches, without switch bases. Length, 1 1/4 inches. Size 6. Price, per doz. **4c** Per gross **36c**
63C3959—For porcelain ceiling buttons, porcelain base switches, porcelain cut-out blocks. Length, 1 1/2 in. Size 8. Price, per doz. **5c** Per gross **48c**
63C3958—For snap switches with switch bases. Length, 2 1/4 in. Size 6. Price, per doz. **6c** Per gross **58c**

Flat Head Bright Steel Wood Screws

Ship. wt., per gross, 1 to 2 1/2 lbs. **63C3956**—For wall switch boxes. Length, 1 1/2 in. Size 5. Price, per doz. **3c** Per gross **28c**
63C3954—For conduit straps, cut-out boxes, outlet boxes and slate base switches. Length 1 in. Size 8. Price, per doz. **4c** Per gross **36c**
63C3957—For wood moulding, rosettes, cap switches, without switch bases. Length, 1 1/4 inches. Size 6. Price, per doz. **4c** Per gross **36c**
63C3959—For porcelain ceiling buttons, porcelain base switches, porcelain cut-out blocks. Length, 1 1/2 in. Size 8. Price, per doz. **5c** Per gross **48c**
63C3958—For snap switches with switch bases. Length, 2 1/4 in. Size 6. Price, per doz. **6c** Per gross **58c**



One-Piece Rosette

63C3980—One-piece Rosette. For any style wiring. Ship. wt., each, 5 oz. Price, each, **\$0.12**
 Ten for..... **1.10**



Brass Shell Key Sockets

National Electric Code Standard Sockets with key to turn current off and on. Brass shell, fiber lined. 1/2-inch cap. Take any Edison base lamp. Ship. wt., each, 3 oz. The brands we carry are of the best quality of their respective classes.

63C4501—Brush Brass Finish. Price, each..... **39c**
63C4503—Polished Nickel Finish. Price, each..... **47c**
63C4505—Oxidized Copper Finish. Price, each..... **47c**



New Wrinkle Key Sockets

63C4501—Brush Brass Finish. Price, each..... **39c**
63C4503—Polished Nickel Finish. Price, each..... **47c**
63C4505—Oxidized Copper Finish. Price, each..... **47c**

Independent Key Sockets

63C4511—Brush Brass Finish. Price, each..... **37c**

Brass Shell Keyless Sockets

National Electric Code Standard Sockets without keys. Brass shell, fiber lined. Have 1/2-inch cap. Ship. wt., each, 3 oz. The brands we carry are of the best quality of their respective classes.

63C4520—Brush Brass Finish. Price, each..... **36c**
63C4522—Polished Nickel Finish. Price, each..... **43c**
63C4524—Oxidized Copper Finish. Price, each..... **43c**

Independent Keyless Sockets

63C4530—Brush Brass Finish. Price, each..... **34c**

Pull Chain Socket

Pull Chain Socket. Brass shell, fiber lined. Has 8-in. chain, 1/2-in. cap. Ship. wt., each, 3 oz. **63C4535**—Brush Brass Finish. Price, each..... **72c**
63C4537—Oxidized Copper Finish. Price, each..... **84c**
63C4539—Polished Nickel Finish. Price, each..... **84c**



Pendant Cap Socket

Standard socket with composition bushing in the cap. Intended only for use on drop cords. Bushing is required in each of socket when used on drop cord. Finished in brushed satin brass. Ship. wt., 3 oz. **63C4494**—Pendant cap key socket. New Wrinkle Brand. Each..... **39c**
63C4495—Pendant cap, key socket, Independent Brand. Each..... **37c**

Composition Bushings

63C4560—Composition Bushings. Required in all sockets which are hung from drop cord. Fits any standard 3/8-inch cap socket. Ship. wt., per dozen, about 1 oz. Price, each..... **1c**
 Per hundred..... **80c**

Porcelain Sockets

National Electric Code Standard Sockets. White porcelain body and key. Threaded 1/2-inch brass cap, in satin (brush) finish. For use on fixtures, or drop cord. Ship. wt., each, 5 and 7 oz. **63C4545**—Porcelain Key Socket. Each. **43c**
63C4549—Porcelain Keyless Socket. 6 oz. Price, each..... **39c**



Pull Chain Porcelain Socket

Porcelain Pull Chain Socket. Is fitted with nickel-plated porcelain cap, threaded for 1/2-inch pipe. An especially desirable socket for use in bathrooms finished in white enamel. Chain fitted with insulating break to prevent accidental shock when hands are wet. Shipping weight, 8 oz. **63C4516**—Price..... **\$1.12**



Wall Box for Loom or Knob and Tube Wiring

A metal wall box must be used with every wall receptacle or flush switch. One-gang box is used where one switch is installed. Two-gang box is used where two switches are installed together, etc. This type box is used with flexible non-metallic conduit "loom," and on knob and tube systems. Depth, 2 1/2 in. Knockout diameter, 3/4 in. for 1/2-in. loom. Any standard push switch or wall cap. No. 10, per gang, about 11 oz.

Article Number	Number Gangs	Price Each	Price for Ten
3670	One	25c	\$2.38
3672	Two	44c	4.25
3674	Three	58c	5.40

Wall Box for Conduit or Armored Cable

For push switches and wall receptacles. Has knockout holes for 1/2 in. conduit and armored cable (B. X.). Any number of gangs required can be made by adding spacers to the two-gang box. Size of single gang box, length, 3 in., width, 2 in., depth, 2 1/2 in. Price, per gang, about 14 oz. **3680**—Single gang box. **30c**
3682—Two-gang box. **53c**
3684—Spacers. Price, each..... **25c**

Push Button Flush Switch

High grade switches. Standard shallow depth, 1 1/2 inches. Ship. weight, per 125 volt, 10 ampere current, 250 volt, 5 ampere current.

NOTE—All push button flush switches listed below fit standard single gang boxes and take single gang switch plates. Use two or three gang boxes and plates only for two or three switches are to be installed side by side.

63C4160—Single Pole. Price, each..... **\$0.37**
 Ten for..... **3.48**

63C4162—Double Pole (fits a single gang box), breaks the circuit in both wires. Price, each..... **\$0.53**
 Ten for..... **5.10**

63C4164—Three Way. Two of these switches installed at separate places are tied together to control the same light or set of lights. Either switch will light off or on independently of the other. Price, each..... **\$0.50**
 Ten for..... **5.20**

63C4166—Four Point. Each. **1.80**

Push Button Flush Switch Face Plates

Made of heavy solid brass. The equal in service to any plate, regardless of price. Fit all standard Push Button Flush Switches. Ship. wt., per gang, about 2 oz.

Article Number	No. Gangs	Finish	Price, Each
3C4175	1	Brush	14c
3C4177	2	Brush	25c
3C4179	3	Brush	42c
3C4181	1	Oxidized	16c
3C4183	2	Copper	48c
3C4185	3	Copper	48c
3C4187	1	Nickel	16c
3C4189	2	Plated	32c
3C4191	3	Plated	48c

Baseboard Receptacle

Adapted to take any standard Edison Base Screw Attachment Plug. This receptacle is useful for connecting electric irons, toasters, table lamps, etc., to current. When not in use, is level and flush with surface to which it is fastened. Price includes receptacle and plate. Ship. weight, 10 oz.

Article Number	Finish of Plate	Price, Each
63C4202	Brush Brass	54c
63C4204	Ox. Copper	58c
63C4206	Nickel	58c

Combination Plate

63C4195—98c Each.....

With this plate you can install a push button switch and flush receptacle in a two-gang box (63C3672 or 63C3682). Makes a fine installation. Brass brush (satin) finish. Ship. wt., 4 oz.

Standard Flush Receptacles

Take any make of standard attachment plug caps. Devices can be quickly connected. Fit same metal wall boxes as flush switches. Complete with brass plate. Ship. wt., each 12 oz.

63C4221—Single Receptacle. Price..... **\$1.25**
63C4225—Double Receptacle. Price..... **\$1.60**
63C4673—Composition caps, one for each should have (see device). Ship. wt., 2 oz.

63C4230—Brass covered cap. Each..... **30c**

Snap (Turn Button) Switches

A high grade switch. Approved National Electric Code Standard. The three way switches listed can be arranged to control the same light from two different places.

125 volt 5 ampere; or 250 volt 3 ampere

63C4102—Non-Indicating Single Pole. Each..... **34c**
63C4104—Indicating Single Pole. Each..... **38c**
125 volt 3 ampere or 250 volt 3 ampere
63C4110—Three way. (Three Point). Price, each..... **58c**
125 volt 10 ampere; 250 volt 5 ampere
63C4114—Non-Indicating Single Pole. Each..... **60c**
63C4116—Indicating Single Pole. Each..... **68c**
63C4118—Three way. (Three Point). Each..... **96c**
 Shipping weight, each, 4 oz.

Porcelain Switch Bases

Required to be used with snap switches. Ship. wt., about 3 oz. **63C4150**—For concealed wiring. Takes 5 ampere switch. Each **6c**; per hundred..... **\$7.20**
63C4152—For concealed or clear wiring. Takes any 5 or 10 ampere switch. Price, each, **8c**; per hundred..... **\$7.20**

Panel Box Switch

63C4360—Panel Box Switch. For use in panel or steel box. Price, each..... **36c**
 where each circuit is to be controlled with a separate switch.

Capacity, 125 volt, 30 amperes. Ship. wt., 26 oz. Size, base, 3x6x1 1/2 in..... **88c**

Slate Base Entrance Switches

Switches for main line cut-out where the feed wires enter residence.

Stores or small factories. Size, of two-pole switch, 3 1/2x6 1/2x1 1/2 in. Size of 3-pole, 5x6 1/2x1 1/2 in. Capacity, 250 volts, 30 amperes.

63C4315—Slate Base Switch. Two-Pole. For link fuses. Ship. wt., 1 1/2 lbs. Price, each..... **96c**
63C4317—Slate Base Switch. Three-Pole. For link fuses. Ship. wt., 2 1/4 lbs. Price, each..... **\$1.48**
63C4319—Slate Base Switch. Two-Pole. For cartridge fuses. Ship. wt., 1 1/2 lbs. Price, each..... **\$1.05**

Slate Base Cut-Out Switch

Approved new code switch. Blades of fine copper mounted on oiled slate base. Capacity, 250 volts, 30 amperes.

63C4323—Single-Pole Switch. Size over all, 2x6x1 1/2 in. Ship. wt., 12 oz. Price, each..... **38c**
63C4325—Two-Pole Switch. Size over all, 3 1/2x4 1/2x1 1/2 in. Ship. wt., 1 lb. Price, each..... **65c**
63C4327—Three-Pole Switch. Size over all, 3 1/2x5 1/2x1 1/2 in. Ship. wt., 1 1/2 lbs. Price, each..... **98c**

Cartridge Fuses

National Electric Code approved. Dimensions over all, 2x 3/4 in. Ship. wt., each, about 1/2 oz. Select fuse that will pass just enough current for line with maximum load on.

63C4390—3 amp. **63C4398**—15 amp.
63C4392—6 amp. **63C4400**—20 amp.
63C4412—6 amp. **63C4402**—25 amp.
63C4414—10 amp. **63C4404**—30 amp.
 Price each **16c** Ten for **\$1.48**

Fuse Links

For use on slate base switches. 1 1/2 in. centers. Ship. wt., per dozen, 1 oz.

63C4410—3 amp. **63C4418**—15 amp.
63C4412—6 amp. **63C4420**—20 amp.
63C4414—10 amp. **63C4422**—25 amp.
63C4416—12 amp. **63C4424**—30 amp.
 Price, per dozen..... **35c**

Push Button Switch

How often, when using an electric iron have you forgotten whether the current was on or off. This switch solves the problem and is light at your finger tips. Dark and light buttons tell at a glance whether the current is on or off. No stretching up to a lamp socket or pulling out of the attachment plug is necessary. This switch is a great convenience on all household electrical appliances such as toaster, grill, iron, percolator, etc. Ship. wt., 5 oz. **63C4512**—Price, each..... **60c**

Ever Ready Refillable Fuse Kit

Every home, factory, garage or shop using electric current should have a reserve supply of fuses to avoid annoying and expensive delays which occur when fuses blow and no extra ones are on hand. The Ever Ready Refillable Fuse Kit contains 10 fuses and 50 refills and insures your having fuses on hand when you need them. Refills will last indefinitely. Price per kit containing 10 fuses and 30 refills..... **\$1.38**

Order amperage wanted by article number.

63C6970—6 Amp. **63C6973**—20 Amp.
63C6971—10 Amp. **63C6974**—30 Amp.
63C6972—15 Amp.

Edison Base Plug Fuses

For use on currents up to 125 volts. In selecting plugs, choose the smallest size that will pass just enough current for line with maximum load on. Ship. wt., each, 1 oz.

63C4370—3 amp. **63C4378**—15 amp.
63C4372—6 amp. **63C4380**—20 amp.
63C4374—10 amp. **63C4382**—25 amp.
63C4376—12 amp. **63C4384**—30 amp.
 Price, each, 6 1/2 c ten for..... **58c**

Refillable Fuse Plug

The most economical fuse plug. When fuse blows out it can quickly and easily be renewed for about a cent. Order a package of fuse plug renewals listed below with each plug.

Price, each..... **14c**
 Order amperage wanted by Article Number.

63C6935—3 amp. **63C6941**—15 amp.
63C6937—6 amp. **63C6943**—20 amp.
63C6939—10 amp. **63C6945**—30 amp.

Renewals for Refillable Fuse Plug

Get a package of these refills with each refillable plug and end

Our Electric Bulbs are the Very Best Quality

All Items on This Page Subject to Market Changes



Benjamin Plug Cluster

The Benjamin Plug Cluster screws into any regular Edison Base lighting socket. It gives the socket two or three outlets instead of one. It saves the bother of removing the light to attach whatever appliance you may wish to use. You need these extra outlets for your toaster, fan, washing machine, iron, etc. Ship. wt., each, 7 and 10 oz.

63C4485—Benjamin 2-light cluster. **\$1.14** Each.
 Three for..... **3.15**
63C4487—Benjamin 3-light cluster. **1.32** Each.
63C4484—Shade Holder for above clusters. Each..... **.12**

This device gives you two outlets instead of one. Used in connection with flush receptacles or sockets. Attaches to receptacle by inserting prongs of any standard attachment plug cap through slots. Rated at 660 watts. Ship. wt., 3 oz.

63C4478—Each..... **35c**

Luminous Socket Locator
63C4788—A very handy device for locating sockets in the dark. Attach to pull chain or key sockets. Glows in the dark and enables you to locate the fixture at once. Attach one to every fixture not controlled by a wall switch and you will find it very useful. Ship. wt., of 3, 5 oz.

Three for..... **60c**

Current Tap
63C4480—Screws into regular socket. Cord may be run from it to connect current to a motor, electric iron, fan or other apparatus, in addition to having light at the socket tapped from. A very handy device. Porcelain body and cap. Ship. wt., 6 oz.

Price..... **46c**

Pendant Cap Porcelain Socket
 Porcelain Key Socket. Has porcelain pendant cap. For use on drop cords, in damp places or basements. Shipping weight, 6 ounces.

63C4554—Price, each..... **39c**

Porcelain Key Receptacle
 Clean Type Porcelain Receptacle. Fitted with key to turn current on and off. For use with surface wiring in basements, cellars or other damp places. Shipping weight, 7 oz.

63C4517—Each..... **44c**

Weather-Proof Socket
63C4582—Porcelain weather-proof socket. For outside wiring. Has 6-inch wire leads to connect on to supply line. Ship. wt., each, 5 oz.

Price, each..... **17c**

Porcelain Receptacle
63C4580—Porcelain receptacle. Used for work in and out doors. Screw holes 2 in. on center. Ship. wt., 4 oz.

Price, each..... **18c**

Composition Plug
63C4672—Separable black composition Edison base Attachment Plug. Cap is interchangeable with Trumbull, Bryant, General Electric, Hubbell and Cutler-Hammer standard receptacles and plugs. A neat and compact plug. Very strong and durable. Ship. wt., each 3 oz. Price, each..... **24c**
63C4673—Extra plug caps. Each..... **17c**

Porcelain Attachment Plug
63C4670—Separable attachment plug. Porcelain body and composition cap. A first-class plug in every respect. Holds together firmly and can be separated at any angle. Ship. wt., each, 4 oz.

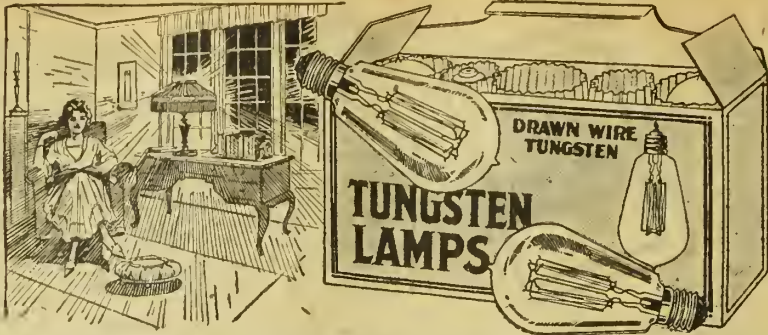
Price, each..... **29c**

Attaching Cord
 Fits all makes of Electric Irons, Toasters, and other electrical heating devices having a detachable cord. Consists of 7 ft. of heater cord with separable plug on one end for attaching to socket and plug on other end for attaching to heating device. Ship. wt., 1 lb.

63C4682—Complete as illustrated with indicating switch in cord, providing a handy means for controlling current. **\$2.90** Each.
63C4684—Same as above but without control switch. Each..... **\$2.25**
63C4671—Plug only for attaching to heating device. Ship. wt., 4 oz. Price..... **60c**

Benjamin Stand Lamp Clusters
 These stand lamp clusters furnish an easily wired unit for table and floor lamps. Complete cluster as illustrated consists of pull chains, cluster body, top ornament, stem with brass casing, unsliding ring and 1/2-in. coupling. Roman gold finish. Height to shade support, approx. 8 1/2 in. Ship. wt., 2 lbs.

63C4690—2-light cluster complete with one pull chain..... **\$2.65**
63C4692—3-light cluster complete with two pull chains..... **\$3.40**
63C4698—Flange threaded for 1/2-inch pipe. Often used in place of 1/2-in. coupling we furnish with complete cluster unit. Price, each..... **25c**



We handle lamps only of the very best quality. We guarantee them and will replace any lamps not satisfactory in every way. Tungsten lamps produce three times as much light as the old type carbon lamps on the same amount of current.

Shipping weight, per package of five, 3 to 5 pounds according to size.

Standard 110-Volt Tungsten Lamps

For Use on 108 to 115-Volt City Lighting Current or 55-Cell Farm Lighting Plants

With clear bulbs.			With Bowl Frosted Bulbs			With Full Frosted Bulbs		
Article Number	Watts	Five For	Article Number	Watts	Five For	Article Number	Watts	Five For
63C4803	10	\$1.75	63C4839	10	\$1.95	63C4823	10	\$1.95
63C4805	15	1.75	63C4840	15	1.95	63C4825	15	1.95
63C4809	25	1.75	63C4842	25	1.95	63C4829	25	1.95
63C4811	40	1.75	63C4843	40	1.95	63C4831	40	1.95
63C4812	50	1.75	63C4844	50	1.95	63C4832	50	1.95
63C4813	60	1.95	63C4845	60	2.20	63C4835	60	2.20
63C4815	100	4.40	63C4846	100	4.80			

Standard 220-Volt Tungsten Lamps

For Use on 210 to 230-Volt Current

63C4920	25 watts, 20 C. P.	Clear Bulbs. Five for.....	\$1.95
63C4924	50 watts, 45 C. P.	Clear Bulbs. Five for.....	1.95
63C4926	100 watts, 97 C. P.	Clear Bulbs. Five for.....	4.95

Standard 110-Volt Nitrogen Gas Filled Lamps

For use on 108 to 115-volt City Lighting Current or 55 Cell Farm Lighting Plants.

Clear Bulbs			With Frosted Bottoms			Nitrogen lamp sizes, 50 to 250 watts, in a regular Edison Base. 300 Watt and larger sizes have Mogul Base. Ship. wt., 1 to 8 lbs., according to size.		
Article Number	Watts	Price Each	Article Number	Watts	Price Each	Article Number	Watts	Price Each
63C4870	50	\$0.56	63C4876	50	\$0.59	63C4823	10	\$1.95
63C4872	75	.60	63C4878	75	.64	63C4825	15	1.95
63C4874	100	.94	63C4880	100	.98	63C4829	25	1.95
63C4817	200	1.68	63C4882	200	1.80	63C4831	40	1.95
63C4849	250	2.12	63C4883	250	2.28	63C4832	50	1.95
63C4850	300	2.56	63C4884	300	2.68	63C4835	60	2.20
63C4852	400	3.28	63C4886	400	3.28			
63C4854	500	3.68	63C4889	500	3.88			

White Opal Nitrogen Lamps For 110-Volt Current.

This is a new, highly efficient lamp which marks an important step forward in lighting. It gives a good light, so well diffused that all glare is avoided. The pear shaped china-white tipless bulb thoroughly diffuses and softens the light.

63C4860—50-watt size. Each **57c**
63C4862—75-watt size. Each **79c**
63C4864—100-watt. Each **\$1.27**

Type C-2 Blue Nitrogen Bulbs

Use for color matching and to produce daylight effect lighting. For 110 Volt Current.

Article Number	Watts	Price Each	Base	Lb.	Diam. Inches
63C4893	75	\$0.68	Edison	5 3/4	2 1/2
63C4894	100	1.07	Edison	7 1/2	3 1/2
63C4895	150	1.44	Edison	7 3/4	3 1/2
63C4899	200	1.92	Edison	8 1/2	3 3/4
63C4896	300	2.92	Mogul	9 3/4	4 3/8
63C4897	500	4.32	Mogul	10	5

Tungsten Sign Lighting Lamps

Clear Bulbs
 All standard Edison screw bases. Bulb diameter 1 3/4 inches. Length over all 4 1/4 inches. The 11 to 12 1/2 volt are intended to be wired 10 in series and the 55 to 65 volt 2 in series on 110 to 120 volt circuits. The 11 to 12 1/2 volt lamps can also be lighted from a 12 volt storage battery. Ship. wt. per package of five, 4 lbs. Five for..... **\$1.75**

Order by article number.

Article Number	Volts	Watts
63C5001	11 to 12 1/2	2 1/2
63C5005	11 to 12 1/2	5
63C5009	55 to 65	5

Carbon Lamps

Best quality new Class A Carbon Lamps. Guaranteed life. Made by one of the most reliable factories. New lamps of the best quality. Vastly superior to the re-filled lamps at slightly lower prices. Ship. wt., per package of 5 lamps, about 5 lbs.

63C4970	8 C. P. 110 volt.	Five for.....	\$1.00
63C4972	16 C. P. 110 volt.	Five for.....	\$1.05
63C4974	32 C. P. 110 volt.	Five for.....	\$1.65

Round Frosted Tungsten Lamps

Candelabra base for 110-volt current.
63C4981—Five for **\$3.94**
 Drawn tungsten wire filament. Diameter, 2 1/2 in. Full frosted. 15 watt, 12 candle power. Ship. wt., per pack. of five, 4 lbs.

Edison base for 110-volt current.

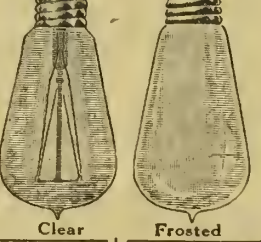
Article Number	Watts	Diam. Bulb Inches
63C4912	25	2 3/8
63C4914	25	2 3/4
63C4916	40	3 1/2

Lamps for Farm Lighting Plant Current

These lamps are for Electric Lighting Plant Current. The 32 volt lamps are for use on 30-32 volt current (15 or 16 cell storage battery plants). The 60-65 volt lamps are for 30 to 32 cell lighting plants. Be sure to order lamps of the proper voltage. Ship. wt., per package of five, 3 to 5 lbs., according to size.

32-Volt Tungsten Lamps Clear Bulbs

Article Number	Watts	Five For
63C4928	5	\$1.75
63C4930	10	1.75
63C4932	15	1.75
63C4934	20	1.75
63C4936	25	1.75
63C4940	50	1.75



32-Volt Tungsten Lamps Full Frosted

Article Number	Watts	Five For
63C4943	5	\$1.95
63C4945	10	1.95
63C4947	15	1.95
63C4941	20	1.95
63C4953	25	1.95
63C4957	50	1.95

Round Frosted Tungsten Lamps For 32-Volt Current Regular Edison base.

Article Number	Watts	Dia. Bulb	Price Five
63C4958	10	2 3/8	\$2.85
63C4960	20	2 3/4	2.85
63C4959	40	3 1/2	2.85

Nitrogen Lamps 30-32 Volt
 For 15 and 16 cell Farm Lighting Plants.
 These are highly efficient nitrogen gas filled lamps that produce a brilliant white light.

Article Number	Watts	Price Each
63C4900	25	\$0.59
63C4901	50	.59
63C4903	75	.68
63C4905	100	1.02
63C4907	150	1.70
63C4909	250	2.55

All of above lamps fit the regular Edison sockets.



Dim-a-lite

The Dim-a-lite is an interchangeable attachment dimming a single electric lamp. A pull of the produces five changes light—full, dim, low, light, and out. Saves from 75 per cent of the current according to position. Can be changed from lamp. Ship. wt., 5 to 7 oz. Brush (satin) brass fit. Can be used on any 40 watt smaller lamp.

63C4990—Dim-a-lite for 110 volt current. Price, each..... **\$1.14**
63C4991—Dim-a-lite for 32 volt current. Price, each..... **\$1.14**
63C4992—110 volt Dim-a-lite. With shade Holder Attachment. Price, each..... **\$1.14**



Hylo Lamp

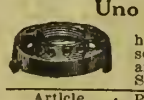
Two lights in one lamp. A bright light, a dim light, or out, each a pull of string. Flents of light read or work by or a light to show the way.

63C4980—Hylo Mazda Lamp, 25 Watts, 110 V. Price, each..... **8c**
63C4982—Hylo Mazda Lamp, 40 Watts, 110 V. Price, each..... **8c**
63C4984—Hylo Mazda Lamp, 110 volt, 16 C. P. Price, each..... **5c**
63C4986—Hylo Mazda Lamp, 25 Watts, 110 V. Price, each..... **8c**
 Shipping weight, each, about 1 pound.



Shade Holder

63C4730—Electric Shade Holder, 3/4 inch size. Made of strong heavy brass. Always holds shade level. Brush (satin) brass finish. Ship. wt., each, about 1/2 oz. Fits any standard brass shell socket. Price, each..... **1c**
63C4732—Electric Shade Holder, 3/4 inch size. Price, each..... **1c**



Uno Shade Holder

The latest and best shade holder made. Screws on to sockets having UNO threads. Flat and strong. Made of heavy brass. Ship. wt., each, 1 oz.

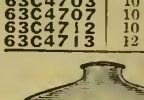
Article Number	Price Each	Size Holder	Finish
63C4735	10c	2 1/2 in.	Br. Brass
63C4739	13c	2 3/4 in.	Nickel
63C4740	13c	2 3/4 in.	Br. Brass
63C4741	19c	3 1/2 in.	Br. Brass



Metal Lamp Shades

Best quality finely finished steel lined lamp shades. W/ enamel inside. Green enamel outside. Wt., each, 4 to 8 lbs. All have 2 1/2 in. fitters.

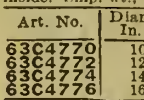
Article Number	Diam. In.	Style	Price Each	Dozen
63C4702	8	Deep Cone	24c	\$2.70
63C4703	10	Deep Cone	35c	3.60
63C4707	10	Shallow Cone	30c	3.00
63C4712	10	Flat	25c	2.50
63C4713	12	Flat	45c	4.50



Porcelain Lined Reflector

Best quality type reflector. Nitrogen Type Lamps. Green porcelain enamel.

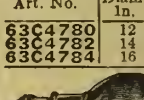
Art. No.	Diam. In.	Filter	Lamp size watts	Price Each
63C4770	10	2 1/2 in.	25	\$0.75
63C4772	12	2 3/4 in.	40	1.10
63C4774	14	3 in.	60	1.40
63C4776	16	3 1/2 in.	100	1.80



Dome Reflectors

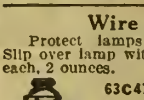
One piece steel dome reflector complete with socket and fitting threaded for 1/2 inch pipe. For use with Nitrogen Type Lamps. Reflector deep enough to afford protection against direct glare from filament. White porcelain enamel inside, green porcelain enamel outside. Ship. wt., 5 to 7 lbs.

Art. No.	Diam. In.	Height	Lamp size watts	Price Each
63C4780	12	8 in.	75	\$3.60
63C4782	14	10	100	4.50
63C4784	16	10 1/2 in.	200	4.90



Parabola Reflector

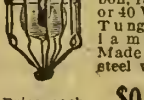
Parabola reflector. Green outside, frosted aluminum inside. Diameter, 7 in. Ship. wt., 1 lb. Shade only..... **7c**



Wire Lamp Guards

Protect lamps against accidental breakage. Slip over lamp without holder. Shipping weight, each, 2 ounces.

Article Number	For Lamps Up to	Each	Dozen
63C4721	32 C. P. carbon, 60 Watt Tungsten or smaller lamps.	34c	\$3.60
63C4745	60 watt	44c	4.40
63C4747	75 watt	48c	4.80
63C4749	100 watt	48c	4.80
63C4751	200 watt	72c	7.20



Lamp Guard with Key Lock

Protect lamp guard with key lock to prevent theft as well as breakage. A extra strong guard. One key furnish with each dozen guards.

Price, each..... **\$0.21**
 Dozen..... **2.15**



Key for Lamp Guard

63C4728—Key for 63C4745-51 lamp guards. Price each..... **7c**

Let Us Help You Save on Lighting Fixtures



163C1090—
Wired for elec-
tricity. Price... \$6.35

Mission
Style
Wood
Portable
Lamp

A fine looking mis-
sion style lamp, made
of selected oak in
smooth waxed golden
oak finish. Blended
amber green art glass
panels. Shade, 14 in.
wide. Height, 23 in.
Key socket. Six foot
cord with attaching
plug. Ship. wt., 15 lbs.



163C1091—\$11.60
Complete.

Metal
Portable
Electric
Lamp

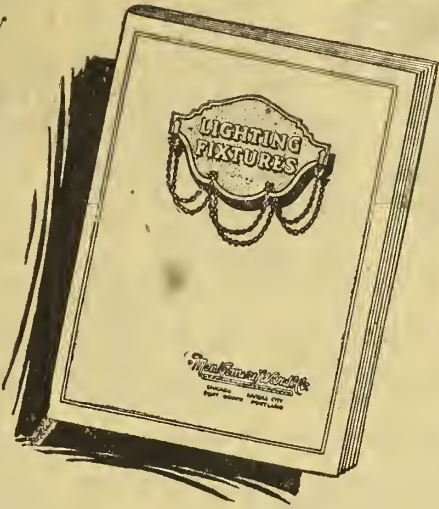
Portable Electric Lamp
Six panel amber ivory
art glass shade overlaid
with cast metal floral
decorations in leaf and
vine design. Cast metal
base richly embossed in
vine and leaf design and
finished in Statuary
Bronze and green. Ht.,
22 in. Shade diameter, 16
in. Full chain socket.
Attaching cord
and plug.
Ship. wt., 40 lbs.

It Will Pay You to Send for a Copy of This Large 64-Page Catalog

A wide variety of designs are shown from which you can select a set of fixtures that will light your home properly and improve the decorative effect of each room. You will find it easy to choose fixtures from this catalog exactly suited to your style of furnishings.

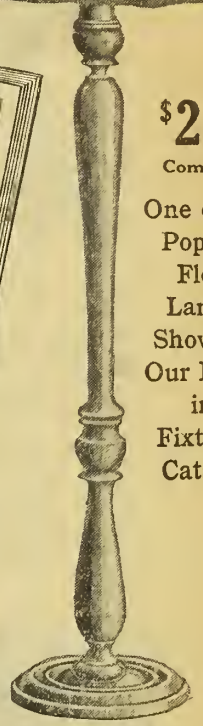
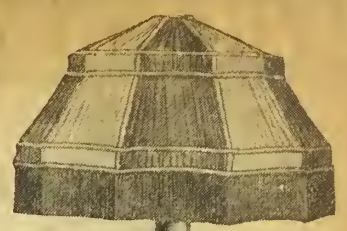
Our fixtures are as fine as are made. The finish is the very best and the workmanship careful and exact—every detail is just right. They are shipped completely wired ready to install. Each fixture is fitted with wire connectors so that any handy man can easily install it, even though he has had no previous experience of this kind. The only tools needed are a screw driver and a pair of pliers.

Get this catalog, look over our prices and see how much we can save you on high quality lighting fixtures. We have supplied fixtures for thousands of homes and they have invariably met with enthusiastic approval. When you buy from us our Guarantee absolutely protects you, for you need not keep the fixtures unless they satisfy you in every particular.



Free Engineering and Estimating Service

We offer our Engineering and Estimating Service to help you select the necessary materials to wire your house or buildings for electricity. We have experts ready to serve you promptly at any time. Send us a diagram of the floors you want to wire, indicating where you want lights and state whether the building is under the process of construction or already built. We will then send you an exact list of the materials required, together with a wiring diagram that you can easily follow. If you want to do the work yourself we will furnish an instruction book without charge. Electric wiring is not difficult. Any handy man can wire a house properly with the help we give.



\$28.85
Complete
One of the
Popular
Floor
Lamps
Shown in
Our Light-
ing
Fixtures
Catalog

Free
Book
Send
for It

163C1093—Complete, wired for electricity. Price... \$28.85
A Big Floor Lamp Bargain. Beautifully turned solid wood base in dull rubbed mahogany finish. Extra deep 8 panel silk shade. Choice of Blue or Rose colors. Lined with rose colored satin. Finished with braid and 4 inch chenille fringe. Gives a very beautiful lighting effect. Shade diameter, 24 in. Height, 6 ft. Fitted with two pull chain sockets, 6 ft. cord and attaching plug. Ship. wt., 60 lbs.

Fixtures Shown on This Page Are a Few of the Many Bargains in Our Lighting Fixture Catalog



63C6980—
Complete. W-
ired for elec-
tricity.
Price... \$3.48

Boudoir
Lamp

Boudoir Lamp.
Hand turned
wood base in
dark dull mahogany fin-
ish. Six-inch figured silk
shade. Rose, blue and
green figures on a cham-
pagne background. Ce-
rise silk lining. Height,
12 in. Key socket. Six-
foot silk cord with at-
taching plug. Ship. wt.,
4 lbs.



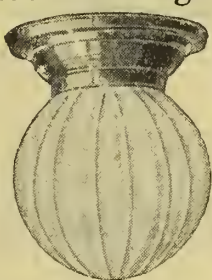
\$2.95

Adjustable Lamp

63C6981—Statuary Bronze Finish. \$2.95
Price.....
63C6982—Verdi Green Finish. 2.95
Price.....

Every home, office or shop can use one or more of these handy lamps. Set it anywhere, on the table, piano, sewing machine, desk or work bench and the light can be reflected just where you want it. Bend the arm as often as you like. It stays where you put it. Here is an opportunity to get a high grade, useful lamp at a very low price.

Heavy cast metal base with embossed leaf and shell design. Flexible arm, paraboloid shade. 5 1/2-foot cord and plug for attaching to any convenient lamp socket. Height as illustrated, 12 inches. Felt pads on base. Shipping weight, 10 pounds.

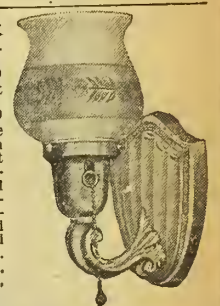


\$1.38

Ceiling Light

63C6991—Complete with ceiling band, diameter, 5 1/2 inches. Ball diameter, 6 inches. Price..... \$1.38

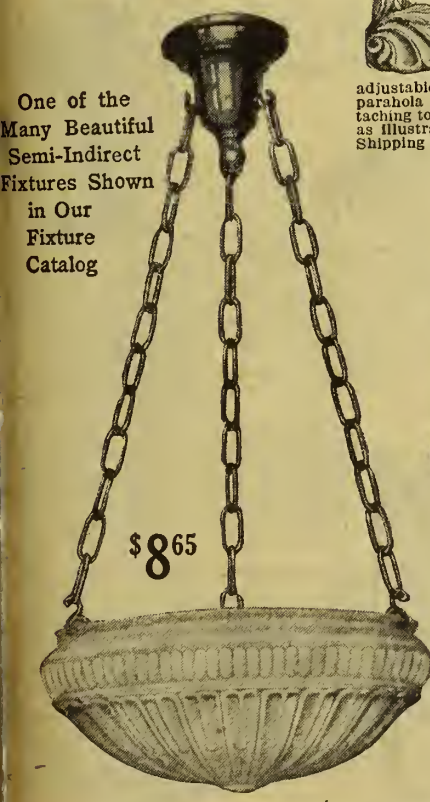
Electric ceiling light, made of brass in brush satin or oxidized copper finish. State finish wanted. Keyless socket. Attractive Sheffield pattern ribbed glass ball, frosted inside. Shipping weight, 8 pounds.



Wall Bracket

63C6993—Complete, wired. \$5.95
63C6994—Without shade, wired. \$4.95
Price.....

Newly designed one light shield pattern bracket. Solid cast metal wall plate finished in rich frosted antique gold. Alabaster glass shade, decorated with leaf and floral design in dull red and brown tones. Size of wall plate, 4 1/2 x 5 1/2 in. Ship. wt., 6 lbs.



\$8.65

One of the
Many Beautiful
Semi-Indirect
Fixtures Shown
in Our
Fixture
Catalog



Wall Brackets

63C6985—Brush satin brass finish. Price..... \$1.76
63C6986—Oxidized copper finish. Price..... \$1.98
63C6987—Polished nickel finish. Price..... \$1.98

Made of genuine brass. Wall canopy diameter, 4 1/2 in. Key socket. Frosted plain glass shade. Extension, 6 in. Ship. wt., 6 lbs.

Wall Brackets provide an economical way of lighting bed rooms, halls and other small rooms. A large complete selection is illustrated in our Lighting Fixture Catalog.

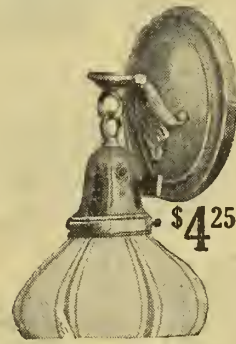


One-Light Pendant

63C6989—Complete, wired. \$2.30
Price.....
63C6990—Without shade, wired. 2.13
Price.....

One-light electric pendant. Frosted crystal glass shade embossed in classic reed and ribbon design. Finished in either brush satin brass or Flemish (antique satin) brass. Key socket. Wired with silk cord. Lgth., over all, 36 in. Ship. wt., 7 lbs.

Can be supplied in oxidized copper or polished nickel finishes for 26c extra.



Wall Bracket

63C6992—Complete, wired. Price..... \$4.25

Made of genuine brass in statuary bronze finish with burnished silver effect, high light. Cast brass arm supports light. Frosted glass shade with clear crystal ribs. Key socket wired with silk cord. Wall plate size, 4x6 in. Extends 4 1/2 in. Ship. wt., 6 lbs.



Our Fixtures
are Wired
Complete
and Fitted
with Wire
Connectors
Easy to
Install

\$10.90

For the Dining Room

163C1095—Complete, as illustrated, wired. Price... \$10.90
163C1096—Complete, but without side lights, wired. 7.25
Price.....

Satin Finish, Plain White Alabaster Glass Bowl and Shades, embossed in pleasing Doric design. Length over all, 36 inches. Bowl diameter, 12 inches. One keyless socket inside bowl. Key sockets on side lights. Wired with silk cord. Metal parts brushed satin brass finish. Ship. wt., 50 lbs.

This style fixture is excellent for lighting dining and living rooms. Many other attractive designs are shown in our Lighting Fixtures Catalog.

For Living Room or Library

163C1092—Price complete, with 15 1/2 inch bowl. \$8.65
wired.....

Semi-Indirect Electric Bowl Fixture. Length over all, 36 in. Metal parts Flemish (antique satin) brass finish. Bowl is of white alabaster glass glazed inside, satin finish outside. Embossed in conventional design. Two lights. Keyless sockets wired with silk cord. Ship. wt., 40 lbs.

This style fixture provides an excellent means of lighting the living room, parlor etc. A large assortment of other designs is shown in our Lighting Fixtures Catalog.

Time Saving and Comfort Giving Electrical Devices



Hamilton Beach Home Motor



\$16.95

Has Many Labor-Saving Uses

A light, compact, convenient labor saver that is always ready to work for you.
It sews. Attach it in a moment to your sewing machine and it will run your machine or broken threads, jerks or fast threads. Requires no screws, bolts or clamps to fasten to machine. Simply place this little motor under the hand wheel of any sewing machine, new or old, (except parlor cabinet models). Immediately converts it into an electrically operated labor saver. Enables you to do much more and better sewing without the drudgery caused by treading a sewing machine all day long.

63C6055—Home Sew-E-Z Motor, complete with foot control, cord and attaching plug for use on city lighting current of 105 to 120 volts. Ship. wt., 12 lbs. Price..... **\$16.95**

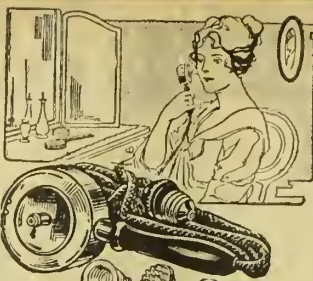
63C6056—Same as above but for use on 30 to 32 volt farm electric plant current. Price..... **\$18.50**

Polishes and Sharpens. The combination grinder and polisher attachment enables you to keep your cutlery sharp, always ready for use and is a big convenience for polishing silverware.

63C6061—Combination Emery Wheel and Buffer for home motor. Price..... **\$1.40**

Keeps You Cool. This motor can be converted in a moment into a highly efficient 8-inch electric fan. Gives you all the comfort of an expensive fan.

63C6059—Fan attachment for home motor, including fan guard and blades. Complete, price..... **\$2.40**
Ship. wt. of attachments, about 2 lbs. each.



Star Vibrator

63C1577—Electric Vibrator for use on alternating current only of 105 to 115 volts. Price..... **\$4.65**
Recommended for home massage use.

Everyone should keep one of these handy little vibrators on the toilet table or in the medicine cabinet. It is a dependable vibrator with three different applicators for facial, scalp, and body treatments. Complete with cord and plug for attaching to any convenient light socket. Ship. wt., 3 lbs.

Electric Hair-Cutting Machine

For Use on either Direct or Alternating Current of 110 to 130 Volts, 25 to 60 Cycles.

Progressive barbers throughout the country are awakening to the fact that cutting hair by hand is slow, unprofitable and tiresome work as compared to the electric power way. Barbers now using Electric Hair-Cutting Machines claim that they pay for themselves every thirty days in time and labor saved, besides bringing new trade to their shop. With this machine a barber, previous practice, can cut a full head of hair in five or ten minutes and do a smoother and better job than can be done by hand. The clipper fits the hand perfectly and will not cramp the wrist. Makes the complete haircut by power and saves your hand for shaving.

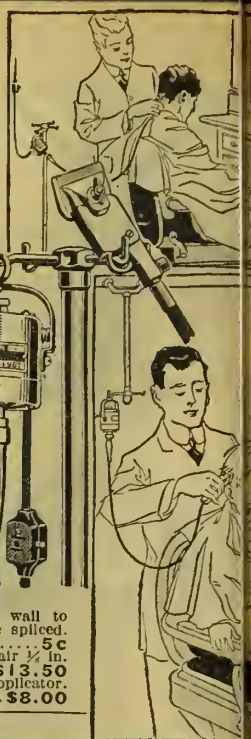
Consists of the regular style well known set of clipper plates, the top one driven by means of a small motor and flexible shaft. Best quality material and workmanship. All steel parts of clipper head are case hardened. Flexible shaft is built especially for clipper use with maximum flexibility without impairing its strength and durability. The motor is constructed in conformity with all the latest improvements. High speed, silent working, dependable. Ship. wt., 20 lbs.
63C575—Electric Hair-Cutting Machine complete with No. 0 clipper, which cuts as close as 1/16 in. Light portable nickel-plated stand, easily and quickly moved to any part of the shop. **\$39.95** Price.....

63C576—Same as above but with trolley attachment instead of portable stand. 30 ft. trolley wire included. Price..... **\$39.50**

63C5745—Trolley wire. Measure room from wall to wall and order length desired, as wire cannot be spliced. Price per foot..... **5c**

63C575—Extra Clipper. Size No. 1. Leaves hair 1/8 in. long. Price..... **\$13.50**

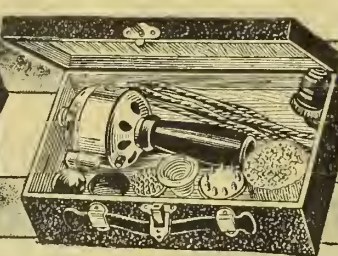
63C5755—Vibrator Attachment with one applicator. Price..... **\$8.00**



63C1576—Electric Vibrator for use on 110 volt power current. Price..... **\$12.95**

63C6310—Electric vibrator for use with 15 or 16 cell, 30-32 volt farm electric plants. Price..... **\$13.50**

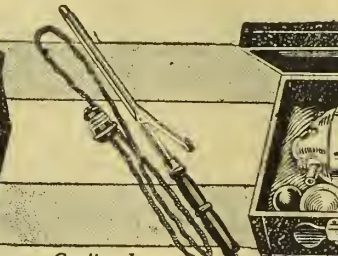
The motor runs smoothly and quietly. Vibrator is light enough so that it can be easily held in the hand. Recommended for home use. Four different applicators are included. Supplied with long connecting cord, and attaching plug. Complete instruction book supplied. Ship. wt., 5 lbs.



63C1578—Electric Vibrator for use on 110-volt power current. Price..... **\$16.90**

63C1579—Same for 30-32 volt farm electric plant current..... **\$17.50**

Designed for general use and constructed so as to meet every requirement of a first-class vibrator. It gives a very heavy vibration, suitable for all kinds of body massage. Starting switch and speed regulator. Six applicators and complete directions supplied. Equipped with attaching cord and plug. Packed in fine case. Ship. wt., 7 lbs.

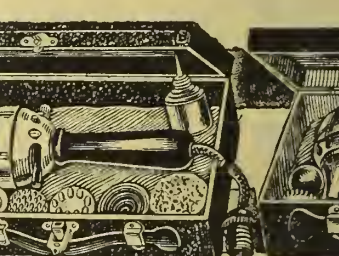


Curling Iron

With this device you can quickly and conveniently curl your hair without the disagreeable bother and danger of heating the iron over a flame. Durable, very handy when traveling. You do not come in contact with the electric current. Attach to any light socket. Six feet of cord. Ship. wt., 2 lbs.

63C1895—For use on 105 to 115 volt city current. Price..... **\$2.95**

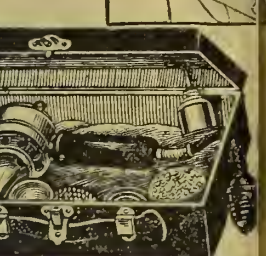
63C1893—For use on 30 to 32 volt farm electric plant current. Price..... **\$3.45**



63C1580—Type A, Hamilton Beach Vibrator for use on 110 volt current. Price, complete..... **\$20.75**

63C1581—Same for 30-32 volt farm electric plant current. Price..... **\$22.40**

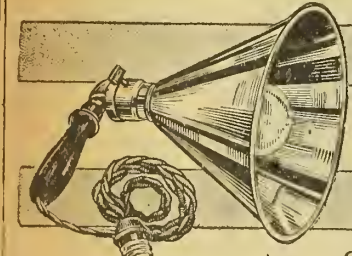
This outfit is recommended especially for home use. Vibrator itself is finished in aluminum and has an attractive appearance. Motor runs smoothly and quietly. Speed can be regulated. Equipped with long conducting cord. Six different applicators are included. Their various uses are described in the instruction book furnished. Packed in a fine covered, durable, satin-lined, carrying case. Ship. wt., 6 1/2 lbs.



63C1582—Type C, Hamilton Beach Vibrator for use on 110-volt current. Price, complete..... **\$25.90**

63C1583—Same for 30 to 32 volt farm electric plant current. Price..... **\$27.40**

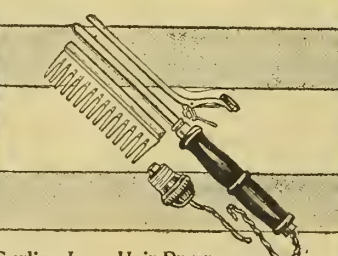
Larger and heavier than our Type outfit. Recommended for the use of physicians, barbers, hospitals, massage parlors, and Turkish Bath establishments. Well adapted to stand continuous usage. Six applicators are included in the outfit. Packed in handsome satin-lined, finely-covered, carrying case. Fitted with 6 ft. cord and attaching plug. Ship. wt., 7 lbs.



Therapeutic Lamp

A device for applying penetrating electric heat and light rays. Constructed to concentrate heat and light on spot to be treated. Therapeutic lamps are used and endorsed by many physicians, hospitals and sanitariums. Complete with cord and plug for attaching to lamp socket. For use on 105 to 120 volt electric current only. Ship. wt., 3 lbs.

63C1557—Electric Therapeutic lamp. Price..... **\$6.50**



Curling Iron, Hair Dryer and Waver Rod

For Use on 105 to 115 Volt Current.

To use the Curling Iron, simply remove the Comb. To use the Waver Rod remove the Shield and Comb. Makes beautiful lasting waves or curls. The heater and cord revolve together so that the cord does not kink when in use. The Comb is aluminum. All other parts are beautifully nickel-plated. The handle is ebonized. Acts as a tonic for the hair and scalp—makes the hair luxuriant. Dries the hair quickly. Ship. wt., about 2 pounds.

63C1897—Complete. Price..... **\$6.95**

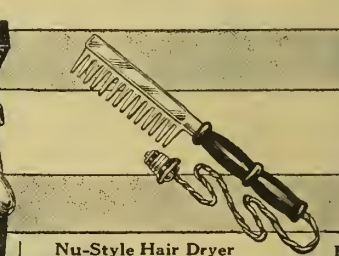


Violet Ray Machine

Used to apply the high frequency Violet Ray electric current. Intended for home use or for physicians, dentists, beauty parlors and barbers. Ship. wt., 6 lbs. Complete with long attaching cord and plug.

63C1555—Machine complete with electrode which can be used for facial and body treatments or for any surface applications. For use on 105 to 115 volt electric current. Price..... **\$22.50**

63C1556—Same as above but for use only with 15 or 16 cell, 30 to 32 volt farm electric plants. Price..... **\$23.95**

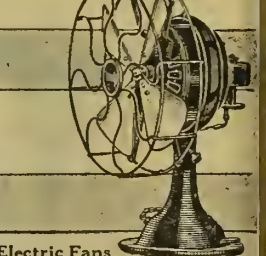


Nu-Style Hair Dryer

Consists of an aluminum comb heated by electric current. Keeps at a temperature that will dry the hair rapidly and give it a soft lustrous appearance. Fitted with 6 ft. cord and plug. Ship. wt., 1 1/2 lbs.

63C1896—Price, complete, for use on 105 to 120 volt electric current..... **\$2.95**

63C1891—Complete, for use on 30 to 32 volt current..... **\$3.45**



Electric Fans

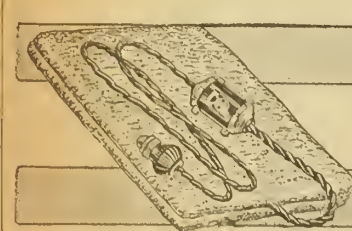
These fans are of a durable, substantial design and construction. They will give continuous service in the home, office, shop or sickroom. Finished in black enamel with 6 feet attaching cord and plug. Available in three speeds, except the 8 in. stationary (non-oscillating) types.

For the usual city alternating current of 100 to 120 volts.

Art. No.	Type	Blade Size	Price	Ship. Wt.
163C500	Stationary	8 in.	\$9.95	10 lb.
163C501	Oscillating	8 in.	15.95	12 lb.
163C502	Stationary	12 in.	24.50	32 lb.
163C503	Oscillating	12 in.	29.50	46 lb.

For 32 volt farm lighting plant current

163C550	Stationary	8 in.	\$11.95	10 lb.
163C551	Oscillating	8 in.	17.95	12 lb.
163C552	Stationary	12 in.	26.50	32 lb.
163C553	Oscillating	12 in.	31.50	46 lb.

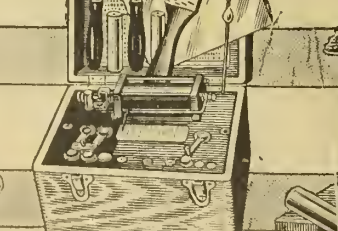


Fine Quality Heating Pad

For Use on 105 to 115 Volt City Current

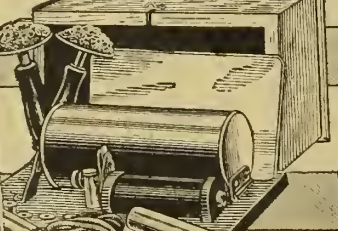
Far superior to the hot water bottle for all dry applications of heat to the body. Maintains an absolute even degree of heat and will not overheat. Equipped with a three heat switch so that heat can be regulated as desired. Covered with soft elderdown. Size, 12x15 in. Ship. wt., 3 lbs.

63C1560—Equipped with long cord, attaching plug and 3 heat control switch. Each..... **\$5.95**



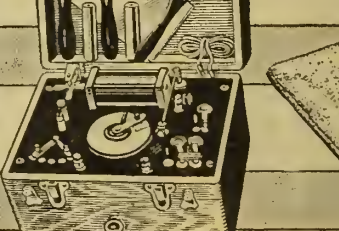
Two-Cell Medical Battery

163C475—Two-cell Medical Battery complete with two dry batteries. One electric hair brush, one nickel plated foot plate, two conducting cords, two sponge electrodes with two insulating wooden handles, two metal hand electrodes, and book on home electro-medical treatment. A well built machine, so constructed that it is able to give a large variety of currents. Size of cabinet, 6 3/4x8 3/4x8 inches. Ship. wt., 15 lbs. Price..... **\$10.50**



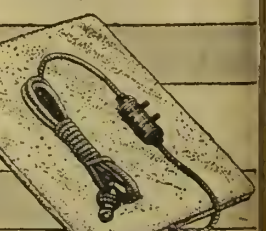
Single-Cell Medical Battery

63C1502—Price, complete with accessories and one dry battery. Ship. wt., 10 lbs..... **\$6.95**
Has polished oak cabinet, size, 5 1/4x8 1/4x3 1/2 inches, with upper compartment for accessories and lower compartment for dry battery and mechanism. Intensity of current from mild to strong is smoothly controlled by a slide switch. One pair metallic hand electrodes, one pair conducting cords, one pair sponge electrodes with handles, one foot plate, one dry battery and hook on home treatment are included with the battery.



Three-Cell Medical Battery

163C480—Three-cell Medical Battery. Complete with three batteries, one electric hair brush, one nickel-plated foot plate, two conducting cords, two sponge electrodes with two insulating wooden handles, two metal hand electrodes and book on home electro-medical treatment. Price..... **\$15.50**
The intensity of the current is smoothly regulated by an improved carbon rheostat. All metal parts finely nickel-plated. Cabinet is of fine polished oak. Size, 7 1/2x10 1/2x9 inches. Shipping weight, 18 lbs.



High Quality Heating Pad

For Use on 115 to 120 Volt City Current

Covered with soft elderdown. Will maintain a constant unvarying heat. When the proper temperature is reached the thermostat automatically shuts off the current, alternating between off and on while pad is in use. Uses less current than an ordinary electric lamp. Size, 12x14 in. Ship. wt., 3 lbs.

63C1567—Equipped with three heat switch for controlling heat as desired. 10 ft. cord and attaching plug. Price..... **\$9.80**

Keep House the Electrical Way

Four-Heat Electric Iron

Change from one heat to another is made by simply moving attachment plug. Recommended for heaviest household ironing or for most delicate work. For large or damp pieces use high heat, for ordinary work medium heat and for light work either the medium or low heats. Guaranteed. Heavily nickel-plated. Complete with 6-ft. cord and attaching plug. Uses 575, 400, 175 or 120 watts of current. Net wt., 6 lbs. Ship. wt., 8 lbs.

63C1810—For usual city current of 105 to 120 volts. Price..... **\$6.50**

63C1811—For Farm Lighting Plant Current of 30 to 32 volts. Price..... **\$6.95**

Extra Quality Iron

63C1809—For 108 to 115 volt current. Price..... **\$7.20**

This is the finest quality iron we carry. Indicating switch in cord to turn current off and on. Not necessary to remove cord from iron to turn off current. Top sides and bottom nickel-plated. Both tip-up rest and stand included. Fitted with 6-ft. cord and attaching plug. Uses 550 watts current. Net weight, 6 lbs. Ship. wt., 8 lbs.

High Quality Iron

63C1812—For use on 105 to 120 volt current. Price..... **\$6.55**

An extra good iron at a low price. Guaranteed. A standard brand iron, regularly selling at a much higher price. Finely nickel-plated top, sides and bottom. Best workmanship and material in every detail. Very economical in current consumed. Complete with 6-ft. cord and attaching plug. Net weight, 6 lbs. Uses 550 watts current. Ship. wt., 8 lbs.

Duo-Point Iron

63C1822—For use on 105 to 120 volt current. Price..... **\$6.45**

A high quality iron with both ends pointed. With it you can iron backwards as well as forward. More ironing can be accomplished in less time. Reversing to a backward motion rests the wrist and arm. Nickel-plated. Uses 550 watts current. Complete with stand, 6-ft. attaching cord and plug. Net weight 6 lbs. Ship. wt., 8 lbs.

32-Volt Electric Iron

63C1839—Electric Iron for use on Farm Electric Plants, 30 to 32 volts. Price..... **\$7.20**

These irons are satisfactory for use on Electric Farm Plants having 80 ampere or larger batteries, if the generator is run while the ironing is being done. Where the generator cannot be run during ironing, we do not recommend them. Uses 550 watts current. With this iron no extra stand is required—simply tip the iron on end. Closes quickly. Nickel-plated. Six foot attaching cord. Requires special wiring. Wt., 6 lbs.

Radiant Heater

163C730—For use on 108 to 120 volt current. Price..... **\$10.95**

163C732—For 30 to 32-volt Farm Electric Plant current. Price..... **\$11.40**

Adapted for heating small rooms, bath rooms, dressing rooms, nurseries and offices. Has a parabolic reflector that radiates a warm, cheerful glow. Has a copper wire guard so placed that nothing can come in contact with the heating unit. Fitted with a 9-ft. attachment cord and plug. Excellent for drying the hair after a shampoo. Switch in cord provides handy means for controlling current. Uses 615 watt current. Ht., 16 in. Ship. wt., 7 lbs.

Round Portable Heater

163C725—For use on 108 to 120 volt current. Price..... **\$6.75**

A necessity for the bathroom, bedroom, garage or other small room, where heat is needed quickly. Top and feet are of bright finished steel; body is made of black polished steel. Nine feet of wire with plug attachment. Ht., 7 1/2 in. Diam. of base, 12 in. Ship. wt., about 8 lbs. Uses 660 watts current.

Reflector Electric Radiator

163C735—For use on 108 to 120 volt current. Price..... **\$10.95**

Every home that is wired for electricity needs this portable electric radiator. The sides and reflector are brightly nickel-plated. It quickly warms up any small area. Outside of body is black enameled. Comes complete with 6 feet of cord and attachment plug. Ht., 16 in. Ship. wt., about 9 lbs.

Electric Radiator

For 105 to 120 volt current. **163C720**—1,000 watt size..... **\$19.95**

163C722—2,000 watt size..... **27.50**

A portable radiator convenient for bathrooms, office rooms, etc. Provided with deflector which greatly increases efficiency of heater by radiating heat where wanted. Finished in polished nickel and blue steel. Fitted with switch to turn current on and off. Size, 16x14x4. Ship. wt., 16 lbs. Fitted with attaching cord but requires special wiring.

All prices quoted on this page are subject to market changes

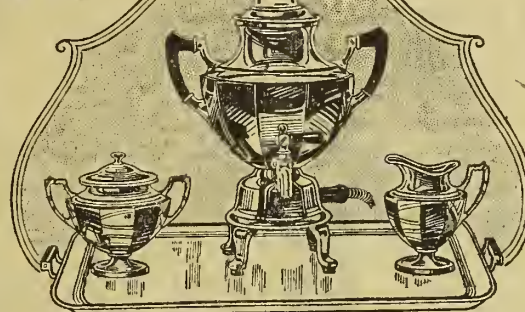


Priscilla Electric Iron

63C1803—For use on 105 to 115 Volt Current. Price..... **\$4.90**

Ironing Day just like Play if you iron the Electric Way. You can do the work much easier, better and in far less time. No running back and forth to a hot stove to change irons. Iron is of the very finest quality. Has enameled handle, heat insulating stand, six feet of cord and attaching plug. Metal parts, highly nickel-plated. Net weight, 6 lbs. Ship. wt., 8 lbs. We guarantee this iron against burn outs or mechanical defects for a period of one year. Uses 550 watts current.

For Use on 105 to 120-Volt Current

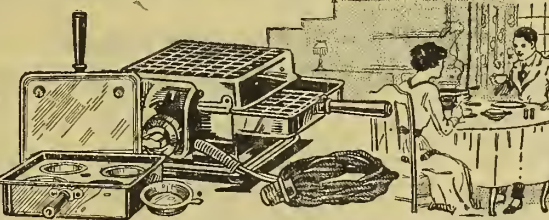


Electric Percolator Set

163C705—4-piece Percolator Set. Price, complete..... **\$41.75**

163C706—Percolator only. Price..... **22.95**

A very attractive Colonial design Percolator Set. Will lend distinction to any festive occasion. Consists of 10-cup Percolator, Tray size 12x16 inches, Sugar and Creamer. Percolator is made entirely of copper, nickel-plated and polished. Artistically shaped mahogany handles on percolator and tray. Feet of percolator are fibre tipped. Tray, Sugar and Creamer are nickel-plated and polished. Inside of Percolator has a double tinned finish that will not tarnish. Sugar and Creamer are gold lined. Percolator is equipped with 6-ft. cord and plug. Uses 400 watts current. Ship. wt., complete set, 12 1/2 lbs.

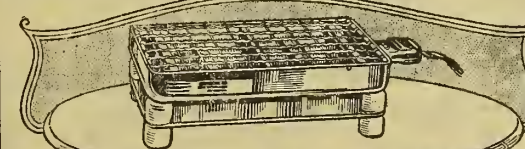


Three-Heat Electric Grill Stove

163C700—For 108 to 120 volt current. Price..... **\$12.15**

163C702—For 30 to 32 volt farm electric plant. Price..... **12.65**

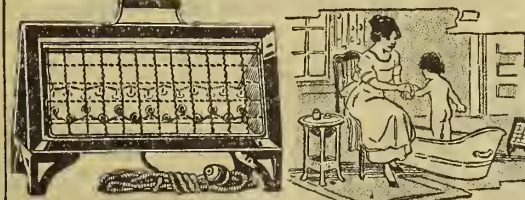
A complete practical electric stove that can be used right on your finest table cloth. Has square surface, size 7x7 in., over which clean, uniform electric heat is distributed. The most convenient appliance to grill eggs, bacon, steak, ham and other meats; to bake muffins, biscuits, potatoes, cup cakes or cookies; to steam rice, breakfast foods, cup custards, eggs, etc.; to boil coffee, toast bread, four slices at one time, and many other uses. Has convenient assortment of pans, including cup cake pans, to meet all requirements. Metal parts nickel plated. Switch for regulating heat; 6 ft. attaching cord. Uses 660 watts on high, 330 on medium, 165 on low. Ship. wt., 8 lbs.



Toaster Range

63C1856—For 108 to 120 volt current. Price..... **\$4.60**

A sturdy electric stove. Makes toast, two slices at one time; grills meat; cooks, fries, boils. A very useful electrical cooking device at a very low price. Top size, 8x4 1/2 in. Metal parts highly nickel plated and polished. Complete with detachable 5 1/2-ft. cord and plug. Uses 485 watts current. Ship. wt., 3 lbs.



Simplex Radiant Heater

163C760—For use on 108 to 120 volt current. Price..... **\$5.95**

A light, portable radiator which can be attached to any convenient lamp socket. Adapted for heating small rooms, bathrooms, nurseries, small offices, etc. Has a very efficient type of heat reflector. We are offering these heaters at a very attractive price, much below the present market price. Height, 12 in. Length, 16 1/2 in. Width, 6 1/2 in. Finish, dull black. Fitted with cord and attaching plug. Uses 600 watts current. Ship. wt., 8 lbs.

Flip-Flop Toaster

63C1852—For 108 to 120 volt current. Price..... **\$7.45**

63C6320—For 30-32 volt Farm Electric Plant current. Price..... **\$7.95**

Fine quality toaster. Turns toast over automatically by dropping door down. You have never tasted real toast until you have made it by this up-to-date method. In a few seconds right at your hand, you can make two slices at a time of the crispest, golden brown toast you ever tasted. Fully nickel-plated and equipped with 6 ft. of cord fitted with push switch and attachment plug. Uses 500 watts current. Ship. wt., 3 lbs.

Electric Toaster

63C1850—For use on 108 to 120 volt current. Price..... **\$4.95**

Very attractive in appearance. Nickel-plated and highly polished. Toasts two slices of bread at one time. Heating element is so distributed as to insure uniform toasting. The toast holders are held in place by springs. Uses 500 watts current. Fitted with 6-ft. cord and attaching plug. Ship. wt., 3 lbs.

Electric Percolator

163C710—For use on 108 to 120 volt current. Price..... **\$11.50**

A fine quality percolator in an attractive design. Body is made of polished aluminum with enameled wood handle. Attach cord to light socket and in a few minutes you have delicious, clear, steaming coffee. Fitted with 6-ft. cord and attaching plug. Uses 400 watts current. Ship. wt., 3 1/2 lbs.

Electric Grill

63C1864—For 108 to 120 volt current. Price..... **\$8.85**

63C6322—For 30-32 volt farm electric current. Price..... **\$9.35**

A clean uniform heat is distributed evenly over the 7x7-in. top cooking surface. A fast, economical cooker. Saves the tedious, tiring work of standing over a stove. The most convenient device to grill bacon, eggs, pork chops, ham and steaks; to toast bread—four pieces at one time and to boil your coffee. With 6-ft. cord and plug. Uses 600 watts current. Ship. wt., 7 lbs.

Round Grill

63C1870—For use on 108 to 120 volt current. Price..... **\$12.95**

Extra fine quality, heavy weight. A very attractive chafing dish with breakfast on the dining table. While the eggs are poaching or boiling in a pan above the coils, the bacon is sizzling underneath. Crisp, hot, golden brown toast can be prepared either above or below the coils. Supplied with three cooking pans diam., 8 1/2 in., depth, 2, 1 1/2 and 3/4 in. Deep pan is furnished with a grid for boiling or toasting. Polished nickel finish. Three heats, using 137, 275 and 550 watts current. Ship. wt., 7 lbs.

Electric Chafing Dish

163C740—For use on 108 to 120 volt current. Price..... **\$20.50**

A very attractive chafing dish with 6-in. detachable stove. Chafing dish is clamped on stove by a very simple device. Stove can be used separately for heating a kettle of water, coffee pot or with an ovenette for baking and roasting. Made of copper with polished nickel finish. Cap., 3 pts. Has three heats using 500 watts on high. Fitted with 6-ft cord and attaching plug. Ship. wt., 9 lbs.

Electric Hot Plate

163C750—For use on 108 to 120 volt current. Price..... **\$11.45**

Single burner hot plate. Will cook or stew anything that can be cooked on any regular stove. Very convenient as it can be attached to any lamp socket. Top, size 10x10 in. Fitted with a 6-ft. cord and attaching plug. Has 3 heat switch. Uses 660 watts on high heat, 330 on medium and 165 on low. Metal parts highly polished. Ship. wt., 12 lbs.

Double Hot Plate

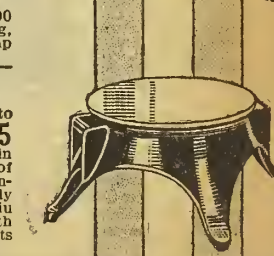
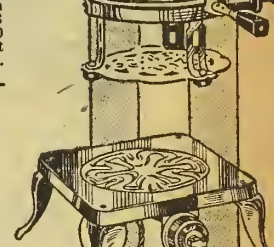
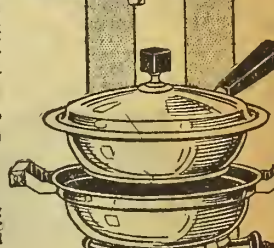
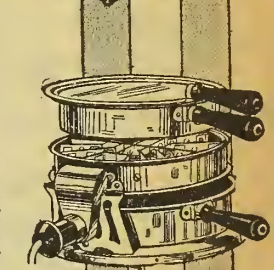
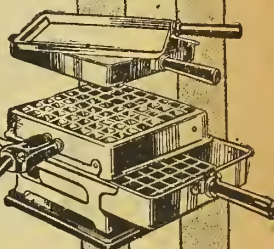
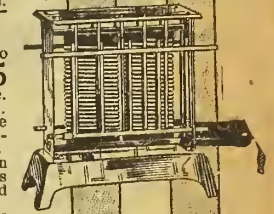
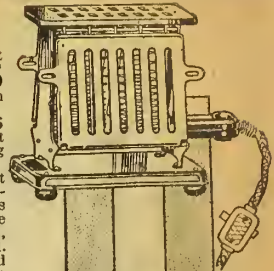
163C752—Two Burner Hot Plate for use on 105 to 120 volt current. Price..... **\$22.95**

Can be used to replace any stove for cooking purposes. Finished in nickel except plates which are polished iron. Diam. of plates, 8 in. Size over all, 10 1/2 x 20 in. Has three heats. Each burner uses 200 watts on low heat, 400 on medium and 800 on high. Requires special wiring, cannot be attached to lamp socket. Ship. wt., 30 lbs.

Improved Disc Stove

63C1880—For use on 108 to 120 volt current. Price..... **\$5.85**

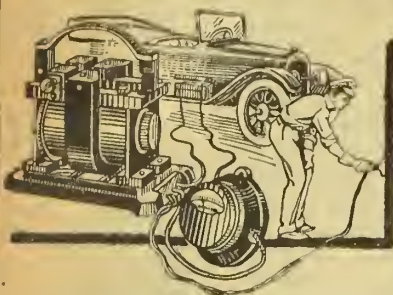
Convenient and desirable in the household, in the offices of physicians, surgeons and dentists. Base is of cast metal, finely enameled. Top is six in. in diam. About 6 1/2-ft. cord with attaching plug. Uses 500 watts current. Ship. wt., about 7 lbs.



Electric Ignition and Battery Lighting Supplies

Prices quoted on this page are subject to market changes

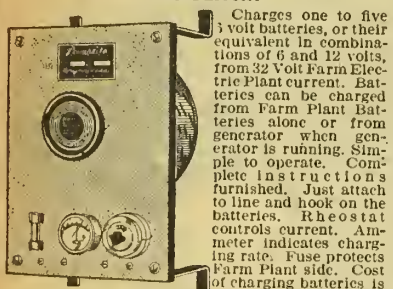
Battery Charging Rectifiers The Famous France Battery Booster



For charging exhausted batteries or boosting low batteries. The largest starting and lighting battery can be charged for a few cents—usually less than 10c even on high rates. Very convenient—just screw plug into the light socket, attach leads to battery and turn on current. Battery can be left right in the car if desired. Large connecting clips make it easy to hook on to any battery. Note: These rectifiers are for use only on 105 to 115 voltage 60-cycle alternating current, which is the usual city lighting current. Will not work on direct current nor 25-cycle currents. Special apparatus for these currents can be supplied. Prices on request.

Prices include 10-foot connecting cord with socket plug, ammeter, battery leads and two clips.
63C6193—Bantam size, charges 6 volt battery at 6 ampere rate. Ship. wt., 10 lbs. Price..... **\$15.00**
63C6191—Large size, charges 12 volt battery at average rate of 5 amperes. Ship. wt., 14 lbs. Price..... **\$20.00**

Storage Battery Charging Panel For Use With 30-32 Volt Farm Electric Plant Current

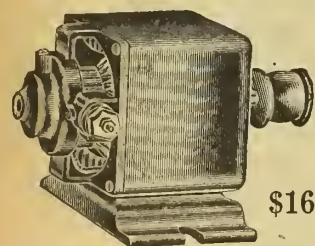


Charges one to five 3 volt batteries, or their equivalent in combinations of 6 and 12 volts, from 32 Volt Farm Electric Plant current. Batteries can be charged from Farm Plant Batteries alone or from generator when generator is running. Simple to operate. Complete in a truck or on a furnished. Just attach to line and hook on the batteries. Rheostat controls current. Ammeter indicates charging rate. Fuse protects Farm Plant side. Cost of charging batteries is out a few cents. Shipping wt., 20 lbs.
63C520—Complete. Price..... **\$22.95**

Charging Clips

Made of special steel heavily lead coated. Provide a perfect connection to battery terminals at all times. Will not develop resistance to current even after long usage. Permanent spring. Large capacity. No hinge joints to corrode. Length, 6 in. Ship. wt., 2 lbs. per doz.
63C6196—Charging Clips. Price..... **\$1.68** dozen.

Charging and Lighting Generator



\$16.50

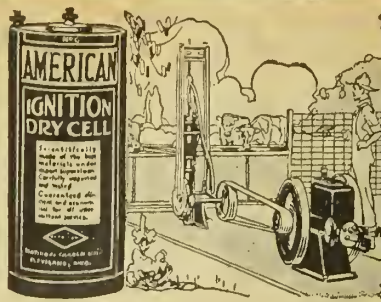
This generator delivers a current that will properly charge any six volt lighting or starting battery without adjustment or regulation. Can also be attached direct onto line of motor boat and tractor lighting systems, or for any other purpose where a direct current of about 8 volts—8 to 10 amperes is required. This is a strong rugged generator that will give lasting efficient service. Has base for convenient attaching to any flat surface. Ship. wt., 25 lbs. 6 inches high, 7 1/2 inches wide, 8 1/2 inches long. Fitted with pulley 2 1/2 in. diameter. Delivers about 8 volts, 8 amp. against resistance when run at a speed of 1750 R. P. M. Amperage increases with speed.

63C292—Fitted with pulley for 3/4 in. round belt. Price..... **\$16.50**
63C296—Same as above but fitted with pulley for 1-inch flat belt. Price..... **\$16.50**
63C290—Fitted with pulley for 3/4 in. round belt and with low voltage cut-out to disconnect charging circuit when voltage drops below 7 volts. Price..... **\$21.00**
63C294—Fitted with pulley for 1-inch flat belt with low voltage cut-out. Price..... **\$21.00**

Ignition Cable

A very flexible cable, especially designed for ignition purposes on stationary, automobile, tractor and marine engines. The cable is built of the copper strands covered with layers of rubber, over which are coverings of oil proof and waterproof braid. Ship. wt., per foot, 1 to 2 oz.

63C2660—Primary wire, diameter, 5/32 in.; for low tension currents. Price per foot... **5c**
63C2662—Magneto wire, 1/16 in. over all, for low tension currents. Price, per foot... **13c**
63C2664—Secondary wire, 15-32 in. over all, for high tension currents. Price, per foot... **19c**



American Ignitor Dry Cell

A battery of the very best quality that the foremost producers of dry cell batteries are able to make. We guarantee that these batteries will reach you fresh and will give you all the service you have a right to expect of the best 2 1/2 by 6 inch dry cell made, and will equal or better in service any dry cell on the market. Designed especially for heavy duty work. Use it for ignition work on gas engines, automobiles, motor boats, for heavy telephone work, for running motors, lighting lamps and the hundred other uses to which a dry cell may be put. You will find it has the hottest, snappiest spark, longest life and best recuperation. Average weight, 2 lbs. Size, 2 1/2 by 6 inches. Average initial amperage, 25 to 30 amperes.
63C2501—Each..... **\$0.39**
63C2502—Price per dozen..... **4.56**

American Regular Battery

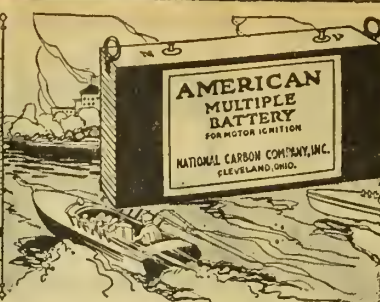
This battery is of the same high quality as the American Ignitor, but is designed for a different class of work. For ordinary telephone use, for door bell circuits and all light drain service it is the best battery as it has a longer life, when not heavily drawn upon. Average wt., 2 lbs. Size, 2 1/2 by 6 inches. Average initial amperage 18 to 22 amperes.
63C2504—Price, each..... **\$0.38**
63C2505—Price, dozen..... **4.42**

American 3-Volt Lighting Battery

A battery designed for lighting service on hand lanterns, bicycle lamps and for other devices having a small lamp lighted by battery current. For these purposes this battery will give about twice the service of a regular No. 6 dry cell and for this reason is more economical. Same size as regular battery, 2 1/2 by 6 inches. Will replace two regular dry cells on any lighting system. Not recommended for ignition work.
63C2529—Each..... **70c**

Gripit Battery Connections

Instantly applied or removed, without tools. Perfect contact always.
63C2672—Per package of ten. Ship. wt., 2 oz. Price..... **35c**



American Multiple Waterproof Battery Sets

Where batteries are used exposed to the weather, moisture, heat or rough handling an American Waterproof Multiple Battery Set will give much better service than the usual form of dry cell battery. For stationary engines, motor boats, blasting, starting ignition on Fords and tractors they are especially desirable.

One set of these batteries will usually outlast two sets of ordinary dry cells not protected as these are. These sets are made up of regular 2 1/2 by 6 inch ignition cells connected in series or series multiple and enclosed in a hermetically sealed enameled metal case with convenient handles for carrying. Each cell in the set is insulated from the case and from the other cells in such a way as to make a waterproof and practically damage-proof unit battery.
163C410—Set of 4 cells in series. Tests 6 volts, 22 to 30 amperes. Container size, 10 1/2 by 2 1/2 by 7 inches. Shipping weight, 10 lbs. Price, per set..... **\$3.25**
163C412—Set of 8 cells, 4 in series, two multiples. Tests 6 volts, 45 to 60 amperes. Container size, 10 1/2 by 5 1/2 by 7 inches. Shipping weight, 20 lbs. Price, per set..... **\$5.50**
163C414—Set of 5 cells in series. Tests 7 1/2 volts 22 to 30 amperes. Container size, 13x2 1/2 x 7 inches. Shipping weight, 12 lbs. Price, per set..... **\$3.90**
163C416—Set of 10 cells, 5 in series, two multiples. Tests 7 1/2 volts, 45 to 60 amperes. Container size, 13x5 1/2 by 7 inches. Shipping weight, 24 lbs. Price, per set..... **\$6.55**

American Hot Spark Battery

163C418—Set of 4 cells in series. Enclosed in hermetically sealed waterproof fibroid case. Same size, amperage and voltage as our 163C410 and will give equally as good service where not exposed to rough handling. Ship. wt., 10 lbs. Price, per set..... **\$2.40**

Battery Switches

Strongly made switches. Metal base not easily broken. Brass contacts and switch blade. Handle is insulated. Ship. wt., 2 ounces.
63C2680—Single Throw Switch. Each... **20c**
63C2682—Double Throw Switch. Each... **25c**

Nitrogen and Tungsten Lamps

These lamps are the very best quality automobile lamps. In addition to being used for automobile lighting can be used in connection with storage battery lighting for many other purposes, such as motor boat and tractor lighting, etc. Ship. wt., each, 3 to 5 oz.

Nitrogen Type C Lamps For Headlights and Spotlights

These bulbs give a brighter, whiter light on less current than the vacuum type.

Article Number	Article Number	Voltage	Amperes	Approx. Candle Power	Approx. Diam. Inches	Price For Five
63C2830	63C2864	6-8	2 1/2	21	1 1/2	\$1.95
63C2834	63C2868	6-8	4	27	1 1/2	2.81
63C2831	Not Made	9	4	27	1 1/2	2.81
63C2832	63C2869	12-16	1 1/2	21	1 1/2	2.06
63C2837	63C2873	18-24	1	27	1 1/2	3.00

*Regular Ford size wired two in series with magneto.

Tungsten Type B Vacuum Lamps For Headlight and Spotlights

Art. No. Double Contact Base	Art. No. Single Contact Base	Voltage	Approx. Amp.	Approx. Candle Power	Approx. Diam. Inches	Price For Five
63C2802	63C2840	6-8	1 1/2	9	1 1/2	\$2.06
63C2806	63C2846	6-8	2 1/2	15	1 1/2	1.88
63C2808	Not Made	9	2	18	2 1/2	2.25
63C2824	Not Made	9	2	18	1 1/2	1.98
63C2825	63C2859	12-16	1	15	1 1/2	1.98
63C2829	63C2863	18-24	1	21	2 1/2	2.63

*Regular Ford size wired two in series with magneto.

Tungsten Sidelight and Tail Light Lamps

Art. No. Double Contact Base	Article No. Single Contact Base	Voltage	Approx. Candle Power	Approx. Diam. Inches	Price For Five
63C2880	63C2910	3-4	2	3/4	\$1.05
63C2884	63C2914	6-8	3	3/4	1.20
63C2886	63C2916	6-8	5	1	1.3
63C2902	63C2932	12-16	3	3/4	1.31
63C2904	63C2934	12-16	3	1	1.50
63C2907	63C2937	18-24	3	3/4	1.69
63C2909	63C2939	18-24	5	1	1.69

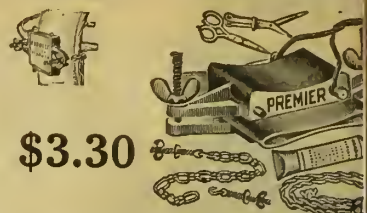
*Can be used on Rear Lamp of Ford wired direct to magneto.

Ever Ready Ignition Magneto Make and Break or Jump Spark

If your engine is not equipped with a magneto you should replace the batteries with one of these machines. It will pay for itself in a short time and will guarantee you continuous, reliable operation of your engine. It is constructed to stand the most rigid service and, with ordinary use, should last as long as any engine made. Most engines 5 H. P. and smaller can be started with this magneto without the aid of batteries. After engine is started Magneto will supply ample current to ignite any engine even the largest, when properly installed. Can be applied on any engine. Must be run at a speed of about 2,500 R. P. M. Diameter of friction pulley, 2 1/2 in.; belt pulley, 2 1/2 in. Uses 3/4 inch round leather belting. Both styles have an automatic governor, which prevents Magneto from running faster than necessary. Net weight, about 12 lbs. Shipping weight, about 13 1/2 lbs. With this Magneto the same coil you on your engine can be used, but be sure to order the correct magneto for your coil.

Price List Ever Ready Make and Break Magneto
63C375—With friction drive pulley, without spark coil. Each..... **\$10.95**
63C377—With friction drive pulley, with make and break coil mounted in arch. Each..... **11.90**
63C380—With belt drive pulley, without spark coil. Each..... **12.95**
63C382—With belt drive pulley, with make and break coil mounted in arch. Each..... **12.95**
Price List Ever Ready Jump Spark Magneto
63C385—With friction drive pulley, without spark coil. Each..... **12.20**
63C387—With belt drive pulley, without spark coil. Each..... **12.95**

Automatic Electric Vulcanizer



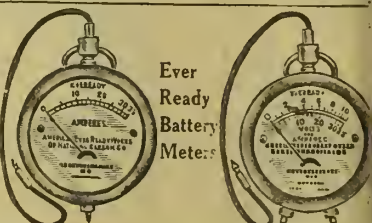
\$3.30

The Premier makes the repairing simple, safe and easy. All you have to do with this vulcanizer is clean the cut, fill in Para rubber according to directions, connect up and press the button. It can be done in 3 to 5 minutes. With it anyone can repair casings and tubes. It cannot burn tire, "cover cure" or "under cure." When tire repair is properly vulcanized, the hutton automatically releases and the vulcanizer cools off. Repairing casings the top side of the vulcanizer used as shown in the small illustration. Approved by National Board of Underwriters as being safe. Outfit includes flexible attaching cord, pair gum, cement, peco tire tool, chain, scissors and directions for use. Ship. wt., 6 lbs.
63C2570—For use on the usual city current of 105 to 115 volts. Price..... **\$3.30**

Roller Smith Universal Ammeter

Standard size small direct current ammeter. Can be used on all makes of automobiles regardless of type and voltage of system. Guaranteed against burn-outs. Used as Standard equipment on many popular cars. Flush mounting flange, diam. 2 1/2 in. Diam. of body, 2 in. Indicates charge and discharge up to 30 amperes. Ship. wt., 1 lb.
63C2557—Ammeter with black enamel flange. Each **\$2.95**. Per Dozen **\$31.20**
63C2558—Ammeter with polished nickel flange. Each **\$2.95**. Per Dozen **\$31.20**

Switch Board Meters
 For Direct Current Only
 Switch board meters for use on small switch boards, farm lighting plants, etc. Are durable and accurate. Large, easily read figures. Nickel plate cases. Diameter, 2 1/2 inches. Ship. wt., 5 oz. Brass posts, 1/2 in. long protect from back so meter can be fastened on a slate board.
63C2554—Ammeter scaled 0 in center. Shows charge or discharge up to 20 amperes. Each..... **\$1.65**
63C2556—Voltmeter scaled 0 to 12 volts. Each..... **\$2.30**



These meters will tell you the condition of your dry cell or storage battery. Very accurate and will remain so. Dull silver finish, metal dial with contrasting black figures on scale. Brass case nickel plated and polished. Diameter, 2 inches. Detachable flexible cord 10 inches long to connect to battery. Shipping weight, 4 oz.
63C2541—Ammeter for testing dry cell batteries. Reads 0 to 35 amperes. Each..... **78c**
63C2542—Voltmeter for testing storage batteries. Reads 0 to 10 volts. Each..... **85c**
63C2543—Combination Volt Meter and ammeter for testing both dry cell batteries and storage batteries. Reads 0-35 amperes, 0-11 volt. Each..... **99c**

Jump Spark Coils

Economical in battery consumption and positive in action. Construction of vibrator is such that it cannot be adjusted so as to stop engine from working, nor can it be adjusted to take too much current. The range of current consumption is from 2/10 to 3/4 of an ampere. Genuine Tungsten rivets are used for contact points. Coil windings guaranteed against short circuits. Case is made of oak highly finished, and small enough to fit into any ordinary battery box. Operates on 4 or 5 dry cells connected in series or on 6 volt storage battery.
63C2625—Single Cylinder coil. Ship. wt., about 3 1/2 lbs. Price..... **\$3.60**
63C2627—Double Cylinder coil. Ship. wt., about 6 1/2 lbs. Price..... **\$7.20**
63C2628—Extra Tungsten Rivets for vibrator contact points. Ship. wt., 2 oz. per set of two mounted on vibrator spring and bridge spring. Price..... **95c**

Make and Break Coil

Suitable for use with any engine with make and break ignition. Steel Case Coil. May be installed in wet places and exposed to the elements without affecting its efficiency. Coils are practically indestructible and moisture-proof. Work with lowest possible current consumption. Ship. wt., 2 1/2 lbs. Size, over all, 2 1/2 x 4 x 6 1/2 in.
63C2635—Make and Break Coil, without switch. Price..... **\$1.15**
63C2637—Make and Break Coil, with switch and breaking circuit. Price..... **\$1.30**
63C2636—Make and Break Coil to operate direct from 32-volt Farm Lighting Plant current. Without switch. Price..... **\$1.60**

Long Cabinet Model Bridging Telephones

For use on any bridging or private line. Oak cabinet, finely varnished and polished. Will last a lifetime, needs no attention or repairs other than renewing batteries every year or so. Rings strong, talks plain, receives distinctly. Easily installed. Full directions sent with each phone. For complete description see description of parts listed on this page. Length, 32 1/2 inches; width, 12 1/2 inches. Shipping wt., 45 to 48 pounds. Read our Liberal Guarantee covering this telephone.

Long Cabinet Telephones. Prices Do Not Include Dry Batteries. For Dry Cell Batteries See Page 664

Article Number	Price Each	Size Generator	Ringer Movement
63C1041	\$18.30	5-Bar	1000 ohm
63C1043	18.45	5-Bar	1600 ohm
63C1045	18.60	5-Bar	2000 ohm
63C1047	18.75	5-Bar	2500 ohm
63C1049	18.90	6-Bar	1000 ohm
63C1051	18.70	6-Bar	1600 ohm
63C1053	18.80	6-Bar	2000 ohm
63C1055	18.90	6-Bar	2500 ohm

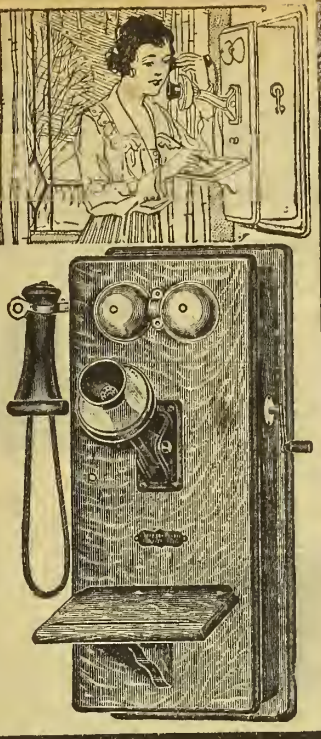
Compact Model Bridging Telephone \$15.95

A fine quality high grade telephone for use on any bridging or private line of any length. Oak cabinet, finely varnished and polished. Every part is made of the very best materials obtainable and will last a lifetime without attention or repair, except for renewing of batteries every year or two. Our telephones ring strong under all conditions. They catch and transmit every voice tone. Always dependable; will give constant service. Read our guarantee below. You are fully insured against trouble of any kind. Easily installed in a few minutes with the complete directions we furnish.

Equipped with a solid back transmitter, hi-polar receiver, lightning arrester, adjustable ringer movements with 3-inch gongs, powerful generator with laminated magnets, each bar consisting of three distinct magnets tempered and magnetized separately. Every 5-bar generator has 15 magnets and every 6-bar generator has 18 magnets. For complete description of parts see below. Length 20 inches; width 9 inches. Shipping weight, 32 to 36 pounds.

Shipped promptly from stock at Chicago.

Prices do not include dry batteries. For dry cell batteries see Page 664.



Bridging Telephone Desk Set

Desk Set, complete, as illustrated. For use on any rural telephone line. The up-to-date telephone. Generator and ringer mounted in fine oak cabinet. Improved transmitter stand with polished nickel base. Ship wt., 32 to 36 lbs. Prices do not include dry batteries. For dry batteries see page 664.

Article Number	Price Each	Size Generator	Ringer Movement
163C1020	\$17.60	5-Bar	1000 ohm
163C1022	17.75	5-Bar	1600 ohm
163C1024	17.85	5-Bar	2000 ohm
163C1026	17.95	5-Bar	2500 ohm
163C1028	18.05	6-Bar	1000 ohm
163C1032	18.05	6-Bar	1600 ohm
163C1034	18.15	6-Bar	2000 ohm
163C1036	18.15	6-Bar	2500 ohm

Shipped promptly from stock at Chicago.

Battery Telephones

A useful and inexpensive telephone. Good use can be found for a set of these phones in the home, office, store or shop. They save many steps and much time. A press of the button instantly calls the person you want to speak to. Will give satisfactory service at any distance not over 500 feet. Made entirely of metal. A pair of telephones, four batteries and two connecting wires, comprise a complete system. A wiring diagram is supplied with each set. Anyone can quickly and easily install them. See following pages for prices on batteries and wire not included in price below.

63C1165—Battery Telephone (two telephones). Without batteries. Without wires. Ship. weight, 6 lbs. Per pair..... **\$6.85**

Shipped promptly from stock at Chicago.

Prices do not include dry batteries. For dry cell batteries see Page 664.

Article Number	Price Each	Size For	Size Generator	*Ringer Movements
63C1001	\$15.95	\$94.70	5-Bar	1000 ohm
63C1003	16.25	97.70	5-Bar	1600 ohm
63C1005	16.45	98.30	5-Bar	2000 ohm
63C1007	16.55	98.30	5-Bar	2500 ohm
63C1009	16.45	97.70	6-Bar	1000 ohm
63C1011	16.60	98.60	6-Bar	1600 ohm
63C1013	16.70	99.20	6-Bar	2000 ohm
63C1015	16.80	99.80	6-Bar	2500 ohm

*All Telephones on the same line must have ringer movements with the same ohms resistance.

Extension Desk Stand Telephone

Desk Stand Telephone consisting of receiver and transmitter mounted on stand with connecting cable and induction coil mounted in terminal box. Can be attached to any telephone. Cannot send out nor receive a ring. Ship. wt., 6 lbs.

63C1036—Bridging Line Extension Telephone (for local battery). Price..... **\$11.00**

163C1038—Common Battery Extension Telephone. Price..... **\$11.00**

Long Distance Battery Telephones

These phones are of an extra high quality construction. Can be used over distances as great as 1,000 feet. A pair of telephones, four or more batteries and two connecting wires, comprise a complete system. Wiring diagram sent with each set. Anyone can quickly and easily install them. Case made of heavy Japanese metal. Shipping weight, per pair, 8 lbs. Batteries and wire not included.

63C1080—Price, per pair (two telephones)..... **\$11.90**

Our Telephone Guarantee

WE guarantee that every telephone will be exactly as described and give perfect satisfaction, or you may return it and receive back all money you have paid, including transportation charges. If any part proves defective, we will replace or repair it without charge. This guarantee applies to the complete instrument and all its parts.

Read This Before You Order Bridging Telephones

If a line is already in operation in your neighborhood, and you wish to go in on it, no matter if the instruments already in use are not of our make, you can use our telephones on that line. Ringer movements wound to the same resistance in ohms. The resistance in ohms is always stamped plainly somewhere on the Ringer movements of all phones. Find out the resistance of those already installed on the line and order yours with ringer movements of the same resistance.

Private Line Telephones

A high grade, compact Series Telephone, having a powerful series generator. For use on private lines of any length up to five miles. Easy to install and cost very little to maintain. All parts are neatly mounted on compact cabinet, except the batteries, which can be placed in any convenient, out of the way place. Copper or iron wire or even fence wire can be used for the line wires. Can be wired for one (ground) or two (metallic) wire systems. As many as four phones can be used satisfactorily on one line. Shipping weight, per pair, 60 lbs.

163C1060—Per pair (2 telephones), without dry batteries..... **\$26.95**

Shipped Promptly from Stock at Chicago.

Telephone Wire

No. 12 Best Grade B. B. Galvanized Iron Telephone Wire. Put up in half-mile coils, all in one piece, without splice or joint. Has extra heavy zinc covering, protecting wire from corrosion. No. 12 weighs about 170 lbs., No. 14, about 96 lbs. per mile. We do not break the standard half-mile coils. Prices on this wire are subject to market changes.

63C1075—No. 12 B. B. Galvanized Iron Wire. Per half-mile coil, about 85 lbs..... **\$9.44**

63C1077—No. 14 B. B. Galvanized Iron Wire. Per half-mile coil, about 48 lbs..... **\$6.15**

Sold only in full half-mile coils.

Extension Bells

These bells may be connected by wires with any telephone. Can be placed at any point away from phone, in another part of the house, or in some nearby building. When the telephone bell rings, the extension bell will likewise ring. The extension bell must have exactly the same ohm resistance as the ringer movement on telephones with which it is connected.

Article No.	Resistance	Weight	Price
63C1170	80 ohm	3 1/2 lbs.	\$2.80
63C1172	1000 ohm	3 lbs.	3.35
63C1174	1600 ohm	3 lbs.	3.65
63C1176	2000 ohm	3 lbs.	3.85
63C1178	2500 ohm	3 lbs.	3.95

Condensers

All our bridging telephones are provided with condenser loops so that condensers can be easily installed if desired. If all telephones on the line are equipped with condensers, and the party you wish to call has his receiver on the hook, you can easily call him, no matter how many other receivers are off the hook. In this way, condensers greatly improve the service on any line. Condensers can be used on metallic or grounded lines.

63C1128—Condensers. Each..... **75c**

Lightning Arresters and Fuses

63C1263—Standard No. 400 arrester used to protect telephone instruments from lightning. Suitable for either one or two wire lines. Ship. wt., 1 lb. Each..... **44c**

Oak Brackets

No. 4 standard painted oak brackets for holding glass insulators. Fastened to side of pole or building. Length, 10 in. Ship. wt., per 100, 50 lbs. Prices quoted are subject to market changes.

163C1087—Per hundred..... **\$4.95**

63C1276—Each..... **5 1/2c**

Transmitters and Parts

The transmitter is of the long distance, solid back type and will give the best of service. It will transmit distinctly over the longest lines.

63C1130—Long Distance, Solid Back Transmitter without arm. Transmits the lowest articulate sounds over long distances. Can be used on any make telephones, except Battery phones. Weight, 18 oz. Price..... **\$1.75**

63C1132—Transmitter, Mounted on pony arm, as used on compact cabinet phones. Shipping weight, 28 oz. Each..... **\$2.30**

63C1134—Transmitter Mounted on pony arm, with induction coil in base, as used on long cabinet phones. Shipping weight, 45 oz. Each..... **\$3.48**

Transmitter Parts

63C1150—Black Composition Transmitter Mouthpiece. Shipping weight, each, 2 oz. Price each..... **18c**

63C1148—High glazed sanitary porcelain mouthpiece. Fits Western Electric and Bell transmitters only. Each..... **20c**

63C1152—Carbon Diaphragm. For old model transmitter. Ship. weight, 4 oz. Each..... **20c**

63C1154—Carbon Granules. Shipping weight, 2 oz. Per charge..... **25c**

Receivers and Parts

63C1140—Standard Model. Bipolar Telephone Receiver. Equipped with laminated magnets. This construction insures an absolutely permanent receiver, which can be relied upon at all times. The shell is extra heavy, the binding posts are concealed inside the cover, the cord is heavy and will wear well. Same as used on all our phones. Can be used on any make telephone. **\$1.75**

63C1141—Receiver shell. Ship. wt., 3 oz. Price, each..... **60c**

Receiver Cords

63C1142—Cord with spade tips on one end and solid tips on other end. Length, 36 inches. Ship. wt., 2 oz. Each..... **32c**

63C1143—Cord with spade tips on both ends. Length 36 in. Ship. wt., 2 oz. Each..... **32c**

Sawtooth Lightning Arrester

63C1258—Self cleaning, sawtooth air gap protector to be used for protection against lightning in rural districts where it is desirable to be free from the annoyance of cleaning carbons and where crosses with electric power circuits do not occur. Consists of two adjustable sawtooth metal discharge plates, normally placed .005 inch from the carbon ground. Size, 5x2x1 1/2 inches. Ship. wt., 15 oz. Price, as illustrated without cover..... **54c**

63C1259—Same as above but with metal cover. Price..... **71c**

Pony Glass Insulators

No. 9 standard; the size usually used for telephone and telegraph lines. Packed 400 in a barrel. Shipping wt., per bbl. 300 lbs. Prices quoted are subject to market changes.

163C1085—Per barrel of 400..... **\$21.00**

63C1267—Less than barrel lots. Each..... **7c**

Generators

Same as used on our telephones described above. Each bar on the generator is made up of three distinct magnets so that every 5-bar generator has 15 magnets and every 6-bar generator has 18 magnets.

The 5-bar generator is standard with power more than enough for any line of standard construction. The 6-bar generator is especially recommended for long, heavily-loaded lines.

163C1062—Five bar Generator. Size, 6 1/2 x 3 1/2 x 3 1/2. Weight, 10 lbs. Price..... **\$5.40**

163C1064—Six-bar Generator. Size 6 1/2 x 3 1/2 x 3 1/2. Weight, 12 lbs. Price..... **\$5.95**

Ringer Movements and Ringer Bells

Same as used on our telephones. Ring strong on less current. Can be used on any make of bridging telephone. Ship. wt., 14 oz.

Ringer Movements with Bell Posts on Ringer Frame.	Price Each
63C1115—Series.....	\$1.85
63C1117—1000 ohm.....	2.25
63C1119—1600 ohm.....	2.55
63C1121—2000 ohm.....	2.70
63C1123—2500 ohm.....	2.85

Combined Arrester and Cut-Out

Large carbon air-gap lighting arresters on porcelain base. Provided with knife switch to disconnect telephone during storm or to locate trouble. Built for use with mica fuses for protection against crosses with "high" line power circuits as well as against lightning. Nickel plated brass mountings.

63C1336—Single pole for grounded or single wire systems. 7 1/2 in. long, 1 1/2 in. wide. Shipping weight, about 1 lb. Price, without fuse..... **69c**

63C1337—Two pole for metallic or two wire systems. 7 1/2 in. long, 3 in. wide. Shipping weight, about 2 lbs. Price, without fuses **\$1.05**

Rubber Covered Twisted Pair Telephone Wire

Each conductor consists of a size 19 copper wire, covered with rubber insulation, over which is a cotton braid; two such conductors are twisted together. Ship. wt., per 100 feet, about 4 lbs. Prices quoted are subject to market changes.

63C1217—With dry insulation for inside wiring. Per 100 ft..... **\$2.48**

63C1218—With saturated braid for outside wiring. Per 100 ft..... **\$2.48**

Induction Coil

63C1110—Improved Model. Used on all our telephones. Can be used on any make bridging telephone. Weight, 7 oz. Price..... **90c**

Ringer Movements Without Mounting Brackets for Bells as Illustrated.

Article No.	Resistance	Price Each
63C1180	1000 ohm bridging.....	\$2.25
63C1182	1600 ohm bridging.....	2.55
63C1184	2000 ohm bridging.....	2.70
63C1186	2500 ohm bridging.....	2.85

63C1188—Telephone Bells or Gongs with adjustable mounting brackets for use with ringer movements such as 63C1180 to 1186. Price, per pair..... **50c**

63C1125—Telephone Bells or Gongs without brackets or stands to be used on Ringer movements with bell posts such as 63C1115 to 1123. Price, per pair..... **35c**

Linemen's Safety Tool Belts and Straps

63C1245—Linemen's Safety Tool Belt. Made of extra heavy harness leather, very best quality. Six tool loops. Belt passes through heavy rings. Length, 40 in. Width, 2 1/2 in., with 2-inch roller buckle. Ship. weight, about 2 lbs. Price..... **\$4.75**

63C1250—Safety Strap. Made of extra heavy harness leather, very best quality. Adjustable length. Heavy snap on each end. Length, 6 ft.; width, 1 1/2 in. Ship. weight, about 2 lbs. Price..... **\$4.40**

Linemen's Climbers and Straps

These climbers are made of the best tempered steel. Finely finished. Will give the best satisfaction. No better of the kind made. Length, 15, 16, 17, or 18 inches. Stat. size wanted.

63C1235—Climbers. Eastern pattern. Without straps. Shipping weight, 4 lbs. Per Pair, Price..... **\$2.95**

63C1240—Set of four climber straps and two knee pads. Shipping weight, 1 1/2 lbs. Price..... **\$2.48**

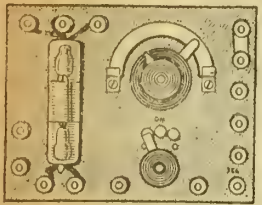
Linemen's Splicing Clamp

63C1230—Best grade forged tool steel clamp, with rounded handles. For splicing telephone wires. Very strong handles. Will not spring out of shape. Length, 10 1/2 inches. Weight, 18 oz. Each..... **\$2.09**

RADIO APPARATUS AND SUPPLIES

Prices on This Page are Subject to Market Changes

Vacuum Tube Control Panel



63C5106—Universal control panel for vacuum tubes. Formica panel size, 5 1/2 x 7 1/2 inches. Metal parts polished and plated. Any V. T. circuit may be used. Directions furnished. Vacuum tube not included in price. 4000-ohm graphite potentiometer. Back mounted rheostat. Ship. wt., 4 lbs. Price..... **\$11.85**

63C5197—Vacuum tube. Iron type bulb for use with above panel. Gives excellent results and guaranteed against any mechanical imperfections. With proper care will give long life. Ship. wt., 12 oz. Price, each..... **\$6.00**
63C5620—4000-ohm potentiometer graphite only. Price..... **95c**

Marconi Vacuum Tube

63C5198—These tubes are the genuine V. T.'s made in the Moorhead laboratories for distribution by the Marconi Company. They represent the highest development in vacuum valve detectors. Equipped with standard four prong mounting. Suitable for detector, oscillator or amplifier. Ship. wt., 1 lb. Price..... **\$7.00**

Base for Marconi Vacuum Tube
63C5199—Four prong contact enclosure. Mounted on moulded base with screw terminals and marked connections. Ship. wt., 1/2 lb. Price..... **\$1.20**
63C5340—Marconi 2-megohm resistance. Mounted on black moulded base. Ship. wt., 4 oz. Price..... **75c**

Amplifying Transformer

63C5140—Will positively increase the strength of incoming signals up to twenty times the original audibility. Scientifically designed to work with the vacuum tubes supplied for amateur use. One of the best devices in its class. It is of iron core type and is supplied with binding posts and lugs for mounting. Height, 2 1/2 in. Ship. wt., 1 lb. Price..... **\$5.60**

Vacuum Tube Plate Circuit Battery

63C5621—Composed of 15 cells in series—22.5 volts, each cell separately insulated and the whole unit compactly assembled and sealed together. Flexible leads from end cells. Ship. wt., 5 lbs. Price..... **\$1.98**

"A" Storage Battery

163C398—Six volt, 49 amp. hour storage batteries for filament circuit. This is the highest grade Hercules battery, made by the National Carbon Co., and will give long, satisfactory service. Wt., 30 lbs. Price..... **\$18.50**

Mica Grid Condenser

For use in grid circuit of vacuum tube. Cap. 0.005 M. F. Wt., 8 and 2 oz.
63C5330—Mounted in mahogany base. Price..... **65c**
63C5331—Unmounted. Price..... **25c**

De Forest Inductance Coil Mounting

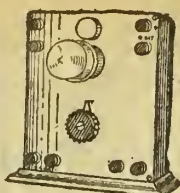
63C5118 For mounting any size De Forest Honeycomb Inductance coils. Provided with vernier adjustment. With this mounting, 3 inductances you have a receiver for any kind of wave or any wave-length used. Oak base nicely finished. Nickel-plated brass metal parts. Ship. wt., 5 lbs. Price not incl. coils..... **\$13.00**
 De Forest Honeycomb Wound Inductance Coils
 Increase efficiency and flexibility of receiving set. Wound with solid S. C. wire, mounted on plug to use with above mounting. Inside diam. coils 2 in. width 1 in., outside diam. 2 1/2 to 4 1/2 inches. Ship. wt., 1 lb. to 2 1/2 lbs. Wave length range given is with .001 M. F. variable air condenser.

Article Number	Approx. In. duct.	Approx. wave length range	Price
63C5337	.040	170-375	\$1.40
63C5338	.075	200-515	1.45
63C5339	.15	240-730	1.52
63C5390	.3	330-1030	1.80
63C5391	1.3	660-2200	1.90
63C5392	2.3	860-2850	2.10
63C5393	4.0	1340-4800	2.10
63C5394	6.5	2940-12000	2.65
63C5395	100	5700-19000	3.00

Century Buzzer

63C5346—Used by the Army and Navy and commercial wireless stations. For adjusting crystal detector. Operates on one or two dry cells. Base is hard rubber with black enamelled brass cover. Two thumb screws provide for adjustment of the armature to regulate the tone to desired pitch. Genuine Platinum Contacts. Diameter of base, 2 1/2 in. Ship. wt., 6 oz. Price..... **\$1.65**

Test Buzzer Push Button
63C5137—For use with test buzzer. Nickel rim with pearl center. Held firmly in 1/2 inch hole by small spring clips. Ship. wt., 1/2 oz. Price..... **24c**



DeForest Audion Panel

Grained bakelite panel, 6 1/2 x 7 1/2 inches. Tube receptacle. Filament rheostat. Grid leak. Impregnated mica stopping condenser. Binding posts for connection to tuner, "B" battery, "A" battery and phones. Ship. wts., 6 and 7 lbs.
63C5110—Audion Panel without tube, battery, phones or cabinet. Price..... **\$12.00**
63C5111—Audion Panel without tube, battery or phones, mounted in oak cabinet. Price..... **\$14.25**

Amplifier

63C5160—Will increase signal strength 10 to 20 times. Represents the latest developments in amplification. Uses a distinctively new type of amplifying coil which responds to both audio and radio frequencies. Two of these amplifiers connected in cascade will give an amplification of 400. Polished golden oak cabinet. Size, 6 1/2 x 7 3/4 x 5 1/2 inches. Ship. wt., 8 lbs. Price, with instruction book, each..... **\$24.10**

Loop Tuner

63C5162—For use with our audion receiving cabinets. This tuner is similar to the instruments used in the sensitive direction-finding stations on the coast. It employs the well known feedback regenerative circuit which greatly increases the amplification of signals. Especially designed for use on Loop Antenna. Can also be used on a straight type antenna. Polished golden oak cabinet. Size, 6 1/2 x 7 3/4 x 5 1/2 inches. Ship. wt., 8 lbs. Price, with instruction book..... **\$15.50**

Loop Antenna

163C650—Will receive messages from stations 300 miles distant, and much farther under favorable conditions. Picked inside of house, doing away with danger from lightning and the necessity of cutting holes for lead-in wires. Wave length 200 to 2500 meters. Can also be used as direction finder and will tune out stations not wanted. Comes knocked down with all the necessary wire for winding. Assembles easily. Ship. wt., 12 lbs. Price..... **\$6.60**

Murdock No. 55 Head Sets

These sets have given excellent service to thousands of users. Thin extra responsive diaphragms, fine quality permanent steel magnets, enamelled copper wire windings. Nickel silver adjustable headband, complete with 5-foot cord and connecting block. Ship. wt., 1/2 to 1 1/2 lbs.
63C5370—Double set, 2000 ohms (total). Price..... **\$4.50**
63C5371—Double set, 3000 ohms (total). Price..... **\$5.50**
63C5372—Single set, 1000 ohms without connecting block. Price..... **\$2.75**

Brandes "Superior" Type Receivers

A high grade sensitive set of receivers. Light and rigid in construction. Aluminum case. Hard rubber caps. Annealed Norway iron cores. Wound with No. 40 enameled copper wire. Resistance 2,000 ohms per set. Green mercerized cord six feet in length. Weight in use 1 1/2 oz.
63C5380—Complete with head band and cord. Price..... **\$7.00**
63C5385—Double receiver Cord. Price..... **95c**

Learner's Head Set

63C5383—Scientifically constructed for radio use. Made especially for us by Brandes Company. Should not be confused with ordinary Telephone receivers sometimes furnished. These sets are just the thing for those who wish a low priced sensitive radio head set. Ship. wt., about 1 1/4 lbs. Price..... **\$2.50**

Fixed Receiving Condenser

63C5312—A necessity on every receiving set. Often used shunted across the receivers. Capacity .01 M. F. moulded composition base. Entire unit is sealed in wax. Shipping weight, 10 ounces. Price..... **95c**

Porcelain Base Rheostats

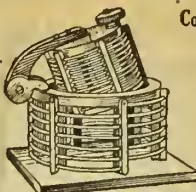
German silver winding on threaded fibre strip imbedded in porcelain base. Smooth easy action. Moulded knobs, 1 1/4 in. diameter. Resistance, 11 ohms. Capacity, 3 amperes. Diameter, 4 inches. Shipping weight, 1 1/2 pound.
63C5313—Front mounted. Price..... **\$0.98**
63C5314—Back mounted. Price..... **1.20**

Ground Switch

63C5359—600 volt, 100 ampere double throw single-pole switch on insulating base. For grounding aerial when not in use. Ground wire should be 4 gauge. Ship. wt., 5 lbs. Price..... **\$4.85**

Test Buzzers

63C5345—Watch case buzzer. Operates on one dry cell. Nickel plated cover and base. 1 inch high, 2 1/2 inches diameter. Ship. wt., 8 ounces. Price..... **65c**



Commercial Type Oscillation Transformer

163C648—Designed to give wave ranges both above and below 200 meters. Solid copper windings on "Formica" supports. 10 1/2 in. diam. primary of six turns No. 3 wire. 6 1/2 in. diam., secondary of twelve turns No. 5 wire. Mahogany finished woodwork. Two helix clips included. Ship. wt., 26 pounds. Price..... **\$15.35**

Murdock Oscillation Transformer

63C5155—Permits sharp tuning on 200 meter wave. Can be used on sets up to 1 K. W. Primary and Secondary windings of discwise wound copper ribbon. Coupling varied by hinge. Ship. wt., 8 lbs. Price..... **\$5.00**

Cabinet Transmitter

63C5164—Will send wireless messages from 5 to 10 miles. Operates on 6 dry cells or storage battery. Complies with government regulations. Designed to operate on 200 meter wave. Tuning accomplished by means of 8 point switch on insulating panel. Mounted in golden oak finished cabinet, size 7 3/4 x 6 1/2 x 5 1/2 inches. Ship. wt., 10 lbs. Price, with instruction book..... **\$13.20**

Wireless Spark Coils

For use on dry cells or storage batteries. Properly adjusted the half inch coil has a sending range of from 2 to 5 miles, the one inch coil 5 to 10 miles. Ship. wt., 6 and 8 lbs.
63C5126—Half inch coil..... **\$3.95**
63C5127—1 inch coil..... **5.25**

Spark Coil Transmitting Condenser

63C5348—Designed for use with spark coil sets. Dielectric of 5 size, 5x7 photo plates. Mahogany finished case. Permits working on 200 meter wave. Ship. wt., 3 lbs. Price..... **\$1.65**

Zinc Spark Gap

63C5350—For use with spark coil transmitters. Base is moulded composition. Metal parts nickel plated and polished. Can be used with coils up to 4 inches. Shipping weight, 2 pounds. Price..... **75c**

Radiator Spark Gap

63C5351—Micro-meter adjustment. Electrodes of zinc. Cooling vanes of aluminum. Metal parts nickel plated. Base glazed porcelain. Will handle over 1 K. W. Wt., 2 lb. Price..... **\$3.38**

High Frequency Ammeter

Jewel Pattern No. 25
 An exceptionally accurate instrument. High frequency current heats a thermo-couple and the resultant energy is measured by a sensitive D'Arsonval galvanometer. Well damped insuring a steady pointer. Temperature variations have practically no effect on the readings. Side terminals avoid making inductive loop in connection. Base diameter, 4 1/4 in. Ship. wt., 6 lbs.
63C5360—0 to 3 ampere Range. Price..... **\$11.95**
63C5361—0 to 10 ampere Range. Price..... **12.05**

Hot Wire Ammeter

63C5365—Will measure accurately the radiation in the aerial and ground circuit. A necessity for tuning the transmitter to 200 meter wave. Range 0-5 amperes. Will stand 100 per cent overload. Base is of hard rubber composition. Nickel-plated rim, size 3 1/2 inches diameter. Ship. wt., 1 lb. Price..... **\$5.40**

Electrode Insulators

Electrode Insulators are the standard in the wireless field. They stand up under all conditions met with. Eyes are wrought iron galvanized. Ship. wt., 1/2 to 2 1/2 lbs.

Article No.	Dia. In.	Lgth. Ov. In.	Strgth. Lbs.	Elec. Value Dry Volt	Price
63C5630	2 1/2	3 1/2	250	+0,000 25,000	36c
63C5631	1 1/2	4	1,000	+0,000 15,000	48c
63C5632	1 1/2	10 1/2	1,000	90,000 50,000	82c

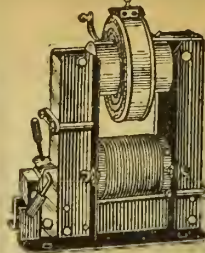
Electrode Insulators

63C5634—Special Wall Insulator for lead in wires. Has hole through body for wire. Body diam. 2 in. Length over all, 5 1/2 in. Ship. wt., 1 lb. Price..... **96c**

Kick Back Preventer

63C5358—Prevents high frequency surges from discharging back into power line. A necessity when power transformer is supplied from city mains. Two 1000-ohm resistance rods. Mahogany finished base. Connections of strip copper. Ship. wt., 4 lbs. Price..... **\$4.80**

Our Radio Instruments are standard high grade equipment chosen from the lines of the foremost manufacturers. These instruments are built on correct electrical and mechanical principles and are the highest grade in their class. We not only offer you high grade apparatus but our prices will save you considerable money. Every instrument is backed by our guarantee of Satisfaction or Money Refunded.



Wireless Transformer

Thordarson Type 1
 For use on 105 115 volt alternators current, 60 cycle. Generally accepted as the standard transformer for amateur transmitting. Provides adjustable primary with adjustable magnetic leakage gap which controls primary inductance giving a wide range of amperage and permits easy adjustment to point of resonance. Impedance of choke coil necessary in primary circuit. Ship. wt., 35, 38 and 55 lbs.

Art. No.	K.V.A.	Amps.	Sec. Volt	Price
163C630	1/2	1 to 6	10,000	\$27.4
163C631	1	1 to 9	10,000	33.4
163C632	1	2 1/2 to 14	25,000	45.4

Thordarson 1/4 K. V. A. Transformer

163C633—Embodies the same essential high-grade construction as the type K transformer but does not have the adjustable magnetic shunt. For use on alternating current of 108 to 115 to 60 cycles. Secondary volt. 8,000. Wt., 13 lbs. Price..... **\$17.00**
63C5124—Non-inductive resistances for use with any transformers. Ship. wt., 8 oz. Price, each..... **\$2.40**

Glass Plate Transmitting Condensers

Best grade photo plate size, 8x10 inches, used 1 dielectric. Very hard tinfoil used for conductive surface. Air is absolutely expelled by rolling—no oil on edge in a compound of ozolite and paraffin. Heat copper strip connection insulated from case. Sections have a capacity of .01 mfd. each and will withstand a potential of 8,000 volts. Ship. wts., 30, 55 and 85 lbs.

Article Number	Size	Number Sections	Total Cap.	Max. Vol.	Price
163C640	1/2 K.W.	2 in series	.005 mfd.	16,000	10.5
163C641	1/2 K.W.	4 in series parallel 9-groups	.01 mfd.	16,000	15.2
163C642	1	3 in series parallel, 3 in series	.01 mfd.	25,000	27.0

Sections for Glass Plate Transmitting Condensers

63C5131—Same as used in our glass plate transmitting condensers. Capacity .01 mfd. Withstand 8,000 volts. Wt., 12 lbs. Price..... **\$4.50**

Improved Model Rotary Spark Gap

Flat pure copper electrodes avoid pitting. Width of break adjustable. Strong breeze generated by rotary electrode quickly quenches spark, thereby allowing transmission of wave of low decrement. All conducting metal mounted on Formica. Easily handles 40.00 volts without endangering motor windings. Constant steady speed.
63C5142—1/2 K. W. size. 1/2 H. P. Universal motor. For 108 to 115-volt current. Speed 4,000 R. P. M. Price..... **\$14.20**
63C5143—1 K. W. size. 1/2 H. P. Universal motor. For 108 to 115-volt current. Speed 5,000 R. P. M. Price..... **\$18.90**

Clear Tone Rotary Spark Gap

63C5166—Can be used with transformers up to 15,000 volts. Rotor is of zinc alloy with 12 points. Especially designed stationary electrodes provide proper quenching and clear spark tone. Smooth running universal type for 108 to 115 volt current. Speed 4000 R. P. M. Will greatly increase the radiation in the antenna circuit. Ship. wt., 9 lbs. Price..... **\$10.50**

Overland Wireless Key

Mounted on marble base. A commercial type of wireless key. Adjustable lever with large coin silver contacts. Ship. wt., 2 lbs.
63C5354—For 5 ampere current. Price..... **\$4.95**
63C5355—For 10 ampere current. Price..... **5.50**

Standard Wireless Key

63C5352—A high grade key made of heavy lacquered brass. Large hardened contact points. Ship. wt., 1 lb. Price..... **\$3.60**

Legless Type Wireless Key

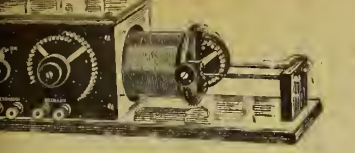
63C1741—A standard type of wireless key. Preferred by many operators on account of its light touch and snap action. Will handle currents of 1/2 K. W. and over if protected by 2 M. F. Condenser. Ship. wt., 14 oz. Price..... **\$2.10**

Murdock Antenna Switch

63C5113—A large, sturdy, well built "change over" switch suitable for use on sets up to 1 K. W. Mahogany finish base. Moulded composition pillar support, copper blades. Fitted with third blade to disconnect receiver when sending. Ship. wt., 2 1/2 lbs. Price..... **\$4.50**

Christmas Tree Outfits, Telegraphers' and Experimenters' Supplies

Navy Type Receiving Transformer



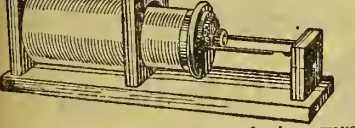
63C600—A very selective instrument for the more advanced stations. Primary inductance is controlled in steps by units and tens switches. Secondary has 12-point control. Has wave range up to 4,000 meters. Formica panels. Metal parts of brass polished nickel finish. Single silk covered windings. Mahogany finished wood work. Base is 13 inches long, 6 1/2 inches wide. Ship. wt., 25 lbs. Price. **\$17.60**

Cabinet Type Receiving Transformer



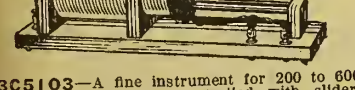
63C5168—W 111 tune-in sharply messages of any wave length up to 2,500 meters. Special winding eliminates dead end losses. Mounted on black insulating panel set in golden oak case, size, 6 1/2 x 7 1/2 x 3 1/2 in. Metal parts lacquered brass finish. Coupling varied by knob and pointer. Primary and Secondary Inductances controlled by eight point switches. Ship. wt., 8 lbs. Price. **\$15.95**

Arlington Type Receiving Transformer



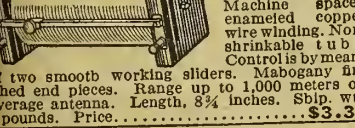
63C601—An efficient high-grade, long wave tuner. Has same winding as our Navy type. Will receive all government time stations such as Arlington and Key West. Works up to 4,000 meters. Primary controlled by slider. Secondary inductance varied by a 12-point switch mounted on Formica, silk covered wire windings. Brass metal parts polished and lacquered. Mahogany finished wood work. Base, 18 inches long; 6 inches wide. Shipping weight, 14 pounds. Price. **\$9.50**

Junior Loose Coupler



63C5103—A fine instrument for 200 to 600 meter work. Primary controlled with slider, secondary by 5 point switch. Metal parts brass, polished and lacquered. Woodwork mahogany finish. Base, 12x3 1/2 inches. Ship. wt., 6 pounds. Price. **\$4.75**

Two Slide Tuning Coil

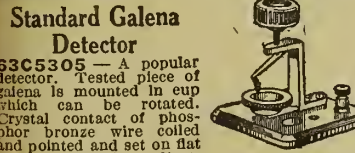


63C5104—Machine spaced enameled copper wire winding. Non-shrinkable tube. Control is by means of two smooth working sliders. Mahogany finished end pieces. Range up to 1,000 meters on average antenna. Length, 8 1/2 inches. Ship. wt., 4 pounds. Price. **\$3.35**

Loading Coil

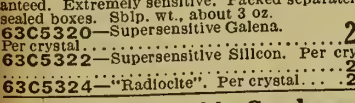
63C5105—Essentially the same as two slider tuning coil, but has only one slider. Will add about 300 M range to any set. Ship. wt., 3 lbs. Price. **\$3.10**

Silicon Detector



63C5304—A detector of correct construction. Permanent adjustment. Really a universal detector as galena and other minerals can also be used. Molded base and adjustment knob. Metal parts brass, polished nickel finish. Tested piece of silicon included. Base, size, 2 1/2 x 3 1/2 inches. Ship. wt., 1 pound. Price. **\$1.88**

Standard Galena Detector



63C5305—A popular detector. Tested piece of galena is mounted in cup which can be rotated. Crystal contact of phosphor bronze wire coiled and pointed and set on flat spring. Very fine adjustment obtainable with screw. Moulded base and adjustment knob. Base, size, 3x3 inches. Ship. wt., 1 1/2 lbs. Price. **\$1.43**

Detector Crystals

Genuine Arlington Tested Minerals. Absolutely the best crystals that can be purchased for any price. All are thoroughly tested and guaranteed. Extremely sensitive. Packed separately in sealed boxes. Ship. wt., about 3 oz.
63C5320—Supersensitive Galena. Per crystal. **29c**
63C5322—Supersensitive Silicon. Per crystal. **29c**
63C5324—"Radioctite". Per crystal. **25c**

Improved Variable Condenser

Rotary and stationary aluminum plates carefully mounted and accurately spaced. Square Formica end pieces permit scale to stand vertically. Clear flint glass cases, accurate 180 degree scale.
63C5326—43 plate size. Cap., .001 M.F. Ship. wt., 3 lb. Price. **\$5.25**
63C5327—21 plate size. Cap., .0005 M.F. Ship. wt., 2 1/2 lb. Price. **\$4.55**

Brighten Up For Holiday Occasions



These lights are not only used for Christmas Tree decorations but are being used extensively to light up lawns or the home on special festive occasions where unusual lighting effects are desired. The different colored lights give a very pleasing effect and add joy to the entire occasion.

The outfits we handle are of the best quality, all lamps are of the drawn wire tungsten type and give a bright, clear light. Made to use either power current or batteries. Easily and quickly put in place. Will burn in any position. All outfits have assorted red, blue, green and clear lamps of about 2 candle power. Long attaching cord and plug or clips for attaching to light socket or battery as required.

Special Feature
 All our Christmas Tree Lighting outfits (except battery outfit) have sockets provided with the new attaching clips so that the lights can be easily and securely fastened to the branches of the tree. Ship. wt.—3 light outfit, 2 lbs.; 16 lights, 3 1/2 lbs.; 24 lights, 5 1/2 lbs.; 32 lights, 7 lbs.



Dry Battery Christmas Tree Outfit Complete With Battery
 For use where lighting current is not available. **63C1690**—An 8-light Christmas Tree Lighting Outfit. Complete with three cell battery. Battery will burn about an hour at a time for about eight nights. Just enough for the Christmas season. Uses 4 Volt 2 C. P. lamps. Ship. wt., 8 lbs. Price. **\$3.95** per outfit.

If sixteen lights are wanted, get two outfits, for twenty-four lights, three outfits, etc.

Christmas Tree Outfit

For Use with Automobile Storage Battery of 6 Volts—3 Cells
63C1636—8 light outfit. Price. **\$3.10**

Simply attach the wires to terminals of any three cell storage battery and you will have lights to brightly illuminate your Christmas Tree.

For 16 or 24 light outfits, order 2 or 3 of the 8 light outfits. Uses 6 Volt 2 C. P. lamps.

Extra Lamps for Christmas Tree Lighting Outfits

Each box contains four lamps, one clear, one blue, one red and one green. We suggest that you order an extra box with every outfit and avoid the disappointment of being without your lights because of a burnt out lamp (bulb). Ship. wt., per box of four, 4 oz.
63C1652—14 volt lamps for use on the usual city lighting current of 105 to 110 volts. Price, per box of 4 lamps. **94c**
63C1654—4 volt lamps for use on 30-32 volt farm lighting plant current (15 or 16 cell storage battery plants) or dry battery outfits such as our outfit **63C1690**. Price, per box of 4 lamps. **94c**
63C1656—6 volt lamps for use on 6 volt automobile storage battery outfits. Price, per box of 4 lamps. **94c**

For Use on Lighting Current of 105 to 115 Volts

63C1621—8 light outfit. Price. **\$3.20**
63C1622—16 light outfit. Price. **6.40**
63C1623—24 light outfit. Price. **9.60**
63C1624—32 light outfit. Price. **12.80**

For Use on Farm Electric Lighting Plant, Current of 30-32 Volts

Regular Style Outfit **\$3.30**
63C1632—8 light outfit. Price. **6.60**
63C1634—24 light outfit. Price. **9.90**
63C1635—32 light outfit. Price. **13.20**

Christmas Tree Candlesticks

63C1658—Give the old time candle effect. Can be used in connection with any Christmas Tree electric lighting set. Self adjusting springs on the bottom of reflector pans hold them securely to tree with lights in upright position. Candle sticks are metal tubes enameled white, reflector pans are red, blue, green and gold; two of each color in every set. You should have a set of these with each 8 light outfit, 2 sets with a 16 light outfit, etc. Ship. wt., 1 lb. Price, per set of 8. **76c**

Radio Parts Set

For the Amateur Who Wishes to Construct His Own Station
63C652—Consists of a complete set of parts for building a receiving station with a range of 300 miles. Comes knocked down in compact stained wood cabinet, size, 10x17x2 1/2 inches. All parts are in the set including coil forms, switch knobs, pointers, wire, blind-ling posts as well as crystal detector parts, head phones and aerial equipment. Everything fits and the outfit is very easily assembled by following the instructions given in the Wireless Manual furnished with each set. Ship. wt., 10 lbs. Price, for complete set. **\$15.70**

Buffer and Grinder Motor

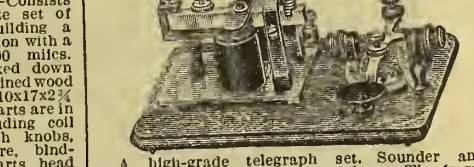


Operates on 110 volt current either direct or alternating. Has sufficient power to operate window displays, sign flashers, 8-inch fans, buffing wheels, rotary spark gaps and small lathes. Spindle at one end of the shaft is fastened to pulleys and emery wheel. Pulleys are 1 in. and 1 1/2 in. in diameter. Height, 5 in. Length over all, 8 in. Supplied with buffing wheel, emery wheel, wax for buffer, 3 foot attaching cord and plug. Ship. wt., 4 1/2 lbs.
63C6079—Price, complete. **\$14.50**
63C6057—With Buffer and Emery Wheel without handle, but arranged to use huffer and emery wheel. Price. **\$13.50**



Operates on 110 to 130 Volt Alternating or Direct Current
 A combination grinder and polisher for heavy duty work. Has 1/2 H.P. motor which provides enough power to drive a variety of small machines. Spindle at one end of shaft to take buffing wheel, pulleys and emery wheel at other. Pulleys have effective diameter of 1 and 1 1/2 inches. Emery wheel is 2 1/2 inches. Height over all, 8 in. Length, 11 1/2 inches. Ship. wt., 20 lbs.
63C465—Complete with buffing wheel, emery wheel, wax for buffer, 9 ft. attaching cord and wheel, three speed rheostat in base. Price. **\$23.90**

Professional Telegraph Instruments



A high-grade telegraph set. Sounder and key mounted on polished wood base. The frame of the sounder is polished brass, with aluminum lever and hard rubber-covered magnets. The key has a polished brass frame with steel lever, hard rubber knob and circuit breaker. Shipping weight, 3 pounds.
63C1720—4-ohm combination set. **\$4.25**
63C1732—20-ohm combination set. Same as above except the sounder magnets are wound to a higher ohm resistance to increase sensitivity. Price. **\$4.35**

Amateur Telegraph Instruments

A good instrument for the beginner to practice on. Consists of a full-sized key and sounder, mounted on a polished oak base. Price includes an up-to-date Operator's Manual, containing Morse code; instructions for telegraphing, exercises and general information. Shipping weight, 2 1/2 lbs.
63C1715—With 4 ohm sounder. Price, complete with Operator's Manual of Telegraphy. **\$2.45**
63C1719—With 20 ohm sounder. Same as above except the sounder magnets are wound to a higher ohm resistance to increase sensitivity. Complete, with Operator's Manual of Telegraphy. Price. **\$2.60**

Professional Sounders

Sounders same as used on our professional combination set. Shipping wt., 24 oz.
63C1735—4 ohm sounder. Price, each. **\$2.45**
63C1737—20 ohm sounder. Price, each. **\$2.68**

Steel Lever Keys

Steel lever keys same quality as used on our professional set. Shipping wt., 14 oz.
63C1739—Leg Key with legs to go through table or desk. Price, each. **\$2.15**
63C1741—Legless Key to screw to top of table or desk. Price, each. **\$2.10**

Long Wave Inductances

Used in radio work for receiving from big power undamped wave stations. These inductances are of maximum electrical value. Windings are D. C. wire on Formica forms. Wt., 2 lbs.
63C5335—6000 meter size. Price. **\$7.60**
63C5336—10000 meter size. Price. **\$8.10**
63C5337—15000 meter size. Price. **\$8.55**

Special Transformer

Operates only when connected onto alternating current line of 100 to 130 volts, 60 to 133 cycles.
63C1695—Special transformer, 50 watt capacity. Produces from 1 1/2 to 24 volts in 1 1/2 volt steps. An efficient, small, neat and compact device that will operate trains and motors, bells, buzzers and low voltage lamps. Equal in quality and efficiency to any transformer made. Fitted with 7 ft. cord and attaching plug. Shipping weight, 5 1/2 lbs. Price. **\$3.95**

Standard Type Transformer

Operates only when connected onto alternating current line of 100 to 125 volts, 60 to 133 cycles. Either of these transformers produces current varying from 1 1/2 to 24 volts in steps of 1 1/2 volts each, and in addition can produce constant voltage, so that a number of different voltages can be drawn at the same time. Fitted with 7 ft. cord and attaching plug.
63C1697—Capacity, 100 watts. Shipping wt., 10 pounds. Price. **\$5.90**
63C1699—Capacity, 150 watts. Shipping wt., 13 pounds. Price. **7.60**

Miniature Dynamo Motor

An experimental model for educational institutions or to teach the boy electricity. May be used either as a Dynamo or Motor. With this machine you can electroplate, charge small storage batteries (not automobile storage batteries), run motors, trains of cars, induction coils. A miniature duplicate of machines in actual commercial operation. This machine is not intended for long continuous running. If you need a machine of this kind, refer to **63C6157**, Page 664.
 Safe maximum load, 6 volts, 4 amperes. Will light three four-candle power Tungsten lamps. As a power motor, runs well on two, three or four dry cells. Height, 5 in. Ship. wt., 7 1/2 lbs.
63C1665—Knapp Type SS No. 129 Dynamo-Motor. Price, each. **\$8.10**

Electric Battery Motor

A high grade small motor with starting, stopping and reversing circuit. Gearing produces three different speeds. Runs to full efficiency on 3 to 5 volt (2 to 4 dry cells) current. 3 1/2 in. high. Black enamel finish, nickel plated terminals. Electrically and mechanically this motor is well designed. Shipping weight, 2 1/2 pounds. Price. **\$4.95**
63C1611—As described. Price. **\$4.95**
63C1613—Same but without switch and gears. Price. **\$4.15**

Knife Switches

Porcelain base switches. Contacts and blades made of heavy copper. Intended for low voltage currents, but can be used on 125 volt current to carry load not over 15 amperes.
63C2684—Single pole, single throw switch. Base, size, 1 1/2 x 3 1/2 in. Ship. wt., 6 oz. Price. **26c**

63C2686—Single pole, double throw switch. Base, size, 1 1/2 x 3 1/2 in. Ship. wt., 10 oz. Price. **37c**

63C2687—Double pole, single throw switch. Base, size, 2x2 1/2 in. Ship. wt., 10 oz. Price. **39c**

63C2689—Double pole, double throw switch. Base size, 2 1/2 x 4 in. Ship. wt., 11 lb. Price. **54c**

Magnet Wire

For repairing motors, other electrical apparatus, experimental work, etc. One piece only on a spool. Wire is standard B and S gauge. Insulation and wire both perfect and uniform. Supplied only on weight spools given.

Double Cotton Covered Magnet Wire			Beiden Enameled Magnet Wire		
Order by Art. Number	63C1350		Order by Art. Number	63C1400	
Price	4 oz. Spool	1 lb. Spool	Price	4 oz. Spool	1 lb. Spool

50.60	70	1.12	18	55c	55c	95
55	85	1.21	20	62c	62c	98
60	95	1.55	24	65c	65c	1.00
64	1.05	1.69	26	68c	68c	1.10
69	1.15	1.95	28	70c	70c	1.13
78	1.35	2.18	30	75c	75c	1.18
85	1.50	2.55	32	82c	82c	1.25
1.15	2.15	3.70	36	\$5.00	\$5.00	

Antenna and Copper Wire

Supplied only in size coils listed.
63C5150—Aerial cable. Composed of seven strands No. 22 B. & S. gauge phosphor bronze wire. Ship. wt., 6 lbs. per 100 feet.
63C5151—Bare copper wire No. 14 gauge. 50 feet, \$1.45. 100 feet, \$2.45. 500 feet, \$11.90.
63C5152—Bare copper wire No. 12 gauge. 50 feet, 85c. 100 feet, \$1.20. 500 feet, \$5.50.
 50 feet, 65c. 100 feet, \$1.20. 500 feet, \$5.50.

Transparent Pyrex Ovenware

You can see right through it! Stands any amount of heat in baking. Pyrex glass cleans easily and never shows traces of dirt. Its hard surface cannot absorb odors or flavors. It will not crack when changed from ice cold to boiling water. You can take Pyrex dishes direct from the oven to the table, as they are both for baking and serving.



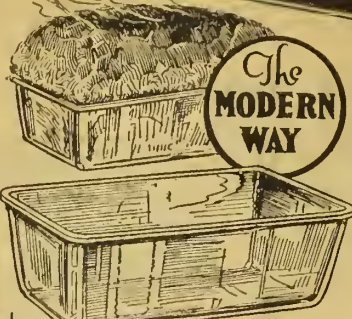
Pyrex Covered Casseroles. Fit standard size frames. Ship. wt., 6 to 10 lbs.
50C1663—8 in. Oval \$1.75
50C1665—9 in. Oval \$2.00

Pyrex Covered Casseroles. Fits any standard frame. Shipping weight, 4½ and 5 lbs.
50C1660—7 in. Round \$1.50
50C1662—8 in. Round \$1.75

Glass and Earthenware

Hall's Vitrified Ware Non-Absorbent

A special process vitreous cooking ware that is white inside and green outside. Ready for instant use. Doesn't need boiling before using. Absolutely non-absorbent and, therefore, highly sanitary. It insures the pure sweet natural taste of all foods cooked in it. Practically unbreakable in use, and is the highest grade of baking ware to be had.



The MODERN WAY

Pyrex Bread Pan. Transparent. You can watch your bread or cake while baking. Size 9x5x2½ in. Ship. wt., 4½ lbs.
50C1666
 Price, each.....90c

Coffee Pot with Aluminum Coffee Container



50C1636—New Washington Shape. Green outside, white inside. Capacity, 9 cups. Shipping weight, 8 pounds. Price, each.....\$1.89

Percolator Tea Pot



50C1633—Green outside, white inside. Capacity, 1½ pt. Ship. wt., 3½ lbs. Each.....\$1.85
50C1634—Cap. 2½ pt. Ship. wt., 5 lbs. Each.....\$2.25

Vitrified China Casseroles. Beautiful green outside, white inside. Will fit frames of same size.

Art No.	Size, in.	Sh. Wt.	Price
50C1638	7 Rd.	7 lbs.	\$1.35
50C1640	8 Rd.	8 lbs.	1.65
50C1642	9 Rd.	9 lbs.	1.95
50C1644	8 Oval	8 lbs.	1.35
50C1646	9 Oval	9 lbs.	1.65

High Quality Mixing Bowls



Vitrified Earthenware **50C1582**—High quality mixing bowls of yellow vitrified earthenware. Unaffected by heat. Set includes the following bowls: 8 in., 9 in., 10 in., and 11 in. Shipping weight, of set, 15 lbs. Price.....\$2.25

Crystal Glass **50C1583**—Easy to keep clean. Consists of one each of the following sizes: 7 in., 8 in., 9 in., 10 in., and 11 in. crystal glass mixing bowls. Ship. wt., of set, about 15 lbs. Price of set, 5 pieces.....\$2.98

Water Cooler



150C1344.....\$5.45
 Cover has knob. Made of sanitary gray stoneware. For schools, factories, etc. Complete with nickel-plated Push Button faucet. Cap., 5 gal. Ship. wt., 45 lbs.

Gray Stoneware Butter Churn



Glazed inside and outside. Has stoneware cover. Dasher made of hard maple. Has 3½ ft. handle.

Article No.	Cap. Gal.	Ship. Wt. Lbs.	Price
50C1400	3	20	\$2.39
50C1401	4	23	2.85
50C1402	5	28	3.25
50C1403	6	32	3.85

Gray Stoneware Jars with Covers



Sanitary. Very Practical. Finely glazed inside and out.

Article No.	Cap. Gal.	Ship. Wt. Lbs.	Price
150C1434	4	13½	\$2.45
150C1435	6	25	3.35
150C1436	8	30	4.45

Boston Bean Pot



50C1588—Capacity, ½ gallon. Ship. wt., 3½ lbs. Price.....55c
50C1589—Capacity, 1 gallon. Ship. wt., 5½ lbs. Price.....65c

China and Glassware Cement



Leaves no black or dirty looking lines. Transparent. Contents, 1 ounce. Shipping weight, ¼ lb.
50C1596—Price, per bottle.....19c

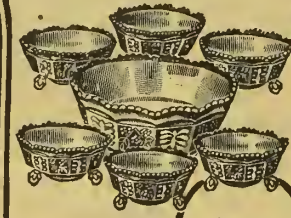
Glass Cereal and Spice Set

Colonial Style 7-Piece Set



Consists of 1 large Coffee Jar, height, 7 inches; 1 Tea Jar, height, 5 inches; 5 Spice Jars, height, 4½ inches. Ship. wt., 8 pounds.
150C1579
 Price, per set.....\$1.60

Iridescent Glassware



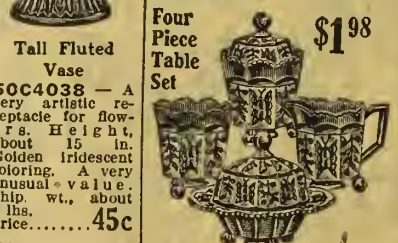
7-Piece Berry Set
 Butterfly and floral decorations on golden iridescent glassware. Diam., large bowl, 8½ in.; nappies, 4½ in. Ship. wt., 12 lbs.
150C4027—Price, set.....\$2.25



Tall Fluted Vase
50C4038—A very artistic receptacle for flowers. Height, about 15 in. Golden iridescent coloring. A very unusual value. Ship. wt., about 9 lbs. Price.....45c



Footed Fruit Compot
150C4039—Golden iridescent coloring. Grape decorations on outside and floral decorations inside of bowl. Fluted edge. Height, 8 in. Diam., 9½ in. Ship. wt., about 15 lbs. Price.....\$1.35



Four Piece Table Set
 Colonial shape with grape design in beautiful golden iridescent colors. 3-pt. pitcher, ½-pt. tumblers. Ship. wt., 12 lbs.
150C4028—Per set.....\$2.25



Footed Nappy
50C4037—Purple iridescent coloring. All over floral decoration covers inside. Width, about 10½ in. Ship. wt., about 10 lbs. Price.....69c

Large 2-Piece punch bowl with 12 handled punch cups and metal hangers. Floral decoration in golden iridescent colors. Diam., 11½ in. Ht., 9 in. Ship. wt., 25 pounds.
150C4029
 Price complete.....\$2.98



Fruit Bowl
150C4036—An extra large fruit bowl in Royal purple iridescent coloring. Leaves and grapes on sides in golden iridescent coloring. Mounted on three artistically formed feet. Width at top, 11 in. Ship. wt., about 18 lbs. Price.....\$1.45

9-Piece Cooking Set



A serviceable cooking set. Contains 8-inch baking casserole in brass nickel-plated frame, six 3-inch custards, one 6-in. pudding pan and one 6-in. mixing bowl. Earthenware, white glazed inside, brownish red outside. Ship. wt., 25 lbs.
150C1598
 Price, complete set.....\$3.48

Fry's Heat-Resisting Glass Ovenware Set

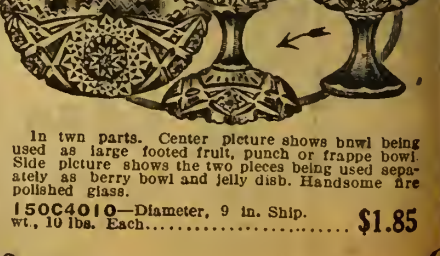


Set consists of 11 important pieces: 1 biscuit pan, 11x8½ in.; 2 bread pans, 9½x5x3 in.; 2 pie plates, 9½x1½ in.; 6 custard cups, 6 ounces. Shipping weight of set, 20 pounds.
150C1580—Price set.....\$5.75

11-Piece Pyrex Gift Set



An unusual and lasting gift that will be greatly appreciated. Adds much to the pleasures of baking. Set consists of 1 round covered casserole, 7 in.; 1 pie plate, 9 in.; 1 bread pan, 9½ in.; 1 round handled baking dish, 7 in.; oval handled baking dish, 8x6 in.; 6 individual custards. Ship. wt., about 18 lbs.
150C1584—Price of set.....\$6.00



In two parts. Center picture shows bowl being used as large footed fruit, punch or frappe bowl. Side picture shows the two pieces being used separately as berry bowl and jelly dish. Handsome fire polished glass.
150C4010—Diameter, 9 in. Ship. wt., 10 lbs. Each.....\$1.85

For Better Baking Results.

\$1.39
Genuine Van Deusen Baking Set

32c
Shallow Muffin Pans

24c
Flour Sifter

48c
Steel Baking Pan

Made of best charcoal tin. Consists of 1 Round Loaf Mould, 8 in. diameter; 2 Square Layer Moulds, 7 1/2 in. diameter; Egg Whip; Measuring Cup. We also include a copy of Scientific Cake Rules and Recipes with each Baking Set.
With this set you are assured of success in baking the most delicate cakes. Requires absolutely no greasing. Instructions tell exactly how to go about each operation. Ship. wt., about 4 lbs.
86C1578—Price, only \$1.39

86C1510— Stamped tin. Ship. wts., 12 and 15 oz.
No. Size About Each
Cups Inches
8 13 1/2 x 6 3/4 32c
12 13 1/2 x 10 1/2 45c

86C1541— Has wire-cloth bottom. Capacity, 1 1/2 qts. Ship. wt., 1 lb. Each **24c**

86C1539— Made of selected tin, nickel-plated. The agitator is strong and effective. Size, 6 1/2 x 5 1/2 in. Ship. wt., 1 lb. Each **39c**

Size	Price
7 x 10 in.	17c
7 x 14 in.	22c
8 x 17 in.	28c
10 x 16 in.	30c
13 1/2 x 17 in.	39c
17 1/2 x 10 in.	52c

Sanitary Tin Bread Pans
86C1515— Extra heavy. Rounded corners and edges. Made from one piece with ends folded (not cut and riveted). Ship. wts., 12 to 18 lbs.

Bread and Pastry Board
A most perfect board for the preparation of pastry. Has a specially prepared tin surface. No scraping or scouring required; no bad odors which arise from soft boards. It is mounted on a strong three-ply wood base. Size, 19x21 1/4 in. Ship. wt., 5 lbs.
86C1587— Each **\$1.48**

86C1502— Size, 9 1/2 x 1 in. Ship. wt., of 3, 12 **23c**
Size, 10x1 1/4 in. Ship. wt., of 3, 15 oz. **28c**
3 for **23c**

THE WINDSOR DUPLEX FIRELESS STOVES

COOKS THE ENTIRE MEAL

Only \$32.95
Complete With Stand

86C1505— Straight sides. Size, 9x 1/2 in. Ship. wt., of 3, about 12 oz. 3 for **27c**

86C1560— Price, per dozen, assorted **24c**

86C1570— Made of tin, in assorted styles. Set of 4. Ship. wt., 8 oz. Price **35c**
Set of 12. Ship. wt., 1 1/2 lbs. Price **98c**

86C1590— Price, per set **\$2.15**

86C1593— Make crisp little patties for serving dainties of all sorts, salads, leccs, etc. Directions included. Ship. wt., 2 lbs. Price **85c**

86C1594— Diameter, 3 in. Makes a dainty foundation for serving fruits, vegetables, etc. Ship. wt., 1 pound. Price, per set **87c**

86C1847— Polished finish. Capacity, 1 quart. Ship. wt., 10 oz. Each **55c**
86C1842— Standard Grade. 1-qt. size. Ship. wt., 8 oz. Each **16c**
4-qt. size. Ship. wt., 16 oz. Each **45c**

86C1519— The secret of flaky pie crust—it is hollow and can be filled with cold water or cracked ice. Clear glass. Length, 15 1/2 inches. Shipping weight, 3 pounds. Each **32c**

86C1554— Capacity, 50 pounds. Height, 19 inches. Shipping weight, 10 pounds. Price **\$2.45**
86C1555— Capacity, 100 pounds. Height, 26 in. Shipping weight, 13 pounds. Price **\$3.55**

86C1558— Average size, 15 1/4 x 10 x 9 1/4 inches. Ship. wt., 15 lbs. Price **\$1.79**
86C1559— Average size, 18 x 12 x 11 1/4 inches. Ship. wt., 16 lbs. Price **\$2.48**

Bakes as Well as Cooks
Tender and juicy treats can be made of the cheaper cuts of meat when stewed, roasted or boiled in the Windsor Duplex.
In these days of high-priced fuel, the Windsor Duplex Cooker is more valuable than ever. It is easy to operate and cooks the food thoroughly. A meal for a large family or a small one may be cooked with the same ease.
The cooker has patented steam vents which enable it to bake bread, pies, cakes and roast meat to a golden brown. Heat the roasting discs for 10 or 15 minutes, place them in the well with the food on them, close the cooker, and then forget about the meal until time to eat it.
The Windsor Duplex is a practical and convenient piece of furniture for the modern kitchen. A full set of directions and a book of tasty recipes sent with each cooker.

The Double Windsor Duplex Fireless Stove
The Double Windsor Duplex has a cooking capacity of 18 quarts. It is strongly made of sheet metal, lined with aluminum which accounts for its surprising lightness. Automatic steam vent in lid.
It is equipped with three aluminum vessels. One 10-quart and two 4-quart, three large baking and roasting discs, disc lifter, folding baking rack, aluminum mat and book of recipes. 28 inches long, 12 1/2 inches wide, 18 inches high. Equipped with light-rolling casters, so that it can be moved about easily. Furnished with or without legs.
86C1471— Without legs. Shipping weight, 126 pounds. Price **\$29.85**
86C1472— With legs. Shipping weight, 160 pounds. Price **32.95**

The Single Windsor Duplex Fireless Stove
The Single Windsor Duplex has a smaller cooking capacity but its work is just as efficient as the larger model. It is aluminum lined and just as strongly made. The single model is best adapted for use in small kitchens. Furnished with two aluminum vessels, 6-quart and 3-quart; two large baking and roasting discs, automatic steam vent in lid; also disc lifter, folding baking rack; aluminum mat and book of recipes. Shipping weight, 60 lbs.
86C1473— Price **\$18.95**

\$18.95
186C1473

86C1610

Cap. Quarts	Ship. Wt. Lbs.	Price	Cap. Quarts	Ship. Wt. Lbs.	Price
10	8	\$2.95	17	21	\$3.85
13	9	3.25	21	23	4.25

86C1606

Capacity	Ship. Wt.	Price
12 Qts.	8 Lbs.	\$2.10
14 Qts.	13 Lbs.	2.39
18 Qts.	17 Lbs.	2.98

86C1419— Perforated bottom to fit over kettle. For steaming puddings, bread, etc.

Size	Inches About	Ship. Wt. Lbs.	Price, Each
8	4 3/4 x 10 1/4	1 1/2	74c
9	5 3/4 x 11 1/4	2	85c

86C1837— Light pieced tin. Well made and useful in a great many ways. Capacity, 9 qts. Ship. **34c**
Capacity, 11 qts. Ship. wt., 2 1/2 lbs. Price **45c**

86C1428— Polished **64c**

Size	Bottom Diam. In.	Shipping Wt., Lbs.	Price, Each
7	8	2 1/2	\$0.64
9	9	3 1/2	.75
10	10	4 1/2	.89
12	11	5	1.10

86C1427
Smooth inside. Ship. wts., 2, 2 1/2 and 3 lbs.
Size No. 7. Top diameter, 9 1/2 in. **39c**
Size No. 8. Top diameter, 10 1/2 in. **43c**
Size No. 9. Top diameter, 11 1/4 in. **53c**

86C1426— Polished. Cool handle. **12c and up**

Size	Top	Ship. Wt.	Price
00	6 in.	6 oz.	12c
1	8 1/2 in.	12 oz.	24c
3	9 1/2 in.	17 oz.	34c
6	12 in.	25 oz.	48c

86C1711— Consists of one each, 9, 9 1/2, 10, 10 1/2, 11, 11 1/2-inch covers and wire rack. Ship. wt., about 2 1/2 lbs. Price per set **72c**

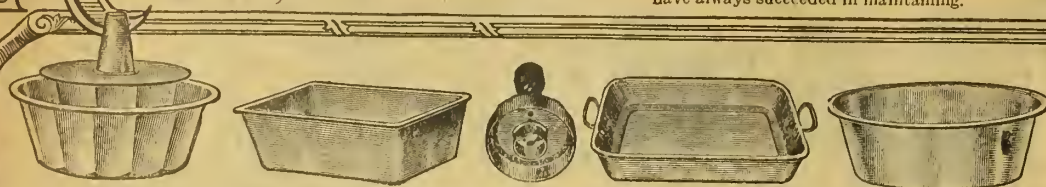
86C1424— Price **\$1.89**

ROYAL Aluminum Ware

Look for our trade-mark—It identifies this ware of unvarying quality. Only the best heavy gauge aluminum is used in its construction in spite of the attractive prices we have always succeeded in maintaining.



Look For This Trade Mark



Royal Panned Cake Mould **\$1.40**
86C1032—Removable bottom. Diameter at top, 9 1/4 in. Depth, 3 1/4 in. Ship. wt., abt. 1 1/2 oz. Price.....\$1.40

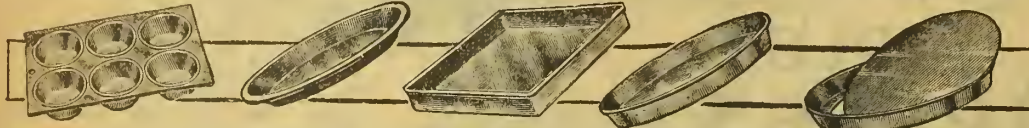
Royal Oblong Bread and Cake Pan
86C1033—Seamless. Highly polished. Size, 9 1/2 x 5 1/2 x 2 1/4 in. Ship. wt., about 12 oz. Price, each.....65c

Biscuit or Dough-nut Cutter 12c
86C1037—Diam., 2 3/4 in. Center cutter is removable. Wt., 4 oz. Each.....12c

Royal Baking Pan **\$2.35**
86C1062—Smooth and seamless. Easy to clean. Excellent value. Size, 14 1/2 x 10 x 2 in. Ship. wt., 2 lbs. Price, each.....\$2.35

Royal Pudding Pans **42c**
86C1025

Cap. Qts.	Ship. Wt. Oz.	Price
1	10	\$0.42
2	12	.65
3	16	.95
4	24	1.28



Royal Deep Muffin Pans **\$1.25**
86C1031

Size	Ship. Wt. Oz.	Price
6 cups	16	\$1.25
9 cups	20	1.60

Royal Pie Plates **29c**
86C1027

Size About	Ship. Wt.	Price
9 in.	8 oz.	29c
10 in.	10 oz.	35c

Royal Square Cake Pan **98c**
86C1034—Seamless. Requires little greasing. Size, 9 1/2 x 11 1/2 in. Wt., about 11 oz. Price.....98c

Royal Cake Pan **35c**
86C1028—Size, 9 in. Ship. wt., 9 oz. Price, each.....35c

Royal Loose Bottom Cake Pan **45c**
86C1029—Size, 9 in. Ship. wt., 6 oz. Price, each.....45c



Royal Graduated Quart Measure **69c**
86C1139—Seamless. For measuring flour, sugar, etc. 1-qt. size, divided into 1/4-qt. spaces. Ship. wt., 1/2 lb. Price.....69c

Royal Colander **\$1.35**
86C1052—Made seamless. Polished outside. Satin finish inside. Diam., 9 1/2 in. Ship. wt., 23 oz. Price.....\$1.35

Royal Combination Funnel **48c**
86C1059—Fruit Jar Filler, Funnel, Cup, Coarse and Fine Strainer all in one. Top diam., 5 1/2 in. Ship. wt., about 9 oz. Price.....48c

Royal Mixing Bowls **\$1.10**
86C1026—Diam., 9 in. Cap., 3 qts. Ship. wt., about 15 oz. Price.....\$1.10
 Diam., 11 in. Cap. 4 1/2 qts. Ship. wt., about 18 oz. Price.....\$1.65

Royal Pitcher **\$2.10**
86C1141—For water, milk, etc. A new, beautiful shape. Perfectly smooth and bright. Cap., 2 1/4 qts. Ship. wt., 1 1/2 lbs. Price.....\$2.10



12 In-1 Aluminum Set
Used in thousands of homes where women have combined thrift with efficiency. The five big pieces illustrated above form all the utensils shown in the smaller illustrations. Set consists of a 6-qt. kettle and cover, perforated and solid bottom pans, 2 1/4 qts. each, and cake pan tube with bottom. Nests into one compact pan. Each piece in this set is of seamless, bright Royal Aluminum. Smooth and easily kept clean. Ship. wt., 3 lbs. Price, complete set **\$3.25**



Preserving Kettle
86C1067—Price, complete set **\$3.25**

Cereal Cooker or Double Boiler
86C1067—Price, complete set **\$3.25**

Convex Kettle
86C1067—Price, complete set **\$3.25**

Corn Popper or Flake Roaster
86C1067—Price, complete set **\$3.25**

Steamer Set
86C1067—Price, complete set **\$3.25**

Self-Basting Roaster
86C1067—Price, complete set **\$3.25**

A Few Reasons Why You'll Prefer Royal Aluminum Ware

Handles firmly fastened with countersunk rivets, the kind that will never pull out.

Roaster cover fits snugly. Raised bottom prevents burning. Trough at edge collects and holds gravy.

Double lips make it easy and convenient to pour contents out from any position.

Royal Wash Basins
86C1046—Made seamless.

Diam. Inches	Ship. Wt. Ounces	Price
11 1/2	10	\$0.89
13	12	1.10

A Wholesome Dish!
Start the morning right with some good health-bringing porridge. How fine it tastes when cooked in a Royal Aluminum Double Boiler! Its clean, sanitary, surface preserves the full goodness of the foods at all times. Cannot chip, crack or peel and is not affected by foods or fruit acids.

Royal Measuring Spoon Set **12c**
86C1057—Needed in every kitchen. Gives 1/4, 1/2 and 1 teaspoon measurements. Ship. wt., about 3 oz. Price.....12c

Royal Cake Turner **32c**
86C1051—Has black enameled wood handle. Length, 15 1/2 in. Ship. wt., 6 oz. Price.....32c

Royal Aluminum Pot Cover Sets **\$1.38**
Heavy aluminum ringed pot covers. Will not rust. Very neat. Set consists of one each, 8, 9 1/2, 10 and 11-in. cover and wire rack. Ship. wt., 2 lbs. Price.....\$1.38

Royal Potato Masher **49c**
86C1105—Sanitary. Has wooden handle. Ht., 11 in. Diam., 3 1/2 in. Ship. wt., 3/4 lb. Price.....49c

Royal Strainers **88c**
86C1055—Perforated bottom. Seamless. Diam., 6 1/2 in. Ship. wt., 12 oz. Price.....88c

Royal Tea Strainer **14c**
86C1054—Finely perforated bottom. Lgth., 7 1/2 in. Top diam., 2 1/2 in. Ship. wt., 4 oz. Price.....14c

Royal Soup Ladle **39c**
86C1049—Size, 4 in. Lgth 12 in. Black enameled wood handle. Ship. wt., 6 oz. Price...39c

Royal Water Dipper **39c**
86C1050—Seamless with aluminum handle. 1 pt. Sh. 6 oz. Price...39c

Royal Double Boilers **\$1.89**
86C1006

Capacity Quarts	Ship. Wt. Lbs.	Price Each
1 1/2	2	\$1.89
2	2 1/2	2.25
3	3 1/2	2.75

Crumb Tray Set **\$1.25**
86C1120—Neatly decorated with oriental design. Satin finish. 8 1/2-in. tray and 10-in. scraper. Shipping weight, 1 lb. Price, each.....\$1.25

Extra Heavy Aluminum Tea and Water Kettles **\$3.25**
Welded Spout
 86C1015—Size, No. 7. Cap., 5 qts. Ship. wt., about 3 lbs. Price.....\$3.25
 86C1016—Size, No. 8. Cap., 7 qts. Ship. wt., about 4 lbs. Price.....\$4.28
 86C1017—Size, No. 9. Cap., 8 qts. Ship. wt., about 5 lbs. Price.....\$4.98

Royal Coffee Pots **\$1.89**
86C1022

Cap. Quarts	Ship. Wt. Oz.	Each
1 1/2	24	\$1.89
2 1/2	26	2.15
3 1/2	30	2.45

Royal Tea Pots **\$1.98**
86C1021

Cap. Quarts	Ship. Wt. Oz.	Each
1 1/2	18	\$1.98
2	22	2.35

Royal Aluminum Double Roaster **\$4.**
Made seamless of hard pure aluminum. Body and fit snugly, retaining all the juices and preventing shrinkage of meat. The center of the lower pan is raised and does not touch the oven, preventing scorching. Self-basting. To clean. Will take very large roast or fowl of any dimensions, over all, 12x18 x 8 1/2 in. Ship. wt., 5 lbs. Price.....\$4.

Kitchen Ware of Quality

Why not make your kitchen as bright and cheery as possible? Begin today to replace the old dingy worn-out utensils with silvery bright Royal Aluminum Ware. It is seamless—has no crevices to collect dirt. Sizes given are average.

Everywomens Aluminum Set

\$4.98 Entire Set



Contains the following items: 4-qt. tea kettle; 2-qt. sauce pan; 1 1/2-qt. soup and vegetable strainer; 3-cup egg poacher and 1 1/2-qt. pudding pan. Every one of the important pieces pictured along the panel is formed from this set. Entire outfit rests into one compact pan when not in use. A wonderful new idea in kitchen utensil construction, sold by us exclusively. Each piece is made of the purest and best Royal Aluminum.

186C1182—Ship. wt., 3 1/2 lbs. Price.....\$4.98



Royal Drinking Cup
86C1047
Size, 1/2-pint. Shipping weight, 3 ounces. Price.....21c
Size, 1 pint. Shipping weight, 4 ounces. Price.....33c



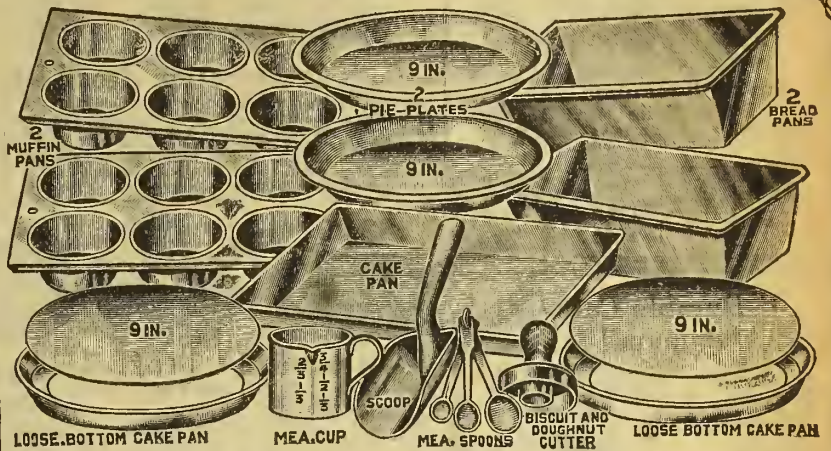
Royal Dinner Pail
86C1069
Seamless. Capacity: Lower vessel, 4 1/2 quarts; inset, 3 quarts. Diameter, 7 3/4 in. Shipping weight, 2 pounds. Price, each.....\$2.85



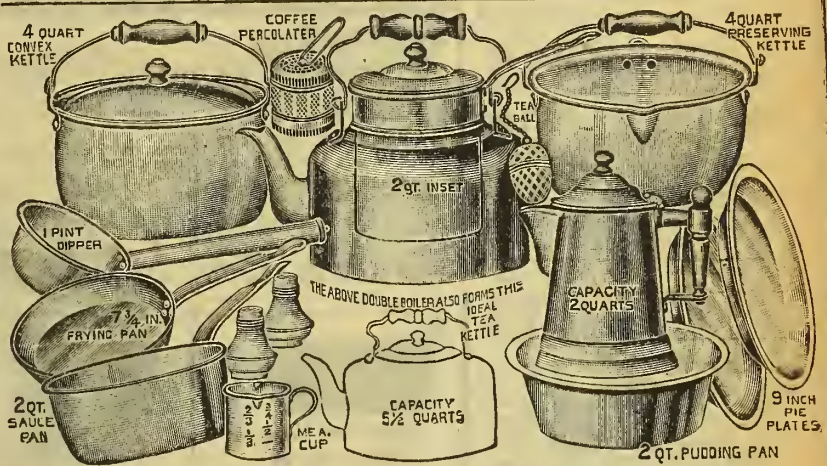
Royal Milk Pails
86C1068
Seamless. Has a snug-fitting cover. Easy to keep clean—sanitary. Capacity, 1 quart. Ship. wt., about 4 oz. Price, each.....92c
Capacity, 2 quarts. Ship. wt., about 12 oz. Price.....\$1.52



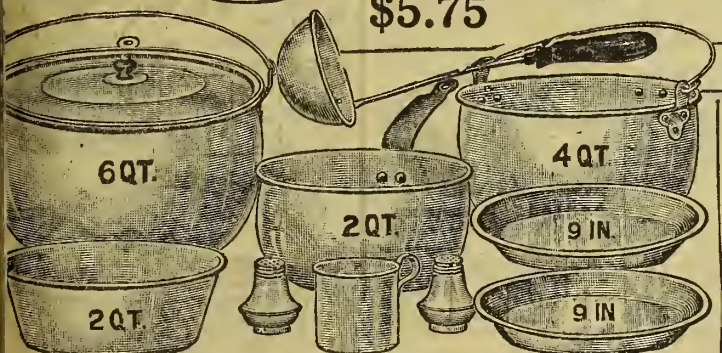
Royal Dripless Syrup Pitcher
86C1149—Removable lip. Self-closing spring cover. Polished finish. 1-pint size. Ship. wt., 1 lb. Price.....\$1.25



This pure Royal Aluminum set will enable you to prepare many delightful varieties of bakery goods. Contains these important pieces: Two Bread or Cake Pans, 9 1/2x2 1/4x5 1/4 in.; two loose bottomed 9-in. Cake Pans; two deep, 9-in. Pie Plates; one 12x8x1 1/4-in. Cake Pan; two 6-Cup deep Muffin pans; one Combination Biscuit and Doughnut Cutter; one Measuring Spoon Set (3 pieces); one Flour Scoop and one Measuring Cup. Order it at once—enjoy the results obtained by this beautiful, fuel saving ware. Shipping wt., 5 lbs. Price, for set.....\$5.65



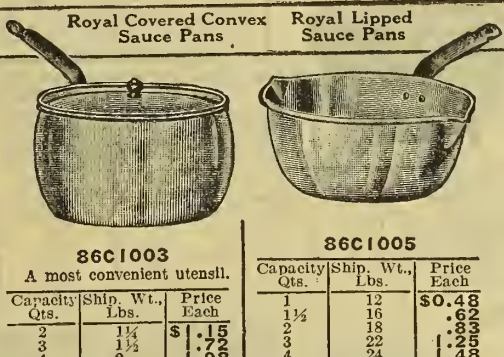
A Set that will give Lasting Satisfaction. Our price proves the wisdom of buying this set now. Every piece is of pure Royal Aluminum. All practical kitchen needs—check them over yourself and see. Contains one Combination Tea Kettle and Double Boiler; one Coffee Pot; one Tea Ball; one Coffee Maker; one Convex Kettle; one Preserving Kettle; one Sauce Pan; one Pudding Pan; two deep Pie Plates; one Dipper; one Measuring Cup; one Fry Pan; one salt and Pepper Shaker. Ship. wt., 10 lbs. Price, for set.....\$11.48



Choice 10-Piece Royal Aluminum Set

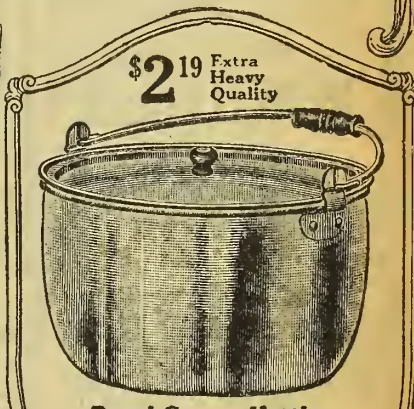
A beautiful, handy and economical 10-piece kitchen assortment of heavy, pure, bright, Royal Aluminum. Made seamless. Consists of the articles most needed in the kitchen daily. Note the big capacities. This set will be appreciated by the particular housewife, because it makes cooking easy and also adds much to the attractiveness and tidiness of the kitchen. Think of the low price for these 10 pieces and then order today. Shipping weight, about 10 pounds.

186C1163—Price, set complete.....\$5.75

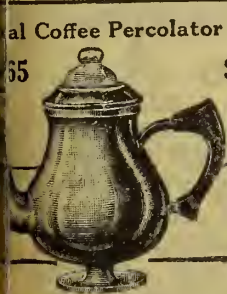


86C1003 A most convenient utensil.
Capacity Ship. Wt., Price Each
Qts. Lbs. \$
2 1 1/4 1.15
3 1 1/2 1.72
4 2 1.98

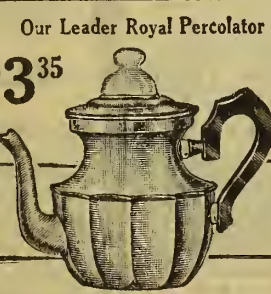
86C1005
Capacity Ship. Wt., Price Each
Qts. Lbs. \$
1 12 .04.48
1 1/2 16 .62
2 18 .83
3 22 1.25
4 24 1.48



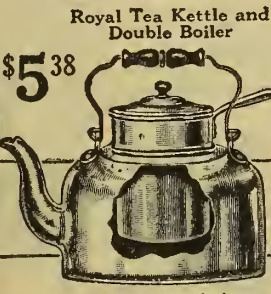
Royal Convex Kettles
86C1001
Cap., 4 qts. Ship. wt., 1 1/4 lbs. Price, each.....\$2.19
Cap., 6 qts. Ship. wt., 1 3/4 lbs. Price.....\$2.89
Cap., 8 qts. Ship. wt., 2 1/4 lbs. Price, \$3.19
Cap., 10 qts. Ship. wt., 2 3/4 lbs. Price, \$3.69



Royal Coffee Percolator
186C1136—6-cup size. Price.....\$4.65
186C1137—9-cup size. Price.....4.98



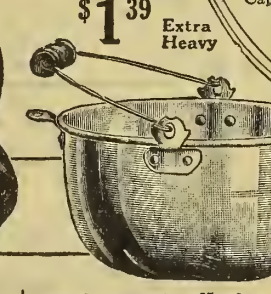
Our Leader Royal Percolator
186C1023—9-cup size. Ship. wt., 3 lbs. Price.....\$3.35
186C1024—12-cup size. Ship. wt., 3 lbs. Price.....\$3.95



Royal Tea Kettle and Double Boiler
186C1018—Entire Set, only.....\$5.38



Royal Aluminum Tea Pot
186C1175—Price.....\$2.25



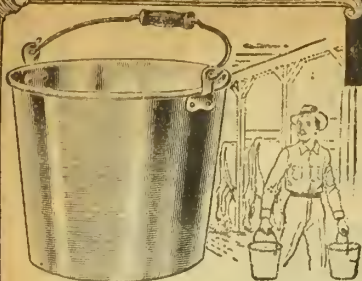
Royal Preserving Kettle
86C1004
Capacity Ship. Wt., Price Each
Qts. Lbs. \$
4 6 1.39
6 8 2.15
8 12 3.15
12 16 4.58



Royal Sauce Pan Set
86C1101—Highly polished. Seamless. Convenient lip for pouring. The three most needed sizes—1 1/2-quart, 2-quart and 3-quart. An excellent kitchen set. Shipping weight, 3 1/2 pounds. Price.....\$2.48

ROYAL Aluminum Ware

Pages 798 and 799 Contain the Complete Selection



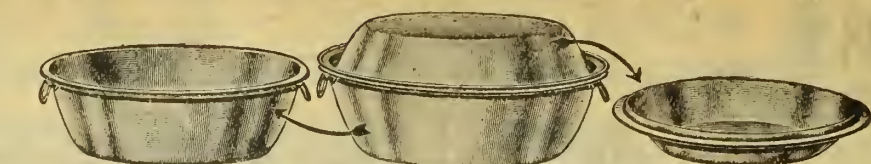
Royal Aluminum Water Pails

86C1045—See article's. Especially desirable for dairy use.

Capacity (Ship Wt. Lbs.) Price

8	1 1/2	\$1.95
10	1 3/4	2.39
12	2	2.69

\$1.95



Combination Bread Raiser, Roaster and Dish Pan

A very practical utensil for the modern kitchen. It comprises a roaster, bread raiser, oval dish pan and baking pan, yet contains only two snug-fitting parts, saving money and space. Well made of brightly polished aluminum ware. Seamless, smooth and easily kept clean. A set that has won universal favor among housekeepers.

The illustration at the left shows the lower part used as a dish pan. In the center both parts are used as a bread raiser or roaster and at the right is the cover used as a baking pan. Size, 16x12 1/2 x 7 1/2 inches over all. Lower part has strong handles. Shipping weight, 5 pounds.

186C1148—Price, complete \$3.95



Has Snug Fitting Ears

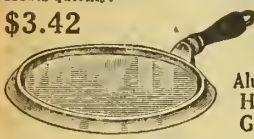
Royal Aluminum Strain Kettle
Protects Hands from Escaping Steam

Ship. wt., 3 1/2 and 4 pounds	Article Number	Capacity	Price
	186C1158	6 qt.	\$2.85
	186C1159	8 qt.	2.95

Durable Cast Aluminum Ware

Beautifully polished aluminum of the highest quality, smoothly cast in one solid piece. No joints, seams or folds. Extremely durable, yet light in weight. Heats quickly.

\$3.42



Cast Aluminum Handled Griddles

86C1081

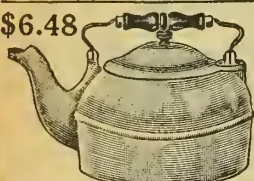
Size No.	Diam. In.	Ship. Wt. Lbs.	Price
8	9	1 1/4	\$3.42
9	10 1/2	2	3.85
10	11 1/2	2 1/2	4.75



Cast Aluminum Skillets

86C1082

Size No.	Diam. In.	Ship. Wt. Lbs.	Price
7	9 1/4	1 1/4	\$3.25
8	10 1/2	2	3.68
9	11 1/2	2 1/2	4.19



Cast Aluminum Tea Kettles

Has corrugated bottom, causing water to heat very quickly. We do not advise the use of this tea kettle in regions where the water contains much alkali as it affects the metal. Page 799 contains kettles adapted to such conditions.

Article Number	Size No.	Cap. Qts.	Ship. Wt. Lbs.	Price
86C1097	7	5	4	\$6.48
86C1098	8	6	4 1/2	7.28
86C1099	9	8	5	8.10

\$2.30

68c



Royal Skillets

86C1060—Extra heavy stamped sheet aluminum (not cast). Will not warp.

Size In.	Sh. Wt. Lbs.	Price
9	2 1/2	\$2.30
10	2 3/4	2.40
11	3	2.75

Royal Fry Pans

86C1061—Seamless.

Size In.	Sh. Wt. Lbs.	Price
7 1/2	16	\$0.68
9 1/2	22	1.30
10 1/2	29	1.85

Royal Double Omelette Pan

86C1020—Brightly polished. The two hinged covers shut the pan tightly when the two handles are brought together as one. Can be turned and shaken while cooking. Length of pan, 8 1/2 inches. Shipping weight, 2 1/2 pounds. Price.....\$1.95

Royal Extra Heavy Griddle

86C1125—Seamless, exceptionally heavy. Will not warp. Diameter, 11 1/2 in. Shipping weight, about 2 1/2 lbs. Price.....\$3.69

Smooth Cast Iron Ware



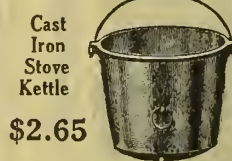
\$5.78

Only the best grade of iron is used. Each utensil is carefully moulded by experienced workman and vaporized with a transparent Anti-Rust preparation.

Cast Iron Ham or Wash Boilers

Strongly made of smooth, heavy cast iron. Flat bottom. Convenient size and shape. Size No. 8. Dimensions, 21 1/2 x 12 inches at top; 19 1/2 x 9 1/2 inches at bottom. Shipping weight, 28 pounds.

186C1447—Price..\$5.78



\$2.65

Clean, smooth cast iron. Inside polished and ground smooth. Shipping weights 8 and 12 lbs.

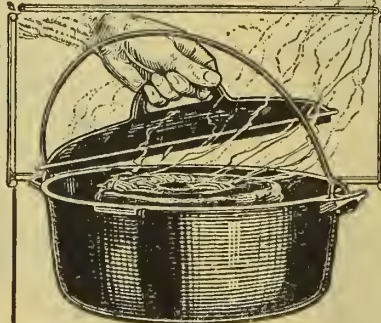
Article Number	Size	Holds Qts.	Each Price
186C1448	8	8	\$2.65
186C1449	9	10	3.30



Cast Iron Ham or Wash Boilers

Smooth cast iron. White porcelain enameled inside. Full size and weight. 186C2328—No. 8. Size, 23 1/2 x 11 1/2 x 9 1/2 in. Ship. wt., 30 lbs. Each, \$5.45

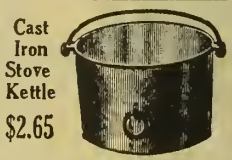
186C2329—No. 9. Size, 27 1/2 x 15 1/2 x 10 in. Ship. wt., 42 lbs. Price.....\$6.65



Cast Iron Dutch Oven

186C1441—Has steam-tight cover. Allows none of the flavor or moisture to escape. A real economy. Makes tender, juicy treats at the cheaper cuts of meat, which are just as nourishing as the more expensive. Can be used for roasting, boiling, baking or frying. Unexcelled for cooking pot roasts, etc. Smoothly finished inside. Capacity, 6 qts. Ship. wt., 12 lbs. Price.....\$3.58

Capacity, 8 qts. Ship. wt., 14 lbs. Price.....4.35



\$2.65

Flat bottom. Smoothly polished inside. 186C1442—Size No. 8. Cap., 7 qts. Ship. wt., about 9 lbs. Price.....\$2.65

186C1443—Size No. 9. Cap., 9 qts. Ship. wt., about 10 lbs. Price.....\$3.30



Extra High Grade Cast Iron Sugar, Wash or Butchering Kettles

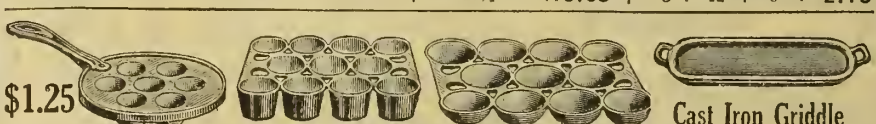
Best grade. Full size and weight. Excellent for making soap, butchering, cooking feed, rendering lard, etc. Heavy ears and legs. Wrought iron handle. Capacities given are actual.

Article Number	Size	Holds Gallons	Shipping Weight Pounds	Diameter Inside Inches	Price Each
186C2334	4	18	62	21 1/2	\$6.35
186C2335	5	21	69	22 1/2	7.45
186C2336	6	25	86	24 1/2	8.95
186C2337	7	30	108	26 1/2	10.45
186C2338	8	40	145	27 1/2	15.65



\$2.65

86C1445—Ground smooth on inside. Ship. wt., 7, 9 and 9 1/2 lbs.



\$1.25

Danish Cake Pan

86C1440—Smooth, gray cast iron. Diam., 8 1/2 in. Has 7 cups, 2 1/2 in. diam., 1 1/4 in. deep. Ship. wt., 6 lbs. Each.....\$1.25

Cast Iron Gem Pan

86C1438—Deep pattern. Size, 11 1/2 x 7 1/2 x 1 1/4 in. Eleven cups. Ship. wt., 6 lbs. Price.....98c

Cast Iron Gem Pan

86C1439—Shallow round pattern. Eleven cups. Ship. wt., 3 1/2 lbs. Each.....85c

Cast Iron Griddle

86C1436—For griddle cakes or heating sad irons. Ship. wt., 7 and 9 lbs.

Size	Inside Diameter Inches	Cap. Quarts	Price Each
8	17 1/2 x 8	4	\$1.79
9	19 x 9	6	2.30

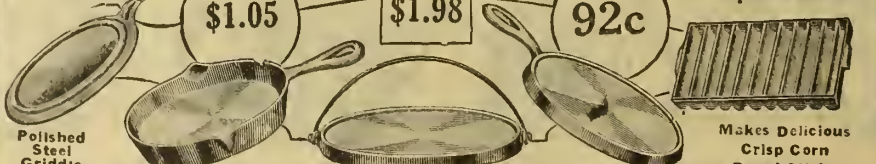
39c

\$1.05

\$1.98

92c

\$1.10



Polished Steel Griddle

86C1456 Well made—will last a life time. Diameter, 11 in. Shipping wt., about 1 1/4 lbs. Price.....39c

Cast Iron Skillets

86C1433—Extra quality. Polished inside. Shipping weights, 4 1/2 to 6 1/2 lbs.

Size No.	Diam. Inches	Price Each
8	10 1/4	\$1.05
9	11 1/4	1.14
11	12 1/2	1.98

Cast Iron Balled Griddles

86C1452—Smoothly polished top. Unexcelled for pancakes, griddle cakes, steaks, chops, etc.

Diam. Sh. Wt.	Price
14 in. 7 lbs.	\$1.98
16 in. 9 lbs.	2.42

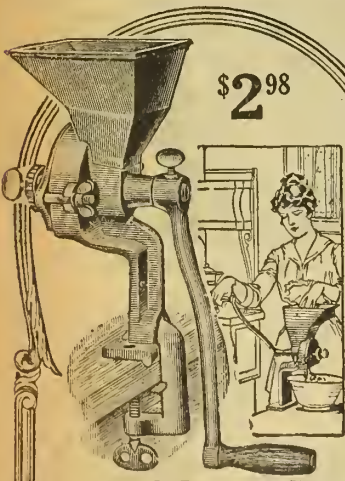
Cast Iron Griddle

86C1435—Smoothly polished. Cast handle.

Size No.	Di. In.	Ship. Wt. Lbs.	Price
8	9 1/2	3	\$0.92
9	10 1/2	4	1.10
10	11 1/2	5	1.38

Makes Delicious Crisp Corn Bread Sticks

Heavy cast iron. Size, 13 1/2 x 7 1/2 in. Has 11 compartments for those crisp delicious corn bread sticks which are becoming so popular. Ship. wt., 5 lbs. Price.....\$1.10



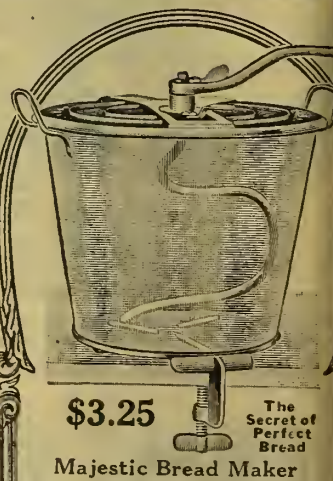
\$2.98

Hand Grist Mill

Home-ground flour is more economical, more healthful and more appetizing than ordinary flour.

Entire flour properties are retained and at less cost than patented flour. The outer and coarser parts of the grain kernels contain minerals and other substances which are valuable to growth and well-keeping of the body.

The flavor of breads made from freshly ground grain is vastly better than that made from the "processed" flours of commerce. Our hand Grist Mill produces perfect flour from all small grains. Grinds coarse or fine. Excellent for preparing chicken feed. The patented features prevent clogging. Cast iron, enameled in gray. Clamps or screws to table. Size of hopper, 5 1/2 in. Diam. of burr, 3 1/4 in. 186C1966—Ship. wt., 15 lbs. Price.....\$2.98



\$3.25

Majestic Bread Maker

An easier, quicker and cleaner way of preparing perfect bread. Two to ten loaves are thoroughly kneaded in about 3 minutes' time.

It is usually the lack of thorough kneading that spoils bread—it is full of unbroken starch cells and, therefore, indigestible. The Majestic mixes and kneads the dough with scientific accuracy, thoroughly and evenly, so that the bread is free from unbroken starch cells, firm, light and easily digestible. It works successfully with any kind of flour that is ordinarily used for making bread.

Well made of heavy charcoal tin, nicely polished. Mixer or kneader and handle are made of steel. 186C1529—10-qt. size. Cap., 2 to 6 loaves. Ship. wt., abt. 9 lbs. Price.....\$3.25

186C1530—16-qt. size. Cap., 4 to 10 loaves. Ship. wt., about 13 lbs. Price.....\$3.95

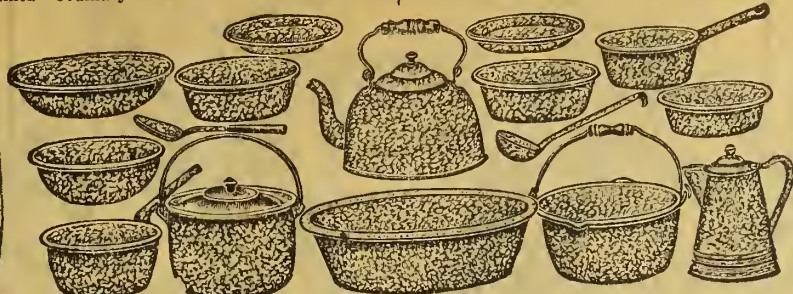
DURO DOUBLE COATED Enameled Ware

The unusual sturdiness of Duro Ware is due to the fact that it has two distinct coats of gray enamel. Ordinary ware has but one coat.

Duro ware will stand long and hard service. It is easily washed and has no seams or crevices to collect dirt and grease. Sizes given, average.

Duro Maslin or Strainer Kettles 86C618

Capacity	Shp. Wt.	Price
5 qts. 3 lbs.		\$0.79
6 qts. 3 1/2 lbs.		.89
7 qts. 3 3/4 lbs.		1.05
9 1/2 qts. 4 1/2 lbs.		1.32



70c Duro Convex Kettles 86C616

Cap.	Shp. wt.	Price
4 qts.	2 1/2 lbs.	\$0.70
5 1/2 qts.	3 1/4 lbs.	.89
8 qts.	3 3/4 lbs.	1.10
9 1/2 qts.	4 1/2 lbs.	1.32

16-Piece Duro Enameled Ware Assortment

A splendid assortment of cooking utensils that will take care of the average family's requirements. The capacities of the vessels are most generous. For No. 8 stove. Set consists of: Tea Kettle, 4 1/2 quarts; Coffee Pot, 2 quarts; Convex Kettle, 5 1/2 quarts; Preserving Kettle, 4 1/2 quarts; Pie Plates, 9 inches; Baking Pan, 1 1/4 quarts; Soup Ladle; Wash Bowl, 12 1/2 inches; Pudding Pan, 4 quarts; Pudding Pan, 2 1/2 quarts; and Basting Spoon. Ship. wt., about 40 lbs.

186C652—Complete set.....\$7.35

\$1.19



Duro Coffee Boiler 86C614

Cap. Qts.	Shp. Wt. Lbs.	Price
5	3 1/2	\$1.19
5 1/2	4	1.35
9	4 1/2	

\$1.19 Duro Tea Kettles 86C615

Size No. 7. Holds 1/2 qts. Ship. wt., about 4 lbs.

Price.....\$1.19

Size No. 8. Holds 1 qts. Ship. wt., about 4 1/2 lbs.

Price.....\$1.39

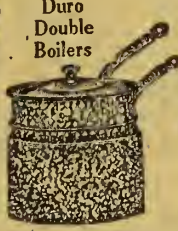
Size No. 9. Holds 1 1/2 qts. Ship. wt., about 5 1/2 lbs.

Price.....\$1.69



Duro Water Pails 86C647

Cap. Qts.	Shp. Wt. Lbs.	Price Each
9 1/2	4	\$1.13
11 1/2	4 1/2	1.39
13 1/2	4 3/4	1.55



Duro Double Boilers

86C611

Shp. wts., 3	Price Each
3 1/2 and 4 1/2 lbs.	
1 1/2	\$1.15
2 1/2	1.45
3 1/2	1.75

8-Piece Duro Enameled Ware Set



\$3.45

This assortment contains eight articles which are used practically every day in the average kitchen. Note these sizes: Dish Pan, 10 quarts; Preserving Kettle, 4 1/2 quarts; Convex Sauce Pot, 5 1/2 quarts; 2 Pie Plates, 9 inches; 1 Basting Spoon, 12 inches; 1 Pudding Pan, 1 1/4 quarts; and 1 Sauce Pan, 1 1/4 quarts. These are all actual capacities. Ship. wt., 12 lbs

186C651—Price.....\$3.45

73c



Duro Tea Pots 86C612

Cap. Qts.	Shp. wt. Pounds	Price
1	2 1/2	59c
2	2 1/2	73c
3 1/2	2 1/2	78c



Duro Coffee Pots 86C613

Cap. Qts.	Shp. wt. lbs.	Price
2	2 1/2	73c
3 1/2	2 1/2	87c

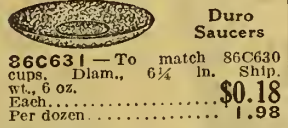


\$2.39 7-Piece Duro Enameled Ware Set



Another splendid assortment of Duro double-coated enameled ware. Each piece is made seamless, and has the same wearing qualities that all of our enameled ware is noted for. Contains the following pieces: 4 1/2 quart Preserving Kettle; 2 1/4 quart Milk Pan; 8 1/2 inches Mixing Bowl; 1 1/2 quart Wash Basin; Drinking Cup and 2 Pie Plates. Ship. wt., about 12 lbs.

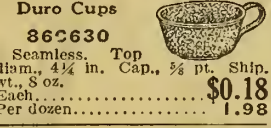
186C678—Price of set, only.....\$2.39



Duro Saucers 86C630

To match 86C630 cups. Diam., 6 1/2 in. Ship. wt., 6 oz.

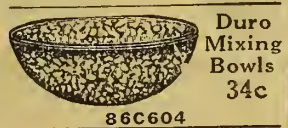
Each.....\$0.18
Per dozen.....1.98



Duro Cups 86C630

Seamless. Top diam., 4 1/2 in. Cap., 1/2 pt. Ship. wt., 8 oz.

Each.....\$0.18
Per dozen.....1.98



Duro Mixing Bowls 86C604

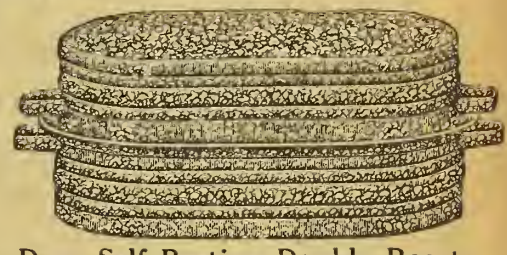
Diam. In.	Shp. Wt. Lbs.	Price
7 1/2	1	34c
8 1/2	1 1/2	43c
10 1/2	2	55c



63c Duro Seamless Baking Pans 86C634

Size	Shp. Wt.	Price
10 1/2 x 15 in.	2 1/2 lbs.	89c
8 1/2 x 12 in.	2 lbs.	63c

\$2.89



Duro Self-Basting Double Roaster

Made seamless of heavy sheet steel, covered inside and out with two coats of Duro Enamel. Cover fits snugly, preventing shrinkage of meat. Continuously self-basting. Will take large roast or fowl. Cover and body can be used individually.

186C628—Size (over handles), 16 1/2 x 10 x 7 in. Ship. wt., 5 lbs. Price.....\$2.89

186C633—Size (over handles), 19 1/2 x 12 x 8 in. Ship. wt., 6 1/2 lbs. Price.....3.28



95c Duro Handled Dish Pans 86C629

Capacity	Shp. Wt. About	Price
9 1/2 qts.	4 lbs.	\$0.95
11 qts.	4 1/2 lbs.	1.10
14 1/2 qts.	5 lbs.	1.29
19 qts.	5 1/2 lbs.	1.49

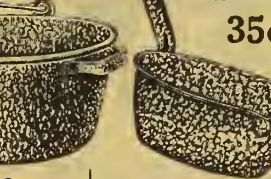
26c Duro Pudding Pans, 86C605

Cap. Qts.	Shp. Wt. Lbs.	Price Each
1	1 1/4	26c
1 1/2	1 1/2	32c
2	2	42c
2 1/2	2 1/2	48c

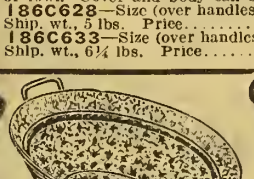
Duro Covered Sauce Pans 53c



Duro Preserving Kettles 58c



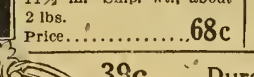
Duro Lipped Sauce Pans 35c



39c Duro Wash Basins 86C650—Made Seamless.

Diam. In.	Cap. Qts.	Shp. Wt. Lbs.	Price Each
11 1/2	2 1/2	1 1/2	39c
12 1/2	3 1/4	2	48c
13 1/2	5 1/2	2 1/2	60c

Duro Colanders 86C624—Diam. at top, 11 1/2 in. Ship. wt., about 2 lbs. Price.....68c

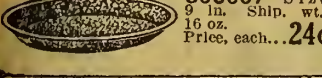


39c Duro Baking (Milk) Pans 86C606

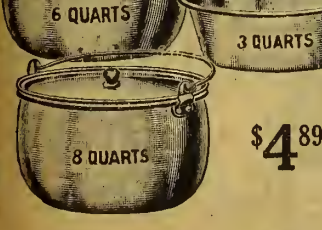
Cap. Qts.	Shp. Wt. Lbs.	Price each
2 1/4	1 1/4	39c
4	2	53c

FOUR SPECIALS!

24c EACH Duro Pie Plates 86C607—Size 9 in. Ship. wt., 16 oz. Price, each.....24c



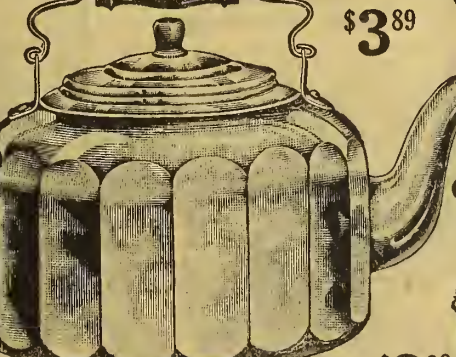
Set of Royal Aluminum 6 QUARTS 3 QUARTS 8 QUARTS \$4.89



Windsor Gray Enamel Water Set \$1.98

A useful set of most dependable gray enameled ware. Consists of an 11-qt. Pail, 12 1/2-in. Basin and 1-pt. Dipper. Ship. wt. 4 1/2 lbs.

186C670—Price, complete set.....\$1.98



Aluminum Tea Kettle \$3.89

This pretty panel design tea kettle, besides being useful, is an ornament in any kitchen. Made seamless of pure silvery bright aluminum. Ebonized handle and knob. Ship. wt., 3 lbs. For No. 8 stove.

Only One to a Customer 186C1165—One to a customer at.....\$3.89

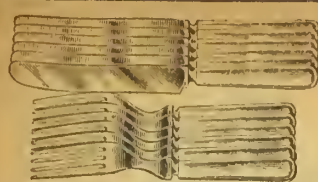


8-Piece Turquoise Blue Ware Set \$3.98

This set contains eight utensils that find almost daily use in the kitchen and are offering it at a price that means a great saving to you. Sizes are as follows: Convex Kettle, 5 1/2 quarts; Preserving Kettle, 5 1/2 quarts; Sauce Pan, 2 quarts; Pudding Pan, 1 1/4 quarts; Soup Ladle, Basting Spoon, 12 inches and 2 Pie Plates, 9 inches. Ship. wt., about 18 lbs.

186C770—Price.....\$3.98

Cutlery for Your Table



Six
Steak
Knives
and
Forks

\$3.35

These knives and forks are handsomely finished and heavily nickel-plated. The steak knives are made of high grade carbon steel and will keep a keen edge indefinitely. Ship. wt., about 2 1/2 lbs.

36C8167—Price, six knives and six forks. \$3.35

Six
Knives
and
Forks

\$1.89

A handsome set of six knives and six forks. They are strongly made of the best steel and will give long service. Heavily nickel-plated to produce a high lustre and good appearance. Ship. wt., about 1 1/2 lbs.

36C8168—Price, six knives and six forks. \$1.89

White Bone Handles

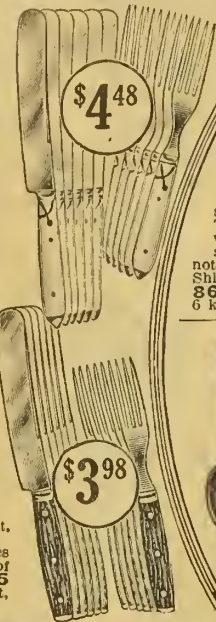
White bone handle knives and forks. Best quality curved pattern steel blades, and four prong steel forks.

36C8100—Per set of 6 knives and 6 forks. Price, \$4.48. Shipping weight, 2 1/2 pounds.

36C8102—Knives only. Price, per set of six, \$2.45. Shipping weight, 1 1/2 lbs.

36C8118—Per set of 6 knives and 6 forks. Price, \$3.98. Shipping weight, 2 1/2 pounds.

36C8120—Knives only. Price, per set of 6, \$2.15. Shipping weight, 1 1/2 pounds.



\$4.48

\$3.98

Imitation Stag Handles

Imitation of stag horn handles. They are strongly riveted and doubly bolstered to tans of blades. Best quality steel blades and tines.

36C8118—Per set of 6 knives and 6 forks. Price, \$3.98. Shipping weight, 2 1/2 pounds.

36C8120—Knives only. Price, per set of 6, \$2.15. Shipping weight, 1 1/2 pounds.



\$3.98

\$3.75

Six Knives and Six Forks

Highest Quality of Steel

The steel used in the manufacture of this set is of the very highest grade. The knives come in full swaged and curved pattern blades. They hold their edges remarkably well. The forks are well made of steel with a wide shank that will not give. Handles are of fine cocobolo. Ship. wt., 2 lbs.

36C8143—Price, per set of 6 knives and 6 forks. \$3.75



12 for \$1.89

Royal Aluminum Tea and Tablespoons

Shipping weight, 3 and 5 ounces per dozen.

36C1146—Teaspoons. Per dozen \$1.89

36C1147—Tablespoons. Per doz. \$2.25



Basting Spoons of Heavy Tinned Forged Steel

Length, 10 in. Ship. wt., 4 ounces. Price, 13c
Length, 11 1/4 in. Ship. wt., 5 ounces. Price, 16c
Length, 15 1/2 in. Ship. wt., 7 ounces. Price, 22c

\$8.45

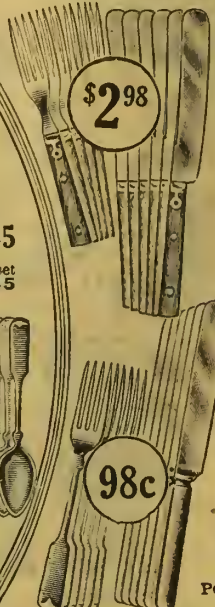
Six Knives and Six Forks

White Celluloid Handles

Handles never crack. Only the very best steel is used in the blades and tines. More desirable than plated knives, because they can be sharpened.

36C8154—Per Set of 6 Knives and 6 Forks. \$8.45

Ship. wt., 1 1/2 pounds. 36C8156—Knives only. Per set of 6, \$4.45. Shipping weight, 1 1/2 pounds.



\$2.98

98c

Cocoa Handles

Single bone handle and fork. Steel curved blades and forks. A good vegetable, low set.

36C8123—6 knives and 6 forks. Price, \$2.15. Shipping weight, 1 1/2 lbs.

36C8125—Knives only. Per set of 6, \$1.89. Shipping weight, 1 1/2 lbs.

Retinned Knives and Forks

Heavily solid iron knives and forks. Have the appearance of silver-plated goods, and will give long service. Suitable for use as they do not need scouring.

36C8110—Per set of 6 knives and 6 forks. Price, \$2.15. Shipping weight, 1 1/2 lbs.

Per dozen sets. \$1.89

Cork Screw 36C2356—Beech wood handle. Nickel finish. Will draw any size cork, cut the wires or remove the crowns, seals and patent stoppers. No pulling—twists cork out. Ship. wt., 8 oz. Price, 48c.

Noodle Cutter 36C1792—Roll dough thin and push cutter over it. Has 9 steel blades. Length, 5 1/2 in. Ship. wt., 4 oz. Each, 35c.

Steel Corn Popper 36C1854—Cover operated by thumb at end of handle. Prevents burning of fingers. Size, 7 1/2 x 9 1/2 x 2 1/4 in. Ship. wt., 2 lbs. Each, 38c.

\$1.98

\$1.45

\$2.45

Single Ring Pattern. Scimitar shape blades. The price is extremely low considering the quality of steel used. The six forks are of polished steel in the three tine pattern. Cocobolo handles. Ship. wt., 2 1/2 lbs.

36C8129—Set of 6 knives and 6 forks. \$1.98

This low-priced set is ideal for camps, etc., where quality is not of first importance. Has plain cocobolo handles. No bolster. Scimitar blades. Three tine forks. Shipping weight, 2 1/2 lbs.

36C8130—Set of 6 knives and 6 forks. Price, \$1.45

Single Cross Double Bolstered Knife and Fork Set. Neatly finished cocobolo handles. The six knives have swaged scimitar shape blades. The six forks are of polished steel, four tine pattern. Will give very satisfactory service. Ship. wt., 2 1/2 lbs.

36C8128—Price, per set, \$2.45

Mincing Knife 36C1884—Steel Blade. Four Angles. Knife, 8 oz. Price, 19c. Six Angles Knife, 12 oz. Price, 24c. 6 Angles

Slicing Board 36C1880—For carving meats, bread, etc. Hardwood 7x16 in. Ship. wt., 2 lbs. Price, only 45c.

Chopping Bowls 36C1885—Hard maple, wax finished. Will not split easily.

Diameter Inches	Shp. Wt. About Lbs.	Price
11 1/2	2	\$0.52
14	3	1.98
16 1/2	4	1.75

Coffee Mills



Crystal Wall Coffee Mill 186C2142—Easily attached to wall or door. Glass hopper has air-tight screw cover, which retains coffee's strength. Holds 1 pound. Tumbler held in place by a spring. Strong enameled iron frame and crank. Grinds coarse, medium and fine. Height, 16 1/2 in. Ship. wt., 8 lbs. Price, \$1.42.

Imperial Coffee Mill 36C2140—Mill with steel alloy grinders, sunk hopper and hand grip. Wood case. A fast and easy grinder. Ship. wt., 4 lbs. Price, 95c.

The Arcade Canister Mill 36C2141—Holds 1 lb. of coffee. Wood case. Side grip. Steel alloy grinders. Ship. wt., 4 1/2 lbs. Price, 98c.

Fruit Press and Potato Ricer 36C1964—Extra heavy. Unexcelled for results. Removable, seamless, retinned steel cup. Diameter of cup, 3 inches. Height, 3 inches. Black japanned frame. Easily cleaned. Shipping weight, 2 lbs. Price, 49c.

Butter Churn

In these days of high butter prices, this churn will prove to be of great value to you in housekeeping. It makes two pounds of delicious milk-charged butter out of one, by adding pint of milk and churning the mixture for about three minutes. The churn is well made with aluminum dasher. The gears mesh easily and smoothly. The jar is made of extra heavy glass. Very sanitary and easily kept clean. Furnished in four sizes.

Has Aluminum Dasher and High-Speed Gear Attachment

Article No.	Cap. Qts.	Shp. Wt. Lbs.	Price Each
186C1690	1	6	\$1.32
186C1692	3	7	1.48
186C1693	4	8	2.15

Genuine Griswold American Waffle Iron

Just the iron you want to make those delicious crisp waffles. The base plate has a deep rim to catch all overflow. Extra heavy iron cast with even thickness, insuring evenly made waffles. A ball joint enables you to turn the iron without lifting it from the frame. Handles are always cool.

186C1453—Size No. 8. Ship. wt., about 11 lbs. Price, \$1.89

186C1454—Size No. 9. Ship. wt., about 13 lbs. Price, \$2.10



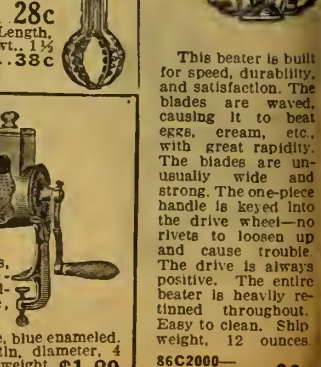
Mixers and Egg Beaters

Speedy Whip Complete with Bowl 186C1860—Whips cream or eggs in one minute. Nickel-plated. Length, 10 in. Complete with 1-qt. earthenware mixing bowl, counter-sunk to hold whip in place. Ship. wt., 2 1/2 lbs. Price, 89c.

Improved Holt Egg Beater 36C1858—Family size. Length, 10 in. Ship. wt., 1 1/2 lbs. Price, 28c. Hotel size. Length, 12 1/2 in. Ship. wt., 1 1/2 lbs. Each, 38c.

Food Grater 36C1961—Grates very fine without strings. Will not clog. Unexcelled for grating potatoes, cocoanut, pine-apple, horse-radish, chocolate, cheese, etc. Cast iron frame, blue enameled. Drum made of tin, diameter, 4 inches. Shipping weight, 4 1/2 lbs. Price, only \$1.89.

32c



This beater is built for speed, durability and satisfaction. The blades are waved, causing it to beat eggs, cream, etc., with great rapidity. The blades are unusually wide and strong. The one-piece handle is keyed into the drive wheel—no rivets to loosen up and cause trouble. The drive is always positive. The entire beater is heavily retinned throughout. Easy to clean. Shipping weight, 12 ounces. Price, 32c.

Dexter Cutlery

Kitchen cutlery so constantly used where means of resharpening are usually absent, demands the best of steel. Dexter cutlery is for that reason especially desirable for use in the kitchen. It keeps its sharp edge for a surprisingly long period of time. Approved by the Good Housekeeping Institute.

General Utility Set **85c**

Specially designed knife and fork. For carving meats and general use about the kitchen where utility of high quality is required. Very handy and practical. Knife has 4 1/2-in. blade. Fork measures 7 over all. Shipping weight, about 1/2 lb. **85c**
6C2615—Price of set.

Mixing Knife or Spatula

This is one of the handiest items we know of for kitchen use. Fine for mixing cake batter, turning pan cakes, eggs, etc. Should be in every kitchen. 6-inch blade, 2 1/2 inches in width. Shipping weight, 8 oz.
86C2614—Price.....98c

79c

86C2602—Genuine Dexter French Cook Pattern Knife, 8-inch blade, oval rosewood handle, securely fastened. Nickel-plated ferrule. Handle designed to fit the hand. Shipping weight, 7 oz. Price.....**79c**

Dexter Handles FIT THE HAND

79c

79c

86C2606—Genuine Dexter Bread Knife, 8-in. stiff blade, oval hardwood handle, securely fastened. A knife we cannot recommend too strongly. Ship. wt., 9 oz. Price.....**79c**

Set 75c

Dexter Kitchen Carving Set **63c**

86C2609—A very low-priced but high-grade set. 7 1/2-inch carver and 9 1/2-inch fork. Shipping weight, 1/4 lb. Price. Set. **75c**

86C2608—Genuine Dexter Spatula or Mixing Knife. Very flexible blade; length, 6 inches. Oval enameled handle. Splendid for mixing dough. A real kitchen necessity. Shipping weight, 4 oz. Price.....**63c**

79c

86C2601—Genuine Dexter Carving Knife, 9-inch swaged blade, wide pattern, oval hardwood handle, securely riveted on. Nickel-plated ferrule. Shipping weight, 7 oz. Price.....**79c**

Paring Knife **86C2625**—Paring Knife, 3-in. blade. Black enameled sure-grip handle. Shipping weight, 4 ounces. Price.....**24c**

Domestic Science Set **\$2.98**

Contains spatula with 6-in. blade, 2 paring knives with blades measuring 2 and 3 in., one carving knife with 8-in. blade, one slicer with 6-in. blade, one kitchen fork measuring 10 in. over all, which, when used with carving knife, makes an ideal carving set. Ship. wt., about 3 lbs.
36C2616—Price, Entire \$2.98

Dexter Carving Set **\$1.19**

86C2610—A practical high grade, carving set for every day family use. Oval black enameled sure grip handles. Carver with 8-inch blade, 10-inch fork with guard and rest. Packed in an attractively lined box. Would make a useful and moderately priced gift. Shipping weight, 1 1/2 pounds
 A genuine bargain at our price. **\$1.19**

Paring Knife **86C2624**—Paring Knife. Black enameled sure-grip handle. Hand-honed blade. Length, 3 in. Ship. wt., 4 oz. Price.**24c**

3-inch Blade

24c

86C2607—Bread Knife. Has good grade 8-inch blade and oval enameled handle. You will find this knife an exceptionally good value at our low price. Shipping weight, 6 ounces. Price.....**24c**

69c

86C2086—Lakeside Bread and Meat Slicer. Has 9 1/2-in. best steel blade. Finely finished Black Walnut handle, strongly riveted to tang of blade with heavy brass rivets. Ship. wt. 6 oz. Price.....**69c**

48c

86C2004—Butcher's Hand Forged Skinning Knife. Finest grade cocobolo wood handle. Blade is 6 inches long, tough-tempered and keen-edged. Every blade will give entire satisfaction. Shipping weight, 12 ounces. Price.....**75c**

Lakeside Cutlery

TRADE MARK

Where there is work of unusual proportions, as in butcher shops, etc., the Lakeside cutlery fits in admirably. Especially tempered for heavy work, sticking and skinning. Blades are wrought by hand from solid bars of high grade crucible steel, single-tempered.

79c

86C2021—Lakeside Skinning Knife. Has exceptionally well made beech handle, strongly riveted to tang of blade with brass rivets. 6-inch blade is wrought by hand from a solid bar of crucible steel, single tempered. Knifepulling weight, 10 oz. Price.....**58c**

49c

86C2023—Lakeside Bonding Knives. Have Beech handles. Good grade blades. Shipping weight, each 10 ounces. Price.....**48c**

48c

86C2012—6-inch Blade. Price.....**48c**

86C2014—7-inch Blade. Price.....**62c**

24c

86C2607—Bread Knife. Has good grade 8-inch blade and oval enameled handle. You will find this knife an exceptionally good value at our low price. Shipping weight, 6 ounces. Price.....**24c**

69c

86C2086—Lakeside Bread and Meat Slicer. Has 9 1/2-in. best steel blade. Finely finished Black Walnut handle, strongly riveted to tang of blade with heavy brass rivets. Ship. wt. 6 oz. Price.....**69c**

48c

86C2004—Butcher's Hand Forged Skinning Knife. Finest grade cocobolo wood handle. Blade is 6 inches long, tough-tempered and keen-edged. Every blade will give entire satisfaction. Shipping weight, 12 ounces. Price.....**75c**

Butcher Knives **\$0.65**

86C2015—6-inch. Each.....**0.65**
86C2016—7-inch. Each.....**.85**
86C2017—8-inch. Each.....**1.05**

Steak Knives

86C2018—10-inch. Each.....**1.48**
86C2019—12-inch. Each.....**1.98**

79c

86C2024—6-inch blade. Each.....**79c**

98c

86C2025—7-inch blade. Each.....**98c**

\$1.19

86C2026—8-inch blade. Each.....**\$1.19**

Ship. wts., 6-in., 10 oz.; 7-in., 12 oz.; 8-in., 15 oz.

49c

86C2023—Lakeside Bonding Knives. Have Beech handles. Good grade blades. Shipping weight, each 10 ounces. Price.....**48c**

62c

86C2014—7-inch Blade. Price.....**62c**

Paring Knife Set

86C2629—Three high-grade knives. All have 3-inch blades, ground sharp for immediate use. Flattened ebony handles. Shipping weight, 6 ounces. Price. Per set of Three.....**39c**

15c

86C2620—A low-priced, popular paring knife. Plain beech handle, crucible steel blade, length, 3 in. Ship. wt., 3 oz. Price.....**15c**

55c

86C2071—Paring Knife with black rubber handle. Very best forged steel blade, length, 3 1/2 inches. Shipping weight, 4 ounces. Price.....**55c**

23c

86C2075—Hawkbill Paring Knife. Cocobolo handle. 6 1/2-in. flexible keen-edged blade. Ship. wt., 4 ounces. Price.....**23c**

Kitchen Fork **48c**

86C2023—Lakeside Bonding Knives. Have Beech handles. Good grade blades. Shipping weight, each 10 ounces. Price.....**48c**

9c

Flesh Fork **86C1819**—Heavy wire, with wood handle. Length, 14 1/2 in. Shipping weight, 6 oz. Each.....**9c**

48c

Cocobolo Handle Kitchen Forks **86C2088**—Handled Kitchen Fork. Genuine cocobolo handle with large brass rivets. Finely tempered steel tines. A real necessity in every kitchen. Size, 12 1/2 inches. Shipping weight, 8 ounces. Price.....**48c**

5c

86C2053—An 11 cleaver for school use. Heavy 1 blade, 6 1/2 inch long, ground sharp securely riveted a conveniently hard wood handle. Shipping weight, 1 1/2 pounds. Price.....**65c**

Lakeside Butcher Cleavers

86C2051—Solid Steel Market Cleavers. Have hardwood handles. High-grade steel, unexcelled for durability and uniform temper. Give size.

Length Inches	Ship. Wt. Pounds	Price Each
7	1 1/2	\$2.75
8	4 1/2	2.95
9	4 1/2	3.25
10	5 1/2	3.65

Butcher Saw Blades

Butchers' Saw Blades

86C2043—Finest quality of spring steel, tempered and polished. Filed and set ready for use. 1/2 in. wide, with 11 teeth to the inch. They can be refilled, but considering the low price, it is hardly profitable. Ship. wts. 1 to 2 1/2 lbs. per dozen. Give size.

Length	Doz.	Each
18 in.	\$1.98	19c
20 in.	2.48	22c
22 in.	2.60	24c
24 in.	2.80	26c
26 in.	2.98	28c

86C2040—Goodell-Pratt Butcher Saw. Frame of flat polished steel with hardwood handle. Correct in shape and weight and has the proper hang or balance. Complete with blade. (Give size.)

Blade Length In.	Ship. Wt. Lbs.	Price Each
14	3	\$2.50
20	3 1/2	3.00
24	4	3.25

86C2041—Butcher Saw. Flat polished steel back, beechwood handle. 3/4-in. steel blade (hand filed, ready for use). Depth of frame, 5 1/2 in.

Lath Blade In.	Ship. Wt. Lbs.	Price
20	3 1/2	\$1.48
22	3 3/4	1.65
24	4	1.75

86C2056—Tinned. For 2-in. bars. Made of 3/16-in. square iron. Ship. wt., per doz., 4 1/2 lbs. Price, per dozen. **\$1.65**

86C2057—Tinned. Same shape as Mutton Hooks. Very heavy. For 2-in. bar. Made of 3/16-in. square iron. Ship. wt., per dozen, 4 1/2 lbs. Price, per dozen. **\$2.39**

Heavy Hog Scraper

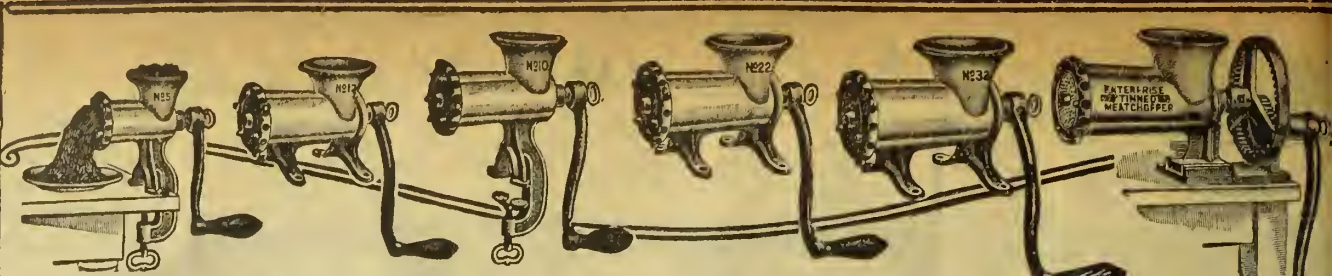
Made of stamped steel with ground edges. Wood handle securely bolted on. Shipping weight, 1/2 lb. **86C2062**—Price.....**18c**

Enterprise Food Choppers

The well-known Enterprise Meat and Food Choppers do not pull the meat to pieces nor squeeze out the rich, nourishing juices—the knife revolves against the inner surface of the plate and its keen edges cut like shears.

Made of cast iron, heavily retinned—will not rust. Easily cleaned and sanitary.

All parts can be renewed at a small cost.



86C1924 — Enterprise Meat Cutter No. 5. Cast iron, heavily retinned. Family size. Chops 1½ lbs. meat a minute. One steel plate with ¾ in. holes. Ship. wt., 6 lbs. Each **\$4.00**

86C1925 — Enterprise Meat Cutter No. 12. Cast iron, retinned. This chopper is exactly like the size 10 only it has legs. Instead of clamps and is to be screwed to the table. Ship. wt., about 10 lbs. Each **\$5.80**

86C1926 — Enterprise Meat Cutter No. 10. Very popular size. Chops 3 lbs. meat a minute. Cast iron, heavily retinned. Plate has standard ¾-in. holes. Ship. wt., about 10 lbs. Each **\$6.23**

186C1927 — Enterprise Meat Cutter No. 22. For butchers, farmers, hotels, etc. Chops 4 lbs. of meat a minute. Cast iron, retinned. Plate has standard ¾-in. holes. Ship. wt., 18 lbs. Each **\$9.80**

186C1928 — Enterprise Meat Cutter No. 32. For butchers, restaurants, etc. Chops 5 lbs. meat a minute. Plate has standard ¾-in. holes. Ship. wt., 29 lbs. Each **\$12.46**

186C1932 — Enterprise Meat Cutter No. 42. Same size as No. 32. Equipped with gears and ball for easy turning. Chops 4 lbs. minute. Ship. 34 lbs. Each **\$16.**

Extra Cutters and Stuffers for Enterprise Choppers

	Shipping weights, each, 2 to 10 oz.				
	5	10	12	22	32
For chopper No.					
86C1934 —Knives.	\$0.50	\$0.60	\$0.60	\$0.80	\$1.10
86C1935 —Plates, ¾-in. holes. . . . .	.60	1.10	1.10	1.35	2.20
86C1936 —Plates, ¾-in. holes. . . . .	.60	1.10	1.10	1.35	2.20
86C1937 —Stuffing Attachment, ¼-in. tube.	1.04	1.26	1.26	1.41	1.63
86C1938 —Stuffing Attachment, 1¼-in. tube.	1.30	1.49	1.49	1.63	1.85

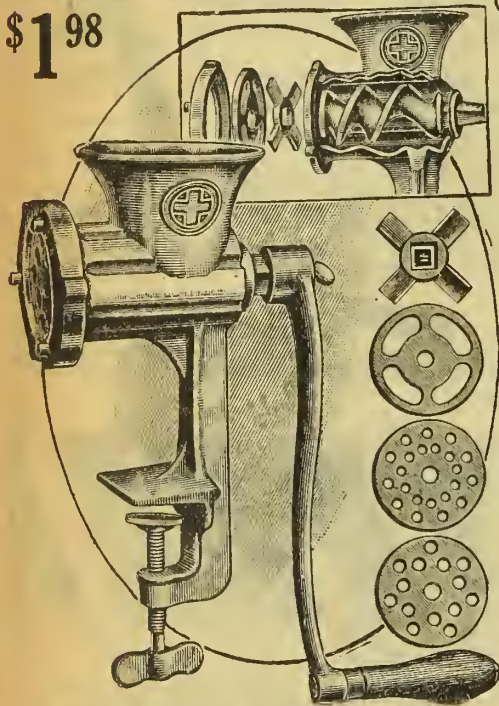
Enterprise Chopper

\$2.90 **86C1922**—Enterprise Chopper No. 602. Cast iron, tinned. Complete with three assorted knives and nut butter cutter. Chops 2½ lbs. meat a minute. Ship. wt., 6 lbs. Each **\$2.90**

86C1923 — Stuffing Attachment for above. Ship. wt., 8 oz. Each **9c**

186C1933—No. 432. Same size as No. 422. Equipped with gears. Ship. 45 lbs. Each **\$19.**

\$1.98



Windsor Food Choppers

Comes Complete with Three Steel Plates; Coarse, Medium and Fine, and Self-Sharpening Steel Knife.

A Food Chopper, besides being economical, takes away the monotony of cooking, as you can try something new every day—those delicious croquettes and meat loaves, seasoned just to the family's taste; tempting salads of left-over meats and vegetables—the entire family will appreciate the change and no one will ever guess that you are making use of left-overs or the cheaper cuts of meat. That eternally annoying question "What shall we eat?" will be entirely forgotten in your home.

186C1901—Small Family Size. Chops up to 2½ lbs. of meat per minute. Size of hopper opening 2¼x3¼ in.; length of barrel, 3 in. Complete with self-sharpening knife and 3 steel plates, coarse, medium and fine. Shipping weight, about 5 lbs. Price **\$1.98**

186C1903—Large Family Size. Chops up to 3 pounds of meat per minute. Size of hopper opening, 2¾x3¾ in.; length of barrel, 3½ in. Complete with self-sharpening knife and three steel plates, coarse, medium and fine. Shipping weight, about 5½ lbs. Price **\$2.48**

186C1911—Extra Large Size. Chops up to 4 pounds of meat per minute. Size of hopper opening, 3¾x4¾ in. length of barrel, 4½ in. Complete with self-sharpening knife, and 3 steel plates, coarse, medium and fine. Shipping weight, about 8 lbs. Price **\$3.75**

Eclipse Food Chopper

Chops meats or vegetables (raw or cooked), fruits, nuts, bread, eggs, fish, etc., and does the work easily without mashing, tearing or grinding. Will chop either fine, medium or coarse. Made of gray iron, heavily tinned to prevent rusting. Has no complicated parts, is self-cleaning and self-sharpening. With reasonable care it will last a lifetime.

86C1916 — Family size. Chops up to 2 lbs. per minute. Diameter of hopper, 3¼ in. Furnished with 4 cutters—one each, for cutting coarse, medium, fine and a nut grinder. Ship. wt., 5½ lbs. Each **\$2.15**

86C1917 — Medium Size. Chops up to 2½ lbs. per minute. Diameter of hopper, 4 in. Four cutters—one each for cutting coarse, medium, fine and a nut grinder. Ship. wt., 6 lbs. Each **\$2.48**

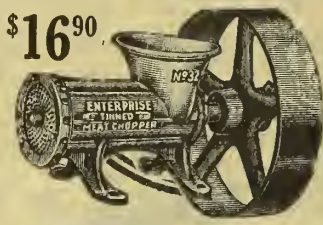


Enterprise Power Food Choppers

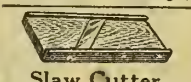
You can turn waste into profit with a power food chopper. They earn their cost many times in quick and effective cutting. Make more money—just attach the belt from your engine to the pulley wheel on this Enterprise Chopper—put in your scrap meats and vegetables and the chopper will do the rest. Cuts the food like a pair of scissors. Saves money and labor.

186C1930—Same size as No. 22 hand power **186C1927**. Fitted with 12x2 in. pulley. Speed of pulley, 350 to 400 revolutions per minute. ½ to ¾ horsepower. Ship. wt., about 40 lbs. Price **\$16.90**

186C1931—Same size as No. 32 hand power **186C1928**, fitted with 12x3 in. pulley. Speed of pulley, 350 to 400 revolutions per minute. ¾ to 1 horsepower. Ship. wt., about 49 lbs. Price **\$20.47**



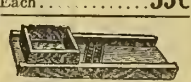
Grater and Slicer
86C1879 — Heavy Tin. Has coarse and fine grater, also two cutters for vegetables and slaw. Size of bottom, 3¼x4¼ inches. Shipping weight, 10 ounces. Price, each **19c**



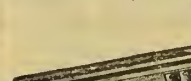
Slaw Cutter
86C2317 — Sugar Maple. Size, about 16¼x6 inches. Adjustable. One 5¼-in. c h steel knife. Shipping weight, 2¼ pounds. Each **42c**



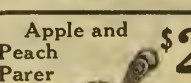
Vegetable Slicer
86C2318 — Sugar Maple. Size, about 17¼x5¼ inches. Adjustable. 4¼-inch knife. Shipping weight, 2 lbs. Each **55c**



Kraut Kutter
86C2320 — Sugar Maple. Size, about 25¼x9 inches. Two 7¼-inch steel knives. Easily removed or adjusted. Shipping weight, 9 pounds. Price, each **\$2.10**



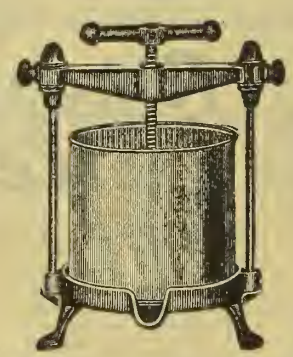
Kraut, Vegetable and Slaw Cutters
Heavy and durable Kraut Cutter. Made of Sugar Maple. Extra quality steel knives.
86C2326—9x24 in. 2 knives. Ship. wt., 15 lbs. Price **\$1.55**
86C2327—11x30 in. 3 knives. Ship. wt., 22 lbs. Price **\$3.45**
186C2321—11x35 in. 3 knives. Ship. wt., 22 lbs. Price **\$5.95**



Apple and Peach Parer **\$2.48**

86C2301 — Rotary Knife Parer. Takes off a very thin paring and saves much time and waste. Cast iron with steel blades. Knife can be adjusted for either hard or soft fruit. Ship. wt., 4 lbs. Each **\$2.48**

Windsor Fruit, Wine, Jelly and Lard Presses



Made extra heavy and strong. All parts subject to strain are made of cast iron. All sanitary metal parts are coated with pure block tin. The cylinders are of extra quality tin. Can be easily and quickly taken apart for thorough cleaning.

186C1955—10-quart size. Ship. wt., about 44 pounds. Price **\$12.75**
186C1954—4 quart size. Ship. wt., about 25 pounds. Price **\$7.25**
186C1953—2-quart size. Shipping weight, about 14 pounds. Price **\$4.58**

Genuine Enterprise Sausage Stuffers, Lard and Fruit Presses

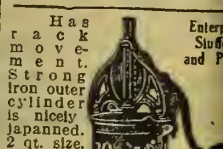


Makes sausage that remains fresh because the patented corrugated spout shuts all air out of casing. Plate cannot jam, as cylinder is bored true to size. An extra plate is furnished with each press. Has screw movement. Strong iron outer cylinder, nicely japanned. Complete with screws for attaching.

186C1945—4-quart size. Shipping weight, 45 pounds. Price **\$13.80**
186C1946—6 quart size. Shipping weight, 57 pounds. Price **\$15.53**
186C1947—8 quart size. Shipping weight, 60 pounds. Price **\$16.91**

Parts for Enterprise Presses

Size No.	Average Ship. Wts., from 1¼ to 3½ lbs.			
	5	25	31	35
86C1948 —Small Plunger Plates	90c	\$1.15	\$2.00	\$2.00
86C1949 —Large Plunger Plates	90c	1.15	2.00	2.00
86C1950 —Perforated Strainer Plates	90c	1.15	2.00	2.00



86C2308—Fresh or canned cherries. One of the best machines made. This stoner built for rapid work. Entire machine is japanned cast iron and cannot rust. Ship. wt., 15 lbs. Each **\$1.6**

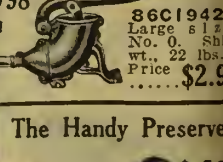


186C1951 — Shipping weight, 20 pounds. Price **\$9.8**

Sausage Stuffers
Well made of japanned iron with tin spout. Complete with screws for attaching to table. Price **\$2.20**



86C1941 — Family Size No. 1. Shipping weight, 1 pounds. Price **\$2.20**



86C1942—Large size No. 0. Ship. wt., 22 lbs. Price **\$2.98**

The Handy Preserver
Four things are necessary for successful canning: Perfectly sound, fresh fruit, cleanliness, air-tight jars and perfect sterilization. The latter is accomplished with the Handy Preserver—it makes easy the sterile preserving of fruits and vegetables in their jars. Made of heavy, bright charcoal tin plate. Holds eight 1-qt. jars. Can also be used for large ham boiler, hotel corn boiler or small wash boiler. Dimensions: Length, 19 in. width, 12½ in.; height, 10 in. Full directions and recipes furnished. **186C2316**—Ship. wt., 9 lbs. Price **\$4.25**

Little Detective Family Scale
Cap., 24 lbs. by ounces. Made of steel throughout. Large, white enameled, flanging dial, 6 in. diam., with gilt border. One row enameled steel top plate. Size, 5 1/2 in. square. By means of thumb screw at top, scale can be instantly adjusted to allow for a basket or pan. Ship. wt., 4 lbs. **186C2101—\$2.45**

Net Weight Scale
Place bowl on scale and turn red pointer back to zero. If bowl be filled, net weight of contents shows instantly. May also be used as a common scale. Made of steel throughout. Weighs up to 24 pounds by ounces. Shipping weight, 5 pounds. Bowl not furnished. **186C2107—\$2.65**

White Tile Top Family Scale
Made of steel, handsomely japanned. Polished brass finished dial and sanitary white tile top plate. Can be instantly adjusted to make proper allowance for a pan or basket. Accurate. Capacity, 24 lbs. by ounces. Ship. wt., 6 lbs. **186C2102—\$2.75**

Blue Beauty Family Scale \$3.48
Capacity, 24 pounds by ounces. Made of best rolled steel, beautifully finished in blue enamel and ornamented. Large white enameled dial, with glass front and nickel plated rim. Distinct numerals, easy to read. Diameter of dial, 6 1/4 inches over all. White tile top platform, 6x6 inches. Shipping weight, boxed, 6 pounds. **186C2108—Price, each..... \$3.48**

Family Scales

All of our spring scales are intended for family use and are accurate for all practical purposes, but are not legal for trade use in all states.

Of Special Interest to the Housewife

Instant Alcohol Stove Outfit
for Sickroom, Nursery, Camper, Motorist, Traveler, etc.
Can be sent by mail

Will light at the scratch of a match. Flame put out by resetting cover. Smokeless, odorless, dangerless and cannot spill. Made of tin. Each set consists of 1 quart saucepan with cover, stand and a can of alcohol. All parts pack snugly into the saucepan. Ship. wt., 1 1/2 lbs.

86C1109—Complete outfit. Can be sent by mail. 48c
Price.....
86C1110—Extra Cans of Alcohol. Shipping weight of 6, 2 pounds. Can be sent by mail. Price of 6 cans.....75c

Cash and Deed Boxes \$1.25

86C1809—Made of tin. Japanned. Complete with lock and key. Ship. wts., 2 1/2 and 3 lbs.

Size, in. about	Price
10 1/2 x 7 3/4 x 3 3/4	\$1.25
12 1/2 x 8 3/4 x 5 1/4	1.48

86C1808—Extra Heavy Cash Box
heavy. Reinforced corners. Complete with lock and key. Ship. wts., 2 1/2 and 3 1/2 lbs.

Size, in. about	Price
10 1/2 x 7 3/4 x 4 3/4	\$2.95
12 1/2 x 8 3/4 x 5 1/4	3.45

Net Weight Dairy Scales \$3.95

Our best grade dairy scale. Two indicator hands. By setting the red pointer back to zero when the empty vessel is weighed, scale instantly shows actual weight of anything put in vessel. Graduated by tenths of a pound up to 60 pounds, and each 20 lbs. is shown on slide. The brass face, size 4 1/2 x 11 1/2 in., has clear black figures. Milk record blanks included.

86C2112—Ship. wt., 3 lbs..... \$7.75

86C2110—Capacity, 40 pounds by tenths of a pound. Ship. wt., 3 1/2 lbs. **\$3.95**

86C2111—Capacity 60 pounds by tenths of a pound. Ship. wt., 4 1/2 lbs. **\$4.45**

Windsor Ice Cream Freezers \$3.40
Not Mailable

86C2148—With new style Repeating Dasher. Tubes are water-proof, made of selected old growth pine, thoroughly kiln-dried, and treated with a paraffine and oil preparation. The cans are made of the highest grade of charcoal tin plate. All the metal parts that come in contact with the cream are covered with pure black tin. Outside metal parts are thoroughly galvanized and will not rust.

Size Quarts	Ship. Weight	Price Each
2	10 lbs.	\$3.40
3	13 lbs.	3.98
4	14 lbs.	4.38
6	21 lbs.	6.45
8	24 lbs.	8.45
10	26 lbs.	10.95
12	36 lbs.	14.95
20	60 lbs.	21.25

Auto Vacuum Freezer \$4.75

Makes ice cream without turning a crank. Endorsed by the Good Housekeeping Institute. Enameled outside. Tinned cream chamber. Sanitary. Ice is put in at one end, cream at the other. Ht. 11 1/4 in.

86C2155—2 quart size. Shipping weight, 8 lbs. **\$4.75**

Standard Ice Tongs \$1.45
Heavy Wrought Steel, Painted

86C2165—Family size. Opens 17 inches. Shipping weight 4 pounds. **\$1.45**

86C2166—Medium size. Shipping weight, 5 pounds. **\$1.69**

86C2167—Wagon size. Opens 24 1/2 inches. Shipping weight, 6 pounds. **\$2.25**

Tooth Picks \$0.28

Sanitary—never touched by human hands. Machine made from selected sugar maple. Round body. Both ends flat pointed. No slivers. Each box contains about 400 picks. Ship. wt., 24 boxes, about 3 lbs.

86C2666	5 boxes.....	\$0.28
86C2667	12 boxes.....	.68
86C2668	24 boxes.....	1.30

Coffee Maker \$10c
Royal Aluminum

Royal Aluminum Jelly Mold \$23c
Seamless. Capacity, 1 pint. Shipping weight, 4 oz. **23c**

Cap., 1 quart. Ship. wt., about 5 oz. **42c**

Wire Tea Strainer \$7c
86C1872—Wire gauze. Enameled wood handle. Ship. wt., 6 oz. Diam. 2 1/2 in. **7c**

Spring Balances \$19c
25-Lb. Capacity
86C2126—Polished brass dial. To weigh 25 pounds by 1/2 pounds. Shipping weight, 6 ounces. **19c**

50-Lb. Capacity \$39c
86C2127—Polished brass dial. To weigh 50 pounds by pounds. Shipping weight, 8 ounces. **39c**

Heavy Spring Balances \$98c
86C2129—Strongly made. Better in many ways than the old style. Make good ice scales.

To Weigh Pounds	Ship. Weight Pounds	Price Each
50x 1/2	1	\$0.98
100x1	1 1/2	2.25
150x1 1/2	2	2.49
210x2	2 1/2	3.49

Ice Cream Disher \$23c
86C2169—Retinned Steel. Turn of button releases cream. Size means dishes to a quart. **23c**

Size 10. Ship. wt., 6 oz. **23c**

Size 6. Ship. wt., 10 oz. **25c**

13c Iceman's Pick
86C2171—Has a very slim, high quality 6-inch steel needle. Same pattern as those used by icemen. Shipping weight, 1/2 pound. **13c**

Royal Aluminum Tea Ball \$10c
Height, 2 1/2 in. diameter, 2 in. Ship. wt., about 4 oz. **10c**

86C1056—**10c**

Scale Beams \$14.95
Complete with two poises. For roughly weighing cotton, grain, etc. do not show fractions of a pound. (Give size).

Art. No.	Cap.	Ship. Wt., About	Price Comp.
86C2132	200	9	\$3.25
86C2134	400	26	6.45
86C2135	600	33	8.65
86C2136	1,000	56	14.95

Bird Cages \$6.45 to \$8.85

Brass Bird Cage \$6.45
86C2183—Brass wire. Brass screen seed guard. Body, 10 1/4 x 7 1/4 in. Ht., 13 1/4 in. Base width 9 3/4 in. Ship. wt., 4 lbs. **\$6.45**

Brass Bird Cage \$8.85
86C2184—Mission pattern. Satin finish brass sliding drawer base. Brass screen seed guard. Body, 10 1/4 x 7 3/4 in. Base, 11 1/4 x 14 in. Ship. wt., 5 lbs. **\$8.85**

Wire Bird Cage Hook \$18c
Extra heavy steel hook, with brass finish. Length, 10 ounces. Shipping weight, 6 ounces. **86C2190—Price.....18c**

Fancy Painted Bird Cage \$2.95
86C2180—Steel wire, painted white with colored trimmings. Body 11x7 1/2 in. Ht. 16 1/2 in. Base 13 1/4 x 10 3/4 in. Ship. wt., 4 lbs. **\$2.95**

86C2188—**25c**

TWINE \$48.55

Wool Twine—New Zealand Flax and Jute

Three-ply. For tying wool bales, etc. Put up in balls, averaging 1 lb. or 235 ft. Ship. wt., 1 1/2 lbs. **45c**

86C2656—Unfinished. Per pound..... **48c**

86C2657—Finished. Per pound..... **48c**

Three-Ply Jute Wrapping Twine \$56c
Unoleed. Strong and Pliable. Especially suitable for market gardeners, for tying up vegetable bunches and wrapping. 700 to 800 ft. per lb. Put up in balls, average weight about 1/2 lb. each. Ship. wt. per lb. about 2 lbs. **56c**

86C2654—Price, per lb. (2 balls)..... **56c**

86C2655—Price, per bale of about 150 lbs. (300 balls). Ship. wt., 175 lbs..... **\$82.55**

Parcel Post Wrapping Twine \$98.50
Made of Hemp. Very strong. Especially desirable for wrapping parcel post packages. Averages about 3/4 lb. to the ball. Cream color. **86C2651**—3 balls. Ship. wt., 2 lbs. **\$1.25**

86C2652—Per 10 lbs. Ship. wt., 12 lbs. **6.65**

86C2653—Per bale, 150 lbs. Ship. wt. 170 lbs. **\$98.50**

Sliding Poise Platform Scale \$18.00

Guaranteed Accurate

Will Pass State Inspection

Not Mailable

86C2122—Extra High Grade, nicely enameled, striped in gold. Pivots are of tool steel, hardened and sharpened, making scale very sensitive. Has double solid brass beam with sliding poise, which is fitted with adjusting screw, insuring accuracy. Cap. of beam, 35 lbs. by 1/2 oz. Cap. of platform, 240 lbs. by 1/2 oz. Lounipped with three weights. Size of platform, 9x12 in. Ship. wt., about 57 lbs. **\$21.00**

86C2123—Same as above, fitted with single brass beam. Ship. wt., about 50 lbs. **\$18.00**

Dish Drainer \$1.19
86C1900—Heavily galvanized iron, patented wire tray for holding plates, etc., and extra space for holding knives, forks and spoons. End has outlet for draining water from pan. Length, 16 in. width, 12 in., ht., 4 in. Ship. wt., 4 1/2 lbs. **\$1.19**

GOOD Ladders and Lanterns

\$2.25

\$2.95

\$1.15

\$2.98

Combination Step-Ladder and Chair
One of the most useful home conveniences. When folded it will do full duty as an extra chair in the kitchen and in a second or two can be converted into a non-tipping ladder, 55 in. high. Solidly built of hardwood, varnished in light color. Height of seat from floor, 17 1/2 in. Size of seat, 16x11 1/2 in. Ship. wt. 15 lbs. **186C2249—Price \$2.95**

Step-Ladder Stool
A convenient and practical device for the home; one that is used many times a day. In the kitchen it fills a long-felt want—you can sit while preparing your meals, washing dishes, etc. It is just the right height for conveniently reaching the highest pantry shelf. Folds flat when not in use. Made of varnished hardwood, with one step. Height, about 21 1/2 in. Ship. wt. about 4 1/2 lbs. **186C2250—Price \$1.15**

High-Grade Long Ladders

Extra Reinforced Step-Ladder Complete with Shelf
For family or painters' use. Made of the best seasoned pine of the proper thickness to be safe and durable, yet convenient to handle. Uprights are mortised at steps. Each step is securely nailed and strongly reinforced by a steel rod passing under it. Ends of steel rods are fitted with washers. Top step is fastened by steel bracket. Bottom step has two steel brackets underneath. Folding steel lock spreader and pall shelf.

Single Section Ladders
One section long ladders for general use. Well-made of selected straight grain uprights and kiln-dried hickory rungs. These ladders are slightly tapered at top.

186C2220—Size, 12 feet. Shipping weight, 30 pounds. \$2.98
186C2221—Size, 16 feet. Shipping weight, 40 pounds. Price 4.20
186C2222—Size, 18 feet. Shipping weight, 45 pounds. Price 4.95

Not Mailable

Article No.	Height Ft.	Ship. wt. lbs.	Price
186C2201	5	13	\$2.25
186C2202	6	15	2.75
186C2203	8	17	3.68
186C2204	10	35	4.65

Windlass Rope Extension Ladders

These extension ladders are equipped with rope, pulley, crank and automatic hooks. Have heavy steel top crossbar with friction roller. Sides are of selected straight grain pine, and rungs of kiln-dried hickory. Very strongly built and will give satisfaction.

Not Mailable.

Art. No.	Size	Section	Ship. Wt.	Price
186C2214	24 ft.	2-12 ft.	60 lbs.	\$ 8.65
186C2215	32 ft.	2-16 ft.	80 lbs.	12.75
186C2216	36 ft.	2-18 ft.	90 lbs.	14.75
186C2217	40 ft.	2-20 ft.	100 lbs.	15.90

Gives More Light Than 20 Oil Lanterns

for Campers **for Farmers**

Gasoline Lantern

Burns 12 Hours on One Filling

\$6.75

Storm Proof

No Danger

Double Mantle Style

The Storm-Proof Gasoline Lantern is known by sportsmen, campers and farmers to be one of the best portable outdoor lamps made. It is efficient, safe, powerful and economical, and will burn anywhere, in any position and in any kind of weather. Makes daylight out of darkness. It is blizzard-proof and bug-proof. No wicks to trim, no globes to clean, no smoke, no soot, no flicker and no danger. It can't spill nor explode and once cleaned a month is all it needs, as the automatic tip cleaner prevents clogging. Easy to light and extinguish. Simple in construction and operation. Burns 12 hours on one filling—1 quart of gasoline.

The single mantle style produces about 240 and the double mantle style about 300 candle-power of bright, steady light.

Lanterns are equipped with mica chimneys, rag mantles, pump and lighter.

Complete instructions for use with each Storm-Proof Lantern.

186C2281—Storm-Proof Lantern. Single Mantle Style. Height, 13 inches. Ship. wt., about 5 lbs. Price.....\$6.75

186C2280—Storm-Proof Lantern. Double Mantle Style. Height, 14 inches. Ship. wt., about 5 lbs. Price.....\$6.95

186C2282—Extra Mantles to fit 186C2280 Lantern. Six for.....52c

186C2283—Extra Mantles to fit 186C2281 Lantern. Six for.....65c

Regular Extension Ladders

Our combination ladders are most practical for general use, on account of having a short or long ladder, as needed to suit the location and work to be done. Can be assembled in a narrow space. The uprights are made from selected straight grain pine. The rungs are kiln-dried hickory. Has malleable iron unbreakable hooks. Each ladder has two sections.

Not Mailable.

Article No.	Length Feet	Section Feet	Ship. wt. Lbs.	Price Each
186C2206	28	16-12	84	\$ 8.95
186C2207	32	18-14	102	11.35
186C2208	34	18-16	112	12.35
186C2209	38	20-18	120	13.45

Ladder Rung Sockets

Gasoline Can

Kerosene Oil Cans

186C2511—Galvanized ed. Capacity, 5 gal. Fitted with galvanized faucet and a d screw top. Ship. wt. about 8 lbs. Each.....\$1.95

186C2512—Same as above, but fitted with spout instead of faucet. Capacity, 5 gal. Ship. wt., about 8 lbs. Each.....\$1.65

186C2513—Galvanized. With spout and screw top. Capacity, 1 gal. Ship. wt., about 1 1/2 lbs. Each.....48c

186C2510—Galvanized. 5 gal. Ship. wt., 7 lbs. Ea. \$1.85

Farm Baskets

Racine Elm Farm Baskets

Patent stave elm baskets. Made with two hoops and secure handles. The 1/2-bushel size has a ball instead of side handles.

Galvanized Iron

186C2343—With side handles. Size, 1 bushel. Shipping weight, 3 pounds. Price, each.....\$1.35

186C2342—With ball instead of side handles. Size, 1/2 bushel. Shipping weight, 3 1/2 pounds. Price, each.....95c

Article No.	Sto. Bu.	Ship. wt. lbs.	Price, 3 Baskets
186C2351	1/2	2	\$1.17
186C2352	1	3 1/2	1.44
186C2353	1 1/2	5	1.77
186C2354	2	7	2.35

Casey Railroad Lantern

Burns Railroad Signal Oil.

186C2266—One of the strongest, best burning and quickest lanterns to regulate and fill. Has a 3/4-in. wick which is raised or lowered by turning the oil pot from outside. Shipping weight, 3 1/2 lbs. Price.....\$1.48

186C2267—Extra Globes. Shipping weight, 1 pound. Each.....14c

\$1.72

Brass Fount Short Globe Oil Lanterns

We recommend this high grade brass fount short globe lantern, as the fount will give long service, and the cold blast principle insures a brilliant light with no waste of oil. The combustion is nearly perfect and the lamp is practically indestructible. The globes are easily cleaned. Extra quality tin plate is used above fount. No. 2 burner, 1-inch wick. Shipping weight, 8 pounds.

186C2251—Price, each, only \$1.72

186C2252—Same with tin plate fount. Price.....\$1.29

186C2253—Extra Globes. Ship. wt., 1 lb. Each.....12c

\$4.48

Junior Cold Blast Driving Lantern

186C2286—Meets the requirements of state and city highway lighting laws. Has bull's eye and 2 1/4-in. rear lens. Corrugated tin reflector. Ht., over all, 12 1/2 in. 3/4-in. wick. Has spring dash clip and heavy steel bracket, with screws. Ship. wt., 9 lbs. Price.....\$1.59

186C2287—Extra Globes. Ship. wt., 1 lb. Each.....15c

Driving Lamps Red Rear Signal

Throws bright light. Will not jar or blow out. Removable polished aluminum reflector or 3/4-in. wick. Finished in black. Has clamp bracket, also handle. Ship. wt., 4 1/2 lbs.

186C2269—Plain Lens, 30 candle power. Price.....\$3.98

186C2270—Powerful Ribbed Lens, 70 candle power. Price.....\$4.48

Handy Tin Lantern

186C2257—A good, serviceable lantern. No. 1 burner, 3/4-in. wick. No. 0 globe. Fount holds 1 1/2 pts. of oil. Gives an excellent light. Ship. wt., 3 lbs. Price.....89c

186C2258—Extra Globes. Ship. wt., 1 lb. Each.....14c

\$1.35

Cold Blast Oil Lantern

Built especially for the farm. It burns steadily in the strongest wind and the cold blast principle produces perfect combustion and a strong white light. Built of heavily retinned steel and will last indefinitely. Has a large fount, which holds 2 1/2 pints. Burns 40 hours on one filling. Number 2 Burner, 1-inch wick. Shipping weight, 9 pounds.

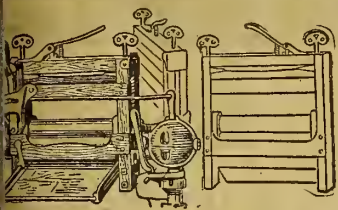
186C2254—\$1.35

186C2255—Extra Globes. Shipping weight, 1 pound. Price, each.....12c

Send Only \$5
With Your Order

\$500
DOWN

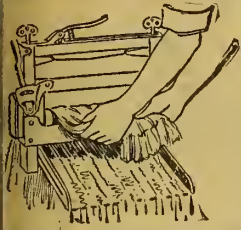
Triumph Power Washing
and Wringing Machine
Complete With Disc and Dolly Dashers



**Four Position
Power
Wringer**

With it you wring your clothes from the wash tub into the rinse tub, then into the bluing water and from there into the basket.

It turns readily in any direction, saving you as much time and labor as the washer does. Wringer can be used while washer is in operation. The 11-in. rubber rolls allow plenty of space when extra large pieces are to be wrung.



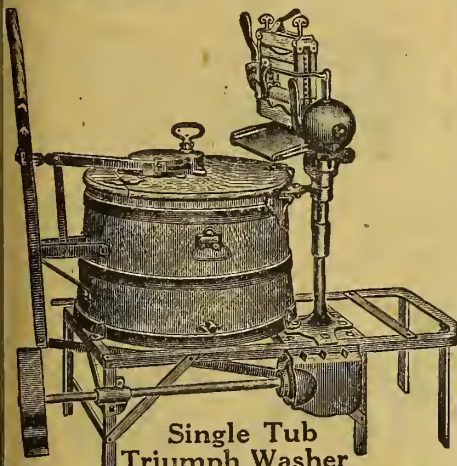
**Has Large Size
Drain Board**

When wrung from the clothes, the water falls back into the tub. The extra large size reversible drain board takes away all possibility of any water dripping on the laundry floor.



Safety Pressure Release

Enables operator to remove all pressure on rolls instantly, should the clothes become entangled.



**Single Tub
Triumph Washer**

The Single Tub Model with a folding steel platform, which holds one tub. Washer can be operated by hand in case of emergency.

186C138—Triumph Engine Power Washer, Single Tub Model as illustrated. Complete with Four-Position Wringer (11-inch rolls) and 10-inch drive pulley. Ship. wt., about 200 pounds. **\$61.95**

Time Payment Price..... **66.75**
(\$5.00 with order and \$6.00 a month until paid. Use Order Blank on page 808).

186C139—Triumph Electric Power Washer, Single Tub Model. Complete with high-grade motor, 10 feet of reinforced cord and plug to attach to ordinary electric light socket, also the Four-Position Wringer (11-inch rolls). Ship. wt., about 225 pounds. Mounted on easy rolling casters. Please state voltage, current and cycles when ordering.

Cash Price, with 110-volt alternating current motor, 60 cycles..... **\$97.95**

Time Payment Price..... **106.75**
(\$5.00 with order and \$9.00 a month until paid. Use Order Blank on Page 808).

Shipped promptly from stock at Chicago.

IMPORTANT

Machines carried in stock with 110-volt electric motor or alternating current, 60 cycles. All other voltages and current shipped from factory near Chicago, at an additional charge of \$5.00. If in doubt in regard to the voltage you require, ask your electric light company. For Engine Drive the Triumph should be operated about 200 revolutions per minute, but not any faster.

If You Prefer to Pay Cash

use a regular Order Blank. If you want to pay in monthly installments use the Special Order Blank on Page 808.

Our new arrangement permits you to pay for it while you are actually using it. \$5.00 is all you send us as an initial payment. The remainder is quickly paid in the form of small monthly payments.

The Triumph is equipped to run either by motor or gasoline engine. The operation is very simple. There are few working parts and these are arranged so that binding and excessive wear are impossible. The gears are enclosed to prevent any danger of accident.

For Engine Drive we can furnish 8, 12, 14, or 15-inch pulleys on special order. The electric Triumph has the motor mounted on a fibre block which is bolted to the steel frame of the machine. The drive shaft is fitted with a grooved pulley which is driven by a round belt from the motor.

The extra large sized tub is made of finest quality Virginia White Cedar. This wood withstands the action of water for ages. The cover is selected Cypress. On it is mounted the mechanism which operates the dolly or disc inside the tub. Cover opens easily as there are no heavy parts to lift. Dimensions of tub; Diameter, 22½ in. at top; 24 in. at bottom; 14 in. high.



**Triumph
Platform Model**

The Platform Model has a steel platform, 24 inches wide and 43 inches long for holding two tubs and the basket. Washer can be operated by hand should any emergency occur.

186C140—Triumph Engine Power Washer, Platform Model, as illustrated. Complete with Four-Position Wringer (11-inch rolls) and 10-inch drive pulley. Ship. wt., about 215 lbs. **\$62.95**

Cash Price..... **68.00**
Time Payment Price..... **68.00**
(\$5.00 with order and \$5.00 a month until paid. Use Order Blank on Page 808).

186C141—Triumph Electric Power Washer, Platform Model. Complete with high-grade motor, 10 feet of reinforced cord and plug to attach to ordinary electric light socket, also the Four-Position Wringer (11-inch rolls). Mounted on easy-rolling casters. Shipping weight, about 240 pounds. Please state current, voltage and cycles when ordering. Cash Price, with 110-volt alternating current motor, 60 cycles..... **\$98.50**

Time Payment Price..... **107.95**
(\$5.00 with order and \$9.00 a month until paid. Use Order Blank on Page 808)

Shipped promptly from stock at Chicago.

Two-Tub Triumph Washer

Are your washings unusually large? The Triumph Two-Tub Model is built to wash clothes in large quantities. It has two tubs instead of one. You can wash clothes in both tubs and wring at the same time. Simple levers also enable you to operate one tub alone, or the wringer alone, just as the occasion requires. Washer can be operated by hand should any unforeseen emergency occur.

186C133—Triumph Engine Power Washer, Two-Tub Model. Complete with Four-Position Wringer (11-inch rolls) and 10-in. drive pulley. Ship. wt., about 300 lbs. **\$83.45**

Cash Price..... **90.95**
Time Payment Price..... **90.95**
(\$5.00 with order and \$8.00 a month until paid. Use Order Blank on Page 808)

186C134—Triumph Electric Power Washer, Two-Tub Model. Complete with high-grade motor, 10 feet of reinforced cord and plug to attach to ordinary electric light socket, also Four-Position Wringer (11-inch rolls). Mounted on easy rolling casters. Ship. wt., about 325 lbs. Please state voltage, current and cycles when ordering.

Cash Price, with 110-volt alternating current motor, 60 cycles..... **\$123.50**

Time Payment Price..... **134.50**
(\$5.00 with order and \$12.00 a month until paid). Use Order Blank on Page 808).

Shipped promptly from stock at Chicago.

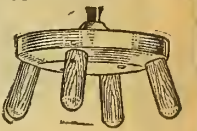
Special Disc for Washing Delicate Clothes

The disc method is used mostly for washing the finest laces, curtains and embroideries as it washes by rotating and pressing down upon the garments. Raised ribs on bottom are rounded and smoothly finished.



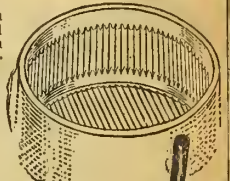
Equipped with Dolly Type Dasher

The dolly method is very popular with women, because the rapidly reversing dolly forces the hot suds through the clothes so speedily as to remove every speck of dirt quickly. Does not rub the clothes, therefore, does not wear them out.

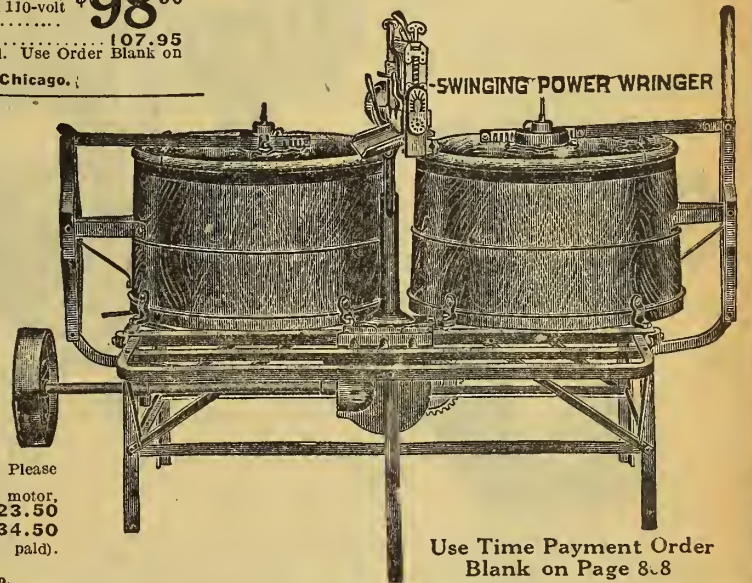


Roomy Corrugated Tub

Rounded corrugations on sides and bottom of tub aid in the quick and thorough cleaning of the clothes.



Tubs not included, see page 813 for Tubs.



SWINGING POWER WRINGER

Use Time Payment Order
Blank on Page 8.8

SUGAR

COFFEE

FLOUR

\$1.79

**TWO SPECIALS
For Your Pantry**

A Handy Pantry Set

Covers clamp tightly over boxes. White enameled charcoal tin, lettering stenciled with gilt. Very attractive and sanitary. Every home can use such a set to a splendid advantage. Contains one coffee can, capacity, 3½ lbs. one sugar can, capacity, 7 lbs. and one flour can, capacity, 10 lbs. Ship. wt., 4½ lbs. **186C1552—Price, \$1.79**



Roll Top Bread Box

Good capacity. Convenient roll top raised or lowered by wooden knob. Handles on sides glazed. Box is of white enameled charcoal tin properly ventilated at top. 13 inches long, 11½ inches wide and 10½ inches in height. Lettering stenciled in gilt. Shipping weight, 4 pounds. **186C1551—\$1.75**

BREAD AND CAKE

\$1.75

OPEN VIEW

Klenzal Power Washer and Wringing Machine, Cylinder Type, Electric or Engine Drive

FIRST IT TURNS 4 TIMES THIS WAY

THEN IT REVERSES AND TURNS 4 TIMES THIS WAY

20 INCHES

Simply Turn the Electric Light Switch The Champion will do the rest

This

Cylinder Washes a Batch of Clothes to a Snowy Whiteness in 20 Minutes

Construction of Cylinder

It is perforated with smooth 1/8-inch holes, through which the dirt passes when removed from the clothes. This dirt then settles at the bottom of the tub completely separated from the washing. The cylinder is always clean and sanitary. Size of cylinder: 18 in. long, 18 inches in diameter.

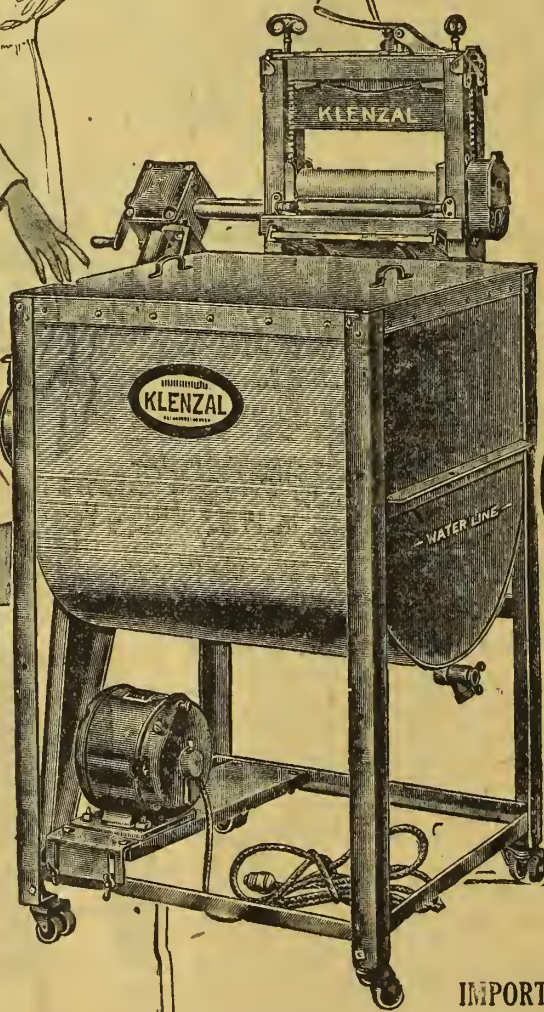
The cylinder is of metal and is made in such a way that there are no sharp edges to catch or tear the clothes. Blankets and table linen are prevented from balling up in the Klenzal because of the continuous change in action of the revolving cylinder. And no portion of them can escape the cleansing action of the hot sudsy water surging through.

We are prepared to furnish either copper or galvanized iron bodies. The galvanized bodies are beautifully finished in Battleship Gray enamel.

Capacity, 6 sheets or 15 shirts. Floor space, 21x23 inches.



Automatic Release



Here is a machine which has proven itself the most successful type suited for universal demands. It is so effective that the largest laundries in the world have adopted its principle.

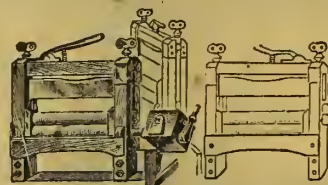
The cylinder-container revolves at the rate of 16 times each minute and reverses in action after every fourth revolution. This is what gives this machine the distinction of being such a rapid and efficient washer of clothes. It meets all the requirements of the home laundry, and does the work much faster than can be done by the old hand method, which is so hack-breaking and trying on the nerves of the house-wife.

Sold on Easy Payments

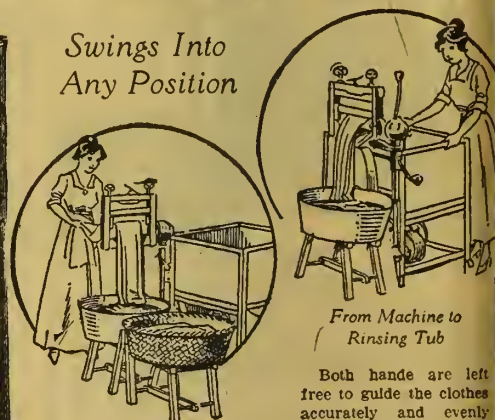
People with foresight can readily see the wisdom of taking advantage of our easy payment plan. It enables them to obtain this wonderful labor saver at once. \$5 with your order covers the first payment. The remainder is quickly paid at the rate of only \$10 a month. Actually pays for itself while it is being used.

The Swinging Power Wringer

The wringer is operated by the same motor which runs the machine and is so constructed that it can be swung into any desired position—either to wring the clothes from the machine or from the rinsing water.



Swings Into Any Position



From Machine to Rinsing Tub

From Rinsing Tub to Basket All Ready for the Line

Both hands are left free to guide the clothes accurately and evenly into the mouth of the power wringer. You need not crank with one hand and risk having the clothes "bunched up" while attempting to guide them with the other.

The extra long coil springs will enable you to wring light or heavy clothes without even changing the tension. Has a safety pressure release. A slight turn of the lever starts or reverses the wringer. It can be run at the same time as the cylinder or separately.

\$5

Down—Then, After 30 Days Trial, if Washer is Satisfactory, Send Us \$10.00 Each Month Until Full Purchase Price Has Been Paid.

The Klenzal—With Electric Motor

Complete with High-Grade 1/4-H. P., 110-volt, 60-cycle, alternating current motor, reinforced cord and plug to attach to ordinary electric light socket. Has high-grade power wringer.

186C565—Galvanized Body and Cylinder..... \$143.50
186C566—Copper Body and Cylinder..... \$173.50

Shipping weight, 240 pounds. Shipped promptly from stock at Chicago. Be sure to state voltage wanted.

Motor Specifications

A special water-proof 1/4 H. P. Washing Machine motor is used. It is provided with a 10-foot insulated cord which is easily attached to any electric light socket. The 1/4 H. P. motor supplies ample power to run the machine at the required speed, and the wringer at the same time.

Equipped with 110-volt, 60-cycle alternating current motor. Before ordering, call on your electric company and ask if this type of motor will operate on their system. If not, we can furnish any other voltage motor at as small extra cost. Be sure to give us this information. We can also provide washers with motors for homes where Home Lighting Plants are in operation at an additional charge of \$5.00.

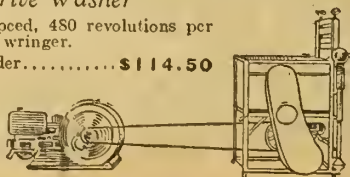
The Klenzal Engine Drive Washer

Equipped with 6-inch pulley—proper speed, 480 revolutions per minute. Complete with high-grade power wringer.

186C567—Galvanized Body and Cylinder..... \$114.50

186C568—Copper Body and Cylinder..... \$143.50

Shipping weight, 225 pounds. Shipped promptly from stock at Chicago.



ORDER BLANK

Easy Payment Plan

IMPORTANT We Require this Information when Electric Washing or Sewing Machines are Being Ordered

1 What Voltage?	32	110	220	
2 What Current?	Direct	Alternating		
3 If Alternating Current, What Cycle?	25	40	60	125

Please check off the answers to the questions listed here. Your electric light company will be glad to help you.

Special motors furnished at an additional charge of \$5.00

Montgomery Ward & Co, Chicago.

I enclose \$5.00 as first payment for which please ship me the indicated above. I will pay you the balance in monthly payments of each on the day of each month following receipt of the machine until the full purchase price has been paid: then the machine becomes my property.

(Also be sure to register any letter in which you enclose money.)

Please Sign Here

Post Office

R. F. D. No. _____ State _____

Box _____ Street and No. _____

Shipping Point _____ County _____

My occupation or business is _____ I have lived here since _____

Please give references. Banks or business houses preferred.

Name _____ Address _____ Business _____

1 _____

2 _____

You Simply Press the Button-That's all

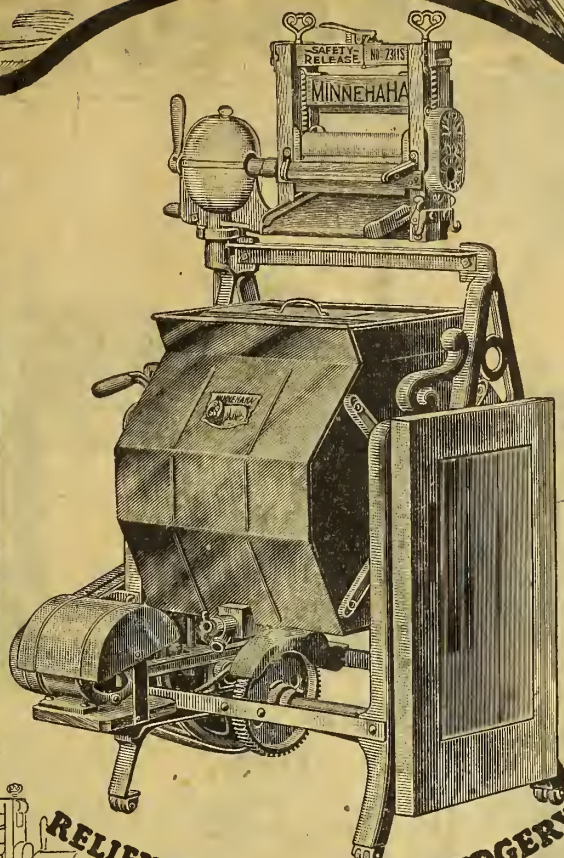


That wash on the line,—the clothes you wear,—the linens on your table,—all tell a big story in plain language. They tell what kind of work your washer is doing.

Some washers are fine for one kind of washing and some are fine for another, but the Minnehaha Will Fill Your Every Need Perfectly. Washes dainty laces or heavy blankets equally well without one single rub. Completes a family washing in about an hour.

The Minnehaha way is the up-to-date way, and it is by far the cheaper way. Clothes washed in the Minnehaha last much longer than clothes rubbed by hand. This saving alone will quickly pay for the Minnehaha Electric.

Capacity, 16 shirts (6 sheets) or their equivalent. Occupies a floor space measuring only 29x32 in.

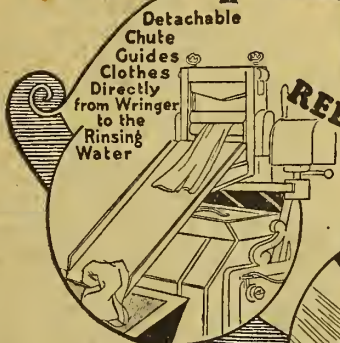


PUSH BUTTON
Is Conveniently
Located on the Side
of the Machine within
easy Reach of the
Operator

Costs Only 3 Cents a
Week for Electricity

Has a one-sixth horse power motor, 110-volt, 60 cycles alternating current and is one of the best that money will buy. Has plenty of power to operate the washer and wringer at the same time.

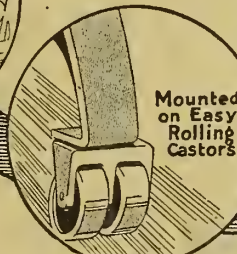
\$5 DOWN



Detachable
Chute
Guides
Clothes
Directly
from Wringer
to the
Rinsing
Water

RELIEVES YOU OF ALL DRUDGERY

Showing the Raised Ribs
Which Combined with the
Swinging of the Tub, Cleans
the Clothes so Well.



Mounted on Easy
Rolling
Castors

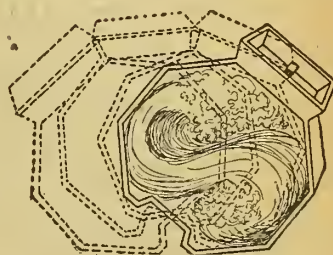
Think of it!
Washes and
Wringes at the
Same Time



We have made it so easy to pay for the Minnehaha that any reliable person can acquire one at once. \$5.00 covers first payment. Remainder is quickly paid while you use it at the rate of \$10.00 a month.

You don't risk a penny. Try the Minnehaha for 30 days. If it doesn't do all we claim, return it. Your money and freight charges will be refunded.

Fill Out Order Blank
on Opposite Page Today



The Swinging Action of the Tub

The clothes are washed inside a tank which swings backward and forward. This swinging motion with the aid of the inner construction of the tub, creates a tremendous action, forcing hot, soapy water through the fabric of the clothes. Every particle of the cloth is affected by this action with the result that it comes out fresh and pure, spotlessly clean.

The Minnehaha Electric Washing and Wringing Machine

Swinging Power Wringer Advantages

You can wring from one tub into the other throughout the entire process of washing without moving the machine or tubs. Wringer can be moved to four positions. Fitted with high quality rubber rolls, 1 1/2 in. Fully enclosed cogs. Adjustable to wring anything from laces to blankets, etc.

Can be started, stopped or reversed, as desired. It is equipped with an Automatic Roll Release Safety Guard, which enables the operator to instantly remove all pressure on the rolls. Has a reversible drain board.

The body is double seamed and soldered, water-tight and strongly braced. The stand is built of heavy castings, bolted and braced, reinforced to stand harder wear than you will ever give it. Accident-proof—every moving part is enclosed.

186C195—Minnehaha Electric Power Washer. Has 110-volt, 60 cycle alternating current motor. Extra heavy copper tank. **\$144.80**

186C196—Minnehaha Electric Power Washer. Has 110-volt, 60 cycle alternating current motor. Heavy galvanized iron tank. **\$129.85**

Shipping weight, about 250 pounds. Shipped promptly from stock at Chicago. Use Time Payment Order Blank on opposite page.

Motors of special voltages can be furnished at a small extra cost.

Irons Beautifully!

The Minnehaha Electric Ironing Machine

Irons:

- Table Linen
- Bed Linen
- Lace Doilies
- Center Pieces
- Dresser Scarfs
- Fine Bedspreads
- Children's Play Clothes
- House Dresses
- Lingerie
- Underwear
- Etc.



Swinging Clothes Rack Furnished

Motors of special voltages can be furnished at a small extra cost.

Work done by the Minnehaha Electric Ironing Machine in ONE HOUR would take FOUR HOURS were it done by hand! Its even heat and uniform pressure gives a beautiful finish otherwise impossible to acquire were a hand iron used. You neither push nor lift heavy irons. It's the economical way; costs only 3 to 4 cents for an average ironing—this is decidedly cheaper than heating hand irons. Strongly made; will last a lifetime.

All you do is guide the clothes. A large heavily padded roller carries the clothes around, pressing them against a heated curved iron surface which fits snugly against the roller. The roller measures 44 inches in length; large enough to do all classes of ironing. Irons practically everything except shirt waists and fancy skirts.

The Minnehaha Ironing Machine is all metal, except the padded roll and feed board. The machine stands 47 inches high (just the proper height for easy handling of the clothes.) The control switch is within immediate reach of the operator. All gears and belts are enclosed. Two pedals at the end of the frame give you a double control. The hands are always free to guide the clothes. A touch on the clutch or lever starts or stops the roller instantly.

The Minnehaha Ironing Machine is equipped to be heated by Artificial Gas alone. A connection is provided for a flexible gas hose. It is belt driven by a high-grade electric motor.

We want you, personally, to see the wonderful work it does. Try it for 30 days; see how it will iron your largest linen table cloth in three minutes! There no longer is any excuse for a woman wasting time ironing when such an economically operated machine will do the work for her.

Use Order Blank on Opposite Page

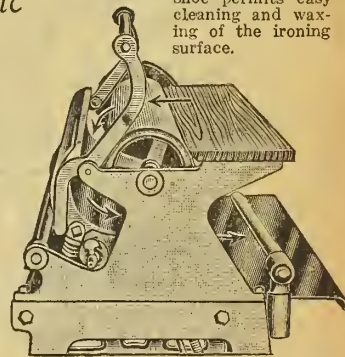
Sold the Easy Payment Way

186C180—Minnehaha Electric Ironing Machine. For Artificial Gas. Complete with high-grade 110-volt, 60 cycle alternating current motor and gas heater. **\$169.80**

186C179—Same as above, for natural gas. **\$169.80**

Shipping weight, 450 lbs. Shipped promptly from stock at Chicago.

Wide throw of shoe permits easy cleaning and waxing of the ironing surface.



\$5 DOWN

Is All You Send Now

\$5 covers the first payment. The remainder is quickly paid at the rate of \$10 a month. When you order, use the special Easy Payment Order Blank on opposite page.

The Expensive Way

Washers With



Makes Light Work of Large Washings



THE OLD FAITHFUL SELF-WORKING WASHER

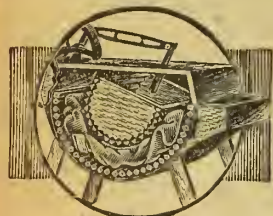
A Good Pal to Have on Washday

\$19.95

The Old Faithful

The Old Faithful Washer has been an old standby in the homes of American housewives for over 25 years. It is probably the most popular type of washing machine in use today. This is because it is practically a washboard operated by machinery but, instead of having the hard work done by human hands, the operation of the lever starts the mechanism to work, rubbing the clothes spotlessly clean. Will not tear the daintiest fabrics.

It has a high-speed flywheel attachment and is operated by a lever instead of a hand wheel. When once started—and it starts very easily—the momentum and force is so great as to make it practically self-running, which means time saved and ease in operation. It runs on long double bearings which make it easy-running. It has protected gears, making it safe, and galvanized castings and hardware which prevent rust. Fitted with rollers for moving about easily. Has grooved flywheel so it may be operated by motor-power also if desired.



Made of Louisiana Red Cypress

The wood that has endured for centuries. Water doesn't affect it. It neither warps, leaks nor rots. The varnish shows its beautiful grain.

If you want a dependable, easy-running, long lasting washing machine, choose the Old Faithful. You will like it.

Height, 30 3/4 in. Length, 35 in. Width, 20 1/4 in. Cap., 12 shirts. Ship. wt., 120 lbs.

186C148—Price..... \$19.95

Price does not include Wiring.

Shipped promptly from stock at Chicago or from warehouse in Pittsburgh or Saint Paul, according to location of customer.

At every movement of the lever the two washboards turn or revolve in opposite directions. This causes a combination of squeezing, suction, vacuum, tumbling and agitation.

Our Old Faithful Electric Washer

Operates by electricity. Just the turn of a button and off she starts. Another dependable Old Faithful Model. Suitable for homes where there is electricity. It has a high-grade motor, powerful enough to run the washer with a full lead. Motor may be used for other purposes also.

Built on the same substantial lines as the other Old Faithful models, except that the lower washboard is slightly different. Fitted with casters for moving about easily. 9-ft. cord with connecting plug.

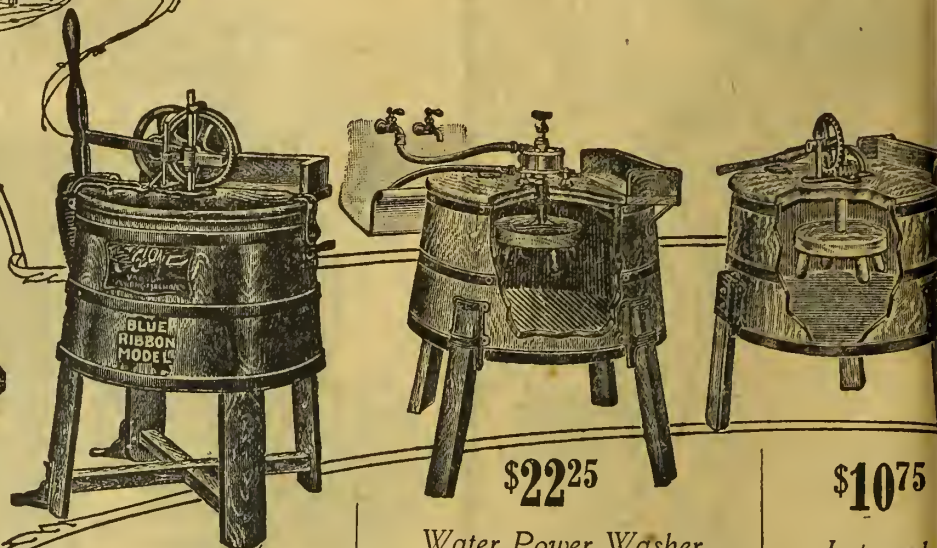
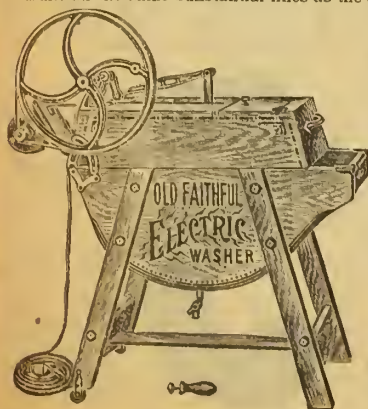
Carried in stock fitted with 110-volt motors for alternating current, 60 cycles. If desired for different voltages and current, can furnish at small extra cost. Ask for prices. Special orders require a longer time to fill.

Length, 35 inches; width, 20 inches; height, 36 inches. Capacity, 12 shirts.

Shipping weight, 120 pounds. **186C144—Please state voltage, current and cycles when ordering.**

Price..... **\$56.45**

Shipped promptly from stock at Chicago or from warehouse in Pittsburgh or Saint Paul, according to location of customer.

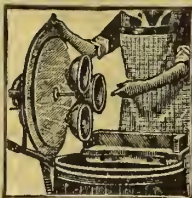


\$19.85

The Cyclone Blue Ribbon Vacuum Washer

A group of three cups plunges up and down and at the same time rotates in such a way as to bring all clothes in the tub within range of its powerful suction which removes every particle of dirt without harming the most delicate garments. Dirt cannot resist this thorough and entirely efficient vacuum action which gives the Cyclone Blue Ribbon Vacuum Washer its name.

This machine is light running. This is because of its perfect balance and smooth-running ball bearings. The mechanism on the lid is cleverly balanced so that it opens with great ease. When opened, you have complete access to the entire tub (see illustration). The



three vacuum cups or basins are smooth and of non-rustable iron—nothing to tear or injure the clothes. Everything is simple, strong and compact.

Tub is made of water-resisting Southern Cypress. Capacity about 8 shirts or 4 sheets. Diam. of tub, inside, 21 in. Ht. to lid, 29 in. Ship. wt., 90 lbs.

186C136—Price..... \$19.85

Shipped promptly from stock at Chicago.

\$6.75



The Famous Whirl Washer

This popular low-priced washer operates on the same principle as the Old Faithful, but, of course, it is not as well made. Both the lower washboard and upper rub-board are well made of water-resisting wood.

When emptying the tub all you do is to lift the upper rub-board out and it rests on a bracket. Not necessary to lift it out and set it on the floor. The bottom rub-board may be taken out for cleaning.

You will be surprised to see how well this washer cleans just by working the handle back and forth. Width, 17 1/2 in., length, 28 in., depth, 13 in.

186C160—Ship. wt., 50 lbs. Price..... \$6.75

Shipped promptly from stock at Chicago or from warehouse in Pittsburgh or Saint Paul, according to location of customer.

Water Power Washer

The water pipe leading from the water main to the hose connection must be at least 3/4 in. inside measurement, in order to operate this motor effectively. The greater the water supply and pressure, the faster and easier the machine will operate.

Simply attach it to your faucet. It is a big favorite because it is so handy. Our motors have been tried and tested and are reliable in operation. You can depend upon our water power washers doing the work very nicely.

These machines will run on 20 pounds pressure (a flow of 4 gallons of water a minute). Fitted with two sections of rubber hose with standard coupling, which can be connected to any threaded faucet.

186C153—Windsor Water Power Washer. Fitted with gearless brass motor, as illustrated. Guaranteed for two years. Best Southern Cypress Tub. Inside measurements, 22 1/2 in. at bottom, 19 1/4 in. at top, 12 1/4 in. deep. Ship. wt., 75 lbs.

Price..... **\$22.25**

186C154—Speedy Water Power Washer. Fitted with piston type, springless brass motor. Guaranteed for two years. Best Southern Cypress Tub. Inside dimensions, 22 1/2 in. at bottom, 19 1/4 in. at top, 12 1/4 in. deep. Ship. wt., 80 lbs.

Price..... **\$23.25**

Shipped promptly from stock at Chicago or from warehouse in Pittsburgh or Saint Paul, according to location of customer.

\$10.75

Improved Reliable Washer

Cleans by the "dasher" method swirls the garr through the hot water with a speed rapid as to remove quickly and thoroughly. Equipped with a lever rotary movement runs with great ease.

Well made through Tub is of water resist cypress. Illustration shows the good construction. If you want a good washer at a low price, get this. Inside diameter, 23 in. at bottom, 20 1/2 in. top. Height, 12 1/2 in. Ship. wt., 60 lbs.

186C164—\$10

Shipped promptly from stock at Chicago or from warehouse in Pittsburgh or Saint Paul, according to location of customer.

Our Veribest High-Speed Washer



\$19.75

Here we have speed and ease of operation, combined with substantial quality, which insure genuine satisfaction. It is so delightfully easy to operate because of the terrific momentum it produces. The high-speed flywheel is geared to make 300 revolutions per minute.

The washing can be done while you are sitting or standing. The adjustable handle makes this possible. It adjusts to six different positions. The fly wheel is mounted on a long steel shaft which runs on double bearings, making it smooth-running. No heavy machinery is attached to the lid.

Can also be operated by Belt Power, the flywheel being grooved for belt. Lid on washer can be opened or closed while engine is running.

The tub is of water-resisting cypress and has a capacity of 8 shirts. Shipping weight 90 pounds.

186C162—Price..... \$19.75

Shipped promptly from stock at Chicago or from warehouse in Pittsburgh or Saint Paul, according to location of customer.

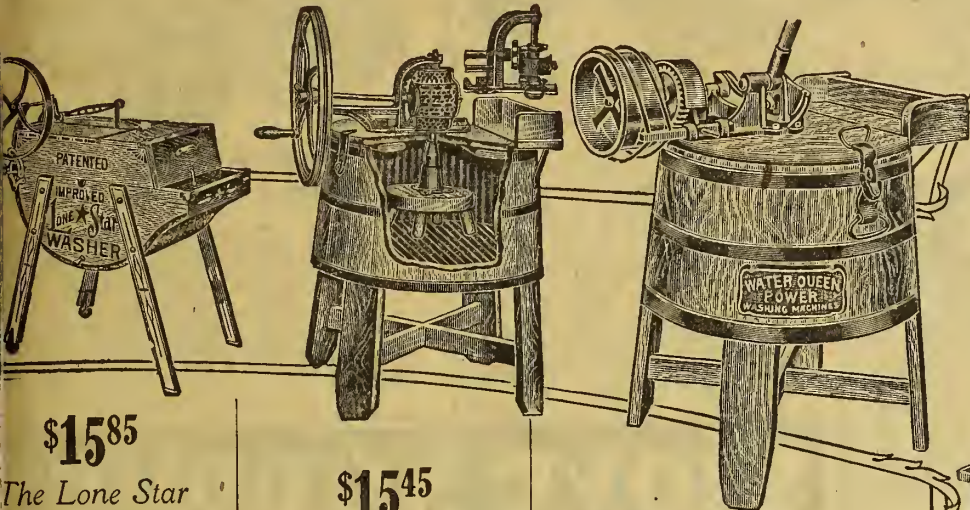
The Dolly Type



CLEAN Records



THURO POWER Vacuum Washer



\$15⁸⁵

The Lone Star Washer

any housewives would no other washer in their es. This popular old mod-as given perfect satisfac-for many years.

operates on the same prin-as the Old Faithful model clothes being rubbed and ezed between two rubbing ds moving in opposite di-ons, just as they would be ned on a washboard. Tub nade of selected lumber, ily varnished. The bottom board is easily removed for ning.

6C159—8-shirt capacity. wt., 100 lbs. **\$15.85**

6C149—12-shirt capa-Ship. wt., 120 lbs. **\$16.95**

6C158—15-shirt capa-Ship. wt., 130 lbs. **\$18.75**

Shipped promptly from k at Chicago or from ouse in Pittsburgh or at Paul according to ation of customer.

\$15⁴⁵

Simplex Rotary Washer

The heavy flywheel and the roller bearing gear of this washer cause it to be one of the easiest running rotary machines made. The covered cog wheels make it perfectly safe. Washes by the dolly or dasher method. Has grooved pulley wheel.

Fitted with telescope dasher post so that, with a full tub, the dasher post does not project through the dolly to tear or injure the clothes. Large capacity, natural finish, water-proof Cypress tub, with strongly braced legs and wringer board. Capacity 8 shirts. Ship. wt., 85 lbs.

186C143—Price.. **\$15.45**

Shipped promptly from stock at Chicago or from warehouse in Pittsburgh or Saint Paul according to location of customer.

\$18⁴⁵

Water Queen Power Washer

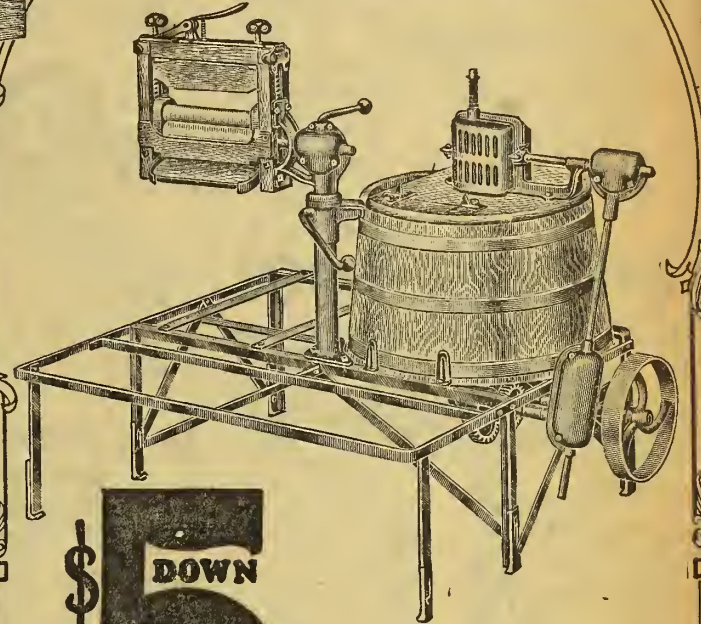
This washer can be operated in two ways —by attaching the belt of your gasoline engine to the 8x2 inch tight and loose pulley wheel, or by hand like an ordinary washer. The tub is made of Southern Cypress, the wood which resists water so well. When the lid is raised the mechanism locks automatically, preventing the machine from running when you are filling or emptying the tub.

Guaranteed for five years, against breakage (except through misuse). Learn the pleasure of letting your engine do the washing by ordering the Water Queen. Your money and charges will be cheerfully returned if it doesn't please you.

Inside measurements of tub, 23 $\frac{1}{4}$ inches at bottom, 19 $\frac{3}{4}$ inches at top, 12 $\frac{1}{4}$ inches deep.

186C183—Water Queen Power Washer with 8-inch pulley to run 240 revolutions per minute. Shipping weight, 100 pounds. Price..... **\$18.45**

Shipped promptly from stock at Chicago.



\$5 DOWN

Pay for it while you use it. Send only \$5.00 with your order. Then, after 30 days' trial, if it proves satisfactory, send us the small amount indicated below each month until the full purchase price has been paid.

Convenience is the outstanding characteristic of the New Thuro Vacuum Washer. You have a folding frame for holding two tubs, or one tub and a clothes basket and it can be put out of the way when not in use. The wringer swings in any direction in order to wring the clothes in the handiest position. It has a safety clutch lever which easily starts it or reverses it, if necessary. The rolls are 10x1 $\frac{3}{4}$ in.

The machine is designed to be operated by electric motor or gasoline engine. By means of its efficient vacuum process the clothes are turned out spotlessly clean in about one-fourth the time it used to take by hand.

The operation is simplicity itself. Just turn on the power. After that the washer automatically starts when the lid is closed and stops when it is opened. The whirling vacuum cup is dome-shaped, and galvanized to prevent rust. It produces a positive cleansing current which will not harm the most delicate fabrics.

There are no belts or chains to catch the clothing—the washer is entirely gear driven. All other gears and transmission parts are enclosed to avoid the danger of accident.

The frame on which the tub rests is made of strong channel iron, 43 in. long, 25 in. wide, 16 in. high. The folding feature makes it convenient. The tub is of Southern Cypress which is the best water-resisting wood known. The interior has corrugated sides and bottom which add to its effectiveness in cleaning. The outside is nicely finished. Special screw plug type water drain with rubber hose attachment. Tub capacity, 18 gallons. Inside measurements, 22 $\frac{1}{2}$ in.; diameter at bottom, 20 in.; at top, 12 $\frac{1}{2}$ in. high.

The Thuro, with Pulley for Engine Drive

186C168—Engine Power Washer—Main drive pulley for operating with engine is 11 $\frac{1}{2}$ in. in diameter with 2-in. face, which should run 200 revolutions per minute. This is important. Shipping weight, 225 pounds. **\$58.50**

Cash Price, only..... **62.95**
Time Payment Price..... **\$5.00** with order and **\$5.00** a month until paid.)
Use Easy Payment Order Blank on Page 809.

The Thuro, with Electric Motor

186C169—Washer with Electric Motor, 110-volt alternating current, 60 cycles. When ordering electric machines, be sure to give voltage, current and cycles. Cash Price, only..... **\$97.95**

Time payment price **\$103.50** (\$5.00 with order and \$8.50 a month until paid.)
Use order blank on page 809. Shipping weight, 250 lbs.

Shipped promptly from stock at Chicago

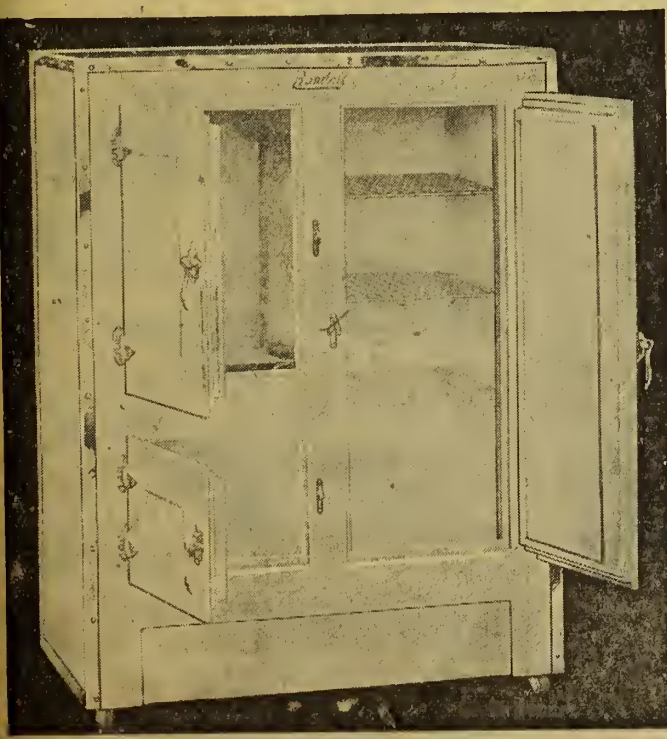
Machines carried in stock with 110-volt electric motor for alternating current, 60 cycles. All motors for other voltages and current shipped from factory near Chicago at a small extra cost. Write for prices.

Electric machines fitted with casters for easily moving them about.



Power Wringer can be Swung into any Position Desired

A Beautiful Snow-White Refrigerator



\$57⁵⁰

Different from other refrigerators, as it is made of a new composition—wood fiber. This wood fibre, which replaces the usual wooden case, does not warp, crack or bulge. Prevents all air and moisture from gaining access to the food chambers. Will not absorb or give off odors. Two air chambers and the one-piece side and top construction insures perfect insulation.

Extremely sanitary, as it is pure white inside and out with no seams to catch or hold the dirt. Easy to clean: drain pipes are instantly removable. This refrigerator will add to the beauty of any kitchen. All its trimmings are nicely nickel-plated. The ice chamber is at a convenient height. The unusually large production of this style refrigerator by one of the factories makes our low price possible. Order by No. **286C575** Ship. wt., 250 lbs. Ice capacity, 100 lbs.

Price..... **\$57.50**

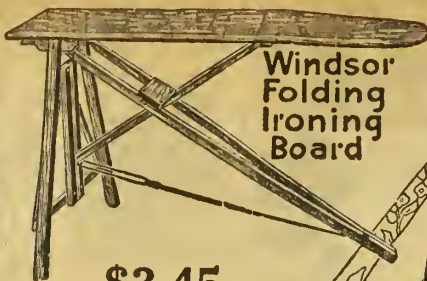
Shipped promptly from factory in Northern Michigan.

Outside Dimensions: Height, 50 in.; width, 34 in.; depth, 19 in. Large Provision Chamber: Height, 36 in.; width, 13 $\frac{1}{2}$ in.; depth, 15 in. Small Provision Chamber: Height, 23 $\frac{1}{2}$ in.; width, 13 $\frac{1}{2}$ in.; depth, 15 in. Ice Chamber: Height, 23 $\frac{1}{2}$ in.; width, 13 $\frac{1}{2}$ in.; depth, 15 in.

Washing clothes is back-breaking unless a good washer is used.

Montgomery Ward & Co. Chicago

Items of Importance

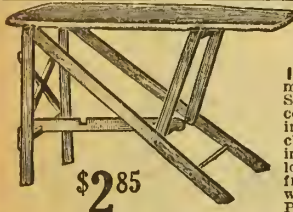


**Windsor
Folding
Ironing
Board**

Not
Mailable

\$3.45

186C223—An ironing board that stands firm as a rock. Does not wiggle. Will withstand hard continuous service. The ironing surface is 14 1/2 x 57 inches. The longest skirt or one piece suit can easily be slipped over the board. Convenient height from the floor. Takes up small space when folded. Ship. wt., about 17 lbs. Price, only..... **\$3.45**



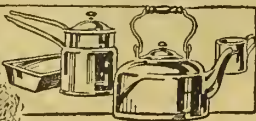
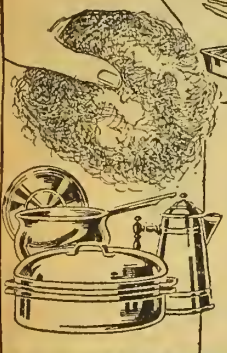
**My Wife's
Ironing Table**

186C226—Well made throughout. Strong and rigid. Folds completely when not in use. Board is of clear basswood; 15 inches wide, 58 inches long. Strong hardwood frame. Shipping weight, 20 pounds. Price..... **\$2.85**

\$2.85

SHINERWOOL

The Aluminum Cleanser



Steel Wool

Softly wooled steel shavings that work wonders! Keeps aluminum ware, etc., spotless and bright. Ideal for cleaning linoleums, hardwood floors, boilers and for removing paint spots from glass, etc. Saves your hands, too. At its best when soaked with soapy water. Complete with a "Dictionary of Uses." Ship. wt., about 1 1/2 lbs. Price..... **24c**

86C401—Price..... **24c**



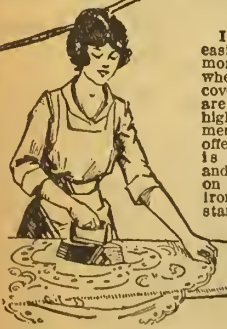
Protection Against Fire

Use a Windsor Fire Extinguisher **86C2507**—Consists of a metal tube 2x11 in., filled with a dry powdered chemical which generates carbonic acid gas and quickly puts out fires. This powder will not freeze, burst, evaporate, corrode, explode or deteriorate. It will not injure hands, fabrics, or anything else; does not lose its properties by time, as long as it is kept in its tightly closed tube. Ship. wt. **\$0.98**
4 1/2 lbs. Price each..... **10.25**
Per doz.

Mrs. Potts' Sad Iron Handles

86C237—Extra quality handles for Mrs. Potts' irons. Ship. wt., 12 oz. Each..... **19c**
86C238—Standard grade handles. Ship. wt., 12 oz. Each..... **17c**

Covers and Pads for Your Ironing Board



Ironing is easier and much more effective when a good cover and pad are used. We highly recommend the one offered here. It is well padded and can be used on any 5-foot ironing board or stand.



Showing How it Laces on Back of Board.

\$1.15

Put it on the board, turn the board over and lace up the pad just as you would a pair of shoes—takes but a minute. Costs no more than ordinary sheets and there isn't that bother of fastening it. Ship. wt., 1 1/4 lbs.

86C267—Pad to fit 5-ft. Board, Each..... **\$1.15**
86C268—Extra Washable Covers to slip over and protect pad. Ship. wt., 8 oz. Each..... **79c**



Heat Retaining Sad Iron Set

186C231
\$2.65

This iron has a detachable pressed steel hood that keeps the heat in much longer than usual. Hood is fitted with enameled wooden handle. Has improved lock on wedge principle that holds iron rigid and secure. Ironing surface (in blued finish) is very smooth, slightly convex and has rounded edges to prevent shirring. In this set everything has been thought of to make ironing easy, quick and comfortable. Set consists of three oval irons weighing, with hood attached, 5 1/2 pounds each, and one covered stand, 6x6 inches. Ship. wt. per set 18 pounds.
186C230—Heavily nickel-plated. Price..... **\$2.98**
186C231—Smoothly polished. Price..... **2.65**



**Genuine Enterprise
Mrs. Potts' Iron Set**

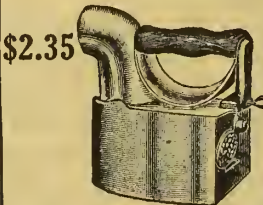
186C234—Set consists of one 4-pound polishing iron with rounded point, two regular double pointed irons, weighing 5 and 5 1/2 pounds, one detachable cold handle and one iron stand. These irons always give the best of satisfaction. Ship. wt., 17 lbs. Price, per set..... **\$2.95**



\$2.48 Asbestos Lined

186C232—Set consists of three double pointed irons, average weight, 5 lbs.; detachable handle with wooden grip and one iron stand. Irons smoothly ground, slightly convex. Finely nickel plated. Ship. wt., 19 lbs. Price, per set..... **\$2.48**

86C233—Extra Handles to fit above irons. Ship. wt., 15 oz. Each..... **24c**



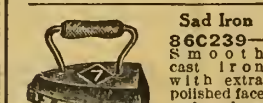
\$2.35

86C242—Heat is easily regulated. Double dues. Burns charcoal or live wood coals. Finely polished. Cool handle with shield. Ship. wt., 7 lbs. Price..... **\$2.35**



Tailors' Goose Irons

186C241—Smooth cast iron with wrought iron handle cast in. Finely ground and polished face. Weights may vary slightly. Give size. Size lbs. 12 16
Each... **\$1.49** **\$1.98**
Size lbs. 15 20
Each... **2.25** **2.48**



Sad Iron

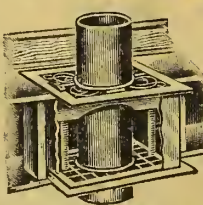
86C239—Smooth cast iron with extra polished face and edges. Iron handle, cast in. Give size. Size lbs. 6 8 10
Each... **\$0.72** **\$0.83** **\$1.05**



Japanned Coal Hods

186C2535—Size, about 16 in. Ship. wt., 2 lbs. Each..... **53c**
186C2536—Size, about 18 in. Ship. wt., 2 1/4 lbs. Each..... **58c**

Stove Supplies



Combination Register and Ventilator

Ceiling plate is white japanned, floor plate black. Held in position by springs. Adjustable to flooring, 6x13 in.; has two wings for regulating ventilation. Center is removable for 6-in. stove pipe.



Stove Pipe Register

Heats upper rooms with surplus heat which rises to ceiling.



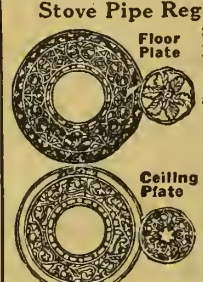
pipeless furnace

Used with pipeless furnace.



186C2521—Size, 8x10 in. Ship. wt., 10 lbs. Price..... **\$4.40**

186C2522—Size, 10x12 in. Ship. wt., 16 lbs. Price..... **\$6.40**



Sheet Mica (Isinglasa)

86C2569—Selected clear sheet mica. Ship. wt., dozen sheets, 2 to 6 oz. Price dozen sheets.

2 1/2 x 3	\$0.36
2 1/2 x 4	.48
3 x 4	.84
3 x 5	1.05
4 x 5	1.75
4 x 6	2.45
5 x 7	3.85



Crystallized Finish Stove Boards

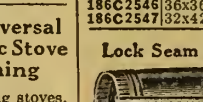
High Grade Sheet Steel Stove Boards. Ornamental designs. Lined with a two-ply cross grain solid wood base. Not Mailable.

Art. No.	Size in.	Ship. wt. lbs.	Each
186C2540	26x26	7	\$1.57
186C2541	28x28	8	1.89
186C2542	28x34	10 1/2	2.15
186C2543	30x30	9 1/2	2.10
186C2544	30x38	11	2.45
186C2545	33x33	12	2.48
186C2546	36x36	14	2.98
186C2547	32x42	15	2.89



Black Stove Putty

86C2598—Used by stove makers in mounting stoves, to make joints air-tight 1 1/4 in. Price..... **14c**
5 1/2-lb. Can... **58c**
Cannot be sent by mail.



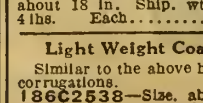
Universal Plastic Stove Lining

86C2596—For repairing stoves, furnaces, etc. Easily applied. Directions furnished. Per box of 6 lbs. net weight. Ship. wt., 6 1/2 lbs. Each..... **35c**
Per box of 12 lbs. net weight. Ship. wt., 13 lbs. 2 oz. Each... **65c**



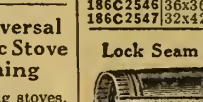
Extra Heavy Galvanized Iron Coal Hods

186C2533—Will out last two of the light pattern. Open top, length, about 18 in. Ship. wt., 4 lbs. Each..... **\$1.59**



Light Weight Coal Hods

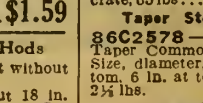
Similar to the above but without corrugations. **186C2538**—Size, about 18 in. Ship. wt., 3 lbs. Each... **98c**



Lock Seam Stove Pipe

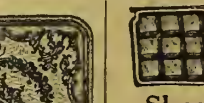
Common Knock-Down Stove Pipe. Quickly put together. Made of cold rolled steel, packed in crates, of 25 joints. (We do not sell less than one crate at crate prices.) Length of joint, 24 in.

86C2572 —Diam., 5 in. Per Length.....	25c
186C2573 —Ship. wt., per crate, 42 lbs.....	\$5.95
86C2574 —Diam., 6 in. Per length.....	26c
186C2575 —Ship. wt., per crate, 65 lbs.....	\$6.25
86C2576 —Diam., 7 in. Per length.....	29c
186C2577 —Ship. wt., per crate, 65 lbs.....	\$6.90



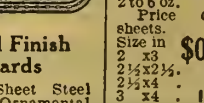
Taper Stove Pipe

86C2578—Knock-Down Taper Common Stove Pipe. Size, diameter, 7 in. at bottom, 6 in. at top. Ship. wt., 2 1/2 lbs. Price, per length..... **31c**



Adjustable Fire Back for Cook Stoves

86C2553—Cast iron. Adjusts in length from 15 1/2 to 22 in.; and width from 5 in. to 6 in. Ship. wt., 8 lbs. Each..... **\$1.69**



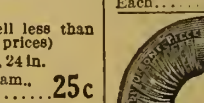
Steel Stove Shovels

86C2556—Extra heavy. Japanned. Ship. wt., 1 1/2 to 2 lbs. Length, in. 15 1/2, 21 1/2, 24 1/2. Each..... **19c** **23c** **27c**



Common Corrugated Elbows

86C2589—Made of one single piece of smooth black iron. Ship. wt., 1 to 2 lbs. Diam., 5 in..... **19c**
Diam., 6 in..... **22c**
Diam., 7 in..... **25c**



Stove and Furniture Casters

86C2594—Low Pattern, Japanned, Cast Iron. Easy rolling. Length, 5 1/2 in.; height, 2 1/2 in. Diameter of caster, 1 1/4 in. Ship. wt., per set, 9 pounds. Set of four..... **\$2.10**



Anti-Soot Stove Pipe Cleaner

86C2506—Destroys soot in places you cannot reach. Cleans chimneys, drafts, etc. Full directions. Price, 6 cartons... **58c**
Ship. wt., 6 lbs.

For Your Laundry

Genuine Racine Baskets

Sold only in sets of 2 or more

Hand made of best rock elm. Reinforced at top. Large handles securely attached. Strong, smooth, heavy wooden bottom. Sold only in sets of two or more, but selection can be made from the various sizes listed below.

Article Number	Size at Top about Inches	Height about Inches	Ship. Wt. Lbs.	Price Each
86C269	26 1/2 x 18 1/2	11 1/2	4	\$0.95
86C270	28 1/2 x 18 1/2	12	4	1.15
86C271	30 x 20 1/2	12 1/2	4	1.25

Betty Corner Hamper

Three cornered — built to fit in a corner. Made of good quality natural colored and silver gray splints, interwoven. Solid board bottom. Hinged cover. Ht., 25 in. Size at top 18x18 x 23 1/2 in. Ship. wt., abt. 15 lbs. **Not Mailable.**

186C294 — Price.....\$4.25

Genuine Blue Bird Steel Indoor Clothes Line Reel

Takes the place of a clothes horse or dryer, yet occupies only 3x3 in. To be attached to wall or woodwork. Contains abt. 30 ft. of strong, braided line. The ratchet enables you to tighten the line as wanted and prevents its slipping back. Furnished complete with screws and hooks. Ship. wt., 1 1/2 lbs. 86C258 — 38c Price.....

Clothes Lines

50-Foot Hank 35c

86C443 — Braided Hemp Clothes Line. Exceptionally good value at this price. Will not stretch. 50 or 100 ft. lengths. Ship. wt., of 50 ft., 12 ounces. 86C443 — 35c Price, per 50-ft. hank.....

86C434 — Braided Cotton Clothes Line, with Hemp center. Will not kink. Diam., about 1/2 in. 50 and 100-ft. lengths. Ship. wt., of 50 ft. about 18 oz. Price, per 50-ft. hank..... 48c

86C435 — Solid Braided Cotton Clothes Line. Well made; strongly recommended. Diam., about 1/2 in. 50 and 100-ft. lengths. Ship. wt., of 50 ft., about 18 oz. Price, per 50-ft. hank..... 75c

86C437 — 1/4-inch Manila Clothes Line. Ship. wt., of 100 ft., about 2 1/2 lbs. Price, per 100-ft. length..... \$1.10

86C410 — Samson Spot Wash Cord Clothes Line. This is one of the very best lines obtainable. Strong and durable. Ship. wt., of 100 ft., 2 1/2 lbs. Price, per 100 ft. length..... \$1.95

Household Helps



Galvanized Pails
86C290 — Standard quality. Full weight. Galvanized after they are made.

Cap. Qts.	Shp. Wt. Lbs.	Price Each
12	2 1/2	54c
14	2 3/4	57c

Standard Galvanized Iron Wash Tubs

Well made and thoroughly galvanized. Heavier than tubs sold by many. Malleable drop handles. 86C285 — Diam., 20 in. Depth, 10 1/2 in. Ship. wt., 8 lbs. **Not Mailable.** Price..... \$1.29

86C286 — Diam., 22 in. Depth, 11 in. Ship. wt., 10 lbs. Price..... \$1.45

86C287 — Diam., 24 in. Depth, 11 in. Ship. wt., 12 lbs. Price..... \$1.69

Extra Heavy Galvanized Wash Tubs

Absolutely water-tight. Heavy and excellent tubs. With convenient wringer attachment. Heavy rigid handles. **Not Mailable.** 86C283 — Top diam., 22 1/2 in. Depth 10 1/2 in. Ship. wt., 10 lbs. Price..... \$2.15

86C284 — Top diam., 24 1/2 in. Depth, 11 in. Ship. wt., 11 lbs. Each, only..... \$2.45

Extra Heavy Galvanized Pails

86C289 — Galvanized after being formed. Heavy wire handle, with wooden grip. Ship. wts., 4 and 5 lbs.

Cap. Qts.	Diam. In.	Price Each
12	11 1/2	\$0.90
15	12 1/4	1.05

Portable Mop Pail Wringer
Will fit in any wooden or galvanized pail.



Wooden lever. Place the mop cloth in hopper, pull lever, and the cloth will be surprisingly dry. Size of hopper, 6x7 in. Ship. wt., 10 lbs. 86C428 — Price..... \$2.65



Mop Wringer With Bucket

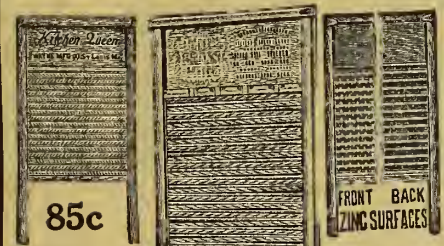
86C427 — Heavy wrought steel frame with movable hardwood rollers. Complete with full size best grade wooden bucket. Ship. wt., 10 lbs. Price..... \$2.98



65c

Tin Suds Dipper
Extra Heavy Tin, polished. Short, strong handle. 86C296 — Size, 6 1/2 x 3 1/2 in.; holds 1 1/2 qts. Ship. wt., 1 lb. Price..... 65c

86C297 — Size, 7 1/2 x 4 1/2 in.; holds, 2 1/2 qts. Ship. wt., 1 1/4 lbs. Price..... 75c



85c

86C276 — Kitchen Queen Special washboard metal rubbing surface, 10 1/2 x 11 in. Ship. wt., 3 lbs. Price..... 85c

\$1.07

Brass Washboard

86C277 — Has a hard, solid brass rubbing surface, 10 1/2 x 11 in., with an improved crimped surface which will never rust or discolor. Ventilated back. Full dimensions, 12 1/2 x 24 in. Ship. wt., 3 lbs. Price..... \$1.07

86C278 — Double Zinc Surface. Double crimp on one side, plain crimp on other. Rubbing surface, 10 1/2 x 11 in. Strong hardwood frame. Ship. wt., 4 lbs. Price..... 98c

86C279 — Single surface globe crimp zinc washboard. Rubbing surface, 10 1/2 x 11 in. Hardwood frame, ventilated back. Ship. wt., 3 lbs. Price..... 92c

Combination Mop and Scrub Brush

Detachable palm-leaf fibre brush. Face size, 2 1/2 x 8 1/2 in. Also has detachable 12-oz. mop head. Length of strings, about 12 in. Holder made of cast iron with 4-ft. hardwood handle. Ship. wt., about 4 lbs. 86C394 — \$1.15 Price.....

Combination Self-Wringing Mop and Scrub Brush

86C409 — Wrings itself out easily by the turning of a crank. Complete with long handle, woven cotton mop and good grade scrub brush. Ship. wt., 5 lbs. Price..... \$1.75



42c

Mop Stick
86C313 — Iron Head, spring fastener. Wooden handle. Total length, 4 ft. Ship. wt., 2 lbs. Price..... 42c



44c

Mop Stick and Scrub Brush Holder
86C314 — Made of cast iron with 4-ft. hardwood handle. Ship. wt., 2 lbs. Price..... 44c



Cotton Mop Heads
Can be attached to any mop handle. No handle furnished. Length of strings, about 12 in. Ship. wt., 16 to 18 oz. 86C490 — 12-oz. mop. Price..... 55c

86C491 — 16-oz. mop. Price..... 69c



68c

Coil of 100 Feet

Solid Wire Clothes Line
86C430 — Solid Annealed Galvanized Wire Clothes Line. Preferred by a great many because of its smooth surface. Illustration shows full size. In coils of 100 ft. Ship. wt., 6 lbs. Per coil..... 68c

Twisted Wire Clothes Line
86C431 — Made of No. 18 gauge wire, twisted together to form a strong, flexible cable. Thoroughly galvanized. Illustration shows full size. In 100-ft. coils. Ship. wt., 4 lbs. Per coil..... 55c

10 Doz. 48c

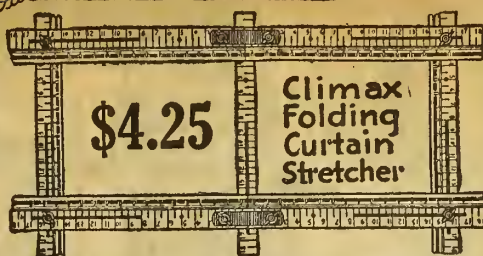
Spring Pins
86C308 — U. S. Patent Galvanized spring. Ship. wt., per gross, 4 lbs. Per box, 6 dozen..... 48c

10 Doz. 48c

Wooden Clothes Pins
86C305 — Strong and smoothly finished. In boxes containing 60 doz. Ship. wt., 15 lbs. Per box..... \$2.45

86C306 — In packages containing 10 doz. Ship. wt., 2 1/2 lbs. Per package..... 48c

Clothes Line Hook
86C303 — Heavy wrought iron. Firmly attached to plate having four screw holes. Japanned. Length, 2 inches. Shipping weight, 8 ounces. Price, each (without screws)..... 5c



\$4.25

Climax Folding Curtain Stretcher

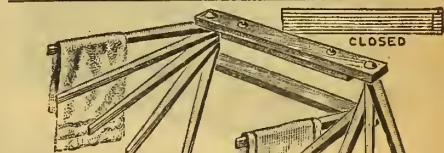
186C261 — Made of selected clear basswood, 2 in. Extends to 6x12 feet. Frame and center brace have burnt-in measuring rule. Strongly reinforced in center, making it very rigid. Can be adjusted to all size curtains. Pins adjust to any size scalloped, and are rust-proof. Made of brass, nickel-plated. Folds completely with pins protected. Ship. wt., 9 lbs. Price..... \$4.25



Not Mailable.

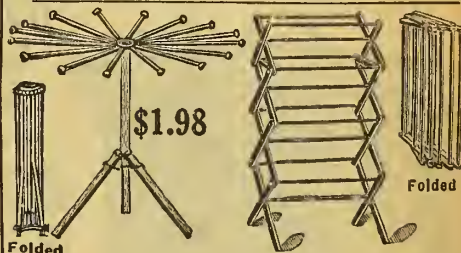
186C251 — Similar to above, but width of frame is only 1 1/2 in. Size, 6x12 feet. Adjustable brass nickel-plated pins. Ship. wt., 10 lbs. Price..... \$3.75

186C252 — Folding Curtain Stretcher. Size, 6x12 feet. Made of 1 1/2 in. basswood with stationary pins, 1 in. apart. Folds completely. Ship. wt., 9 lbs. Price..... \$2.75



Clothes Dryer

Has ten arms, each 24 in. in length, which swing out. Five from either side, allowing you 18 1/2 feet of drying space. Can be nailed up on the kitchen wall, out of your way. Well made of selected pine. 86C225 — Ship. wt., about 5 lbs. Price..... 98c



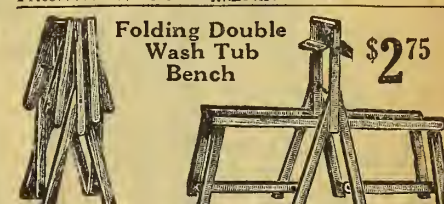
Clothes Dryer

186C357 — 24 running feet of drying space; 12 arms. The arms are independent. You may lift as many as you need. The head revolves. Folds into a space, 6x27 1/2 in. Made of hardwood. The metal parts are japanned. Shipping weight, 6 lbs. Price..... \$1.98

Every Home Should Have a Clothes Dryer

186C264 — Has 34 running feet of drying space, yet occupies only 34x20 in. floor space. Adjusts to two heights, 5 ft., 3 in. or 5 ft., 10 in. Folds into package, 33x28x5 in. Made of white basswood, smoothly finished. Ship. wt., 8 lbs. **Not Mailable.** Price, only..... \$1.98

27c Clothes Dryer
86C266 — Has eight wooden arms, each about 24 in. long. Convenient for drying small articles in the house. Arms drop out of the way when not in use. Ship. wt., 1 1/2 lbs. **Not Mailable.** Price..... 27c



\$275

Folding Double Wash Tub Bench
Every woman will appreciate the usefulness and convenience of this well-made bench. The upright piece is so constructed that any kind of wringer can be fastened to it with room enough on each side for tubs. Water board on both sides. Stands solidly when in use; may be folded up for putting away. Made of nicely finished hardwood. Length, 51 in. Width, 17 in. Ship. wt., 24 lbs. 86C282 — Price..... \$2.75

Not Mailable



85c

Cyclone Washer
The Cyclone Washer takes the dirt out of any kind of wash, heavy or light materials. It cleans by suction. You simply work it up and down on the clothes. Directions printed on handle of washer. Has a 27-in. wooden handle. The washer itself is of good non-rusting tin. 86C299 — Genuine Cyclone Washer. Ship. wt., 3 lbs. Price..... 85c

86C300 — Vacuum Washer. Simpler construction than above, but very effective. Has 22-in. wooden handle. Ship. wt., 1 lb. Price..... 45c

Boilers of Dependable Quality



Note Hook for Hanging Boiler on Tub when Pouring

Our Best Boiler

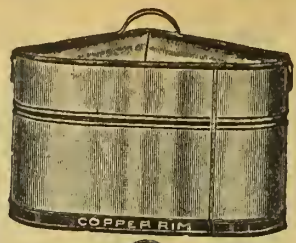
\$7.15

Not Mailable.

Made extra large of extra heavy copper, the best that money can buy. Size of bottom, 23x12 1/2 inches. Polished copper on the outside, heavily tinned inside. Cannot discolor clothes. Top edge is reinforced by a steel wire rod. Sides are corrugated. Double seamed and soldered, leak-proof. Cover is made seamless of retinned steel. Stationary wood grips. Capacity, 14 1/2 gals. Actual weight, 10 1/2 lbs.

186C215—Shipping weight, 18 pounds. Price,\$7.15

Easy to Handle Has Stationary Wood Grips



\$3.35 186C219—Heavy tin body, with seams securely soldered. Heavy copper bottom and rim, tinned on inside. Metal drop handles, securely riveted. Flat bottom. Size, No. 9. Bottom measures 11 1/2 x 22 ins. Capacity, 13 gal. Ship. wt., 4 lbs. Only\$3.35 Not Mailable.

\$2.45 186C221—Low-priced medium weight wash boiler. No. IX Tin. Securely double seamed and leak-proof. Copper bottom, tinned on inside. Size No. 8, bottom measures, 10 1/2 x 20 1/2 in. Cap. 10 1/2 gal. Ship. wt., 12 lbs. Only\$2.45 Not Mailable.



\$3.75 186C218—Extra heavy, high-grade charcoal tin, with full-weight copper bottom. Extra strong—heavy wire rim and corrugations on sides. Double seamed and soldered, leak-proof. Wooden grips. Size, No. 9, flat bottom, 11 1/2 x 22 1/2 in. Cap. 13 gallons. Ship. wt., 17 lbs. Price,\$3.75 Not Mailable.

\$2.45 186C220—A substantial boiler that will give good service. Made of heavy galvanized iron. Wooden grips. Strong tin cover. Full size. No. 9 Length 22 inches. Width, 11 1/2 inches. Cap. 13 gal. Ship. wt., 16 lbs. Only\$2.45 Not Mailable.

\$5.45



High-Grade Copper Boiler

Not Mailable.

An exceptional value at this low price. Made of heavy solid copper, polished outside, tinned inside. Will not discolor clothes. Steel wire rods and corrugations on the sides add to strength of boiler.

Double seamed and soldered, leak-proof. Have stationary wood grip handles. 186C216—Size No. 8, bottom, 10 1/2 x 20 1/2 inches. Actual wt., 8 lbs. Cap. 10 1/2 gals. Shipping weight, 15 lbs. Price,\$5.45 186C217—Size No. 9, bottom, 11 1/2 x 22 1/2 inches. Actual weight, 9 lbs. Cap., 13 gals. Shipping weight, 17 lbs. Price,\$5.95

We Use Only the Best Grade of Rubber Rolls



\$6.48

Guaranteed 3 Years. Frame is well constructed of maple, fitted with steel ball-bearings and fully enclosed cogwheels. Guaranteed for 3 years. Size of rolls, 10x1 1/4 inches. Fits any style tub. Ship. wt., 25 lbs.

186C207—Price, only\$6.48 Not Mailable

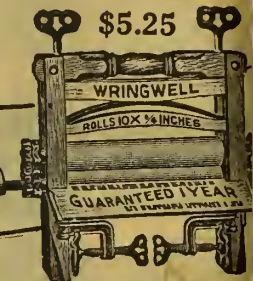


\$6.95

Our Best Wringer

Guaranteed for 5 Years

This wringer compares favorably with any wringer made regardless of price. Fitted with old-fashioned elastic rubber rolls, that are fully guaranteed for 5 years, but for ordinary family use will last much longer. Frame is made of selected maple, nicely finished. Fitted with steel ball bearings that make turning easy. Easily accessible for oiling. Holdfast tub clamps fasten wringer securely to any galvanized iron, wooden or fibre tub. Cogwheels are on the inside, fully enclosed to prevent injury to fingers and clothes, a feature that will be appreciated by every woman. 186C200—Size of rolls, 10x1 1/4 inches. Shipping weight, 26 pounds. Only\$6.95 186C201—Size of rolls, 11x1 1/4 inches. Ship. wt., 27 lbs. Price, only\$7.45 Not Mailable.



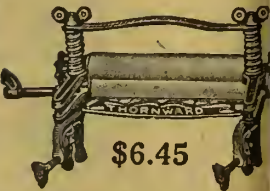
\$5.25

Guaranteed for 1 Year. Size of rolls, 10x1 1/4 in. Hardwood frame, fitted with hold-fast clamps. Fastens to any tub. 186C210—Ship. weight, 24 lbs. Price, only\$5.25 Not Mailable.



\$5.25

Guaranteed for 1 Year. Size of rolls, 10x1 1/4 in. Malleable iron frame fitted with easy running bearings. Hold-fast clamps. Fits any style tub. 186C211—Ship. wt.\$5.25 15 lbs. Price,\$5.25 Not Mailable.



\$6.45

Guaranteed for 5 Years. Strong malleable iron frame fitted with easy-running metal bearings. Hold-fast clamps fasten wringer securely to any wash tub. Steel spiral pressure springs insure even pressure on clothes. Best elastic rubber rolls, size 10x1 1/4 inches. 186C206—Ship. wt.\$6.45 22 lbs. Price, only\$6.45 Not Mailable.

Thornward Combination Bench Wringer

\$10.85

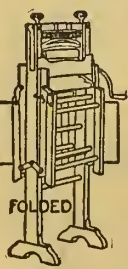
186C204 Guaranteed for 5 years



A Very Convenient Arrangement

Selected Hard Maple and Beechwood Bench with 5-year guaranteed Wringer. Reversible waterboard. Steel ball bearings, fully enclosed cogwheels. Size of rolls, 11x1 1/4 inches. Holds 2 tubs. Folds into small space when not in use. Ship. wt., 65 lbs.

186C204—Price (without tubs)\$10.85 Not Mailable.



Guaranteed 3 Years **\$9.85**

Dandee Bench Wringer

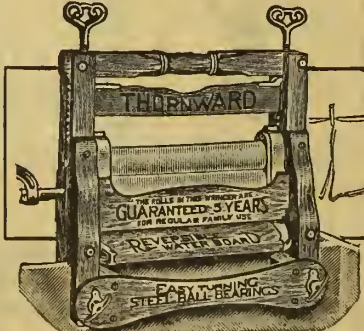
Not Mailable. 186C209 Same as the Thornward, but fitted with a 3-year guaranteed wringer. Size of rolls, 10x1 1/4 ins. Ship. wt., 50 lbs. Price,\$9.85

Folding Bathtub



Easily Filled or Drained by Hose, Coupling Furnished with Each Tub.

\$9.95



Guaranteed for 5 Years **\$7.75**

For stationary or round tubs. Reversible waterboard. Frame is of selected maple. Steel ball bearings make turning of handle easy. Cogwheels are fully enclosed. Improved steel spiral pressure springs insure even pressure on clothes. Clamps open 2 inches, and hold wringer securely to tub. Selected elastic rubber rolls, size, 11x1 1/4 inches. 186C203—Shipping weight, 33 pounds. Price,\$7.75 Not Mailable.



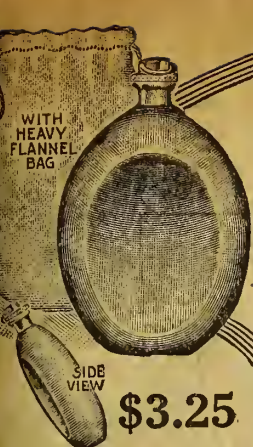
Guaranteed for 5 Years **\$6.95** Thornward Metal Frame Wringer

If you prefer a metal frame wringer, you cannot buy a better one. Guaranteed for 5 years. Frame is of high-grade malleable iron, fitted with easy running steel ball bearings and fully enclosed cogwheels. Spiral pressure springs insure even pressure on clothes. Hold-fast tub clamps are furnished which fasten the wringer securely to any galvanized iron, wood or fibre tub; clamps open 1 1/2 inches. Rolls are of the best elastic rubber, size, 10x1 1/4 in. 186C202—Ship. wt., 26 lbs. Price,\$6.95

A great big roomy bath tub that can be folded into a small roll and put in any out-of-the-way place. Does away entirely with the need of clumsy washbowls, foot tubs and old-fashioned galvanized or wooden tubs. At a very small cost it gives the convenience of a big modern bath tub to farm homes, summer cottages and homes where there are no bath fixtures. Has a strong, hardwood frame with body of rubber-covered thick ducking. Inside is smooth, soft and silky. Bottom sets on floor where it cannot tip or sway. It won't spill, leak, or splash. Hot water doesn't hurt it. Filled from a faucet by means of a hose connection, or you can fill it up just as you would an old-fashioned tub. Length, 5 feet, width, 27 inches, depth, 16 inches. Weighs but 15 lbs. Shipping weight, 16 pounds. 186C134—Price,\$9.95

Folds Into a Small Spa


Enameled and Metal Sanitary Articles



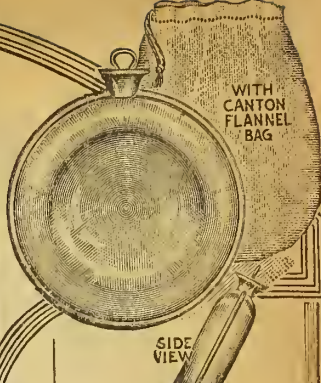
White Enameled Sanitary Toilet Stand
186C1336—Equipped with 3-qt. pitcher and basin, 12 1/2-inch band, also tray, soap dish and towel rack. Adjustable bevel edge mirror, 10x12 inches. Extreme height, 56 inches. Exceptionally strong and rigid. Ship. wt., 22 lbs.
Price, only **\$10.85**



White Enameled Sanitary Toilet Stand
186C1336—Equipped with 3-qt. pitcher and basin, 12 1/2-inch band, also tray, soap dish and towel rack. Adjustable bevel edge mirror, 10x12 inches. Extreme height, 56 inches. Exceptionally strong and rigid. Ship. wt., 22 lbs.
Price, only **\$10.85**



Sanitary Toilet Stand
186C1325—Sanitary toilet stand and set. White enameled frame. Basin, pitcher and soap dish, all white enameled. Pitcher and basin have dark blue rims and handle. Height of set, 30 1/2 in. Diameter of basin, 13 in. 3-quart pitcher. Ship. wt., 14 lbs.
Price, per set only **\$5.35**



Nickel-Plated Hot Water Bottle
A nickel plated hot water bottle in canton flannel draw-string bag. Practically indestructible. Retains the heat a long time. Diameter, 7 3/4 inches. Capacity, 1 quart. Has screw top. Shipping weight, 18 ounces.
86C1339—Price, only **\$1.48**



Aluminum Hot Water Bottle
For home, sickroom or nursery. Made seamless of pure aluminum. Has screw cap and heavy canton flannel bag. Aluminum is especially desirable as it heats quickly and retains the heat. Will not corrode, puncture or wear out. Capacity, 1 1/2 quarts.
86C1338—Price, only **\$3.25**



White Enameled Toilet Set
186C1309—Lighter and more durable than earthenware. Pure white enameled inside and outside. Set consists of wash basin, 13 in.; water pitcher, 6 qts.; chamber pail and cover and soap dish with drain. Each piece made seamless. Shipping weight, 13 pounds.
Price, four-piece set, **\$7.25**



White Enameled Combinet
White inside and out. Smooth edges. Cover fits down tightly. Easily cleaned.
Price, only **\$2.39**

Article Number	Holds Aqt.	Shp. Wt. Lbs.	Price
186C1312	8 1/2	5	\$2.39
186C1313	12	8	3.15



Child's White Enameled Bath Tub
186C1335—Child's seamless sanitary bath and foot tub. Has wide rounded rim with black edge. Will not chip easily. Inside dimensions: Length, 19 1/2 in.; width, 15 1/2 in.; depth, 6 in. Ship. wt., 14 lbs.
Price, only **\$3.15**



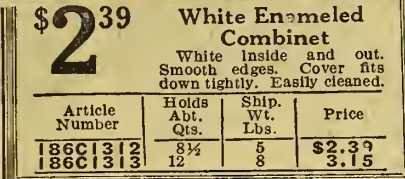
Nickel-Plated Hot Water Bottle
A nickel plated hot water bottle in canton flannel draw-string bag. Practically indestructible. Retains the heat a long time. Diameter, 7 3/4 inches. Capacity, 1 quart. Has screw top. Shipping weight, 18 ounces.
86C1339—Price, only **\$1.48**



White Douche Pan
86C1323—White Enameled. Size, 16x11 1/2x2 1/4 in. Ship. wt., 4 lbs. Each, **\$2.29**
86C1324—Gray Enameled. Size, 15 1/2x12x3 in. Ship. wt., 6 1/2 lbs. Each, only **\$1.95**

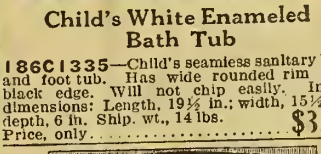


White Enameled Toilet Set
186C1309—Lighter and more durable than earthenware. Pure white enameled inside and outside. Set consists of wash basin, 13 in.; water pitcher, 6 qts.; chamber pail and cover and soap dish with drain. Each piece made seamless. Shipping weight, 13 pounds.
Price, four-piece set, **\$7.25**



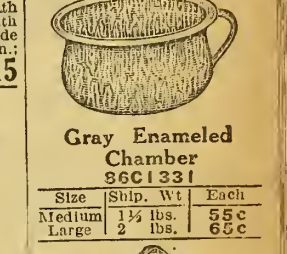
White Enameled Combinet
White inside and out. Smooth edges. Cover fits down tightly. Easily cleaned.
Price, only **\$2.39**

Article Number	Holds Aqt.	Shp. Wt. Lbs.	Price
186C1312	8 1/2	5	\$2.39
186C1313	12	8	3.15



White Enameled Wash Basins
Each 86C804

Diam. In.	Shp. Wt. Lbs.	Price Each
12	2	78c
13	3	89c
14 1/2	4	98c

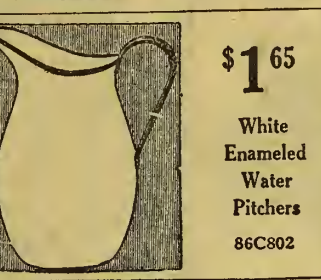


Gray Enameled Chamber
86C1331

Size	Shp. Wt.	Each
Medium	1 1/2 lbs.	55c
Large	2 lbs.	65c

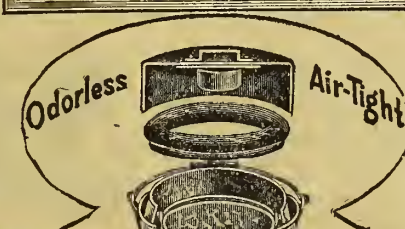


White Bed Pan
86C1321—White enameled. Extreme length, 18 in.; width, 12 1/4 in. Ship. wt. 3 1/2 lbs. Each, only **\$2.65**
86C1322—Same as above but gray enameled. Extreme length, 19 in.; width, 12 1/4 in. Ship. wt., 5 1/2 lbs. Each, **\$2.15**

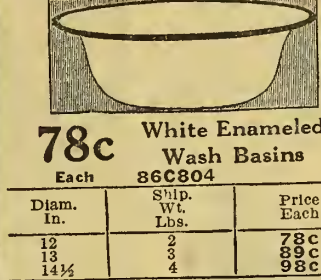


White Enameled Water Pitchers
86C802

Cap.	Shp. Wt.	Price
2 qts.	1 1/2 lbs.	\$1.65
3 1/2 qts.	2 lbs.	1.95
7 qts.	4 lbs.	2.70

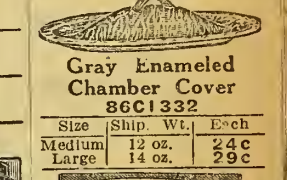


Odorless Commode
Galvanized iron. Outside has thin coat of aluminum paint. Removable wooden seat. Cover fits in a groove which forms an air-tight seal when filled with water. A deodorizing cup is attached to cover. Use chloride of lime in the cup as a disinfectant. Height, 12 1/2 in. Diameter, 11 1/2 in. Shipping weight, 8 lbs.
186C1307—Price, only **\$2.75**



White Enameled Wash Basins
Each 86C804

Diam. In.	Shp. Wt. Lbs.	Price Each
12	2	78c
13	3	89c
14 1/2	4	98c

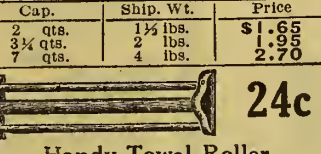


Gray Enameled Chamber Cover
86C1332

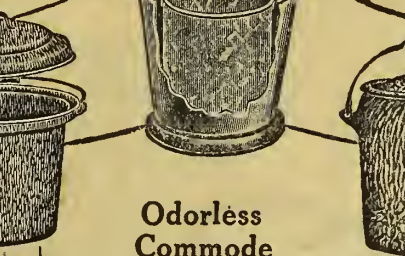
Size	Shp. Wt.	Each
Medium	12 oz.	24c
Large	14 oz.	29c



White Douche Pan
86C1345—Best quality white enameled ware. Far more practical than the old style douche pan. Ship. wt., 4 pounds. Price, **\$4.95**



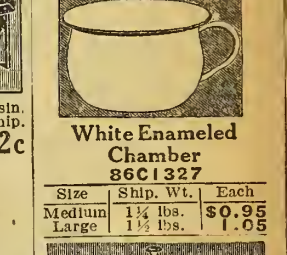
Handy Towel Roller
Strongly made of hardwood, mahogany finish. Has screw holes, ready to attach to wall. Length of roller, 17 1/4 inches. Ship. wt., about 1 1/2 lbs.
86C1342—Price, **24c**



Odorless Commode
Galvanized iron. Outside has thin coat of aluminum paint. Removable wooden seat. Cover fits in a groove which forms an air-tight seal when filled with water. A deodorizing cup is attached to cover. Use chloride of lime in the cup as a disinfectant. Height, 12 1/2 in. Diameter, 11 1/2 in. Shipping weight, 8 lbs.
186C1308—Price, **\$1.85**



Wash Basin and Holder
92c
86C1343—Black japanned iron basin holder, soap rack and 11 1/2-inch white enameled wash basin. Holder has bracket for attaching to wall. Ship. wt., about 2 1/2 pounds. Price, **92c**

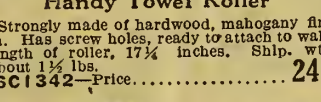


White Enameled Chamber
86C1327


Size	Shp. Wt.	Each
Medium	1 1/2 lbs.	\$0.95
Large	1 1/2 lbs.	1.05



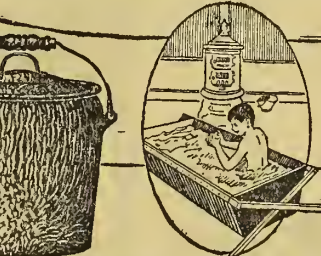
White Douche Pan
86C1345—Best quality white enameled ware. Far more practical than the old style douche pan. Ship. wt., 4 pounds. Price, **\$4.95**



Handy Towel Roller
Strongly made of hardwood, mahogany finish. Has screw holes, ready to attach to wall. Length of roller, 17 1/4 inches. Ship. wt., about 1 1/2 lbs.
86C1342—Price, **24c**



Galvanized Iron Commode
95c
86C1315—Made of heavy galvanized iron, including cover. Size, about 12 qts. Ship. wt., 3 lbs. Each, **95c**



Gray Enameled Combinet
186C1314—Seamless. Covered with durable gray enamel. Has smooth, rolled edge; can be used as pail or chamber. Enameled snugly fitting cover and wood grip ball. Easy to keep clean—sanitary. Capacity, about 12 qts. Ship. wt. about 6 lbs. Each, only **\$2.35**

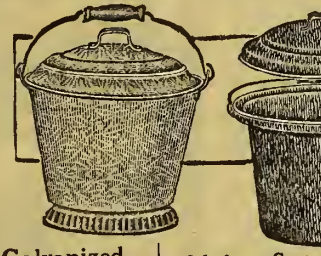


White Enameled Chamber Cover
86C1328

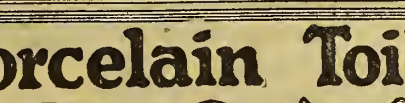
Size	Shp. Wt.	Each
Medium	12 oz.	42c
Large	15 oz.	48c



Gray Enameled Cuspidors
86C1340—Seamless. Removable sanitary cover. Size, 10 1/2x4 1/2 in. Ship. wt., 3 lbs. Price, **\$1.19**



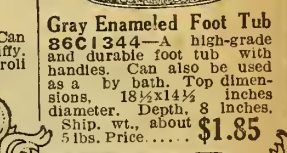
Galvanized Iron Commode
95c
86C1315—Made of heavy galvanized iron, including cover. Size, about 12 qts. Ship. wt., 3 lbs. Each, **95c**



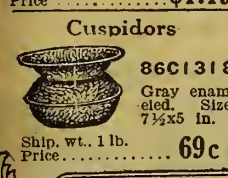
Galvanized Iron Commode
95c
86C1315—Made of heavy galvanized iron, including cover. Size, about 12 qts. Ship. wt., 3 lbs. Each, **95c**



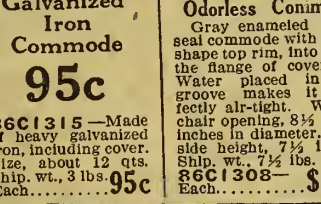
Gray Enameled Combinet
186C1314—Seamless. Covered with durable gray enamel. Has smooth, rolled edge; can be used as pail or chamber. Enameled snugly fitting cover and wood grip ball. Easy to keep clean—sanitary. Capacity, about 12 qts. Ship. wt. about 6 lbs. Each, only **\$2.35**



Gray Enameled Foot Tub
86C1344—A high-grade and durable foot tub with handles. Can also be used as a bath. Top dimensions, 18 1/2x14 1/2 inches diameter. Depth, 8 inches. Ship. wt., about 5 lbs. Price, **\$1.85**



Gray Enameled Cuspidors
86C1318—Gray enameled. Size, 7 1/2x5 in. Ship. wt., 1 lb. Price, **69c**



Galvanized Iron Commode
95c
86C1315—Made of heavy galvanized iron, including cover. Size, about 12 qts. Ship. wt., 3 lbs. Each, **95c**



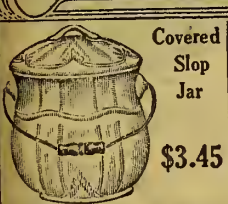
Odorless Commode
Galvanized iron. Outside has thin coat of aluminum paint. Removable wooden seat. Cover fits in a groove which forms an air-tight seal when filled with water. A deodorizing cup is attached to cover. Use chloride of lime in the cup as a disinfectant. Height, 12 1/2 in. Diameter, 11 1/2 in. Shipping weight, 8 lbs.
186C1307—Price, only **\$2.75**



Portable Bath Tubs
Listed on Page 814
Very convenient. Can be emptied in a jiffy. Folds into small roll when not in use.



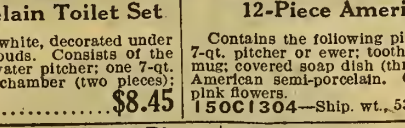
Covered Chamber
Neatly embossed white semi-porcelain. Capacity 4 qts. Ship. wt. 12 lbs.
50C1362—Price, **\$1.69**



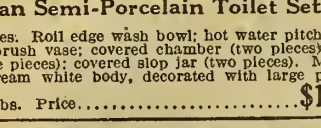
Covered Slop Jar
150C1364—Covered Slop Jar. Wire ball handle. Neatly embossed white semi-porcelain. Height, 12 inches. Capacity, 7 1/2 qts. Ship. wt., 15 lbs. Price, **\$3.45**



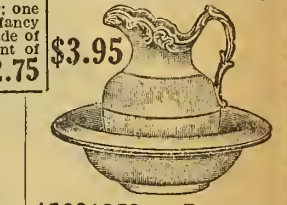
Galvanized Iron Commode
95c
86C1315—Made of heavy galvanized iron, including cover. Size, about 12 qts. Ship. wt., 3 lbs. Each, **95c**



10-Piece American Semi-Porcelain Toilet Set
Made of American Semi-porcelain. Cream white, decorated under glaze with large print of pink flowers and buds. Consists of the following pieces: Roll edge wash bowl; hot water pitcher; one 7-qt. pitcher or ewer; tooth brush vase; covered chamber (two pieces); fancy mug; covered soap dish (three pieces).
150C1303—Ship. wt., 45 lbs. Price, **\$8.45**



12-Piece American Semi-Porcelain Toilet Set
Contains the following pieces. Roll edge wash bowl; hot water pitcher; one 7-qt. pitcher or ewer; tooth brush vase; covered chamber (two pieces); fancy mug; covered soap dish (three pieces); covered slop jar (two pieces). Made of American semi-porcelain. Cream white body, decorated with large print of pink flowers.
150C1304—Ship. wt., 53 lbs. Price, **\$12.75**



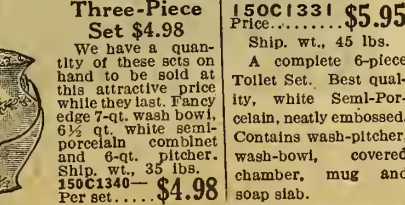
Covered Chamber
Neatly embossed white semi-porcelain. Capacity 4 qts. Ship. wt. 12 lbs.
50C1362—Price, **\$1.69**



Covered Slop Jar
150C1364—Covered Slop Jar. Wire ball handle. Neatly embossed white semi-porcelain. Height, 12 inches. Capacity, 7 1/2 qts. Ship. wt., 15 lbs. Price, **\$3.45**



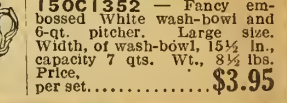
Three-Piece Set
\$4.98
We have a quantity of these sets on hand to be sold at this attractive price while they last. Fancy edge 7-qt. wash bowl, 6 1/2 qt. white semi-porcelain combinet and 6-qt. pitcher. Ship. wt., 35 lbs.
150C1340—Per set, **\$4.98**



150C1331 \$5.95
Price, each
Ship. wt., 45 lbs.
A complete 6-piece Toilet Set. Best quality, white Semi-Porcelain, neatly embossed. Contains wash-pitcher, wash-bowl, covered chamber, mug and soap slab.



150C1352—Fancy embossed white wash-bowl and 6-qt. pitcher. Large size. Width of wash-bowl, 15 1/2 in., capacity 7 qts. Wt., 8 1/2 lbs. Price, **\$3.95** per set.



Covered Chamber
Neatly embossed white semi-porcelain. Capacity 4 qts. Ship. wt. 12 lbs.
50C1362—Price, **\$1.69**

Latest Prices

House Brooms

On account of unsettled market conditions, prices quoted here are subject to change without notice. Send for Grocery catalog for latest prices.

186C329
\$1.75
Set of
3

Ladies' Favorite
Our very best grade house broom. Stained handle. Four-sewed with strong, pure fibre. Only the very finest corn used. The best light broom made. Ship. wt. of three, 6 lbs.
186C325—Three Brooms... **\$2.98**

Fancy Carpet Brooms
Well made of selected broom corn. Four-sewed with durable twine. Maple handles, fancy enameled finish. A durable handsome broom. Ship. wt. of three, 7 lbs.
186C321—Three Brooms... **\$2.69**

No. 1 House Brooms
The Standard House Broom. Well made of good broom corn. Four-sewed with durable twine. No. 1 maple handles. Patent lock finish. A good, strong broom. Ship. wt. of three, 6 lbs.
186C320—Three Brooms... **\$2.10**

No. 2 House Brooms
Will give splendid service. Well made from good quality broom corn. Patent lock finish. Four-sewed with strong twine. Smooth handles. Ship. wt. of three, 6 lbs.
186C329—Three Brooms **\$1.75**



Black Horsehair Floor Brushes

Well made. Excellent for varnished or oiled floors. Oil finished hardwood block with double sockets so brush may be used on either side. Each brush has a 54-in. handle.

Article Number	Size of Brush	Ship. wt.	Price Each
86C402	12 in.	2 1/4 lbs.	\$1.45
86C403	14 in.	2 1/2 lbs.	1.85
86C404	16 in.	2 3/4 lbs.	1.98

Handled Dust Pan



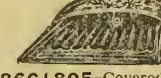
48c

No Bending Over

86C1807—Very convenient. Dust pan raises up automatically—dust can't spread. No bending over. Sweep into it from a standing position. Ship. wt. 1 1/4 lbs.
Price **48c**

Dust Pan

27c



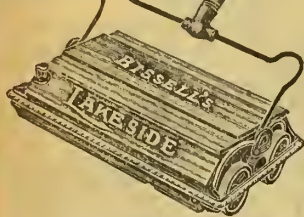
86C1805—Covered back lessens danger of spilling. Ship. wt., 1 lb.
Price... **27c**

Dust Pan



86C1806—Strong and durable. Note reinforced back shown in illustration above. Ship. wt., 1 1/4 lbs.
Each... **45c**

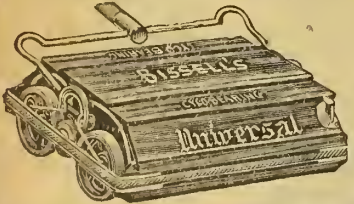
\$4.95



Bissell's Lakeside

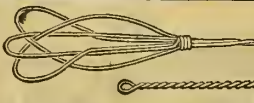
186C464—An easy running, low-priced carpet sweeper that will give splendid service. Mahogany finished case. Has braided covered bumper for protecting furniture. Shipping weight, 8 pounds.
Price... **\$4.95**

Bissell's Cyco-Bearing Universal



\$6.00

A very popular standard model. The standard Cyco bearings operate easily and smoothly. Made of choice cabinet woods, handsomely finished. All metal trimmings are nicely japanned. Has a braided-covered bumper for protecting furniture. Shipping weight, 8 pounds.
186C461
Price... **\$6.00**



Strong Wire Carpet Beater

86C470—Made of steel wire. Will not lose its shape. Strong and durable. Has 6-inch wooden handle. Length over all, 28 inches. Shipping weight, 1 1/2 pounds.
Price, 3 for... **48c**



Radiator Brush

86C422—Handy for cleaning dust from around coils, radiators, steam pipes, etc., where it is ordinarily so hard to reach. Saves much time. Ship. wt., 5 oz.
Each... **18c**

One of the best carpet sweepers manufactured. Strongly made of nicely polished choice woods, with nickel-plated trimmings. Fitted with patent ball bearings. Noiseless and smooth running. Does excellent work. Ship. wt., 8 lbs.
186C460
Price... **\$7.00**

Plug Fits any ordinary Electric Light Socket



She's a Happier Woman Today!

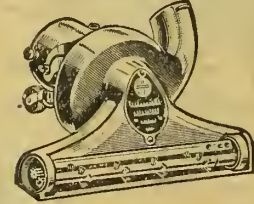
All her rugs looked so lovely and fresh after her honeymoon. Gradually, in spite of the way she worked with the beater and broom, they lost their original beauty. She saw that no other part of her furnishings was subject to so much wear. Feet constantly pounded the nap down, burying dirt deep below the surface. And what labor it took to extract that dirt! How much harm was done to the rugs by continually beating them! Then the miracle occurred! What she had given up as a hopeless proposition turned out to be child's play.

A Lakeside Electric Vacuum Cleaner

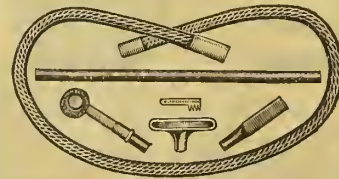
was installed in her home and with a few sweeps across the rugs she did what formerly required hours. Let the Lakeside Vacuum Cleaner solve your cleaning problems. It takes the drudgery out of cleaning, eliminates the unsanitary dust cloud of ordinary sweeping and makes it unnecessary to dust afterwards. It gives your rugs and carpets a genuine air bath and makes them look bright and new. It literally pulls the dirt out of rugs and carpets. The gear-driven brush is durable and dependable—it picks up lint, threads and any other small clinging litter that often has to be picked up by hand. Has 12 1/2 in. nozzle.

86C547—Equipped with motor of 110 volts, 60 cycles. Can be used on either direct or alternating current. Ship. wt., about 15 lbs.
Price... **\$37.85**

186C549—Equipped with motor of 32 volts for homes where Farm Lighting Plants such as the Delco or Powerlite are in use. Ship. wt., about 15 lbs.
Price... **\$38.95**



Equipped with air-cooled motor to be used on either direct or alternating current. The motor uses so little current that the operating cost is very low. Has 17-ft. electric cord. State voltage and cycles when ordering. 105 and 115-volt motors carried in stock. Other voltages can be furnished at a small extra cost.



Lakeside Electric Vacuum Cleaner Attachments

The attachments illustrated are specially designed for the cleaning of bedding, upholstery, draperies, clothing, furs and, in fact, everything about the house above the floor. Make them a part of your cleaning equipment. Length of hose, 8 feet, diameter 1 1/4 in. Ship. wt., about 5 lbs.
186C548—Price, set... **\$8.45**

A Wonderful New House Broom

Made of long-lasting India Palmyra Fibre. Steel bound. Strongly sewed. Unusually sturdy. Will not mar floor. Lasts three times as long as ordinary brooms. Ship. wt., 2 1/2 lbs.
186C322—Price, each... **\$0.84**
Three for... **2.39**

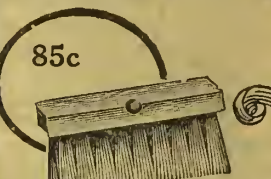
They Outlast Ordinary Broom



Stable Brooms

Extra Stable or Barn Brooms
For barn, sidewalk, factory and heavy sweeping. Tough, selected broom corn is used for outside with rattan center. Three-sewed with heavy twine. Steelbanded. Heavy maple handles. Ship. wt. of two, 6 lbs.
186C334—Two brooms... **\$1.89**

No. 1 Stable or Barn Broom
For all heavy sweeping. Made from tough, heavy broom corn. Three-sewed with heavy twine. Steel bands. Heavy maple handles. Ship. wt. of two, 6 lbs.
186C323—Two Brooms... **\$1.75**



Rattan Push Brooms

186C335—Rattan. 14-in. block (single socket. Handle not included (handles listed below). Ship. wt., 3 lbs. Price, each... **85c**
186C336—Rattan. 16-in. block. Double socket. Handle not included (handles listed below). Ship. wt., 3 lbs. 10 oz. Price, each... **\$1.29**
86C338—Rattan center, fibre outside. 15-in. block. Double socket. Handle not included (handles listed below). Ship. wt., 2 1/2 lbs. Price, each... **\$1.18**

Push Broom Handles

186C339—Push Broom Handles to fit Brooms No. 86C335, 86C336 and 86C338. Length, 4 1/4 ft. Strong and durable. Ship. wt., 1 lb.
Each... **12c**

Shoe Brush

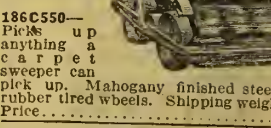
86C426—Shoe polishing brush, with dauber. Well filled with black fibre bristles. Shipping weight, 1 1/4 pounds.
Price... **32c**

Foot Scraper with Two Brushes

86C318—Cleans the bottom and sides of the shoe in one operation. Rust-resisting, japanned frame. Fibre bristles. Width, 6 1/2 inches. Shipping weight, 1 1/2 lbs.
Price... **29c**

Our Kleanwell Carpet Sweeper

186C550—Pick up anything a carpet sweeper can pick up. Mahogany finished steel case, nickel-plated rubber tired wheels. Shipping weight, 5 pounds.
Price... **\$2.85**



Bissell's Grand Rapids



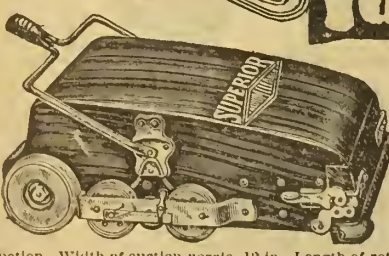
\$7.00

Superior Vacuum Sweeper

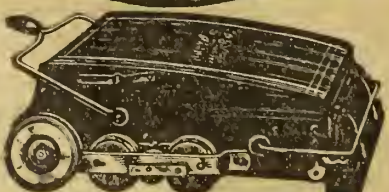
Genuine Mahogany Veneer Hood

\$9.45

It draws out all the fine dirt as well as all the lint and surface dirt. It is the three bellows type, insuring a strong, even and continuous suction. Width of suction nozzle, 12 in. Length of rotary brush 9 in. Brush is made of extra grade bristles and can be thrown out of action by a lever adjustment. Dust bag is easily removed for cleaning. Equipped with the automatic brush adjustment. This device always keeps the brush at the proper height from the floor regardless of the thickness of the rug or carpet being cleaned. Beautifully finished genuine mahogany veneer hood, only 6 in. high, making it easy to clean underneath beds, dressers, etc. A heavy felt pad and rubber bumpers over the front and sides prevent it from marring furniture.
186C448—Shipping weight, 16 1/2 lbs. Price... **\$9.45**



Vacuum Sweepers



Daisy Vacuum Sweeper

A standard sweeper at a low price. It vacuum cleans carpets and rugs and picks up all lint and surface dirt in one operation. Mahogany finished case with nickel-plated trimmings. Height, 6 in. Complete with handle. Ship. wt., 14 1/2 lbs.
186C453—Price... **\$6.45**



Gem All Metal Vacuum Sweeper

\$7.45

This high-grade vacuum sweeper does most efficient work. It has the three bellows type, which insures a strong, even suction. Width of suction nozzle, 12 in. Length of rotary brush, 9 in. Brush is kept at the proper height from the floor, due to the automatic brush adjustment and can be thrown out of action by means of the small lever. The entire case is made of metal, enameled so as to give it the appearance of mahogany. It is only 6 in. high. It will not mar woodwork. It has a felt pad and rubber bumpers over the front and sides. Dust bag is easily removed for cleaning. Ship. wt., about 18 lbs.
186C489—Price... **\$7.45**

Mops, Polishes and Brushes

High-Grade Floor and Furniture Wax

A high-grade wax for polishing furniture, pianos, floors, linoleum, woodwork or automobiles. Apply with a soft cloth, within a few minutes rub to a polish. On the floor or linoleum a weighted floor brush may be used. One pound is sufficient for about 250 square feet, one coat. Dries hard. Does not scratch or mar.

- 86C535—1-pound can. Price.....45c
- 86C536—4-pound can. Price.....\$1.69

Our Extra Fine Dancing Floor Wax

The finest preparation for dancing floors. Comes in powdered form. Easy to apply. Simply sprinkle lightly over the floor—the feet of the dancers do the rest. Will not soil the most delicate fabric. Gives a finish to the floor more serviceable than that obtained from the average wax. Put up in 1-pound sprinkler top cans.

- 86C534—Powdered Dancing Floor Wax. Price, 1-pound can.....45c

Wardway Liquid Floor and Furniture Wax

1 Gallon will Cover 1500 Square Feet

Brings out the grain of the wood and gives floors and interior woodwork a brilliant finish. Very durable. No mixing required. Directions on can. Water-proof.

- 86C537—1-quart can. Ship. wt. 3 lbs. Price.....78c
- 86C538—1/2-gallon can. Ship. wt. 6 1/2 lbs. Price.....\$1.48
- 86C539—1-gallon can. Ship. wt. 10 1/2 lbs. Price.....\$2.45



40c Pint Can
55c Quart Can

Safety Metal and Glass Polish

A cleaner and polish that gives a beautiful burnish and lasting luster to fine brasses, nickel bathroom fixtures, copper utensils, aluminum ware, cut glass, etc. Does not mar or scratch the surfaces. Polishes splendidly. Contains no grit or acids. Pleasant to use and does not mar the hands. Apply with a cloth, sponge or brush, rub briskly and polish immediately with a clean soft cloth or chamolis. Ship. wt., quart size, 3 pounds. 40c

- 86C437—1-Pint Can.....40c
- 86C438—1-Quart Can.....55c

THE HIGH GRADE METAL POLISH

8-oz. Can



Used and recommended by silversmiths. Exceptionally fine for polishing gold, nickel, brass, glass, porcelain, enamel, ivory, etc. Contains no acids.

- 86C397—8-oz. Can. Price.....22c
- 86C398—16-oz. Can. Price.....39c



Windsor Mop Set \$1.78

Keep your floors bright and new with little work. The polish mop used once a week and the dry dustless mop used daily will do it. When dirty the mops can easily be washed out. The adjustable handle always keeps the mop flat on the floor even when cleaning under furniture. Doesn't scratch or mar. Set contains 1 oil mop, 1 dust mop, two long handles and one 8-oz. can oil polish. Ship. wt., about 6 lbs.

Two Mops and Polish 86C363 Ship. wt., about 6 lbs.

BOTTLE OF MOP POLISH INCLUDED



SELF FEEDING

Polish Mop

Polishing Mop

A handy padded mop that reaches into remote corners. It renews the lustre of the floor and does not scratch or mar. Can be washed and renewed with polish. Fitted with adjustable handle to work in all directions. Full instructions furnished. Ship. wt., 3 lbs. 86C360—Price.....89c

Dustless Mop

A chemically treated mop that picks up the dust instead of spreading it. Gives a fresh appearance to painted and varnished surfaces, linoleum, etc. Can be washed with soap and water. The 54-in. handle is adjustable, which keeps the mop flat on the floor at all times. Made of absorbent long-fibre cotton. Ship. wt., 3 lbs. 86C366—Price.....89c

Floor Waxing and Polishing Brush

Used for waxing and polishing floors and linoleums. Iron parts in aluminum finish. Corners and sides protected to prevent marring woodwork. Brush set in solid block. Length of bristles, 7/8 in. Fitted with a 4 1/2 foot handle.

- 86C532—Ship. wt., 15 lbs. Family size, 4 1/2 x 8 1/2 x 3 1/2 in. Each.....\$2.45
- 86C533—Ship. wt., 23 lbs. Large size, 9 x 4 1/2 x 4 in. Each.....\$3.25



Dusting Brushes

A handy household brush. Has 10-in. block and polished handle. Five rows of good quality bristles. Very durable. Length of brush part, 10 in. Shipping weight, 8 ounces. 86C396—Price.....\$1.10

Sanitary Dustless Dusters

Chemically treated to absorb dust instead of scattering it. Made of good quality fibre cotton on a wire frame. Has wooden handle. Total length, 16 inches. A useful article for the home. Shipping weight about 20 ounces. Price, each.....58c

Our Betty Bright Furniture Polish

Your furniture will look beautiful and bright after you polish with Betty Bright Furniture Polish. It takes off dust, dirt, grease, grime, unsightly stains and blemishes.

- 86C2676—Half-Pint Can. Shipping weight, 1 pound. Price.....28c
- 86C2677—Pint Can. Shipping weight, 2 pounds. Price.....35c
- 86C2678—Quart Can. Shipping weight, 4 pounds. Price.....48c

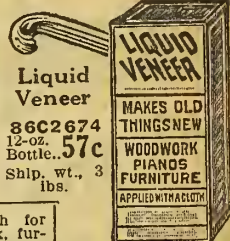
40c



Johnson's Genuine Prepared Wax

The perfect wax polish for floors, linoleum, woodwork, furniture, leather goods, gun stocks, automobiles, etc. Cleans, polishes and finishes in one operation. Gives a beautiful dry glasslike finish—never becomes sticky. Ship. wt., 5 oz. 86C2670—Price, per can.....40c

The Genuine Johnson's Cleaner 86C2671—Per Can.....40c



Liquid Veneer

86C2674 12-oz. Bottle. 57c Ship. wt., 3 lbs.

Liquid Veneer will brilliantly renew, polish and clean with astonishing ease anything with a varnished, japanned or enameled surface.

An Excellent Mop and Furniture Polish

A specially prepared oil polish for renewing oil on polishing mops. An excellent furniture polish as well. Chases gloom from every room. 86C393—1-Quart Can. Ship. wt., 3 lbs. Price.....49c

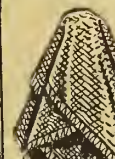


3-in-1 Oil

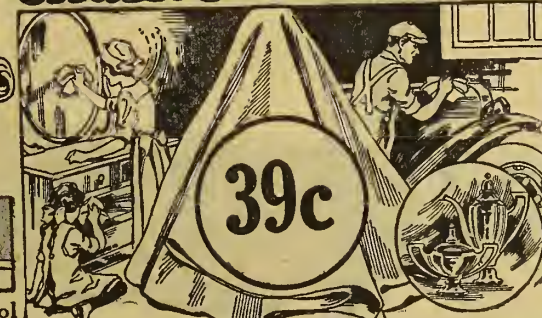
Handy oval can. with self-sealing spout. Can't leak. Contains 3 ounces of oil. Cleans everything—washing machines, bicycles, razors, etc. Shipping weight, 5 ounces. 86C2731—Price.....27c

Dustless Dust Cloths

Chemically treated to pick up dust without spreading it. Sanitary. Dust can be shaken out or retained in the cloth until washed out in warm water. Can be used on the finest furniture. Size, abt. 20x36 in. Ship. wt., of two, 6 oz. 86C372—Price, 2 for.....52c



Chamois Prepared by the French Process

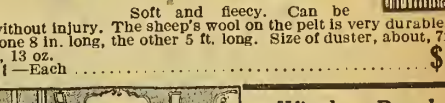


An excellent chamois for cleaning mirrors or any glass ware. Very good for polishing highly finished furniture and automobile bodies. It is tanned and dressed by the French process which makes possible its being washed and cleaned without affecting the original softness. A cleaned, very good quality oil-tanned chamois. Ship. wt., about 4 to 8 ounces.

- 86C560—Size about 11x13 1/2 in. Each.....\$0.39
- 86C561—Size about 13x16 in. Each......65
- 86C562—Size about 15x20 in. Each......89
- 86C563—Size about 18x24 in. Each.....1.45
- 86C564—Size about 23x26 in. Each.....1.98

Wool Wall Duster

Soft and fleecy. Can be washed without injury. The sheep's wool on the felt is very durable. Two handles; one 8 in. long, the other 5 ft. long. Size of duster, about, 7x12 in. Ship. wt., 13 oz. 86C381—Each.....\$1.29



Window Brush

86C413—Much superior to cloth for washing windows. Solid 3-in. back, well filled with 2 1/2-in. soft bristles. Ship. wt., 10 oz. Each.....49c

Handle not furnished. Rubber Window Cleaner 86C1893—Rubber edge, metal frame. Width, 12 in. Has socket for a pole. Pole not furnished. Ship. wt., 1 pound. Each.....24c



Article No.	Size Feathers	Ship. Wt.	Price
86C383	9 1/2 inch	8 oz.	35c
86C384	11 inch	10 oz.	48c
86C385	14 inch	15 oz.	64c

86C386—Extra Fine Parlor Duster. 11-in. feathers. Ship. wt., 12 oz. Each.....89c

Fibre Sink or Closet Brush

86C420—For cleaning sinks, wash basins, bath tubs, etc. Brush made of tough Palmyra fibre. Varnished wooden handle, length, 11 1/2 in. Ship. wt., 12 oz. Price each.....15c

3 for.....42c

Water Closet Brush

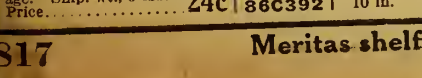
86C421—Sanitary and convenient. Well fitted with inch Palmyra fibre on a long wire frame. Ship. wt., 6 oz. Price, only.....23c

Wizard Carpet Cleaner

A dry compound that absorbs the dirt, cleans and brightens carpets and rugs by ordinary sweeping. Use it every time you sweep. Contains no injurious substances—can be used with perfect safety on the finest carpet or rug. 86C473—42-ounce package. Ship. wt., 3 lbs. Price.....24c



Art. No.	Length of Wool About	Shp. Wt.	Price Each
86C389	6 in.	6 oz.	\$0.45
86C390	7 in.	8 oz.	.67
86C391	8 in.	9 oz.	.87
86C392	10 in.	12 oz.	1.68



Washable Wool Dusters Can safely be used on finest polished furniture or woodwork. Easily washed when soiled. Very soft, long, imported fleecy-dyed wool. Average length of handles, 9 inches.

86C479—12 Cans.....\$2.49

86C480—Price 3 cans.....43c

86C482—Price, 3 packages.....43c

86C478—One Can.....23c

86C479—12 Cans.....\$2.49

86C480—Price 3 cans.....43c

86C482—Price, 3 packages.....43c

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86C478—One Can.....23c

86C479—12 Cans.....\$2.49

86C480—Price 3 cans.....43c

86C482—Price, 3 packages.....43c

86C478—One Can.....

Which Dress Would You Like Next?

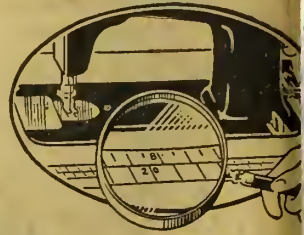


The
Damascus
Grand
Rotary

The making of pretty gowns is fast becoming the most fascinating of hobbies for resourceful women. It gives them a profitable pastime in which they take pleasure in displaying their own individuality. And the easy-running Damascus Grand Rotary Sewing Machine adds much to the ke delight a woman takes in doing her own sewing.

The Easy-Running Rotary Type

It is common knowledge among women and tailors that the rotary is the easiest running machine to be had. A skillfully constructed revolving shaft takes the place of the shuttle, shuttle carrier and shuttle lever of the vibrating machines. This explains its smoothness and silence in operation. And, aside from that, it runs one-third faster than shuttle machines, when so desired.



Our Automatic Tension

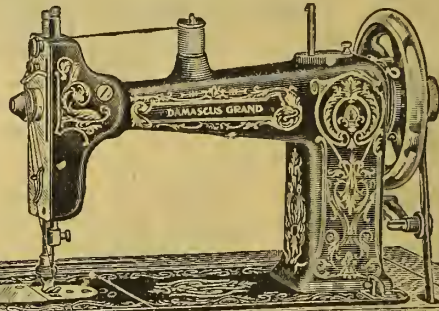
Best sewing results can only be had when fewest possible interruptions are to be contended with. Our automatic tension gives you a perfect stitch without fussing with the tension. No time is wasted in regulating it or goods destroyed by experimenting.

The Automatic Lift



The Measuring Rule

Directly in front of the operator a measuring rule is imprinted. A coat of varnish over this rule protects it from all possibility of being marred. You will appreciate this feature, especially when there is hemming and ruffling to do.

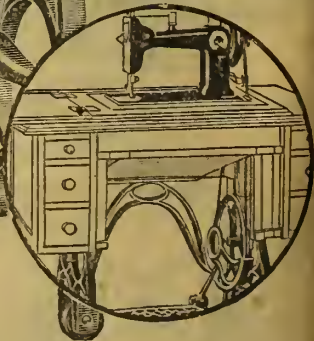


The quickness and ease with which the sewing head can be raised or lowered is another feature you will appreciate. Simply raise the cover, and the head and drop-front swing up into position. When the sewing is done, swing cover back again and the head appears into the walls of the cabinet. Simple as can be. Protects it from dust and dirt.



There is a refinement in the design and a richness in the finish of this cabinet that wins the admiration of those who know good furniture when they see it. It is a masterpiece of the woodcraftsman's art. The cabinet is constructed throughout of the choicest grades of built-up quarter-sawed oak, beautifully finished and treated with a handsome mirror finish, golden oak color. Its plain, straight, graceful lines are dignified and stately. The six extra large drawers are fitted with wooden pulls which add to its appearance.

The large illustration shows the drop-front down, but in actual use it raises (see small illustration below) giving the operator plenty of room for her knees and feet.



\$59⁵⁰

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh or Saint Paul, or from factory in Northern Illinois, according to location of customer.

Shipping weight, 125 pounds.

286C62—Price \$59.50

The Broad Guarantee

For 36 years our Sewing Machines have been giving satisfaction in the hands of our customers. Every Damascus is accurately adjusted, carefully inspected and thoroughly tested with both silk and cotton threads. Just before it leaves our immense factories a certificate of guarantee is enclosed. Should any defects develop in either material or workmanship in a period of twenty years, we will put it in perfect running order without cost to the owner and pay the freight charges both ways.

20 Years

of Satisfactory Service
Guaranteed Each Purchaser
of Our Sewing Machines

Here Is Our 90-Day Trial Offer

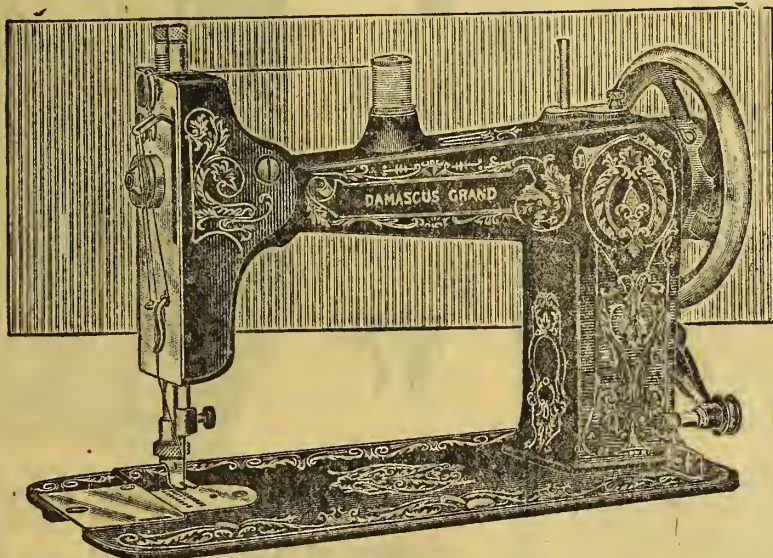
True appreciation of the high merits of our machines cannot be realized until you have actually operated one of them yourself. Order any sewing machine from this catalog that appears to fill your requirements. Then, after 90-Days' trial, return it unless you are fully satisfied with the machine and with the saving you have made by purchasing from us. We will refund the original purchase price and the freight charges as well.

Special Service Department

There are practically no parts on our sewing machines that are likely to break or wear out, yet accidents sometimes occur and, unless you are able to secure the necessary parts, your machine is of little or no use to you. Those purchasing their machines here do so with the positive assurance that extra parts can always be promptly obtained. Every part of the machine is illustrated and described in our instruction book so it will be an easy matter to order any part needed.

We Highly Recommend the Damascus Grand Rotary—Sews $\frac{1}{3}$ Faster than the Average Machine

IN the Damascus Grand Rotary we have a machine that has given us the reputation of being the world's largest single distributors of rotary sewing machines. This is because it is the highest type of machine that can be made. It doesn't clog or break thread and it will do anything that any sewing machine can do, regardless of price or make. Set your own pace—the Damascus Rotary will travel at lightning speed or take a leisurely stride. And it always makes an unbroken line of perfect stitches.



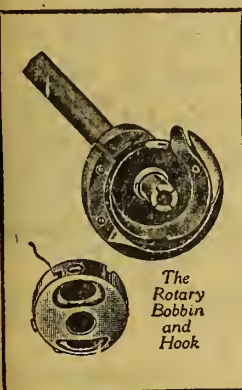
The Sewing Head. The head is high and allows plenty of room for handling bulky materials. It is gracefully shaped and has a baked-on black lustre enamel that cannot peel off. The bright parts are all attractively nickel-plated. The ornamentation is in gold and colors.

The Automatic Lift instantly raises or lowers the sewing head.

Self-Threading. With the exception of the needle, the entire machine is self-threading. You can almost thread it with your eyes shut.

Automatic Take-up does not depend upon springs. The presser bar works perfectly and the force feed is always positive.

The Rotary Principle



The Rotary Bobbin and Hook

The rotary principle makes possible the silent, smooth and swift qualities of the Damascus Grand Rotary. It makes the Double-lock stitch. As the needle passes through the cloth, a small, sharp pointed hook on the end of a revolving shaft catches the upper thread, carrying it around the bobbin. Just one small revolving shaft takes the place of the noisy shuttle, shuttle carrier and shuttle lever of vibrating machines. That's why it runs so smoothly and silently. It is geared higher and runs one-third faster than shuttle machines.

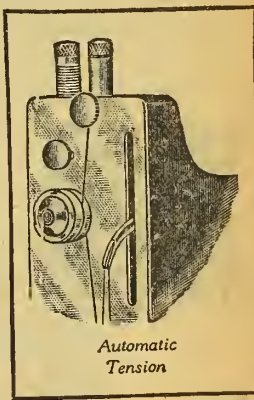
The Automatic Bobbin Winder

The automatic bobbin winder automatically stops winding when the bobbin is filled with thread—there's no danger of breaking the thread. It is fitted with two spool pins, so there is no need to unthread the machine to wind the bobbin. The opening in the bobbin case is large enough to insert your hand to remove or replace the bobbin.

On the Damascus Grand Rotary you secure a perfect stitch without fussing with the tension. You do not have to adjust it for every grade of goods. You waste no time regulating it, do not destroy goods experimenting and escape all other tensions.

The patented automatic tension always insures a perfect stitch, no matter what kind of work you do. It automatically adjusts itself, requiring no attention whatever. You can't realize what a big saving in material, time and temper this is until you try it.

The Automatic Tension



Automatic Tension

Stitch Indicator Regulator

Stitch Regulator



To adjust the length of stitch, you just push the little lever shown in illustration. There it stays—no danger of it becoming loose in the middle of your sewing and spoiling the stitch. There is no thumb screw to fuss with.

Oiling. When kept properly oiled the machine will give the greatest satisfaction. On the Damascus there is nothing to lift or turn when you want to oil it, as the holes for oiling are easily reached from above. Other interesting reasons why you will prefer the Damascus Grand Rotary appear on Pages 818, 820 and 821. Read them.

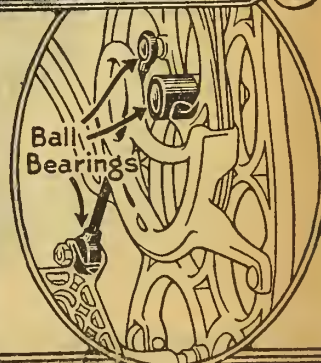
The Ball Bearing Stand

The quietness of this machine proclaims another superiority—its smooth-running qualities.

To match the easy-running Rotary head, a stand has been constructed completely equipped with high-grade ball bearings. Proper arrangement of the stand enables the user to enjoy a restful sitting position at all times.

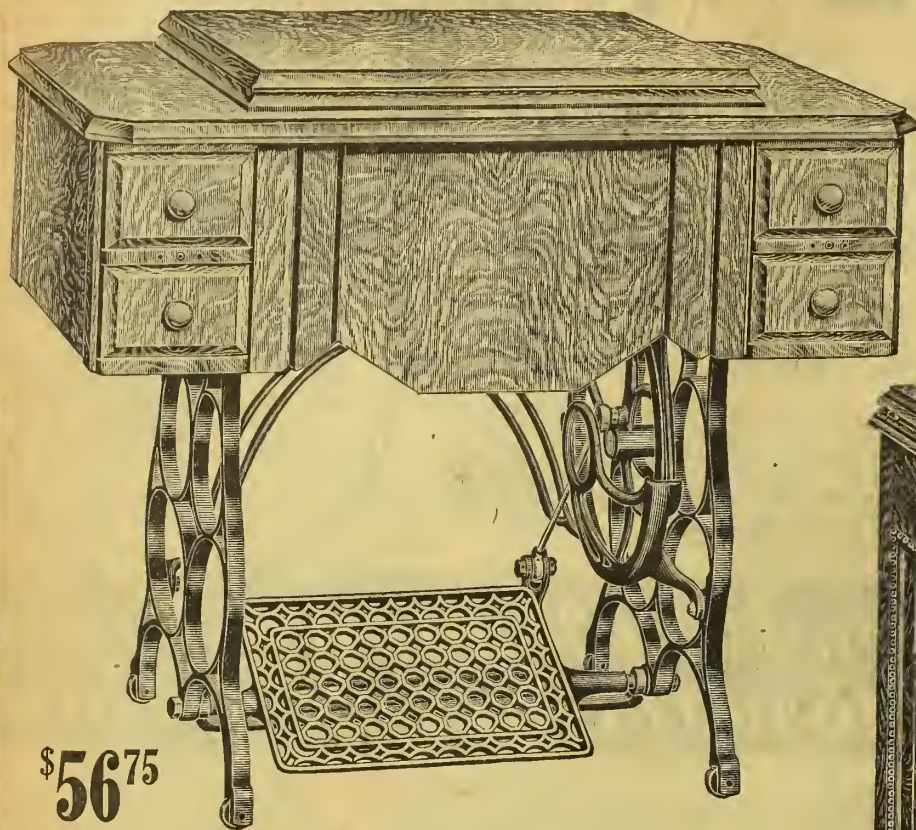
The Flywheel is extra large and the dress guard prevents it from becoming unbelted when the sewing head is let down.

Stand is of finest quality gray iron, well braced. Black enameled. Easy-rolling casters.



Ball Bearings

Damascus Grand Rotary Guarantee for 20 Year



\$56⁷⁵

Has Hand-Rubbed Golden Oak Finish

It was the modern demand for simplicity that lead us to design this attractive model. Today it is a big favorite with our customers, and why shouldn't it be, considering the low price asked?

Built substantially of well-seasoned beautifully figured quarter-sawed oak. The table and drawer frames are solid quartered oak. The top lid, side panels and drop-front or apron are built-up stock. The four deep drawers are fitted with wooden pulls. Large and roomy. As fine a cabinet as you have ever seen.

Particular care has been taken in the construction of that which is invisible to the eye—the mechanism of the sewing head, which you will find to be smooth-running and silent. It is the most popular rotary in use today. For descriptions and illustrations showing the many advantages of the Damascus Grand Rotary, see page 819.

With this machine we send a set of Genuine Greist Attachments. We also furnish a full set of tools. A convenient 18-inch tape measure is printed on the sewing table.

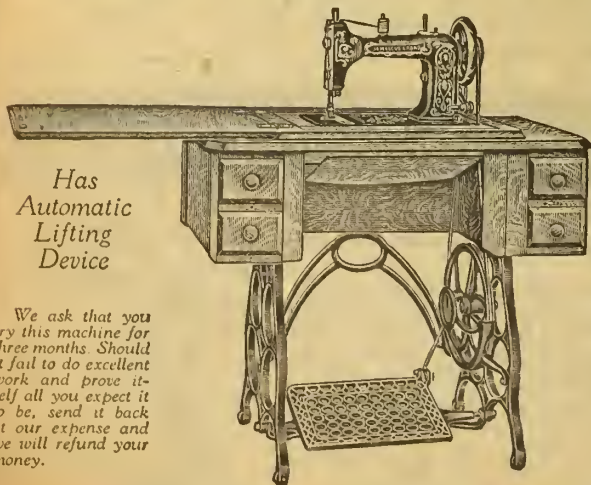
Shipping weight, 125 pounds.



GREIST ATTACHMENTS

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh or Saint Paul, or from factory in Northern Illinois, according to location of customer.

286C60—Price\$56.75



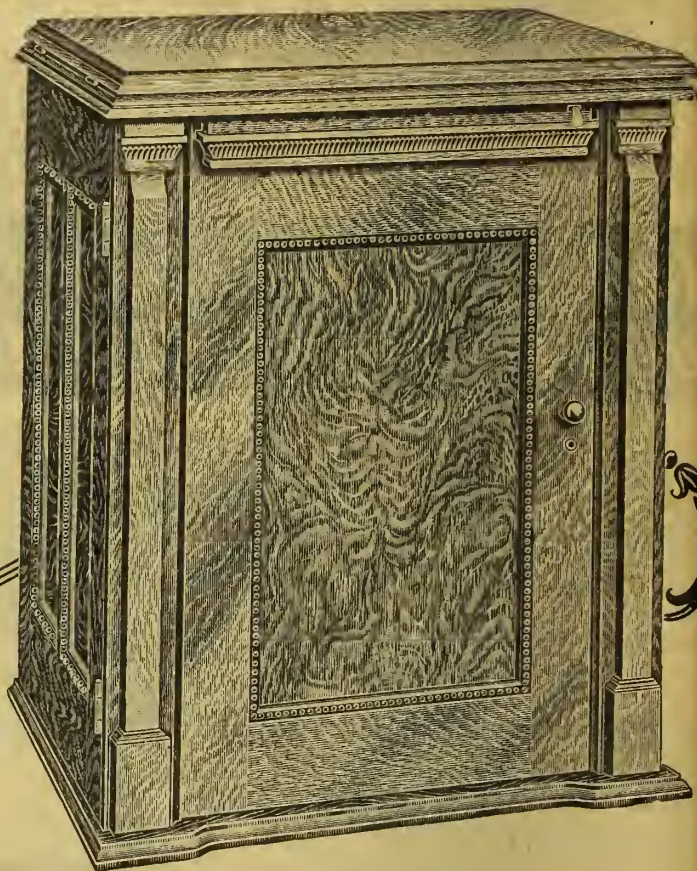
Has Automatic Lifting Device

We ask that you try this machine for three months. Should it fail to do excellent work and prove itself all you expect it to be, send it back at our expense and we will refund your money.

Sh-h! Here's a Secret of Good Dressmaking

True smartness in dress depends most always upon such accessories as the vestee, collar and cuffs. Originality in such accessories forms one of the greatest secrets of good dress-making. Now, charming effects can easily be given your gowns at frequent intervals of time by simply changing them according to the dictates of the season.

The Greist Attachments, furnished with each of our machines, render the making of those artistic touches a positive pleasure; astonishingly easy, too!



\$67⁵⁰

Our Finest Cabinet Machine



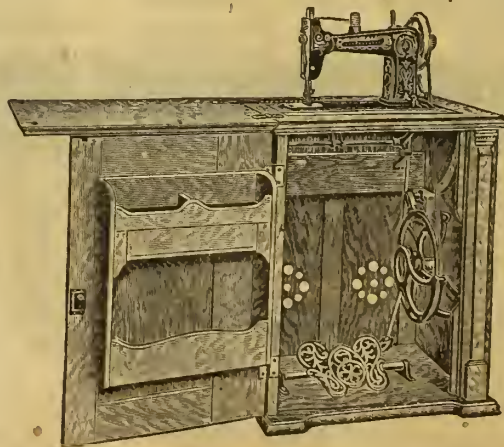
YOU may justly feel proud to show this cabinet to your friends. Will you not so anxious to demonstrate the fine work the machine does, will possibly your visitors would never even suspect that it was anything other than an elegant music cabinet.

You cannot buy a parlor cabinet sewing machine in this style, of quality, workmanship or finish superior to this. The cabinet is constructed throughout of the choicest grade of cross-banded, match quarter-sawed oak, beautifully finished. The pockets (for accessories, etc.,) are constructed of solid stock. The balance of the woodwork

of built-up stock.

The cabinet is fitted with a single full width door, with sunken center panel, ornamented with a neat moulding. Sides are trimmed with heavy square-shaped pillars. Inside of door is fitted with large, quartered oak box, with three pockets and one drawer for holding attachments, patterns, etc.

With each machine we send a set of the best, nickel-plated genuine Greist Attachments for fancy sewing. We also furnish a full set of tools. A convenient 18-inch tape measure is printed on the sewing table. Has the automatic lifting device.



Special thought is evidenced in the construction of the stand. The Foot-Form Treadle gives the feet a secure grip when the machine is in motion. It is accurately balanced, mounted on adjustable steel centers.



FOOT FORM TREADLE

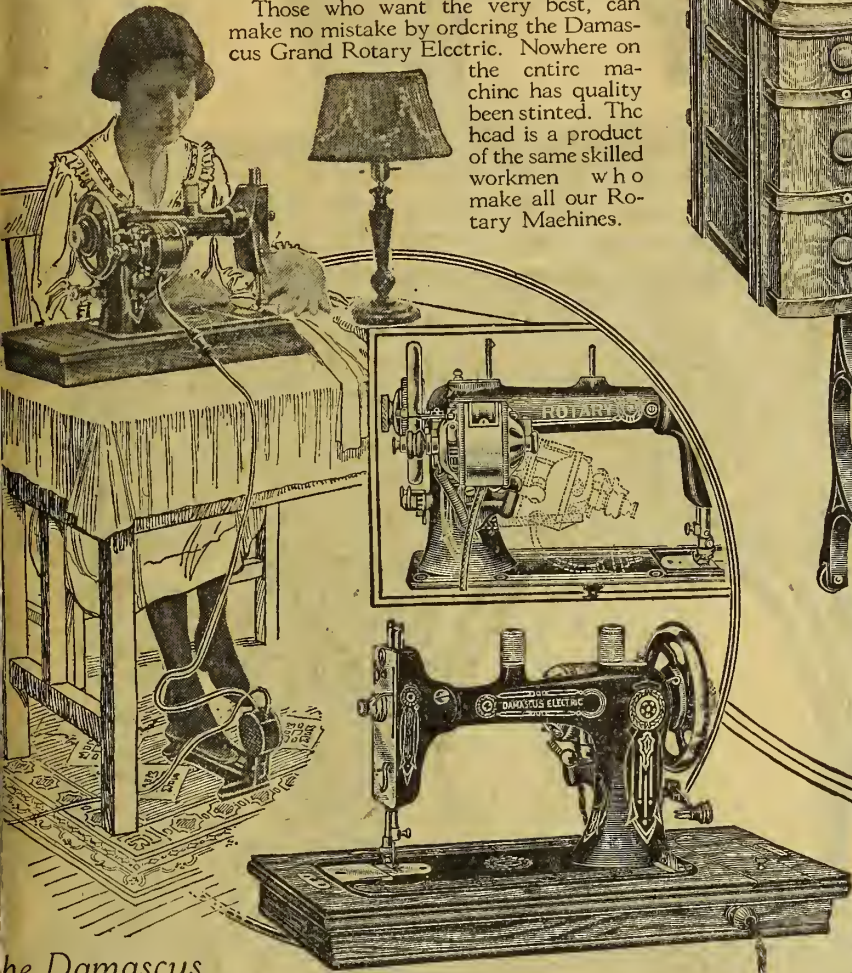
Ample space is provided for the knees of the operator while sewing. Proper ventilation provided by the holes in the back of Cabinet. The Damascus Grand Rotary Head which used on this cabinet is fully described on page 819.

286C63—Price \$67.50
Ship. wt., 125 lbs.

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh or Saint Paul, or from factory in Northern Illinois, according to location of customer.

If You Have Electricity in Your Home
This Is the Machine We Recommend

Those who want the very best, can make no mistake by ordering the Damascus Grand Rotary Electric. Nowhere on the entire machine has quality been stinted. The head is a product of the same skilled workmen who make all our Rotary Machines.



\$57.45

An Attractive 6-Drawer Model

Beauty combined with substantial quality, makes this machine an exceptional value. Where good dressmaking and economy are desired this Damascus Grand Rotary is sure to receive a most hearty welcome.

Design, finish and woodwork leave nothing to be desired especially when one bears in mind that the sewing head is a Damascus Grand Rotary—so famous for its easy-running qualities.

This splendid cabinet is of Genuine Quarter-Sawed Oak, beautifully finished. It has six oak-handled incased drawers—large and roomy.

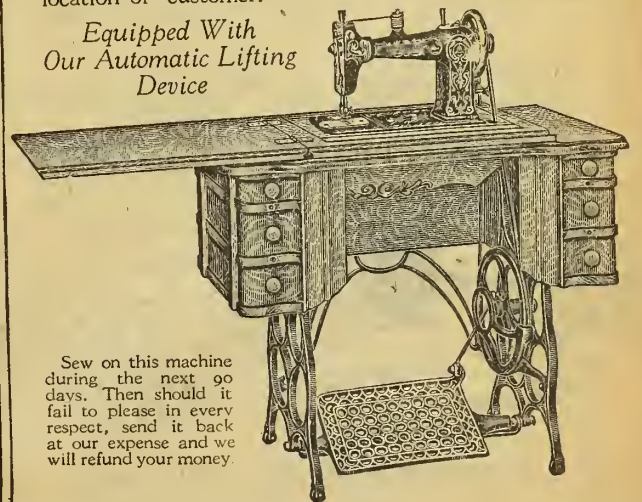
After reading the description of the Damascus Grand Rotary Sewing Head given on page 819, you have some idea of what an unusual product of skilled workmanship the Damascus Grand Rotary is. A convenient 18-inch tape measure is printed on the sewing table.

Shipped complete with a full set of Greist Attachments, supplies and illustrated instruction book.
286C75—Price \$57.45

Shipping weight, 125 pounds.

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.

Equipped With
Our Automatic Lifting
Device



Sew on this machine during the next 90 days. Then should it fail to please in every respect, send it back at our expense and we will refund your money.

The Damascus Electric Grand Rotary

Who could wish for an easier way of sewing? You simply attach the plug any electric light socket, then step on the pedal to start it—press a bit harder to sew faster. All you do is to watch and adjust the sewing. A big or saver. Requires no exertion or strength. There is no strain—no cramped position. It makes sewing easy, comfortable and pleasant—and cheap, too. It runs noiselessly and smoothly. It is fine for the home and a boon for dressmakers. It can be used wherever electric current is available.

Comes complete with all necessary supplies including a set of the best nickel-plated Genuine Greist Attachments in a neat velvet-lined metal case. A book of instructions explains their uses.

Case is made of choice genuine oak in the popular rich golden finish. Equipped with a high-grade nickel-plated electric motor that swings under sewing arm when machine isn't in use. Adapted to direct or alternating current.

And consider its great convenience! Think how handy it is! Can be placed on any table or desk in any room of the house. It can be taken on traveling trips, or is easily carried (see handle) from one room or one house to another. Can be placed on a pantry shelf or any out-of-the-way corner where children can't get at it.



Easily Carried

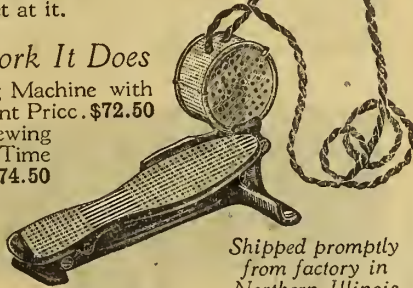
Choice genuine Oak Case

Just Slip
The Plug
Into Any
Electric
Light
Socket

Its Superiority Is Evidenced by the Work It Does

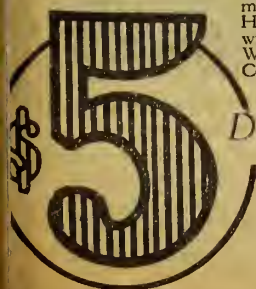
- 6C96—Damascus Grand Rotary Electric Sewing Machine with 110-volt Alternating Current Motor. Time Payment Price. \$72.50
- 6C951—Damascus Grand Rotary Electric Sewing Machine with 32-volt Direct Current Motor. Time Payment Price. \$74.50

Page 819 contains a complete description of the Damascus Grand Rotary Sewing Head. Length of case 14 in.; width, 10 in.; height, 12½ in. Weighs only 35 pounds. Comes with 8 ft. cord. Shipping weight, 60 pounds.



Shipped promptly from factory in Northern Illinois

Down and \$6 a Month Soon Pays for the
Damascus Grand Rotary Electric
Use Special Easy Payment
Order Blank on Page 808



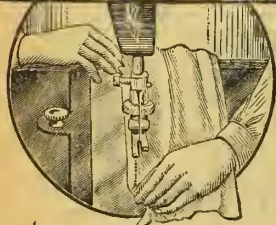
See Details of the
Trial Offer Pg. 8

Damascus Vibrating Shuttle Machines

GUARANTEED
20
YEARS



IMPROVED
PRESSER FOOT
DESCRIBED
BELOW



The Value of
Any Sewing
Machine
Depends on
the Head

No matter how beautiful the woodwork may be, the machine is quite worthless in your hands unless the head is made with the most exacting care. For that reason we call your particular attention to the features responsible for the remarkable performance of the Damascus Vibrating Sewing Machines.

The sewing head on the Damascus is fitted with the exclusive feature of Damascus Machines, the automatic tension, which insures perfect sewing always. This is more fully described in connection with the Damascus Grand Rotary Sewing Head.

The full sized, extra high sewing arm is neat and symmetrical. It provides ample working space underneath for convenient handling of material.

All working parts are made of highest grade steel, carefully hardened in oil and nickel plated to prevent rusting. Bearings are carefully adjusted and properly tempered to minimize friction and assure smooth, easy running.

The self-setting needle is short and sharp pointed. It will not bend or break easily.

You can feed over the thickest seams with ease and without puckering or marring the finest silk or chiffon, because of the improved presser foot (see illustration above). Both prongs extend an equal distance from the needle, as does the roller bearing feed.

Shuttle of Finest Steel

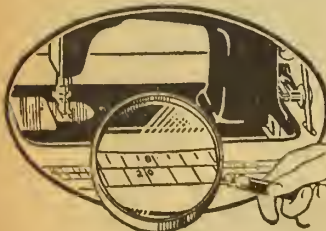
The Shuttle is large size, cylindrical in shape and made of the finest nickel-plated steel. It makes the popular lock stitch, formed from double threads. The upper thread feeds from the needle and the lower one from the bobbin enclosed in the shuttle.

The Stitch-Regulator, which controls the length of the stitch, is operated by a thumb screw sliding in the bed of the machine, near the base of the arm. It is provided with an indicator showing the length of stitch being made.

The Automatic Bobbin Winder, with cam-driven guide, always winds the bobbin evenly.

The Ball Bearing Stand is strongly built, very attractive; it is easy to work and quiet in operation. Made of highest quality gray iron, well braced. Finished in black enamel. Fitted with ease-rolling casters.

A belt-retaining dress guard is also provided, which prevents the machine from becoming unbelted when it is closed.

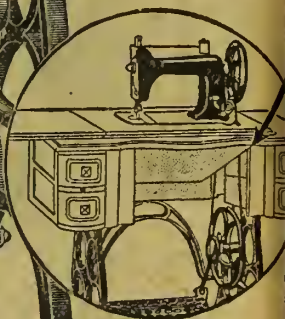


Our Measuring Rule

Directly in front of the operator a measuring rule is imprinted. A coat of varnish over this rule protects it from all possibility of being marred. You will appreciate this feature especially when there is hemming and ruffling to do.

You cannot buy a better constructed or more durable vibrating shuttle type of sewing machine anywhere, no matter what you pay. With the exception of the Damascus Grand Rotary, it is the easiest running machine that we know of. Every part is tested and gauged and fits perfectly.

The large illustration of the drop front down, but in actual use it raises, (see illustration below) giving operator plenty of room for her knees and feet.



Quarter-Sawed Oak Drop Front Model

\$47⁵⁰

A plain, refined design of beautifully figured quarter-sawed oak, treated with a hand-rubbed piano finish, in golden oak color. The sides and table are of plain and quartered oak and the rest is of full quarter-sawed oak. You would choose this one because it is modern and appropriate for the most elaborate home. The illustration shows the drop front down, but in actual use it raises, giving the operator plenty of room for her knees and feet.

The four large roomy drawers are fitted with artistic wooden pulls, and a simple design decorates the fronts of the drawers and drop front, all of which adds materially to the pleasing and harmonious appearance of this cabinet. Has automatic lift. Guaranteed for 20 years. See details of our 90-day trial offer on page 819.

When you buy a sewing machine from us you do so with the positive assurance and guarantee on our part that we are able at all times to furnish any extra parts to replace those worn out or broken by various causes. Do not overlook this important feature.

286C65—Shipping weight, about 120 pounds. Price. **\$47.50**



Closed View of No. 286C65 Damascus

Shipped promptly from stock at Chicago, from warehouses in Pittsburg or Saint Paul or from factory in Northern Illinois, according to location of customer.



GREIST ATTACHMENTS

These Attachments are included with each Machine.

In addition to the usual accessories, which include 12 needles, 6 bobbins, thread cutter, screw driver, gauge, oil can (filled), and illustrated instruction book, we furnish a complete set of highest grade nickel-plated Greist Attachments in a velvet-lined metal case, as follows: Ruffler, tucker, braider, 5 hemmers, special foot, under-braider and shirring slide.

Damascus Vibrating Shuttle

Try a Damascus for 90 Days

Make a dress or two with it. Try it on both heavy and light materials. Use the attachments and see the many pretty things they quickly make. At the end of 90 days, if you do not pronounce the machine entirely satisfactory, return it. We will refund the purchase price and pay the transportation charges both ways.



\$49⁵⁰

Piano Finish Quarter-Sawed Oak—Six Drawers

Different from other cabinets, as the ornamentations are extended in a graceful manner to the sides as well as on the drop front and drawers. Thus, no matter which direction this machine faces, the onlooker is sure to see nothing but a beautifully designed surface of quarter-sawed oak. The six roomy drawers have wooden pulls incased by pleasing designs.

Such a fine cabinet is, indeed, appropriate for this machine as it houses the Damascus Vibrating head. No vibrating machine, regardless of the price, will do work excelling that done by our Damascus. Has the automatic tension which insures a perfect stitch always. You waste no time regulating it and no material is destroyed by faulty stitching. The stand is equipped with ball bearings, causing the treadle and pitman to operate smoothly and silently. To acquaint yourself with its many other advantages read the description of the sewing head on the opposite page.

Furnished with the usual accessories and supplies and a set of the highest grade nickel-plated Greist Attachments. An 18-inch measuring tape is printed on the sewing table.

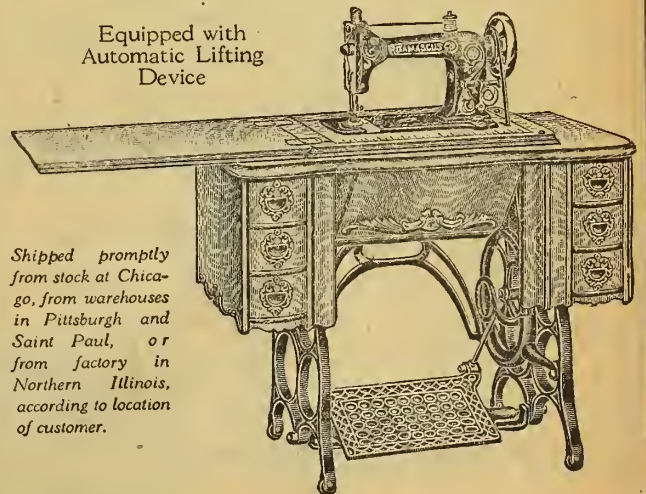


The Automatic Lift

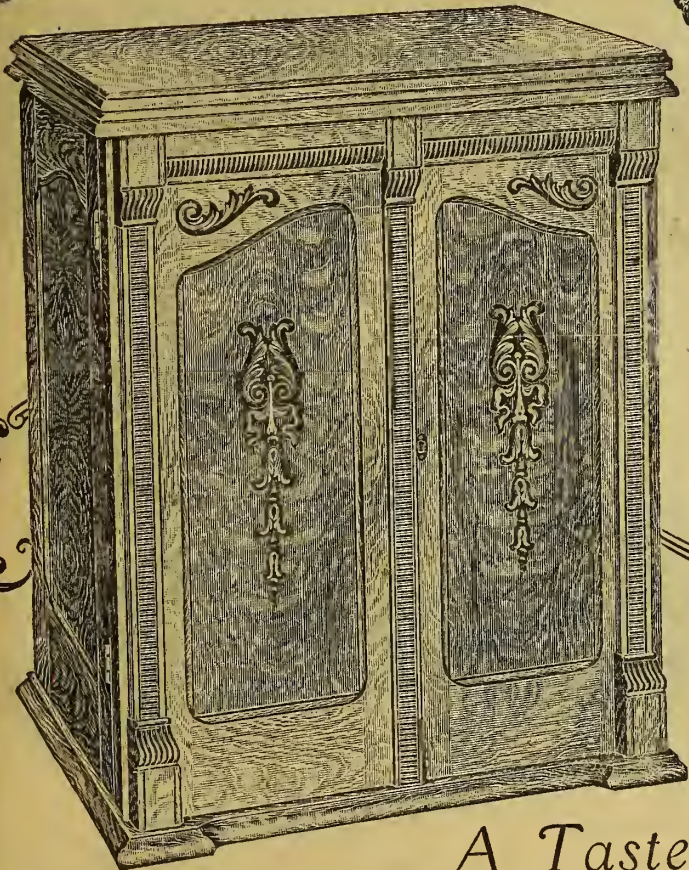
286C129—Price..... \$49.50

Shipping Weight 125 pounds.

Equipped with Automatic Lifting Device



Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.



\$57⁵⁰

A Tastefully Designed Cabinet Machine

Ideal for the room frequented by visitors, as it does not leave to view anything suggesting that it contains a mechanical device. Will harmonize with the finest furniture in your home. Its design and finish are beautiful. It has two doors. The door panels, sides and top lid are made of built-up stock. The remainder of the woodwork is of solid quarter-sawed oak. Handsomely designed, with embossings. Finished in a rich, dark golden oak, rubbed piano finish, top lid being particularly highly polished.

On the inside of each door is a pocket for holding attachments and accessories. The sides and back of cabinet are of a panel design.

The drive wheel runs on improved noiseless ball bearings. The castings are securely anchored to the woodwork and will not become shaky. There is practically no vibration while the machine is at work.

Equipped with the handy automatic lifting device as shown in small cut at right hand part of this page. Has an 18-inch tape measure on sewing table. Furnished with the usual accessories and a full set of highest grade nickel-plated Greist attachments.

A Distinctive Feature

The Foot-Form treadle permits the feet to fit snugly on the treadle; adding to the ease of operation. The treadle is accurately balanced and hung on adjustable steel centers. Ample space is provided for the knees of the operator.

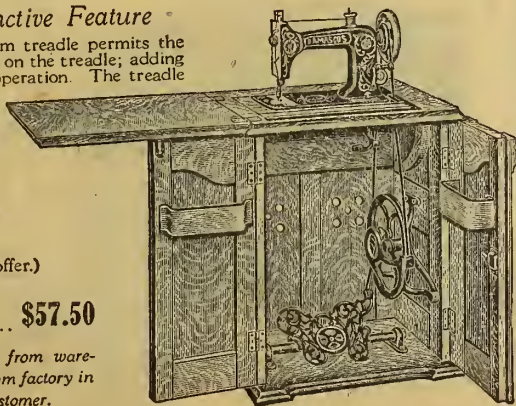


FOOT FORM TREADLE

(See page 819 for details of our trial offer.)
Shipping Weight 150 pounds.

286C71—Price..... \$57.50

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.



Our collar and cuff sets lend neatness and finish to a dress.

Montgomery Ward & Co. Chicago

Windsor B Vibrating Shuttle Machines

See Details of
Trial Offer Pg. 8

GUARANTEED
20
YEARS

Sew in Comfort

P.S.—
Sew on
a Windsor
"B"



All of our sewing machines have the head so arranged in relation to the stand and treadle that a most natural and comfortable sitting posture is enjoyed by the operator.

The Windsor B is equipped with the latest improved type of disc style tension. It is easily adjusted and has given universal satisfaction. The best known machines today are fitted with the disc tension.

The Windsor B also has an extra high sewing arm, insuring comfort and easy handling of bulky materials when sewing. The Automatic Tension Release permits you to draw your sewing from under the presser-foot without beaking the threads or damaging the needle.

The Shuttle is of large size. Cylindrical in shape, made of the finest quality steel, nickel-plated. Fitted with an adjustable steel spring, for regulating the lower tension. It is self-threading.

The Bobbin Winder is automatic in action and insures a perfectly wound bobbin at all times.

The Stitch Regulator, controlling the length of stitch, is operated by a thumb screw sliding in the base of the arm.

Improved Noiseless Ball-Bearing Stand

The Stand is fitted with easy-rolling casters. The Drive Wheel is made extra heavy and is fitted with improved noiseless Ball Bearings, causing the machine to run easily. It is equipped with belt-retaining guard, which prevents the machine from becoming unbelted when it is closed.

The Take-up is positive, another worth-while feature. It has no springs to get out of order. It controls the thread perfectly on every kind of work, insuring even and perfect stitches.

The Needle Bar is round and made of highest grade steel, properly tempered. There are no springs to weaken or cause trouble.

The Needles are self-setting. The shank is flattened on one side and fits snugly into a groove in the needle bar.

The rim of hand wheel, face plate and similar parts are heavily nickel-plated to prevent rust.

If you want a high-grade sewing machine at a low price, equipped with the most modern improvements, then get a Windsor B. It is a strictly high-grade, easy-running sewing machine.

We are able to furnish at all times any extra parts to replace those worn or broken by various causes.



Beaded Panel Design

At this extremely low price, no one need be without a truly high-grade sewing machine. The woodwork on this model is handsomely designed, genuine oak finished in a rich golden oak color. A beaded panel design is shown on the drawer fronts.

The five drawers with their beaded panels and wooden pulls, add to its artistic appearance. The drawer frames are substantially built, with the side pieces mortised in and secured to the sides of the legs with iron clamps. The folding top is made of heavy quarter-sawed oak veneer and does not warp.

The sewing head determines the life of any sewing machine. So confident are we in each Windsor B head, that a written twenty-year guarantee of satisfaction accompanies each machine as it leaves the factory. Has such modern conveniences as the automatic tension release and new disc tension.

A Set of Genuine Greist Attachments Are Included

With each machine we send a complete outfit—a set of the best nickel-plated genuine Greist attachments in a neat velvet-lined metal case. With these you can do most any kind of sewing. We also furnish a full set of tools, accessories and an instruction book.

Our liberal 90-day trial offer is explained on Page 819.

286C73—Price..... **\$39.45**

Shipping weight, 110 pounds.

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.



Showing Closed View of No. 286C73

Has secret drawer in the front of the machine. Forms a convenient hiding place for needles, etc. In this drawer special slots are provided for the extra bobbins which we include with each Windsor B.

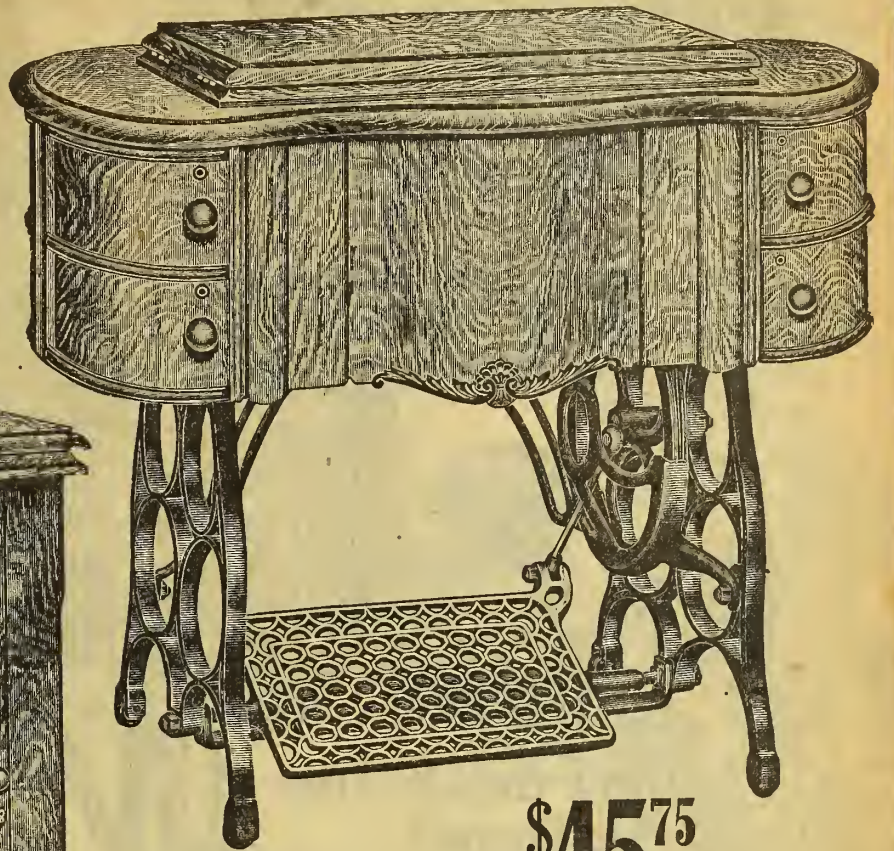


GREIST ATTACHMENTS

Uninterrupted Service
Assured all Purchasers

When you buy a sewing machine from us, you do so with the positive assurance and guarantee on our part that we are able at all times to furnish any extra parts to replace those worn out or broken by various causes. Do not overlook this important feature.

Windsor B Vibrating Shuttle



\$45⁷⁵

Our Martha Washington Four-Drawer Model

A Martha Washington style cabinet with gracefully curved drawers. Made of beautifully figured quarter-sawed oak, finished in a rich dark golden oak color. The table (with curved front), table frame, drawer frames and head frame are made of solid stock, veneered with quartered oak. Drop front is decorated with an embossed border. Solid brass pulls add to the attractiveness of the roomy drawers. With this Windsor B machine we send a set of the best nickel-plated Greist attachments in a neat velvet-lined metal case. A full set of tools is also furnished and a convenient 18-inch tape measure is printed on the sewing table. Equipped with the automatic lifting device which automatically places the head in position whenever the top lid is lifted. Has the latest improvements to be had in Windsor B machines. A good all around machine at a decidedly low price. Guaranteed for 20 years. We are able at all times to furnish any extra parts that may be required on any of our sewing machines. Sold on 90 Days' Trial.

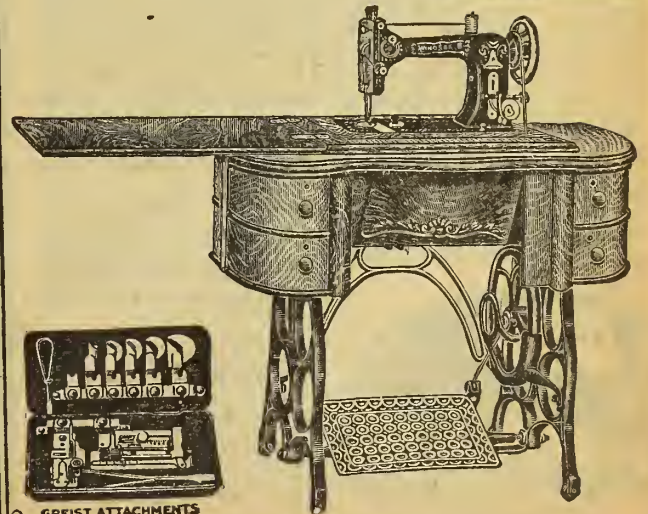
For details of our Trial Offer, see page 819.

286C78—4-Drawer Model.

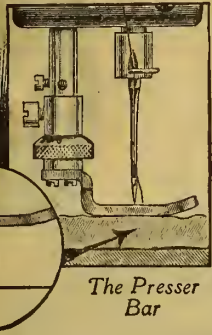
Price..... **\$45.75**

Ship. wt., 120 lbs.

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.

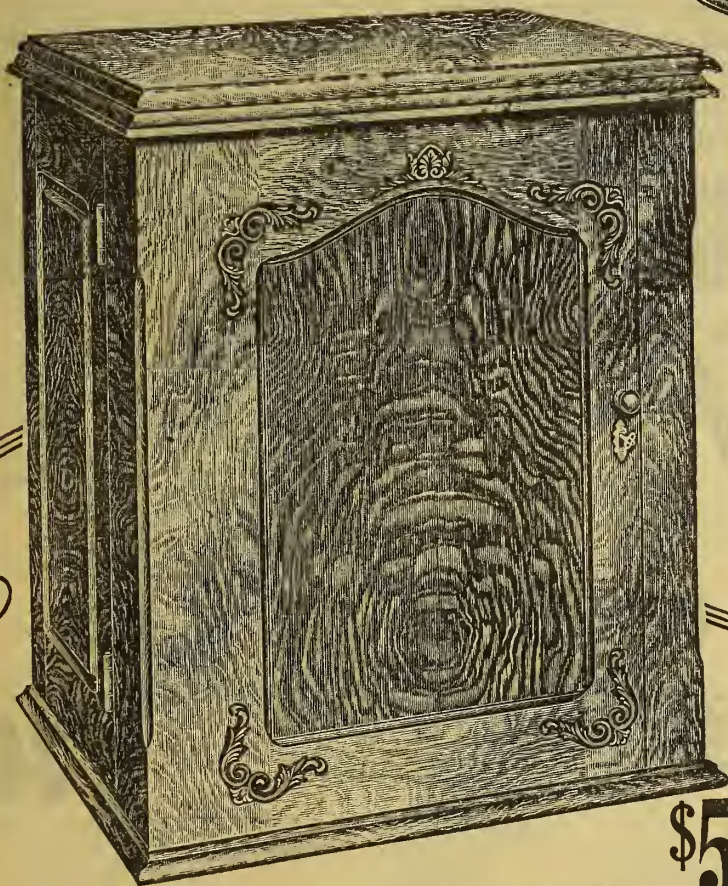


GREIST ATTACHMENTS



The Presser Bar

The Presser Bar is fitted with a cap-covered spring, and is quickly and easily adjusted to different thicknesses of materials. Illustration to right shows material $\frac{3}{8}$ -inch in thickness being sewed. The Presser Foot extends on both sides of the needle. It holds the goods firmly in place. The Feed is positive in action, being operated and controlled by the main shaft. Cannot get out of order, as no springs are used.



\$54⁷⁵

Rich Golden Oak Cabinet Type

Finished in an attractive golden oak color. The top lid, front and side panels are full quartered oak. The rest of the cabinet is solid stock. A quartered oak pocket for holding attachments, etc. is fitted to the inside of door. The Drive Wheel runs on improved noiseless ball bearings. The treadle is accurately balanced and mounted on adjustable steel centers. All castings are securely anchored to the woodwork and will not work loose. There is hardly any vibration while the machine is in operation. Plenty of space for the knees while sewing. For a low priced parlor cabinet sewing machine, this Windsor B Model is, indeed, an excellent one. It does splendid sewing. When not in use, it can be closed, making an attractive desk or phonograph stand. Fitted with automatic lifting device. Has excellent Windsor B sewing head, which is described in detail on the opposite page. Guaranteed for 20 years, sold on 90 days' trial. For details of trial offer see page 819.

286C93—Price Complete..... **\$54.75**

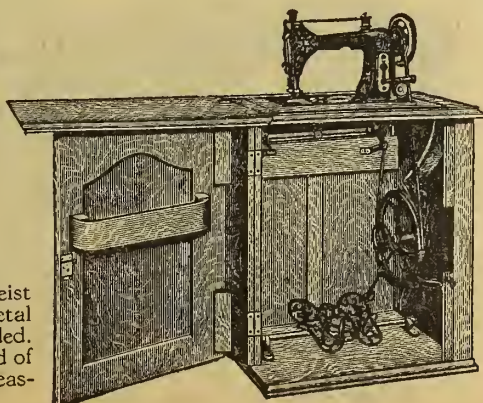
Shipping weight, 140 pounds.

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.



FOOT FORM TREADLE

The Foot Form Treadle permits the feet to fit snugly on the treadle; gives them a sure grip, adding to the ease of operation.



Genuine Greist Attachments

A set of the best nickel-plated Greist attachments in a neat velvet-lined metal case and a full set of supplies are included. With these you can do almost any kind of sewing. A convenient 18-inch tape measure is printed on the sewing table.

See Details of the
Trial Offer Pg. 8

Brunswick Vibrating Shuttle Machines

GUARANTEED
20
YEARS



How the Children Do Grow!

New dresses needed all the time! Did it ever occur to you how very quickly a sewing machine would pay for itself in the home where there are growing children? Yes, and when they are all grown up the savings become more noticeable than ever.

Our low-priced Brunswick machines meet every requirement of the modern home. They are not equal in workmanship to our highest priced models, but will do excellent work and satisfy in every particular. They run easily and make the double lock stitch, a stitch that is even and perfect. The working parts are of fine quality steel which, with proper care, will last a lifetime. The well proportioned Sewing Head is the high arm pattern, allowing easy handling of bulky materials. Rim of balance wheel, face plate, shuttle slides, presser bar, etc., are heavily nickel-plated.

The Needle Bar is Round. Made of highest grade steel. Fits perfectly. Positive in action. No springs to cause trouble. The Needles are Self-Setting. The shank is flattened on one side. It fits snugly into a groove in the needle bar. The Presser Bar is Round. Fitted with a cap-covered spring. Quickly and easily adjustable to different thicknesses of materials. The Presser Foot extends on both sides of the needle. It holds the goods firmly in place. The Feed is positive in action. It is operated and controlled by the main shaft. No springs used.

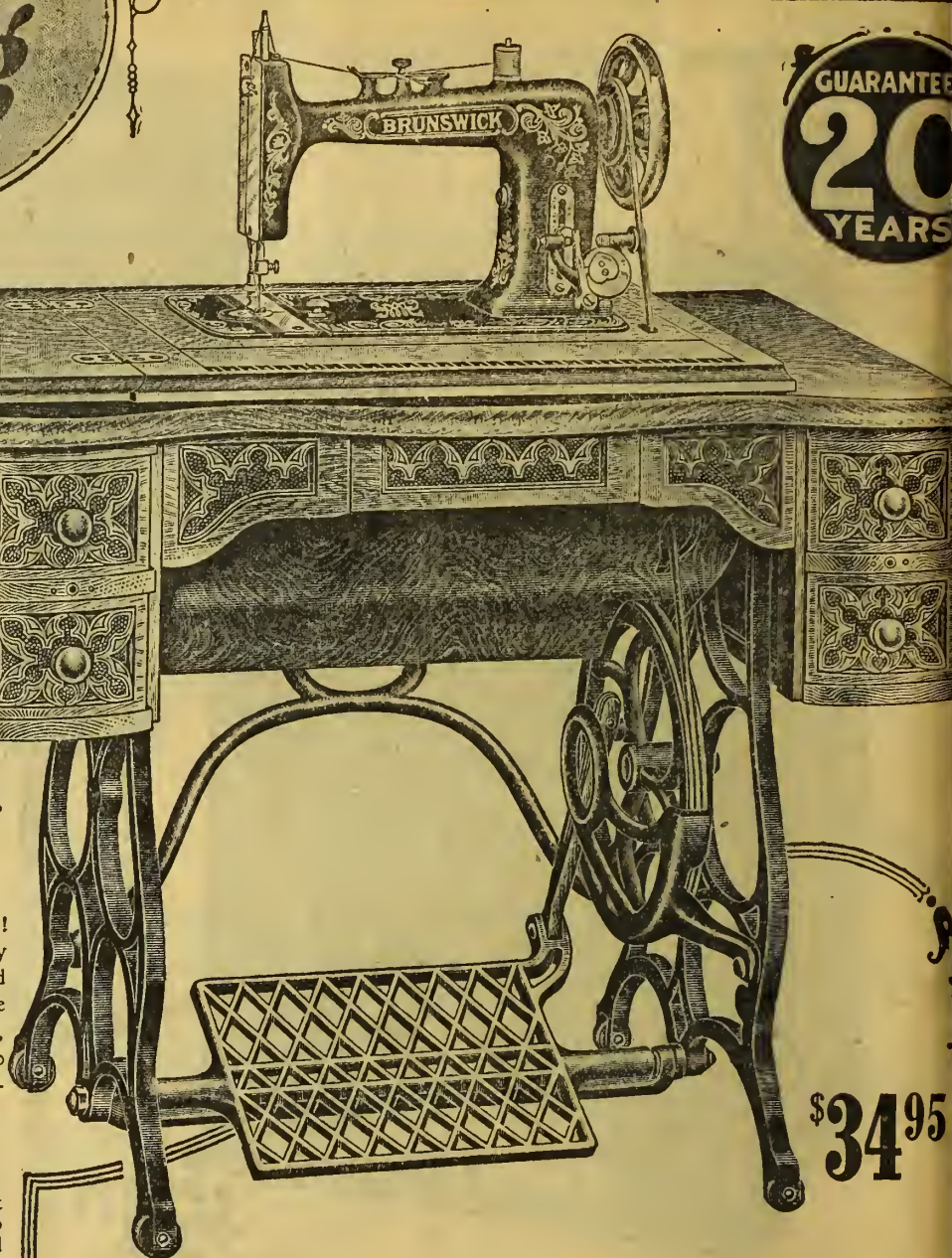
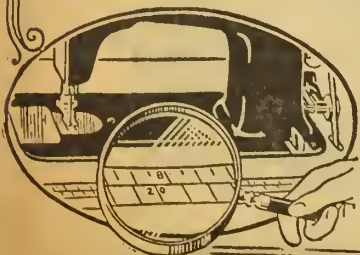
The Take-Up will control the thread perfectly. The Shuttle is self-threading, cylindrical in shape. Made of the highest grade steel. It is easily removed from the carrier for inserting the bobbin. The Shuttle Carrier holds the shuttle firmly in place by means of a spring lining and prevents it from rattling when the machine is in operation. The Tension, with convenient release, is placed on top of the sewing arm. The pressure on the thread can be regulated by a thumb screw. Has automatic Bobbin Winder and Stitch Regulator. All Bearings are of hardened steel, properly fitted to minimize friction.

Noiseless Ball-Bearing Drive Wheel

The Drive Wheel is made extra heavy and fitted with improved noiseless Ball Bearings, causing the machine to run easily. Equipped with belt-retaining wheel or dress guard.

The Convenient Measuring Rule

Directly in front of the operator a measuring rule is imprinted. A coat of varnish over this rule protects it from all possibility of being marred. You will appreciate this feature especially when there is hemming and ruffling to do.



\$34⁹⁵

Our Low-Priced Genuine Oak Brunswick Machine

The woodwork is of an attractive design, the kind generally seen on much higher-priced machines. It has a solid plain oak frame and the top lid is of heavy built-up, quarter-sawed oak, handsomely finished in a dark golden oak color. Ornamented with tasteful designs, the drawers being fitted with neat wooden pulls. The table has a scalloped front. Not equipped with the automatic lift, but has all other improvements. So popular has this model grown to be that we now offer it in two styles, with five or seven drawers, thus providing for the varying requirements of the women who do much sewing.

With each machine we send a Complete Outfit—a set of the best nickel-plated Genuine Greist Attachments in a neat velvet-lined metal case, and a full set of tools, and supplies. With these you can do almost every kind of sewing. A convenient 18-inch tape measure is printed on the sewing table. (See page 819 for details of Trial Offer). Shipping weight, 120 pounds.

286C83—7-Drawer Model. Price \$36.45
286C84—5-Drawer Model. Price 34.95

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.



Our Seven-Drawer Brunswick, No. 286C83.

This model has a special drawer in the front of the machine. Provision is made for extra bobbins in the slots, which illustration to the right shows. Also forms a convenient hiding place to needles, etc.

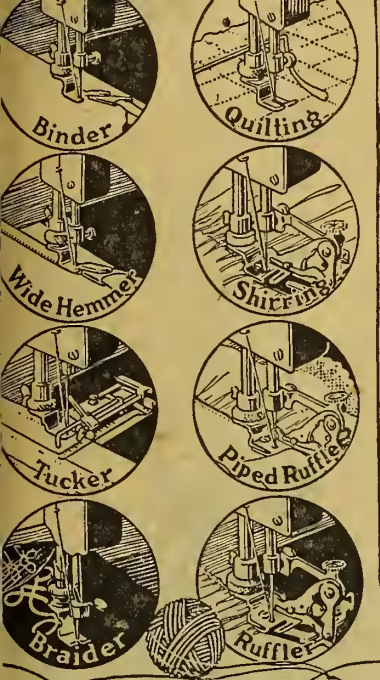


Our Service Department

When you buy a sewing machine from us, you do so with the positive assurance and guarantee on our part that we are able at all times to furnish any extra parts to replace those worn out or broken by various causes. Do not overlook this important feature.

Brunswick Vibrating Shuttle

Some of the Things
GREIST
attachments
Will Make
for You



\$40.45 A Splendid Investment
at this Low Price

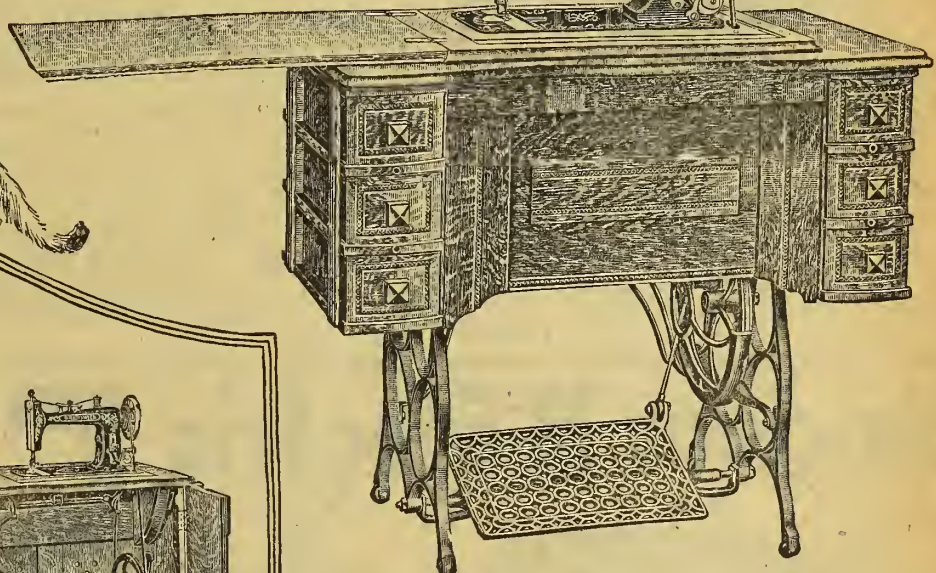
This splendid new model wins favor wherever shown. The neat designs on the serpentine front stand out attractively and the entire effect is enhanced by the golden finish of the quarter-sawed oak wood work.

A drop-front, such as this model has, greatly improves the appearance of the machine when not in use. It swings up completely out of the way when the sewing head is raised by means of its automatic lift. Has four drawers, one of which contains a complete set of Greist Attachments in a neat velvet lined metal box.

The improvements in construction which the Brunswick Sewing Head gives you are dwelt upon in detail on page 826. We recommend this model as a splendid value.

See page 819 for details of Trial Offer.
286C98—Price **\$40.45**
Shipping weight, 115 pounds.

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois.

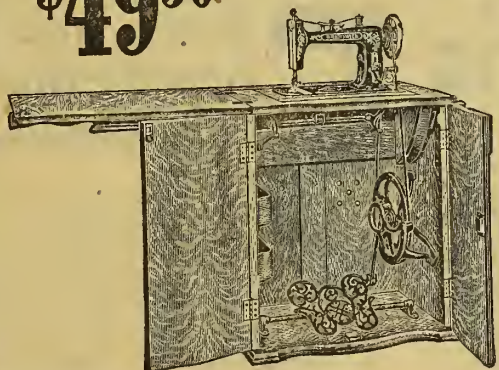


Brunswick
Cabinet Machine
An Excellent Value

Only \$49.50 for this handsome model and guaranteed for 20 years. This means that for less than \$3.00 a year during the life of our guarantee you will be enjoying the savings this handsome machine leaves for you.

Substantially built of golden oak in a beautifully bright golden oak color, hand-rubbed finish. The double doors, top lid and top rail are constructed of built-up quarter-sawed oak. The rest of the cabinet is made of solid oak. Curved front doors. Top, center and side pieces are ornamented with fancy moldings. Two solid oak pockets are provided on the inside, for holding accessories, attachments, etc.

\$49.50



Fitted with casters. Folding top of the machine has automatic lifting device. The ball bearing wheel and the treadle are securely attached to the frame and will not work loose when operated. Complete set of Greist Attachments included.

Complete description of Sewing Head given on page 826.



The Foot Form Treadle gives the feet a firm grip, adding to the ease of operation.
286C86—Ship. wt., 135 pounds.
Price.. **\$49.50**

Shipped promptly from stock at Chicago, from warehouses in Pittsburgh and Saint Paul, or from factory in Northern Illinois, according to location of customer.

\$41.50 Quarter-Sawed
Oak—6 Drawers

Here is an opportunity to secure a high-grade cabinet in a plain, graceful design, equipped with the genuine Brunswick head. It is sure to win your admiration at once. Beautifully grained and finished quarter-sawed oak in the rich golden finish which is so popular just now. A new beaded panel design decorates the drawer fronts and drop-front. The illustration shows the drop-front down, but in actual use it raises so that there is plenty of room for the knees and feet.

Fitted with the automatic lift which instantly raises or lowers the head. Complete set of Greist Attachments included.

See Page 819 for details of our Trial Offer.
Complete description of Sewing Head given on Page 826.

286C87—Ship. wt., 130 lbs. Price..... **\$41.50**
Shipped promptly from stock at Chicago, warehouses in Pittsburgh or Saint Paul, or from factory in Northern Illinois, according to location of customer.

The Automatic Lift

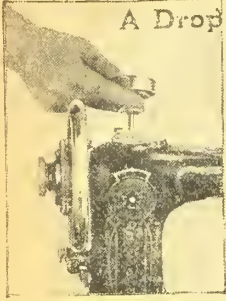
The quickness and ease with which the sewing head can be raised or lowered is another feature you will appreciate. Simply raise the cover, and the head and drop-front swing up into position. When the sewing is done, swing the cover back again and the head disappears into the walls of the cabinet.

Simple as can be! Protects it from dust and dirt. The illustration shows the drop-front down, but in actual use it raises, giving the operator plenty of room for her knees and feet.



Supplies for Your Sewing Machine

Nickel-Plated Steel Greist Attachments



A Drop of Oil—

Keep your Sewing Machine running like new; a little oil will do it. This is very important to insure satisfactory service from your machine, regardless of the price or make. Oil as often as there is any indication of dryness. The places requiring oil are clearly indicated on all of our machines.

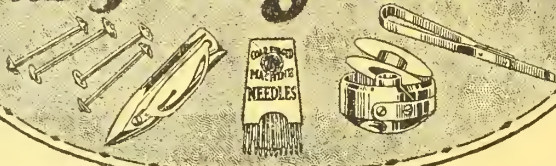
Sewing Machine Oil

A very high-grade oil—absolutely stainless.
86C118—4-oz. bottle. Shipping weight, 12 oz. **\$0.18**
 Each
86C119—1 doz. 4-oz. bottles **1.98**

We can furnish extra parts and supplies for not only every sewing machine we have sold in the past, but for any other make, provided it is still being manufactured.

Note In ordering parts for any one of our machines, it is absolutely necessary for us to have the name and number of the machine. By number we mean not only the number of the article in our catalogue, but also the machine number. The latter you will find on your guarantee, also underneath the front shuttle slide on all vibrating shuttle machines or on the base of the sewing arm of our rotary models.

In the instruction book, which we furnish with all of our machines, you will find complete lists of the various parts and their prices.



Sewing Machine Needles

There is no such thing as a universal needle. If you do not use a needle made for your machine, the machine cannot do good sewing. Our needles are of the highest quality, properly tempered and pointed and of superior finish. They are especially made for the machines they are to be used with.

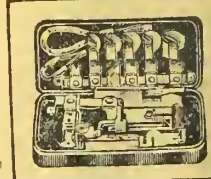
Be sure to send sample (pinned to a piece of cardboard or cloth to prevent loss in transit), to insure proper match.

We also furnish needles for machines of all other makes but must have samples and name of machine to fill orders correctly.

We always prefer to have you give us the name and number of machine, when you place an order for needles, as we are then enabled to send exactly what is wanted.

86C100—Sewing Machine Needles (all makes).
 Per dozen (postage, 2c per dozen) **32c**

We carry only the highest grade of genuine Greist Attachments, put up in a velvet-lined metal box. When ordering state name of machine they are to be used on. Ship. wt., about 1 lb.



86C124—For Vibrating Shuttle Machine. **\$1.50**
 Price, postpaid
86C123—For Rotary Machine. Price, postpaid **2.25**

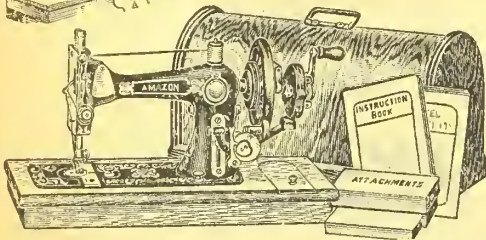
Prices on the following accessories are for our machines only. We can furnish same for all makes of machines, but prices will vary.

86C101 —Bobbins (long cylinder shuttle). Per dozen 60c	86C112 —Small Sewer Driver, Each 1.00
86C102 —Bobbins (round rotary shuttle). Four for 60c	86C110 —Spooler Rubbers (all makes) Each 50c
86C103 —Long Cylinder Shuttle. Price \$1.25	86C104 —Rotary Bobbin Case, Each \$1.25
86C105 —Ruffler 50c	86C106 —Tucker 50c
86C107 —Needle Plate. Each 23c	86C108 —Bobbin Winder, Each \$1.25
86C109 —Belts (all makes) Each 22c	86C111 —Large Sewer Driver, Each 50c
	86C113 —Oil Can, Each 80c

When ordering repair parts for machines other than our we require the name of the machine and sample of the broke parts. You will find our charges to be very reasonable.



Amazon Hand Sewing Machine



Our Amazon Hand Sewing Machine is intended for those who are unable to use a machine propelled by the foot. Easily carried about in handled oak case which is locked over machine when not in use.

Construction of head is similar to that of the Windsor B, description of which will be found on page 824. The Amazon model is fitted and geared for running by hand power and makes three stitches with one turn of the handle. Complete with attachments. Ship. wt., 40 lbs. **\$25.50**

186C91—Price **\$25.50**

Guaranteed for 5 Years The Oakland Sewing Machine

Our Low-Priced Sewing Machine



An excellent value at the price. Of course, it is not as well made as our Brunswick model, nor does it run as easily. Unlike our other machines it is guaranteed for five years instead of 20 years from date of purchase against defects in workmanship or material. The sewing head is substantially built, enameled in black and nicely decorated. The automatic bobbin winder is of the same construction as on our highest priced machines. The stand is of round iron, black enameled.

Cabinet is finished in oak and has five drawers. Fitted with self-setting needle and self-threading shuttle. Not fitted with automatic lift. Furnished with complete tools. (See page 819 for details of our Trial Offer.)

186C89—Oakland Sewing Machine without Greist Attachments. Ship. wt., 106 lbs. Price **\$31.45**
186C90—Same as above with Greist Attachments. Price **\$32.45**
 Shipped promptly from stock at Chicago.

Electric Motors for Our Sewing Machines

Any sewing machine listed on the preceding pages, which is operated with a treadle, can be converted into an electric machine by simply attaching one of our inexpensive motors, shown on page 662 of this catalog.

Windsor B Electric

Down and \$5 A Month So Pays for this Great Money Saver

Makes Dressmaking a Delightful Pastime

\$5

So simple and easy is it to sew on the Windsor B that sewing becomes a delightful pastime. Simply attach the plug to any electric light socket. Step on the pedal to start it, press a little further to sew faster. No exertion—and your rested condition enables you to do more and better sewing.

Use it wherever it is most convenient for you and where the light is best. A handle on the carrying case enables you to carry it about with ease as though it were a suit case. Place it on any table—pads on the bottom of the stand prevent it from marring the furniture.

And when your sewing is completed, leave the Windsor B on a shelf or in the clothes closet. Never in the way, but always ready to go wherever duty may require.

Measures only 19 in. in length; 9 in. in width and 13 in. in height. Actual weight is only 30 pounds.

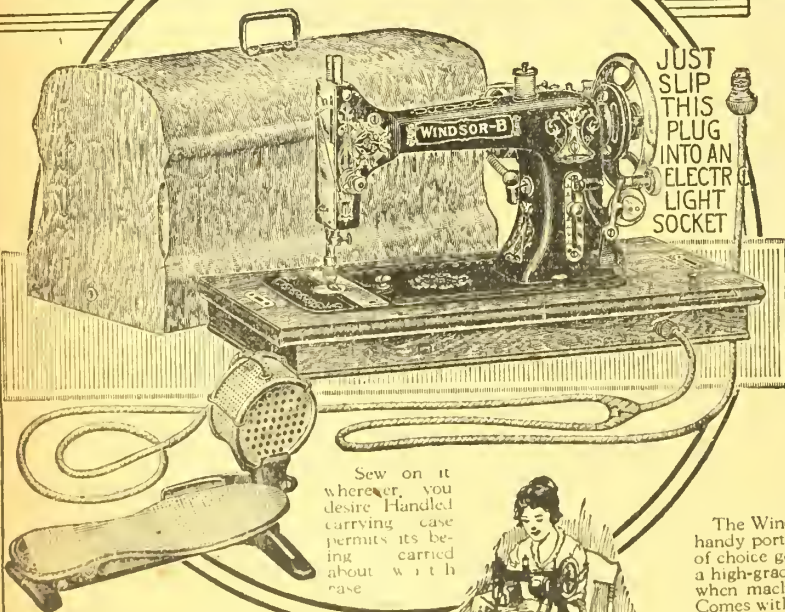
Page 824 contains a complete description of the Windsor B, and, remember this—no vibrating shuttle machine does better work than the Windsor B.

See Page 808 For Time Payment Order Blank
 Fill Out Carefully and Return with First Payment

The Windsor B Electric comes complete with all necessary supplies in handy portable carrying case, with handle and removable cover. Made of choice genuine oak in the popular rich golden finish. Equipped with a high-grade nickel-plated electric motor that swings under sewing arm when machine isn't in use. Adapted to direct or alternating current. Comes with 8-foot electric cord.

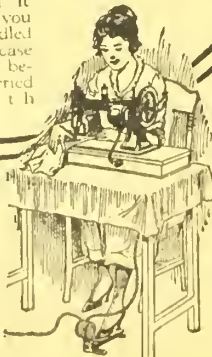
Investigation Will Prove Our Prices to be Very Low
 Considering the High Quality of the Windsor B

286C953—Windsor B Electric Sewing Machine with high-grade 105-115 volt motor. **\$54.50**
 Price
286C952—Windsor B Electric Sewing Machine with high-grade 32 volt motor for Home Lighting Plants, such as Powerlite, Delco, etc. **\$57.25**
 Price
 Shipping weight, 60 pounds Shipped from stock at Chicago.



JUST SLIP THIS PLUG INTO AN ELECTRIC LIGHT SOCKET

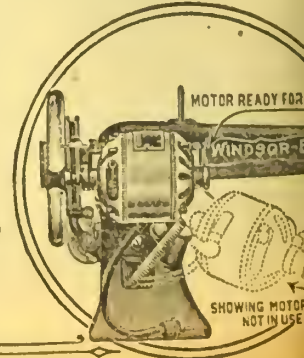
Sew on it wherever you desire. Handled carrying case permits its being carried about with ease.

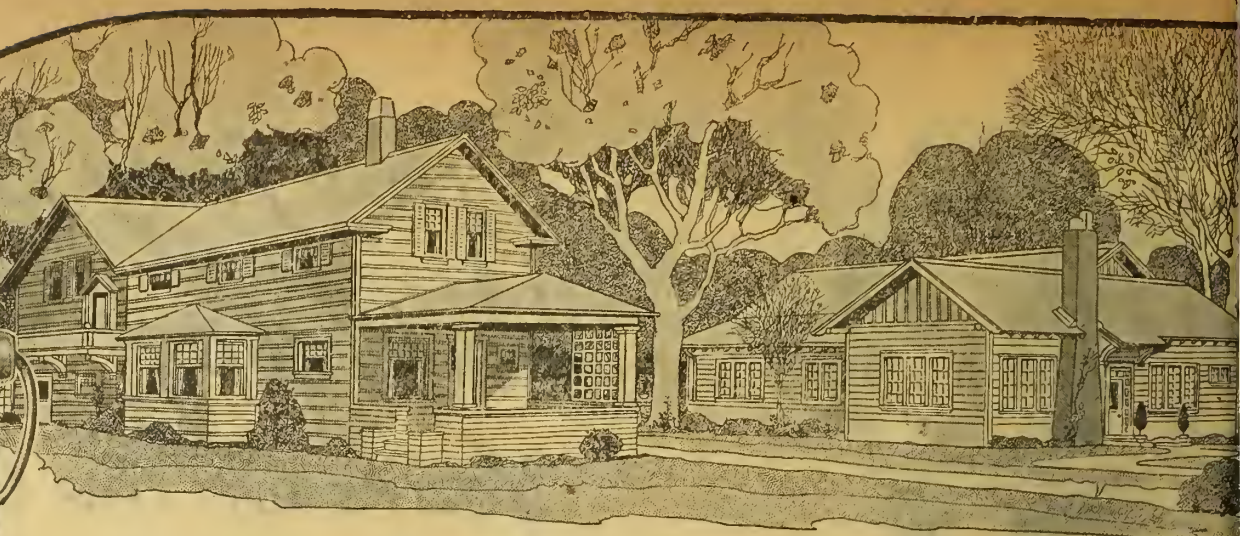


Genuine Greist Attachments



With each machine we send a complete outfit—a set of the best nickel-plated genuine Greist Attachments in a neat velvet-lined metal case. We also furnish a full set of tools.





Summer and Fall are Ideal for House Painting

PAINT PREVENTS DECAY AND POSTPONES REBUILDING. Paint protects from weather wear. It shields your house from decay and makes it last longer with fewer repairs. When you figure what it costs to build a new house today, you can see the economy in Paint.

Coverall House Paint

\$2.73
Per Gal. in 5-Gal. Cans

The Right Paint at the Right Price
Big Covering Capacity—Fine Finish—Long Wear
Every Gallon Guaranteed

\$2.58
Per Gal. in 50-Gal. Barrels

Coverall House Paint is a good, reliable paint at a price that saves you money. For years it has been a favorite with our customers and well merits this popularity. It is good-looking, hard-drying, and long-wearing. It is guaranteed to give you the service you have a right to expect.

Manufactured in Our Own Paint Factory

We manufacture Coverall House Paint in our own big Paint Factory which is equipped throughout with modern, up-to-date machinery and is in charge of specially trained paint makers. These men guard carefully every step in the process of manufacturing to insure paint that is uniform in quality and will give our customers entire satisfaction.

Reliable Materials Used

Coverall House Paint is made from white lead, zinc, linseed oil and the other wear-resisting ingredients which long experience has taught us make good, reliable, durable paint. It is smooth-spreading, hard-drying and is guaranteed to give good wear the year 'round.

One Gallon Covers 250-300 Sq. Ft., 2 Coats

By this we mean that one gallon can be spread out over that much space and cover the surface well. A paint with the big "spread"

of Coverall goes farther—requiring less paint to complete the job and saving you money.

Satisfaction Guaranteed

We guarantee Coverall House Paint to give you entire satisfaction and save you money. Use Coverall this Summer or Fall and protect your house next Winter.

White and Black and 32 Colors. State Color Wanted

No. 22—Black	No. 10½—Inside Gloss White	No. 11—Outside Gloss White
56—Ivory	49—Pink Tint	32—Light Slate
29—Canary	35—Pearl Gray	61—Sage
23—Cream	62—Pure Gray	34—French Drab
28—Straw	54—Dark Gray	53—Light Brown
21—Fawn	55—Lead Color	39—Brown
20—Buff	*59—Sky Blue	15—Wine Color
12—Light Tan	*50—Ocean Blue	13—Cherry Red
26—Salmon	*52—Deep Blue	63—Pea Green
		45—Lettuce Green
		47—Sea Green
		58—Willow Green
		44—Moss Green
		42—Blind Green
		36—Deep Drab
		60—Gray Stone
		14—Dark Tan

*Colors marked thus are for inside use and porch ceilings only.

Sizes and Prices of Coverall House Paint

275C7715—50-gal. barrel. Per gal.	\$2.58	Shipping weight, per gallon, about 15 lbs.
275C7714—25-gal. barrel. Per gal.	2.64	Barrels and half barrels shipped from Chicago Paint Plant.
175C7713—5-gal. can. Per gal.	2.73	
175C7712—3-gal. can. Per gal.	2.75	
75C7711—1-gal. can.	2.76	Barrels, half barrels and 5-gallon cans can be shipped from New York Warehouse, if requested on order.
75C7710—½-gal. can.	1.44	
75C7709—1-quart can. ....	.75	

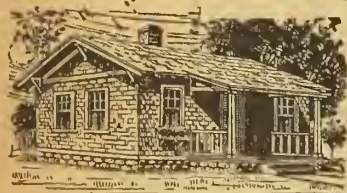
Creosote Preservative Shingle Stain

A Preservative and Stain Combined

For Shingle Roofs and Shingle Sidings
Four Attractive Colors

90c

Per Gal., in 50-Gal. Barrels



Combines the beauty of an attractive wood stain with the value and usefulness of a reliable wood preservative. Lengthens the life of shingles while it improves their appearance. A good investment whichever way you look at it.

Contains a large percentage of Creosote Oil—the best wood preservative known. One of its principal characteristics is its penetration of wood. Our Shingle Stain penetrates some distance under the lap of each shingle—a very valuable feature, making it much better than ordinary paint for this purpose.

Apply with a brush, like paint; or, on a new house, dip the shingles ¾ their length into the stain. One gallon covers about 100 sq. ft. of surface, 2 coats. Two gallons treat 1000 shingles dipped ¾ their length.

Produces a soft-toned, mottled finish which is very rich looking. Use it for both shingle roofs and shingle sides of houses.

State Color Wanted.

512—Red; 500—Dark Brown; 516—Grass Green; 511—Dark Green.	
275C7763—50-gal. barrel. Per gal.	\$0.90
275C7762—25-gal. barrel. Per gal. ....	.95
175C7761—5-gal. can. Per gal. ....	.98
75C7760—1-gal. can.	1.04

Barrels and half barrels shipped from Chicago.

Send for this PAINT BOOK

If You Want to See Colors of Paint Before Ordering

Our Paint Book contains color cards showing the actual colors of our House and Barn Paints, Wall Finishes, etc.

It is not necessary, however, that you get one of these Paint Books before making up your paint order, as we guarantee the colors to be exactly as represented and pleasing and satisfactory in every way.

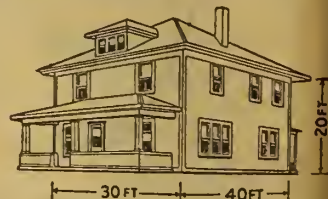
We will gladly send a copy of our Paint Book free, on request.



How to Measure Your House for Painting

Simple and Easy Instructions for Finding Amount of Paint to Order

One of the big features of Coverall House Paint is its large covering capacity per gallon. One gal. covers 250-300 sq. ft., 2 coats. Wardway House Paint covers 250-350 sq. ft., 2 coats, per gal. This saves you on the amount of paint required for the job.



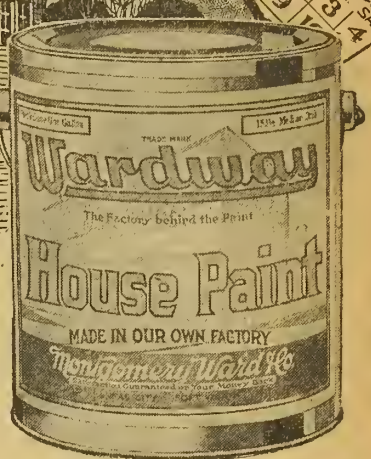
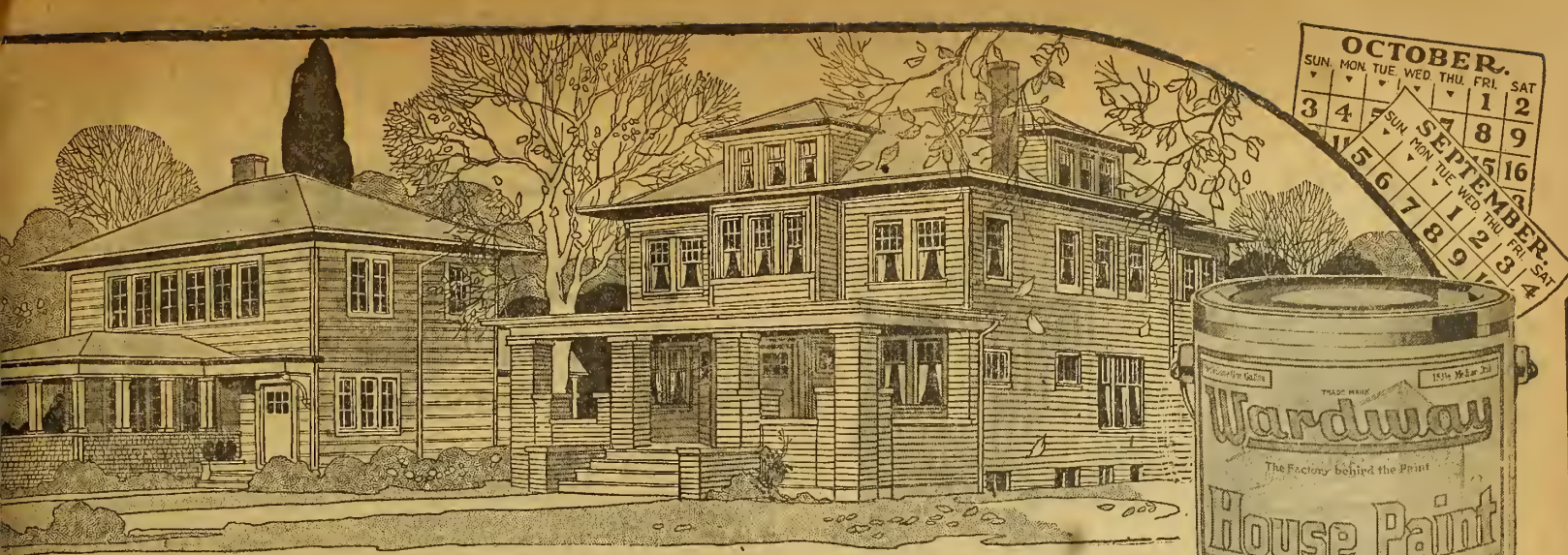
To find the amount of paint to order, first figure how many square feet of surface are to be covered. For example, take a house 30x40 ft., 20 ft. high as shown in illustration above.

Front.	30 ft.
One side.	40 ft.
Other side.	40 ft.
Rear.	30 ft.
Multiply by height.	x20

Gives surface to be covered 2800 sq. ft.

Divide the total number of sq. ft. to be covered by the number of sq. ft. one gal. will cover. For instance, Coverall House Paint covers 250 sq. ft. per gal.—you would divide by 250. The result will show the number of gallons needed. Always allow a little extra, especially if on new lumber. Allow about ¼ additional for trimming. If in doubt, please write us—our estimating staff will be glad to help you without charge.

Write our Paint Service Bureau for information, advice and help with any of your painting problems. This service is entirely free to our customers.



Paint Your House NOW—Before Winter Comes

PAINT INCREASES THE VALUE OF YOUR HOUSE. Paint improves its appearance, makes it more readily salable. And, because a house that is well painted is known to be well preserved, it has still higher market value. Paint is an investment—an investment that PAYS.

Wardway House Paint

\$3.48
Per Gal. in 5-Gal. Cans

Recommended for the Finest Homes
Easy Flowing—Fine Spreading—Attractive Gloss
Guaranteed Service and Wear

\$3.36
Per Gal. in 50-Gal. Barrels

Wardway House Paint is made in our own Paint Factory under tested formula and great care is taken to see that every gallon up to standard and will give our customers reliable service and care.

Made from Selected Materials

Every ingredient in Wardway House Paint is carefully selected. The proportions of white lead, zinc, linseed oil and other reliable materials have been determined after years of experience in paint making. We use sublimed white lead in Wardway House Paint, for example, and every other item is chosen for a perfectly definite purpose. Wardway is a carefully made paint, that you can rely on to give the right results.

Attractive Colors—Glossy Finish

Wardway House Paint will give your home that bright, almost new looking appearance which is very attractive. Will make you proud to be the owner of your home. In addition it dries with a hard, weather-resisting film which is a fine protection for your house—making it look better, last longer and worth more.

Covers Large Surface per Gallon

When you buy paint, figure the amount of paint it will require to finish the job. A paint that covers a large surface per gallon, goes farther and therefore costs less in the long run. Wardway House Paint covers 250-350 sq. ft. per gal. 2 coats. Figure what a big saving this means to you.

Ready to Use—Satisfaction Guaranteed

No experience is needed to apply Wardway House Paint. With a little care you should be able to do as good a job as the professional painter. We guarantee it to give you the right service and wear, or we will refund your money.

White and Black and 32 Colors. State Color Wanted

- | | |
|---------------------------|----------------------------|
| No. 10—Inside Gloss White | No. 11—Outside Gloss White |
| No. 10½—Inside Flat White | No. 22—Black |
| 63—Pea Green | 56—Ivory |
| 47—Sea Green | 23—Cream |
| 45—Lettuce Green | 29—Canary |
| 44—Moss Green | 28—Straw |
| 58—Willow Green | 21—Fawn |
| 42—Blind Green | 20—Buff |
| 13—Cherry Red | 12—Light Tan |
| 15—Wine Color | 26—Salmon |
| | 59—Sky Blue |
| | *50—Ocean Blue |
| | *52—Deep Blue |
| | 35—Pearl Gray |
| | 62—Pure Gray |
| | 54—Dark Gray |
| | 36—Deep Drab |
| | 60—Gray Stone |
| | 32—Light Slate |
| | 61—Sage |
| | 34—French Drab |
| | 53—Light Brown |
| | 14—Dark Tan |
| | 39—Brown |
| | *49—Pink Tint |
| | 55—Lead Color |

*Colors marked thus are for inside use and porch ceilings only.

Sizes and Prices of Wardway House Paint

275C7706—50-gal. barrel. Per gal.	\$3.36	Shipping weight, per gallon, about 15 lbs.
275C7705—25-gal. barrel. Per gal.	3.42	Barrels and half barrels shipped from Chicago Paint Plant.
175C7704—5-gal. can. Per gal.	3.48	
175C7703—3-gal. can. Per gal.	3.50	
75C7702—1-gal. can.	3.51	
75C7701—½-gal. can.	1.83	Barrels, half barrels and 5 gallon cans can be shipped from New York warehouse, if requested on order.
75C7700—1-quart can. ....	.94	

Inside Floor Paint

A special hard, drying paint for use on inside floors, particularly kitchen, hall and bathroom. Makes old floors look like new.

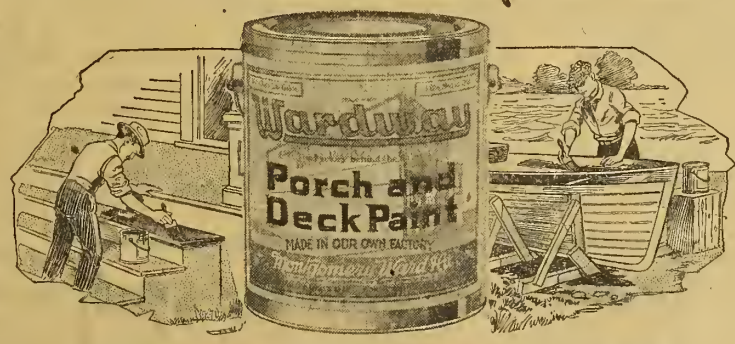
Hard, brilliant, glossy finish that resists heel marks and scratches. 1 gal. covers about 250 sq. ft. 2 coats. Any one in apply—dries quickly. Choice of eight colors.

State Color Wanted

53½—Medium Drab	151—Slate
53¼—Light Yellow	152—Green
48—Reddish Brown	153—Yellow
49½—Red	149—Light Brown

Sizes and Prices

5C8100—Quart.	\$0.68
5C8101—½ gallon.	1.30
5C8102—1 gallon. Wt., per gal., 15 lbs.	2.50



Hard-Drying Porch and Deck Paint

A special tough, hard, wear-resisting paint for outdoor use on porch floors and steps. Also recommended for decks and sides of boats. Not affected by sun or rain and will resist the hardest wear and most severe weather conditions.

\$2.62
Per Gal.

Protects the surface, making it give longer wear with fewer repairs. And because of its bright, glossy finish makes the porch or boat deck look almost new again. Your choice of 6 popular colors. State Color Wanted.

196—Light Gray	193—Light Brown	192—Tan
194—Olive	197—Dark Gray	195—Red Brown
75C7735—Quart can.	\$0.72	75C7736—½ gallon.
75C7737—Gallon can.	2.62	Ship. wt., per gallon, 15 lbs.

Furniture Paint

Special glossy finish paint for furniture. Made to stand hard wear and resist marks and scratches. Its bright glossy finish will make an old chair or table look almost new.

Recommended for dining room chairs, tables, cupboards, kitchen cabinets—in fact, any and all furniture. Will brighten and renew the surface and protect it from wear. This paint is also recommended for porch furniture.

State Color Wanted

191—Green	195—Brown	192—Tan
196—Light Gray	194—Olive	199—Red

Sizes and Prices

75C8590—Pint.	\$0.38
75C8591—Quart. ....	.67
75C8592—½ Gallon.	1.30
75C8593—Gallon.	2.50

Shipping weight, per gallon, 15 pounds.

Special Screen Paint

This is a special paint made for this particular purpose. Covers the wire thoroughly but does not clog the meshes. Ready to use—any one can do a good job. Paint your screens this fall before putting them away for the winter, and protect them from rust.

Black or Green. State Color Wanted.

75C7745—½ pint.	\$0.18
75C7746—1 pint. ....	.32
75C7747—1 quart. ....	.55
75C7748—1 gallon.	1.95

Wt., per qt., 2½ lbs.

Stainless Floor Oil

For wood floors. Brings out the color of the wood and keeps down dust. Especially recommended for kitchens. Also much used on large floors in schools, halls, etc. Apply sparingly with a cloth, or by sprinkling on, then brushing or rubbing in. 1 gallon is sufficient for about 600 sq. ft. of surface.

75C8266—50-gal. bbl. Per gal.	88c
75C8265—25-gal. bbl. Per gal.	90c
75C8263—5-gal. can. Per gal.	93c
75C8232—1 gal. Ship. wt., 10 lbs.	98c
75C8231—½ gal. can.	54c
75C8230—1 quart.	35c

Ship. wt., per gal., about 9 lbs. Barrels shipped from Chicago.

Your Barn is Worth More When It's Painted



Coverall (TRADE MARK) Barn Paint

Protects from Weather Wear
Stops Repairs—Postpones Rebuilding

\$18
Per Gal.
In 50-gal. Bl.

Did you ever stop to consider what it would cost to rebuild your barn today at present prices? If you have, you know it is good business to keep the old barn painted—because paint protects it and makes it give more years of service.

Coverall Barn Paint will protect your barn. It is made especially for this purpose and is guaranteed to be of uniform quality, easy-spreading, hard-drying and long-wearing. You are getting good, reliable paint when you buy Coverall—it is the right paint for your barn, sheds and fences.

Manufactured in our own Paint Factory from high grade metallic pigments, ground by heavy machinery and thoroughly mixed with the necessary linseed oil, driers, etc., to make it hard-drying and long-wearing. Large covering capacity—225-250 sq. ft. per gal., 2 coats.

Choice of the following 4 colors: State Color Wanted

150—Yellow	157—Red	159—Slate	155—Maroon
275C7724—50 gal. bbl.	Per gal.		
275C7723—25 gal. bbl.	Per gal.		
175C7722—5 gal. can.	Per gal.		
175C7721—3 gal. can.	Per gal.		
75C7720—1 gal. can.	Per gal.		

Ship. wt., per gal., about 15 lbs. Bbls. and half bbls., also 5-gal. cans, shipped from Chicago or New York.

PAINT THIS FALL—Don't put off painting until next Spring. Paint NOW and protect your barn during the Winter months. Summer and Fall are ideal times for painting.

Creosote Wood Preservative



Fence posts cost too much to allow them to rot and break off in a few years. Protect and make them last longer by giving them a good coating of Creosote Wood Preservative before sinking them in the ground. All wood decays unless it is protected from moisture and weather wear. But the sunken part of the fence post needs special protection in order to protect it from germs and insects as well as decay caused by ground moisture.

State experiment stations recommend Creosote Oil for this purpose; it seals the pores of the wood and gives it strength and increased resistance to wear. Our wood preservative is a refined Creosote Oil, particularly suited to this purpose. Easy to use. Apply either with a brush or by dipping the lower end (the part to go below the ground line) into a tank or barrel filled with Wood Preservative.

Ropes, canvas and nets treated with Wood Preservative become waterproof, and more durable, yet remain soft and pliable in all seasons.

Save at these Prices.

275C7759—50 gal. (bbl.) Per gal.	63c
275C7758—25 gal. (½ bbl.) Per gal.	67c
175C7757—5 gal. can. per gal.	79c
75C7756—1 gal. can.	83c

Barrels and half barrels shipped from Chicago.

Seal-Tite Waterproofing Compound

For waterproofing cement, concrete, brick or plaster surfaces. May be used on damp surfaces. Fills pores, making it waterproof. For silos, cement blocks, concrete or brick buildings. A clear, colorless liquid. Used alone or as first coat, preparatory to painting. Should not be used over paint.

Seal-Tite is not a crack filler but will fill natural pores in cement or concrete. Fill cracks with Portland Cement before applying Seal-Tite.

1 gal. covers 150-200 sq. ft. on concrete or brick surfaces or 200-300 sq. ft. on plastered surfaces.

75C7793—Quart can.	\$0.85
75C7794—1 gal.	2.90
175C7795—5 gal.	2.85

Ship. wt., per gal. 15 lbs.

Concrete and Cement Coating

A permanent Waterproof Paint for concrete, brick, stone and stucco. Brightens and renews stucco houses. May also be used for brick, stone or concrete houses. Prevents water spotting the walls, and prevents the disintegration due to absorption of moisture.

Specialty recommended for silos, both for coating the inside and outside.

May also be used for inside walls in houses, and in basements for coating the inside of concrete foundation work.

Ready to use—apply with a brush; 1 gal. covers, on average, 100 sq. ft., 2 coats.

State Color Wanted.

101—White	102—Buff
104—Brick Red	105—Cement Gray
106—Manganese Brick	103—Moss Green
275C7792—Half Barrel (25 gal.) Per gal.	\$2.60
175C7791—Five gal. can. Per gal.	2.70
75C7790—One gal. can. Ship. wt. 15 lbs.	2.80
75C7789—Half gal. can.	1.40



The Paint for Stucco Houses

Auto or Carriage Paint

Bright, Glossy, Durable Finish! Popular Colors. Ready to Use

\$3.48 Per Gallon

A high-grade enamel finish for autos, carriages, motorcycles, bicycles, etc. A special hard-drying, high-gloss Varnish-paint. Very durable. Its hard, brilliant finish improves the appearance of your car and protects body. Made in our own Paint Factory from best grade coach colors, ground in high quality varnishes. Comes all ready to apply. Full directions on can.

Choice of 8 Popular Colors: State Color Wanted

162—Yellow	161—Brewster Green	168—Red
166—Wine	165—Dark Green	167—Blue
160—Gray	163—Black	
75C7810—½ pint can. Ship. wt., 1½ lb.		\$0.30
75C7811—1 pint can. Ship. wt., 2½ lb.		.55
75C7812—1 quart can. Ship. wt., 4½ lb.		1.05
75C7813—½ gallon. Ship. wt., 8 lbs.		1.87
75C7814—1 gallon can. Ship. wt., 15 lbs.		3.48

(See White Auto Paint below)

Wagon or Implement Paint

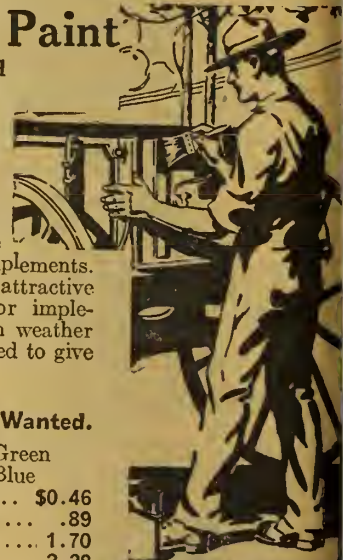
Made to Protect Iron and Wood Popular Colors. Ready to Use

\$3.28 Per Gallon

This is a good, practical, hard wearing paint produced in our Paint Factory for the special purpose of protecting wagons and implements. Strong and durable with good finish and attractive and popular colors. Makes your wagon or implement look like new and protects them from weather wear. For use on wood or iron. Guaranteed to give excellent service all year 'round.

Made in 6 Popular Colors. State Color Wanted.

173—Coach Red	171—Black	170—Green
160—Gray	172—Yellow	168—Blue
75C7815—Pint. Wt., 2½ lbs.		\$0.46
75C7816—Quart. Wt., 4½ lbs.		.89
75C7817—½ gallon. Wt., 9 lbs.		1.70
75C7818—1 gallon. Wt., 14 lbs.		3.28



Auto Varnish

A transparent finishing varnish, for use on automobiles or carriages. Will not darken or discolor the faintest of shades or striping beneath. Spreads easily, has great brilliancy and is very durable.

75C8690—Pint can.	\$0.54
75C8691—Quart can.	1.02
75C8692—½ gallon can	1.98
75C8693—1 gallon can	3.86

Ship. wt., per gal. about 11 lbs.

White Auto Paint

A snow-white automobile paint of superior quality. Made in our factory especially for painting auto wheels, radiators, fancy trimmings, etc. Can also be used on body.

75C7845—½ pint. Wt., 1½ lbs.	\$0.38
75C7847—1 quart. Wt., 4½ lbs.	1.15
75C7849—1 gallon. Wt., 15 lbs.	4.35

"Rubberset" Auto Refinishing Brush

Extra quality auto refinishing brush. Nickel plated ferrule. Made of Ox Hair with some Chinese Bristles. Double thick, chiseled edge.

Number	Width	Bristles	Weight	Price
75C686	1½ in.	1½ in.	2 oz.	\$1.32
75C687	2 in.	1½ in.	2 oz.	1.72
75C688	2½ in.	1½ in.	3 oz.	2.25
75C689	5 in.	2 in.	4 oz.	3.80

Paint Your Ford for—\$240

You can re-enamel your Ford in half a day—and enjoy the job. No experience necessary with this complete outfit. All the materials you will need are included, even the brush. Enough black enamel to give the entire body and fender 2 good coats.

Outfit Consists of:

- 1 qt. Auto Enamel Black—Special for Fords.
- ¼ pt. Auto Radiator Enamel—May also be used on engine.
- 1 Auto Varnish Brush—Black Chinese Bristles, width, 2 inches.
- 1 pkg. Steel Wool—No. 0.
- 1 pt. Auto Top and seat Dressing.
- 75C7808—Outfit complete.....\$2.40

Shipping weight, 15 pounds.



Wagon or Implement Varnish

A light colored, full-drying brilliant varnish, especially recommended for farm wagons, agricultural implements and machinery. Has a good body, mixes readily, with any color, sets dust free in from 5 to 6 hours and is hard in about 36 hours. Well adapted for outdoor exposure.

75C8702—Pt. Wt., 2½ lbs.	\$0.50
75C8703—Qt. Wt., 4 lbs.	\$0.94
75C8704—½ gal. Wt., 6 lbs.	\$1.72
75C8705—1 gal. Wt., 11 lbs.	\$3.34

Elastic Gear Varnish

A special varnish for finishing gears, machine wheels, etc. Will give good wear in spite of grease and grime. Durable, lasting bright gloss which needs no rubbing.

75C8694—Pint can.	\$0.50
75C8695—Quart can	.94
75C8696—½ gal. can	1.72
75C8697—1 gal. can	3.34

Ship. wt., per gal., 11 lbs.

Auto Top Dressing

Wardway Automobile Top Dressing brightens and renews the top. Makes it waterproof. Adds to its life. Will not harden leather.

Specialty made for this purpose.

75C8710—Pint can.	40c
75C8711—Quart can.	75c

Ship. wt., per qt., 3 lbs.

Roof Coatings Stop Leaks and Save Repairs

Liquid Roof Cement

Ready for Use—Apply with a Brush—Only One Coat Required

This is a glossy black plastic compound. Makes a coating $\frac{1}{32}$ inch in thickness which is usually sufficient to make any old roof waterproof. Old rusty surfaces that are decayed beyond the painting stage can be re-coated with Liquid Roof Cement, thus adding years to their service.

This coating contains no coal tar, which has a tendency to soften in hot weather and separate from the surface to which it is applied. It will not run, sag, drip, check, scale or blister. It is a plastic composition reinforced by asbestos fibre running in all directions, which hold the coating in place until it sets.

Liquid Roof Cement is well adapted for use on metal roofs and siding of all kinds; on silos, tanks and other

60c
Per Gallon and Up

structures built with paper, tar, or felt roofs; and on underground work, whether of wood, metal or concrete, to exclude moisture.

No experience needed to apply. Brush it on with an ordinary paint brush or better a special knotted roofing brush (shown in illustration at right and listed with prices below.) Only one coat is required even on oldest surface. One gallon covers about 100 sq. ft. one coat.

- 275C7803—50-gal. barrel. Per gal. 60c
 - 275C7802—25-gal. barrel. Per gal. 65c
 - 175C7801—5-gallon can. Per gal. 82c
 - 75C7800—1-gallon can. 92c
- Shipping weight, per gal., about 10 lbs.
Barrels and Half Barrels Shipped from Chicago.



Easier and quicker to apply Liquid Roof Cement with a special heavy Knotted Roofing Brush (see prices below).

Trowel Roof Cement

Makes a One-Piece, Leak-Proof Roof without Laps or Seams

Trowel Roof Cement may be applied over any roof, new or old in any weather. Sticks in any position, even on under side of horizontal surface.

It will not get hard and brittle in Winter, nor soften in run in the Summer. Jet black in color, non-poisonous, tasteless and odorless; will not taint or discolor air water.

Where there is only a small leak, plug up the hole the same as you would with putty, smoothing down with trowel or putty knife. In case of a large hole, put on a patch of tin or sheet iron, nail the edges down and cover with cement to the thickness of about $\frac{1}{4}$ inch. Where the roof is in generally bad condition, spread evenly over it a coating of cement about $\frac{1}{4}$ inch thick, working out edges smoothly. Unless the roof is in a generally bad

6c
Per Pound and Up

condition, Trowel Roof Cement need not be applied more than from $\frac{1}{16}$ to $\frac{1}{8}$ of an inch thick. When so spread, 40 pounds are enough for 100 square feet on a roof.

Trowel Roof Cement is non-poisonous, tasteless and odorless; will not taint or discolor rain water.

There are so many uses for trowel Roof Cement that you should always have a supply on hand.

- 275C7783—550-lb. barrel. Per lb. 6c
 - 275C7788—300-lb. barrel. Per lb. 7c
 - 175C7787—105-lb. keg. Per lb. 7½c
 - 175C7785—25-lb. pail. Per lb. 10c
 - 75C7784—5-lb. pail. Per lb. 11c
- Barrels and Half Barrels Shipped from Chicago.

Other Handy Uses for Our Trowel Roof Cement

You will find many other uses for Trowel Roof Cement beside sealing leaky roofs. You can use it for:

Making Foundations—brick, stone or concrete—waterproof and long-lived by applying to the outside of wall.

Sealing around chimneys, roof cornices, etc.

Sealing around pumps, drain pipes, down spouts, etc.

Calking boats—excellent for the purpose because both waterproof and durable.

Asphalt Roof Coating

For Iron, Felt or Composition Roofs



55c
Per Gal. and Up

Asphalt, the base of this special roof coating, is one of the most durable protections against sun and rain.

Protects and preserves any kind of roof. Contains no coal tar. Ready to use. Apply with brush. One gal. covers 200-250 sq. ft. 1 coat.

Choice of 3 colors: black, red or green.

Black

- 275C8354—50-gallon bbl. Per gal. 55c
- 275C8353—25-gallon bbl. Per gal. 61c
- 175C8351—5-gallon can. Per gal. 75c
- 75C8350—1-gallon can. Per gal. 83c

Red Green

- 50-gal. bbl. Per gal. 275C8359... \$0.92 275C8364... \$1.76
- 25-gal. bbl. Per gal. 275C8358... .93 275C8363... 1.82
- 5-gal. can. Per gal. 175C8356... 1.06 275C8361... 1.90
- 1-gal. can. 75C8355... 1.14 275C8360... 1.98

Shipping weight, per gal., about 15 lbs.
Barrels and half barrels shipped from Chicago.

Asbestos Elastic Cement

For Stopping Leaks

For repairing roofs, gutters, chimney joints, skylights, grain bins, culverts or irrigation flumes. May be used on wood, brick, iron, tin or glass. Easily applied with putty knife or trowel. Weather will not effect it.

- This is the cement to use for cementing down new roll roofing.
- 75C7780—2½-pound cans each. 38c
- 75C7781—5-pound cans each. 55c

Tinners' Red Paint

For All Tin and Iron Work

A ready mixed oxide paint, used by tinners and metal workers, as a first coat over metal roofs, gutters, spoutings and metal cornices. This paint is manufactured expressly to take the place of the more expensive Red Lead and is guaranteed to give first class service and wear for this purpose, besides saving you money. Not an experiment, but a tested and time tried product which has proven a great giving our customers complete satisfaction. Try it next time you have any tin or iron work to paint—especially recommended for down spouts, gutters and metal cornices. Can also be used on fences, railings, fire escapes, pumps, etc.

- 275C7767—50-gallon bbl. Per gallon. \$1.40
- 275C7766—25-gallon bbl. Per gallon. 1.45
- 175C7765—5-gallon can. Per gallon. 1.55
- 75C7764—1-gallon can. Per gallon. 1.65

Distilled Liquid Coal Tar

Subject to Market changes.

For recoating and painting roofs, metal surfaces that are likely to rust, also for coating water tanks, fence posts, etc. Apply with a brush.

- To get best results, coal tar should be heated before spreading.
- 275C8413—50-gallon barrel. Per gal. 25c
- 275C8412—25-gallon barrel. Per gal. 32c
- 175C8411—5-gallon can. Per gal. 45c
- 75C8410—1-gallon can. Per gal. 65c

Shipping weight, per gal., about 12 lbs.

Roofing Pitch

Subject to Market Changes.

For gravel roofs, and also tarred roofs and for waterproof foundations below ground. Must be melted and applied hot. Spread on with long handle roofing brush. Furnished in barrels only, weighing from 500 to 600 pounds.

- 275C8405—Roofing Pitch per 100 lbs. \$1.50
- Shipped from our factory in Chicago.

Knotted Roofing Brushes

Knotted Roofing Brushes. Mixed bristles, for heavy painting, roof coating and tar paints. Length of bristles 3 inches. Weight 8 to 20 oz. Handle not furnished. Use by inserting broom handle or pole.

- 75C721—1 Knot Roofing Brush. \$0.50
- 75C722—2 Knot Roofing Brush.75
- 75C723—3 Knot Roofing Brush.98
- 75C724—4 Knot Roofing Brush. 1.30



Heavy Roof and Fence Paint

Also for Tanks, Windmills, etc.

86c
Per Gal. and up.



A heavy, wear-resisting oil paint containing enough asphaltum to insure its sticking to iron, tin or other metal. Can be used on any kind of roof particularly the old roof generally considered beyond the help of paint.

An excellent protection and leak preventive which will add years of service to an old roof. Ready to use—easy to apply. One gal. covers 200 to 300 sq. ft. one coat. Choice of black or maroon.

Prices of Black

- 275C8418—Barrel (50 gallons) Per gal. \$0.86
- 275C8417—½ barrel (25 gallons) Per gal.92
- 175C8416—5-gallon can. Per gal. 1.10
- 75C8415—1-gallon can. 1.20

Prices of Maroon (Dark Red)

- 275C8422—Barrel (50 gallons) Per gal. \$1.00
- 275C8421—½ Barrel (25 gallons) Per gal.07
- 175C8420—5-gallon can. Per gal. 1.25
- 75C8419—1-gal. can. 1.35

Liquid Graphite Paint

A special graphite paint made to protect iron work and prevent rust. Made in our Paint Factory of graphite thoroughly mixed and ground with linseed oil, forming an elastic and durable coating that will prevent rust and corrosion.

We recommend this paint for protecting and preserving all iron or metal work that stands exposed to the weather.

Use it on bridges, culverts, metal roofs, metal smokestacks, windmills—in fact any iron or other metal which you want to protect from rust.

Gray black in color (the natural color of graphite).

- Shipping weight, per gallon, about 15 pounds.
- 275C7777—50-Gallon barrel. Per gal. \$1.87
- 275C7776—25-Gallon barrel. Per gal. 1.92
- 175C7775—5-Gallon cans. Per gal. 1.94
- 75C7774—1-Gallon can. 1.97
- 75C7772—1-Quart can.55

Elastic Roof Paint

A leak can be permanently stopped by first painting the surface over the leak, then laying on a piece of muslin and finally coating the muslin with this paint. You then have a patch that will last indefinitely.

Comes to you all ready to apply, does not need to be thinned. Before applying be sure to thoroughly sweep or scrape the surface to be painted. One gallon will cover about 250 square feet, one coat.

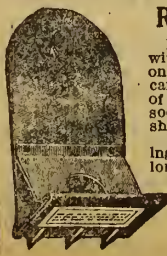
This paint will stand expansion and contraction caused by the weather changes without cracking or peeling. It will not run in the hottest weather nor crack in the coldest. Elastic Roof Paint gives a bright glossy finish that is sunproof, waterproof, elastic and durable. Apply with Knotted Roofing Brush.

- 275C7753—1-barrel (50 gallons) Per gallon. 34c
- 275C7752—½-barrel (25 gallons) Per gallon. 38c
- 175C7751—5-gallon can. Per gallon. 53c
- 75C7750—1-gallon can. 75c

Adjustable Ladder Hooks

45c

For working on top of a slant roof. Top end of hook drops over ridge, making roof-work safe. Will fit any ladder. Every property owner should have one as it is handy for making roof repairs. Made of steel. Shipping weight, 2¼ lbs. 75C972—Price hook, only, each. 45c



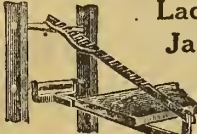
Roof Brackets

Does away entirely with nailing cleats on roof. Rest paint can on it/or put point of stage hook in socket. Hooks on to shingles. Made of steel casting. Abt. 10 in. long. Wt., 2¼ lbs. 75C976 — Price ea. 42c Per set of six \$2.40

Flat Brush

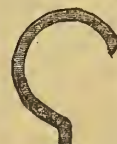


Good Quality Flat Brush. Black Chinese bristle with black mixed center. A practical, well made brush for painting roofs, barns and large surfaces. Metal bound. Width, 6 in. Bristles length, 3¼ in. Wt., 8 oz. 75C705—Price. \$1.15



Ladder Jacks

Made of best grade steel. The more you put on it the tighter it draws. Shipping weight, per pair, 20 pounds. 175C970—Price, per pair. \$3.35



Stage Hooks

Made of hand forged steel. Width, 2 inches. Thickness, ½ inch. 175C974 — Inside length of circle 29 inches. Price, per pr. \$2.50 175C975 — Inside length of circle 39 inches. Price, per pr. \$3.50 Ship. wt., per pr. 35 and 40 lbs.

Paint Pot Hooks

For hanging paint bucket from ladder. Made of steel wire, tinned. 75C741 — Weight, 1 lb. 4 oz. 4c Per dozen. 40c

Co-Var-Finish

For All Purposes

\$2.65
Per Gal.



28c

FOR
Trial Outfit

Colors and Varnishes
at One Application

CO-VAR-FINISH is both a varnish and a stain. Changes the color of the wood to color desired and at the same time gives it a fine, glossy varnish coat, which is a beauty in itself.

Co-Var-Finish gives the finish of the more expensive woods—like mahogany, rosewood, walnut, etc.—at very small cost. You can make your floors, etc., harmonize with other furnishings or change them to match the latest style.

Your choice of eight beautiful, artistic colors and a Clear or "Natural" finish. See column at right for full list of colors, and also sizes and prices of Co-Var-Finish.

For Floors, Furniture, Woodwork

Use Co-Var-Finish on your floors, furniture or woodwork—on any wood in the house. You can change the color of furniture to match a new style of interior finish, make floors light or dark as desired. You can change the color of the wood to suit your taste, and do it with little trouble and less expense. In fact, with Co-Var-Finish, so many little changes can be made in various parts of the house, that many of our customers keep a little on hand always, just to provide for emergency—to cover up a spot or a scratch on a piece of furniture or woodwork.

For those who have never tried Co-Var-Finish we offer a special trial outfit of a half pint can (any color) and a one inch varnish brush. With this outfit you can re-color and varnish a small table or chair. Put this trial outfit down on your order now.

Any One Can Apply—
Choice of 8 Popular Colors

State Color Wanted

- | | |
|---------------|----------------------|
| 183—Cherry | 186—Rosewood |
| 184—Mahogany | 186½—Leaf Green |
| 185—Light Oak | 187—Antique Oak |
| 188—Walnut | 190—Ebony Black |
| | 189—Clear or Natural |
| | 188½—Ground Color |

NOTE: The "Ground Color" is used as a priming coat only. Where you intend putting on a light shade of Co-Var over a surface now painted dark, put on a first coat of "Ground Color".

Sizes and Prices of Co-Var-Finish

- 75C8109—Trial Outfit. ½-pint can. with 1-inch varnish brush. Special. \$0.28
- 75C8110—Pint can.40
- 75C8111—Quart can.75
- 75C8112—½-gallon can. 1.40
- 75C8113—1-gallon can. 2.65
- Shipping weight, per gal. about 11½ lbs.

Bathtub Enamel



\$1.12
Per Quart

This is a special enamel designed to resist the action of water. Particularly suited for re-enameling bathtubs of iron, tin or composition. Produces a hard, lustrous surface that will not chip or mar, and is not affected by hot or cold water.

One pint will give an ordinary bathtub two coats. Also used for re-enameling iron bedsteads or any metal surfaces. Easy to apply.

Colors: Porcelain White, Old Ivory, Wild Rose or Green. State Color Wanted.

- 75C8160—½ pint. \$0.37
- 75C8161—1 pint.62
- 75C8162—Quart. 1.12

Radiator and Steam Pipe Enamel

A ready-mixed gloss enamel for radiators and steam pipes, registers, and all surfaces exposed to extreme heat. Excellent also for use on any metal work. It will not chip or mar, and is not affected by heat or cold. Is easily applied, dries quickly and will remain glossy.

Colors: Maroon, Bronze-Green, Dull Green and Black. State Color Wanted.

- 75C8170—½ pint. \$0.25
- 75C8171—1 pint.42
- 75C8172—1 quart.75
- 75C8173—½ gallon. 1.40
- 75C8174—1 gallon. 2.65

Stove Enamel

Especially adapted for stove pipes, grates, radiators, heating drums and hot or cold water pipes. One coat gives a durable elastic black finish that will withstand intense heat. A pint can is sufficient to enamel and save the cost of a new stove pipe.

- 75C8177—½ pint. 16c
- 75C8178—1 pint. 24c
- 75C8179—1 qt. Wt., 4 lbs. 40c

See Page 870 for Wardway Household Paint

The new semi-gloss paint for kitchen and bathroom walls, for woodwork, floors and furniture.

Towerlite White Enamel

Glossy Finish

The original Towerlite White Enamel that we have been selling for years and which our customers know is high-grade and reliable in every way.

Has a white lasting glossy finish which is snow white and will not turn yellow. Neither will it crack or chip. It is the ideal finish for all kinds of furniture. Can also be rubbed to a dull finish if desired.

If you wish to enamel surfaces, either wood or plaster, that have not been painted before treat the wood with a priming coat of Towerlite Undercoat (see below) to which you have added a pint of turpentine. Plastered walls should first be given a coat of our Fresco Wall Size (Page 870) before applying the undercoat.

One gallon Towerlite White Enamel covers 200-250 sq. ft. 2 coats.

- 75C8432—½ pint. \$0.42
- 75C8433—1 pint.70
- 75C8434—1 quart. 1.24
- 75C8435—½ gallon. 2.42
- 75C8436—1 gallon. 4.75

Shipping weight, per gal., 15 lbs.

Egg-Shell Finish

\$4.75
Per Gallon

In response to the demand for Towerlite White Enamel in an "Egg-shell" (semi-gloss) instead of the bright glossy finish of our regular Towerlite, we now offer this new Towerlite "Egg-Shell" finish. It is very popular for use on all kinds of furniture. Makes rubbing unnecessary. This "Egg-shell" finish is also popular for plastered walls and bathrooms, etc., where a bright glossy finish is not desired.

Plastered walls that have never before been painted should first be sized (see page 870 for Undercoat (see below)).

1 gallon covers about 200-250 sq. ft., 2 coats.

- 75C8390—1 pint. \$0.70
- 75C8391—1 quart. 1.24
- 75C8393—1 gallon. 4.75

Weight, per gallon, about 15 lbs.

Towerlite White Undercoat

Towerlite White Undercoat is the ideal first coat for any white enamel and is particularly recommended for use with Towerlite.

Towerlite White Undercoat is prepared especially to produce just the right surface for the finish coat of Towerlite White Enamel. Apply like any other paint, first seeing that surface is smooth, clean and dry. In 24 hours wall is ready for enamel coat.

Towerlite Undercoat is also admirably adapted for a flat white finish on walls, woodwork or furniture. One gallon will cover about 250 sq. ft., 2 coats.

- 75C8472—1 pint. \$0.44
- 75C8473—1 quart.80
- 75C8474—½ gallon. 1.50
- 75C8475—1 gallon. 2.85

Shipping weight, per gal., 15 lbs.

Ready-Mixed Gold Paint

Sunset Brand. High quality, very durable and will not rub off. Use it on old picture frames, ornaments, brackets, etc. Withstands heat and not affected by moisture. Easy to apply. Fine for metal beds.

- 75C8189—½ pint. \$0.25
- 75C8190—¼ pint.34
- 75C8191—½ pint.55
- 75C8192—Pint.88
- Wt., 2½ lbs.88
- 75C8193—Quart. 1.58
- Wt., 3 lbs.

Gold and Aluminum Enameling Outfits

21c

½-oz. Size



In gold color or aluminum. For picture frames, beds, toys, ornaments, etc. Easy to apply. Each box contains 1 bottle of bronze and 1 bottle of banana liquid, a brush and mixing cup.

- Size Gold Outfit Aluminum Outfit Price
- ½-oz. bottle. 75C8526 75C8528 21c
- 1-oz. bottle. 75C8527 75C8529 34c

34c

1-oz. Size

Ready-Mixed Aluminum Paint

24c Per ½-pt. can

Sunset Brand. Hard-drying, washable, rust-proof. Used for coating pipes, radiators, iron railings, bicycles, fences, etc. Dries quickly with bright silver finish. Easy to apply.

- 75C8184—½ pint. \$0.24
- 75C8185—¼ pint.32
- 75C8186—½ pint.53
- 75C8187—1 pint.85
- 75C8188—1 quart. 1.55

Wt., per quart, 3 lbs.

Vernis Martin Lacquer

A transparent, protective coating for bronzed work. Must be used over Vernis Martin Bronze to produce a correct imitation of genuine Vernis Martin. One coat protects brass or other polished metal, chandeliers or fixtures against tarnish.

- 75C8556—½ pint can. 30c
- 75C8557—1 pint can. 50c

Unmixed Bronze Powders

These bronzes are very finely ground and of superior quality. For use in gilding, decorating, sign work, on picture frames, radiators, steam pipes, etc. To prepare, mix 1 pint of Banana or Bronzing Liquid to 6 oz. Bronze, except Aluminum, 4 oz.

Vernis Martin Color Bronze

75C8541—1-oz. pkg. \$0.15

75C8542—Three 1-oz. pkgs.42

75C8543—½-lb. can. 1.05

75C8544—1-lb. can. 2.00

Light Color or Bright Gold Bronze

- 75C8510—1-oz. pkg. \$0.11
- 75C8511—Three 1-oz. pkgs.30
- 75C8512—½-lb. can.80
- 75C8513—1-lb. can. 1.50

Medium Color or Roman Gold Bronze

- 75C8515—1-oz. pkg. \$0.12
- 75C8516—Three 1-oz. pkgs.33
- 75C8517—½-lb. can.85
- 75C8518—1-lb. can. 1.60

Rich Gold or Brass Color Bronze

- 75C8546—1-oz. pkg. \$0.12
- 75C8547—Three 1-oz. pkgs.33
- 75C8548—½-lb. can.85
- 75C8549—1-lb. can. 1.60

Copper Color Bronze

- 75C8551—1-oz. pkg. \$0.12
- 75C8552—Three 1-oz. pkgs.33
- 75C8553—½-lb. can.85
- 75C8554—1-lb. can. 1.60

Aluminum Color Powder

- 75C8520—1-oz. pkg. \$0.11
- 75C8521—Three 1-oz. pkgs.30
- 75C8522—½-lb. can.80
- 75C8523—1-lb. can. 1.50

Banana Liquid

For mixing Gold, Aluminum and other Bronzes. Durable, heat resisting paint. Mix 1 pt. to 6 oz. of Gold Powder or 4 oz. of Aluminum Powder.

- 75C8533—½ pt. Wt. 40c
- 75C8534—1 pt. Wt. 65c
- 75C8535—1 Quart. Wt. \$1.20
- 75C8530—P t. lbs. 2½ 30c
- 75C8531—3 lb. Wt., 4 lbs. 45c
- See assortment of fine Goat Hair Bronzing Brushes on page 873.

Our Varnishes Have a Reputation for Wear

Marproof Floor Varnish

Water won't hurt floors finished with Marproof Floor Varnish. It is a richly high-grade varnish, the kind used in finest work regardless of price. Marproof Floor Varnish makes floors elproof, marproof, and positively waterproof. It withstands repeated washings, and gives a tough, durable and elastic finish. Can be rubbed for dull finish.

\$2.98
Per Gallon

Our prices on this superior Floor Varnish are very reasonable. You can afford to use the best on all your floors.

Marproof Floor Varnish is guaranteed to give you absolute satisfaction. Use it on your floors and be satisfied.

75C8640—Pint can..... **\$0.43**
75C8641—Quart can..... **.80**
75C8642—½-gallon can..... **1.55**
75C8643—1-gallon can..... **2.98**
75C8644—5-gallon can..... **14.45**

75C8900—Pint can..... **\$0.33**
75C8902—½ gal..... **.61**
75C8901—Quart can..... **1.16**
75C8903—1-gal. can..... **2.20**
75C8904—5-gal. can..... **10.50**

Our "Super Durable" Floor Varnish

This varnish has splendid wearing qualities, holds its lustrous gloss exceptionally well, is easily applied and dries overnight. Has good body as well as high gloss—necessary qualities in good floor varnish. Although we cannot recommend this varnish as highly as our Marproof (quoted above) it is a good serviceable product at a medium price, and will give good satisfaction on the average floor.

75C8610—Pint can..... **\$0.45**
75C8611—Quart can..... **.85**
75C8612—½-gal..... **1.65**
75C8613—1-gal..... **3.20**
75C8614—5-gal can..... **15.50**

Diamond "W" Floor Varnish

\$2.40
Per Gallon

If you are looking for a floor varnish that will stand up and give good wear, and yet sells for a very moderate price—our Diamond "W" brand is the kind to order.

We have sold Diamond "W" Floor Varnish for years, and repeated orders from those who have been using it, is the best evidence of the satisfaction it has been giving. If you want to save money, give Diamond "W" a trial. We guarantee it to please you.

Dries overnight with a full, rich lustre which can be rubbed to a dull finish if desired. It is exceedingly tough and will not easily mar or scratch, and is not affected by water.

75C8645—Pint can..... **\$0.36**
75C8646—Quart can..... **.65**
75C8647—½-gallon can..... **1.25**
75C8648—1-gallon can..... **2.40**
75C8649—5-gallon can..... **11.50**

See Covering Capacity of Our Varnishes (Also Shipping Weight) Below at Left



Miro-Lite Interior Varnish

\$3.20 Per Gallon

A very high quality varnish, not affected by water; can be rubbed dull. For interior work there is no better varnish made than Miro-Lite. It is a pale, brilliant, easy-flowing varnish, that preserves and develops the natural beauty of different kinds of wood to the best possible advantage. Not affected by hot or cold water. Will not crack, blister or turn white. Can be rubbed and polished. Very durable. Dries dust-proof in 6 to 8 hours. Can be rubbed in 48 hours. Very fine.

75C8610—Pint can..... **\$0.45**
75C8611—Quart can..... **.85**
75C8612—½-gal..... **1.65**
75C8613—1-gal..... **3.20**
75C8614—5-gal can..... **15.50**

Linoleum Varnish

For Linoleum or Floor Oilcloth

Linoleum lasts longer and keeps its new look longer when the surface is covered by a protective coat of varnish. Our special Linoleum Varnish is made particularly for this purpose. It has a hard, bright finish which protects the linoleum and preserves it from wear. Also keeps the pattern bright and fresh looking. Splendid for brightening and re-newing old linoleum. Easy to apply; anyone can use.

Floors can be used in 24 hours.
75C8650—Pint can..... **\$0.35**
75C8651—Quart can..... **.64**
75C8652—½-gallon can..... **1.26**
75C8653—1-gallon can..... **2.35**

Cabinet Finish Furniture Varnish

\$2.85 Per Gallon

A special, hard-drying varnish for all kinds of furniture and for church or school seats and church pews. A high grade, extremely hard-drying and durable varnish. For fine furniture, table tops, and cabinet work. Used for rubbing and polishing. Dries hard and will not stick. Dries dust-proof in six to eight hours. Can be rubbed in forty-eight hours.

We recommend our Cabinet Finish Furniture Varnish for either large or small jobs. Every gallon is guaranteed.

75C8665—Pint can..... **\$0.43**
75C8666—Quart can..... **.77**
75C8667—½-gallon..... **1.48**
75C8668—1-gallon..... **2.85**
75C8669—5-gallon can..... **13.75**

Interior Spar Varnish

For all kinds of interior work. A full bodied, easy-flowing, and durable varnish for interior work. Dries in color, flowing, and durability, is similar and equal to many of the "best" varnishes. Dries dust-proof in 6 to 8 hours. See below prices on our Special Outdoor Spar Varnish, which may also be used for interior work, where a very hard finish is desired.

75C8615—Pint can..... **\$0.40**
75C8616—Quart can..... **.72**
75C8617—½-gallon can..... **1.38**
75C8618—1-gallon can..... **2.65**
75C8619—5-gallon can..... **12.75**

Transparent Batavia Damar Varnish

An exceptionally beautiful, pale, transparent varnish. Made from high grade Batavia Damar Gum. For use in white enamel paint or over light colored paint or wall paper. Brilliant and full bodied. It flows and works well. Dries dust-proof in 6 to 8 hours, and hard in 36 hours.

Note our low prices on a varnish of this exceptionally high quality. We save you money on any and all kinds of varnishes.

75C8660—Pint can..... **\$0.45**
75C8661—Quart can..... **.85**
75C8662—½-gallon can..... **1.65**
75C8663—1-gallon can..... **3.20**
75C8664—5-gallon can..... **15.50**

Extra Light Copal Universal Varnish

For General Household Use For Floors, Furniture, Woodwork, Etc.



Suitable for practically all classes of work. For the very finest finishes, we recommend our special varnishes. But this Extra Light Copal will answer the purpose satisfactorily for the average job. Dries tough and hard, and does not easily mar or scratch.

A gallon of this varnish kept around the house is a mighty good investment. Lots of times a little varnish comes in handy for some odd job, and this is just the thing. You can use it anywhere.

75C8605—Pint can..... **\$0.40**
75C8606—Quart can..... **.72**
75C8607—½-gallon..... **1.38**
75C8608—1-gallon can..... **2.65**
75C8609—5-gallon can..... **12.95**

No. 1 Furniture Varnish

Our first grade furniture varnish. For all kinds of furniture, tables and chair work. It produces a hard and brilliant surface and will not crack or lose its gloss. Dries in 24 hours.

This is a high-grade, durable varnish, especially made for fine work on furniture and will give you a beautiful, long-wearing, fine gloss finish. Will give excellent service.

75C8670—Pint..... **\$0.32**
75C8671—Quart..... **.58**
75C8672—½-gallon..... **1.10**
75C8673—1 gallon..... **2.10**
75C8674—5 gallon..... **9.95**

Special Furniture Varnish

Made especially for use on furniture old or new. A good quality varnish and inexpensive. For a quick-drying, high-gloss finish, this varnish is exceptionally good. It will brighten up scarred and worn furniture at very little cost. Spreads easily and will dry very easily.

Note our low prices on this Special Furniture Varnish. On any size you order, you are bound to save money.

75C8685—Pint..... **\$0.29**
75C8686—Quart..... **.52**
75C8687—½-gallon..... **.97**
75C8688—1 gallon..... **1.85**
75C8689—5 gallon..... **8.75**

Rubbed Finish Varnish

Rubbed Finish Varnish, when applied over a varnished surface, produces the effect of a rubbed varnish, without the expense of rubbing down a gloss coat. It is a superior article, and produces a finish that is soft, pleasing and durable. Entirely free from wax. Dries in 24 hours. Used like regular varnish.

75C8655—Pint can..... **\$0.43**
75C8656—Quart can..... **.77**
75C8657—½-gallon can..... **1.48**
75C8658—1-gallon can..... **2.85**
75C8659—5-gallon can..... **13.75**

Outdoor Spar Varnish

For all outside work. Extremely hard and durable. Use it for front doors, store fronts, window casings, porch ceilings, etc. May also be used indoors where an extremely hard, wear-resisting varnish is desired—on floors, table tops, etc.

Made from high quality gums and oils and will not crack.
75C8600—Pint can..... **\$0.43**
75C8601—Quart can..... **.72**
75C8602—½-gallon can..... **1.38**
75C8603—1-gallon can..... **2.65**
75C8604—5-gallon can..... **12.75**

Covering Capacity and Shipping Weights
One gallon of our varnish will cover about 100 sq. ft. of surface on oak or about 400 sq. ft. on pine, one coat.
Shipping weight of varnish: 11 pounds per gallon; 7½ pounds per half gal.; 4 pounds per quart; 2½ pounds per pint.

Re-New-Var

Brings out the bright gloss of the original polish. Also preserves the wood. Will not injure the finest finish—you are safe in using it on your piano, furniture, floors, and on your automobile.

Easy to apply, simply dampen the cloth with Re-New-Var and go over the surface lightly. No Shaking Required.
75C8750—Pt. wt., 2 lbs. Price..... **24c**

VARNISH BRUSHES



39c and up

Varnish Brush Bristles Vulcanized in Rubber

Black Chinese bristles, extra fine, thick, soft. Chiseled edge. Metal ferrule.

Article Number	Width Inches	Bristles Inches	Wt. oz.	Each
75C651	1½	2½	2	\$0.39
75C652	2	3	3	.59
75C653	2½	3½	4	.79
75C654	3	4	5	.97
75C655	3½	4½	6	1.42



92c and up

Special RUBBERSET Quality Varnish Brush

Our very best flowing brush. For fine varnishing and enameling. For use on interior woodwork, floors and furniture. Made of selected black Chinese bristles, long and heavy. A genuine Rubberset Brush—bristles gripped in hard rubber to prevent their loosening. Chiseled edge. Nickel bound.

Article Number	Width In.	Bristles In.	Wt. Oz.	Each
75C612	2	2½	4	\$0.92
75C614	2½	3½	5	1.65
75C616	3	3½	6	2.12
75C618	3½	3½	7	2.45

Badger Hair Varnish Brush

For fine varnishing or enameling. Adapted for cabinet work, vehicles, planes.

Made of selected Badger Hair with just enough fine white French bristles for proper support. Chiseled correctly to give best service.

Vulcanized in rubber. Nickel-plated ferrule.

75C656—1½ in. 1½ in. **\$1.15**
75C657—2 in. 1½ in. **1.57**
75C658—2½ in. 1½ in. **1.85**
75C659—3 in. 2 in. **2.30**



\$1.15 and up

Fitch Flowing Brush

For enameling, bronzing, varnishing. Also for carriage and auto painting.

Fitch hair. Double thick. Chiseled edge.

Weight, each about 3 oz.
75C665—1 in. 1½ in. **\$0.46**
75C666—1½ in. 1½ in. **.57**
75C667—2 in. 1½ in. **.78**
75C668—2½ in. 1½ in. **.90**
75C669—3 in. 2 in. **1.08**

Paint and Varnish Remover

Softens the old finish so that it can be easily taken off by scraping or using Steel Wool.

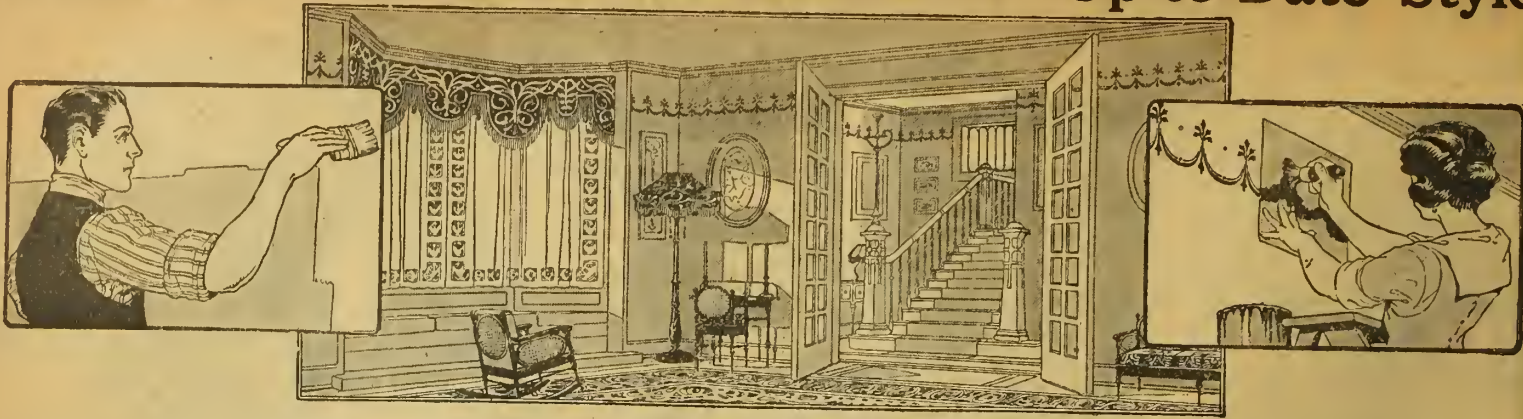
Will not injure the hands or discolor the wood. Easy to use. Directions furnished.

Choice of Liquid or Powdered.

Liquid
75C7796—Pt. cans..... **\$0.40**
75C7797—Quart cans..... **.70**
75C7798—½-gal. can..... **1.30**
75C7799—1-gal. can..... **2.40**

Powdered
In powdered form. Dissolve in water. Not as effective as the Liquid.
75C7805—1-lb. Package..... **20c**
75C7806—5-lb. Package..... **85c**
Our Powdered Paint and Varnish Remover is fine for cleaning paint brushes, also to wash paint covered overalls.

Costs Little to Finish Rooms in the Up-to-Date Style



Soft, Velvety Shades
Very Popular in Fine Homes

Wardway Flat Wall Finish

Anyone Can Apply
Sanitary—Easy to Keep Clean

Use Wardway Flat Wall Finish if you want to finish your rooms in the stylish "plain wall" effects which are so popular today. Recommended for living room, dining room, hall or bedroom.

The dainty colors of Wardway Flat Wall Finish make possible many artistic and beautiful color schemes. You have your choice of all the favorite tints, such as Shell Pink, Golden Brown, Quaker Gray and Old Rose (see full list of colors in column to right). By selecting harmonizing tints for walls and ceiling, you can give your rooms very striking and artistic effects. If you prefer paneled walls, our assortment of colors gives you a choice of a number of beautiful combinations.

\$2.45
Per Gallon

Colors of Flat Wall Finish
State Color Wanted
71½—White
126—Shell Pink
122—Light Canary
129—Willow Green
121—Buff
123—Light Tan
124—Golden Brown
130—Maple Green
128—Pale Azure
127—Quaker Gray
133—Deep Blue
132—Old Rose
120—Ivory

No experience is needed to apply Wardway Flat Wall Finish—comes all ready to use and is brushed on like ordinary paint. It dries quickly with a soft-toned, "flat" (no gloss) finish which is very attractive. Practically non-fading, and may be cleaned at any time with Wardway Wall Cleaner (see below).

Recommended for all interior work for walls, woodwork, plaster board or metal ceilings. Before using on wall that has never before sized apply a coat of Fresco Wall Size (see below). On smooth plastered walls one gallon of Flat Wall Finish will cover 200-250 sq. ft., 2 coats.

See Colors at Left. State Color Wanted.

75C8086—Quart..... \$0.6
75C8087—½ gal..... 1.2
75C8088—1 Gal..... 2.4
175C8089—3 Gal..... 7.2

Shipping weight, per gallon, 15 pounds.



Household Paints

Semi-Gloss Finish for Kitchen and Bathroom Walls, Woodwork, Furniture, Etc.

Here's the paint you've been looking for—just the thing for painting the walls of kitchen, pantry, small bedrooms, etc. Attractive semi-gloss finish which will retain its color and may be washed frequently without injury.

This paint can also be used for woodwork, furniture, etc.—in fact for any and all purposes around the house where a semi-gloss finish is desired. Hard-drying, long-wearing.

One gallon covers 250 square feet, 2 coats. Plastered walls, never before painted should first be sized with Fresco Wall Size. See Colors at left. State Color Wanted.

State color wanted.
Ivory Buff Old Rose
Cream Leather Brown Shell Pink
Light Tan Pale Blue Deep Blue
Light Gray Willow Green Maple Green

Sizes and Prices
75C8060—1 pint can..... \$0.45
75C8061—1 quart can..... .75
75C8062—½ gallon can..... 1.43
75C8063—1 gal. can. Ship. wt. 15 lb. 2.75

Liquid Enamels

Durable Glossy Finish for Furniture and Woodwork Also Plastered Walls

A beautiful water-proof enamel for use on wood or metal surfaces.

Just the thing for metal ceilings, kitchen walls, woodwork, furniture, etc., including metal bedsteads. Its smooth glossy finish may be washed without injury.

If you intend putting a lighter shade over a surface now painted with a dark one, first put on a priming coat of Towerlite White Undercoat (Page 868). If the surface is unpainted plaster wall, first use Fresco Wall Size.

One gallon of Liquid Enamel covers 200-250 sq. ft., 2 coats.



State Color Wanted
171½—White
171—Straw 175—Sky Blue
179—Cream 181—Light Tan 184—Willow
172½—Black Green
177—Silver Gray 183—Leather Brown

Sizes and Prices
75C8074—¼ pint..... \$0.15
75C8075—½ pint..... .25
75C8076—1 pint..... .50
75C8077—Quart..... .85
75C8078—½ gal..... 1.58
75C8079—Gal..... 2.95
Ship. wt., per gallon, about 15½ lbs.

Fresco Wall Size

For preparing walls for paint, kalsomine, flat wall finish. Fresco Wall Size seals the pores in a new wall or on a wall which has never before been painted, so that the first coat of paint applied will not soak in. Also kills "hot" spots—places where lime is working.

Prepared ready to use. Dries in 8 hours; 1 gallon will treat from 400 to 600 sq. ft.

75C8736—Quart. Ship. wt., 3¼ lbs. \$0.58
75C8737—½ gallon..... .97
75C8738—1 gallon Ship. wt., 12 lbs. 1.85
175C8739—5 gallons Ship. wt., 55 lbs. 8.75

Master Painters' Wall Size

Wall size in powder form. For use before painting or papering. 1 lb. makes 2 gallons wall size. Directions on packages.

75C8950—1 lb. package..... \$0.45
75C8951—Case of 10 packages..... 4.00

Wardway Kalsomine 48c in 4-lb. Pkg.

An inexpensive, sanitary Wall Finish. Will not rub off, flake, powder, peel or blister. Easily dissolved in cold water. 4-lb. package covers about 500 sq. ft. On new walls apply a coat of Fresco Wall Size before kalsomining.

12 Popular Colors and White

State Color Wanted
200—White
258—Light Cream 201—Buff 211—Pale Blue 210—Canary Yellow
203—Shell Pink 257—Light Buff 231—Deep Tan 254—Alice Blue
262—Pea Green 270—Pearl Gray 275—Pale Gray 230—Sage Green

Prices
75C8325—4 lb. package..... \$0.48
75C8329—25 packages (100 lbs.) all 1 color..... 1.25
175C8327—50 lb. box. (white or any shade)..... 5.50

Fresco Colors—For Stencils and Panelling. Used with Wardway Kalsomine shades for border, panels and stencils. Very rich, artistic colors. Select Colors which will "go well" with the shade of kalsomine used.

State Color Wanted
306 Leather Brown 75C8337..... 50 75C8338..... 50.20
308 Scarlet Lake 75C8343..... 1.65 75C8344..... .45
310 Deep Blue 75C8345..... 1.25 75C8346..... .33
313 Myrtle Green 75C8341..... 1.15 75C8342..... .30

Lamp Black

Just a little lamp black added to Kalsomine Colors makes a darker shade suitable for stenciling. Use sparingly, adding gradually until desired shade is obtained.

75C7883—¼ lb. pkg. 11c
75C7882—1 lb. pkg. 31c

Wardway Wall Cleaner

For Cleaning Painted, Papered or Kalsomined Walls,

[Also for Cleaning Window Shades

Wardway Wall Cleaner is a special preparation sold only by us. Unsurpassed for cleaning wall, window shades and similar material.

Comes in a cake, similar in feel to bread dough. You knead it as you clean the wall. Easy to use and will not injure the hands or surface upon which it is used.

75C856—Price, per package..... \$0.12
Per dozen packages..... 1.20

HRH Paint Cleaner

For Walls, Woodwork, Floors, Furniture, Etc.

A reliable brand, well known and extensively advertised. Fine for cleaning and renewing all kinds of painted surfaces; also for cleaning marble, mosaic floors and linoleum.

75C864—14 oz. Package..... 10c



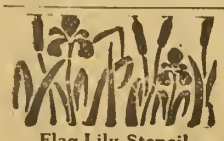
Calla Leaf Pattern
3 inches wide
75C8884—Each... 23c



Regular Pattern
2½ inches wide
75C8893—Each... 16c



Fruit Stencil
8 inches wide
75C8882—Each... 50c



Flag Lily Stencil
10 inches wide
75C8355—Each... 37c

Decorative Stencils

For Making Borders and Panels on Walls, Curtains, Table Covers, Etc.

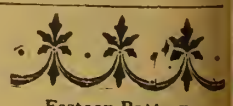
Sheets of heavy waxed paper, in which fancy border designs have been cut. Very popular for use in painting border designs around rooms finished with kalsomine, Flat Wall Finish, etc. May also be used for making borders on curtains, pillow-slips, etc. Shipping weight of stencils, each, 6 to 12 ounces.

75C735—Stencil Brush. Black Chinese Bristles, ½ in. long, set in rubber. ¾ in. wide, weight, 3 oz..... 18c
75C736—Same, except ¾ in. wide, with 1 in. bristles..... 22c

Stencil Brushes



Medallion Stencil
4¾ inches wide
75C8888—Each... 29c



Festoon Pattern
4¾ inches wide
75C8818—Each... 23c



Oak Leaves Stencil
3¼ inches wide
75C8874—Each... 26c



Rose Pattern Stencil
7 inches wide
75C8864—Each... 33c

Dry Colors, Glues and Other Painters' Materials at a Saving

For those who insist on them, we carry a complete line of dry colors, colors in oil, etc. at reasonable prices. But for the best and most satisfactory results, we recommend the ready-to-use paints we manufacture in our own factory. See prices of Coverall and Wardway House Paints on pages 864-865.

Cold Water Paint

Mixed with cold water, makes a paint that costs 30c a gallon. Pure white. Will not rub. Is a fire retardant. Approved by the Fire Underwriters' Laboratories. Apply either with a brush or sprayer.

Our Cold Water Paint is particularly adapted for interior painting of the kitchen, pantry, closets, also interior of dairy, work shop, poultry houses, and other buildings where a sanitary, fire-proof and light reflecting finish is desired at a small cost.

Five pounds makes a gallon of paint which will cover about 400 square feet.

This is not intended to take the place of oil paint.

75C8447	— 5-lb. packages. Per lb.	9c
75C8448	— 10-lb. packages. Per lb.	8½c
75C8449	— 50-lb. kegs. Per lb.	7½c
75C8450	— 100-lb. kegs. Per lb.	7c
275C8451	— 350-lb. bbl. Per lb.	6½c

Old Dutch White

An interior white that is whiter than any pure white lead. We recommend it for interior work as it will not discolor, and, being ground very fine in oil, it has a greater covering capacity than pure white lead. It is also much more economical, and being non-poisonous, it is used quite generally for interior finish in hospitals and public buildings. Excellent as an undercoat for enamels.

To prepare, add about 3 gallons of pure raw linseed oil, 1 quart of turpentine and 1 pint of Turpentine Japan Dryer to each 100 pounds of Old Dutch White. For flat finish reverse the quantities of linseed oil and turpentine.

175C8020	— 100-lb. keg. Per lb.	13c
175C8021	— 50-lb. keg. Per lb.	13½c
175C8022	— 25-lb. keg. Per lb.	14c
175C8023	— 12½-lb. keg. Per lb.	14½c
75C8024	— 5-lb. can. Per lb.	16c



Dry Colors

Used for tinting. Some of the colors are used for painting purposes by simply mixing with linseed oil. This we do not recommend. Unless you have facilities for putting the mixture through paint mill, your paint will lack that fineness and durability that is necessary in good paint. In Coverall or Wardway Paint you get fineness, covering capacity, durability and economy.

5C7882	— Lamp Black, Germantown.	31c
5C7926	— Raw Umber, Turkey.	10c
5C7928	— Burnt Umber, Turkey.	10c
5C7930	— Raw Sienna, Italian.	13c
5C7932	— Burnt Sienna, Italian.	13c
5C7947	— American Venetian Red.	5½c
5C7951	— Imperial English Venetian Red.	7c
5C7891	— Ultramarine Blue.	30c
5C7896	— Chrome Green.	31c
5C7941	— Yellow Rochelle Ochre.	6c
5C7943	— Imported Yellow Ochre.	12c
5C7955	— Red Oxide Iron Paint.	6c
5C7957	— Dark Red Iron Paint.	5½c
5C7959	— Prince's Mineral, Red Brown.	5½c

For Barrel quantities, write for our Paint Book.

Gilders Whiting

75C7917	— Extra Fine Quality Botted Whiting, Barrels (400 lbs.) Per lb.	2½c
75C7918	— Drums (100 lbs.) Per lb.	3½c
75C7919	— Smaller Quantity. Per lb.	5c

Plaster Paris

75C7913	— Plaster Paris, 250-lb. Bbl. per pound.	3c
75C7914	— Smaller Quantity. Per lb.	5c

Denatured Alcohol Shellac

Subject to Market Changes

Made from pure gum shellacs, cut with denatured alcohol. One gallon will cover from 300 to 400 square feet, one coat. Ship. wt., per gal. 10½ pounds.

White Shellac

75C8676	— Pint cans. Each.	\$1.08
75C8677	— Quart cans. Each.	2.10
75C8678	— ½-Gallon cans. Each.	3.85
75C8679	— 1-gallon cans. Each.	7.50

Orange Shellac

Used the same as white shellac, except on darker surfaces, such as oak. Also used for coating knots and sappy spots before painting.

75C8680	— Pint cans. Each.	\$1.00
75C8681	— Quart cans. Each.	1.94
75C8682	— ½-Gallon cans. Each.	3.52
75C8683	— Gallon cans. Each.	7.00

Substitute Shellac

Substitute Shellac is made from a hard gum cut in denatured alcohol and for most purposes produces results equal to genuine shellac. Use same as shellac. Ship. wt., per gal., 10½ lbs.

White

75C8740	— 1 pint.	\$0.35
75C8741	— ¼ quart.	.60
75C8742	— ½ gallon.	1.15
75C8743	— 1 gallon.	2.20

Orange

75C8744	— 1 pint.	\$0.34
75C8745	— ¼ quart.	.58
75C8746	— ½ gallon.	1.10
75C8747	— 1 gallon.	2.15

Hardwood Paste Filler

For filling the pores of hard or open grained woods, such as oak and ash, preparatory to varnishing. A ten-pound can will fill about 450 square feet. Colors, light, dark and golden oak. State color wanted.

75C8210	— 1-lb. can for.	\$0.14
75C8211	— 5-lb. can for.	.68
75C8212	— 10-lb. can for.	1.30
75C8213	— 25-lb. can for.	2.85

Liquid Wood Filler

For use on soft or close grained wood and on hardwood after treating with paste filler. 1 gal. will fill about 500 sq. ft. Ship. wt., per gal., 12 lbs.

75C8218	— Quart cans.	\$0.52
75C8219	— ½-gallon.	.88
75C8220	— 1-gallon cans.	1.63
175C8221	— 5-gallon cans.	7.65

Turpentine Substitute

Turpentine is used for thinning varnishes and paints, especially for interior finishes. It causes more rapid drying. This substitute is widely used instead of pure turpentine, because it is much cheaper, and yet gives fine results on all kinds of work. Use same as regular turpentine. Ship. wt. per gal., 10 lbs.

75C7695	— 1-gal. can.	\$0.80
175C7696	— 5-gal. can. Per gal.	.70
275C7698	— 25-gal. wooden bbl. Per gal.	.60
275C7699	— 50-gal. wooden bbl. Per gal.	.55



Superfine Coach Colors

Ground in Japan. For Carriage or Automobile Work. These colors are ground in big-grade coach Japan. They dry quickly and flat perfectly. Put up in 1-lb. cans. Shipping weight, 1½ pounds.

75C8490	— Extra Fine Ivory Black. Per can.	50c
75C8491	— Fine Ivory Black. Per can.	45c
75C8492	— Drop Black. Per can.	40c
75C8493	— Lamp Black. Per can.	60c
75C8495	— Ultramarine Blue. Per can.	80c
75C8496	— Brewster Green (Light, Medium or Dark). Per can.	65c
75C8497	— Carriage Green (Light, Medium or Dark). Per can.	55c
75C8498	— Indian Red. Per can.	45c
75C8499	— Tuscan Red. Per can.	50c
75C8500	— Burnt Sienna Italian. Per can.	50c
75C8502	— Raw Sienna Italian. Per can.	50c
75C8504	— Burnt Umber Turkey. Per can.	50c
75C8505	— Raw Umber Turkey. Per can.	50c
75C8508	— Chrome Yellow (Light, Medium or Dark). Per can.	56c

Colors Ground in Oil

Our colors are finely ground in pure linseed oil. In buying your colors in oil from us you are sure to be pleased. Used for tinting paints.

75C7976	— Drop Black. 1-lb. can each.	35c
75C7978	— Ivory Black. 1-lb. can each.	35c
75C7980	— Coach Black. 1-lb. can each.	32c
75C7982	— Lamp Black. 1-lb. can each.	39c
75C7986	— Ultramarine Blue. 1-lb. can each.	47c
75C7988	— Italian Sienna (raw or burnt). 1-lb. can each.	28c
75C7990	— Turkey Umber (raw or burnt). 1-lb. can each.	28c
75C7994	— Chrome Green (Light, medium and deep). 1-lb. can each.	30c
75C7998	— Tuscan Red. 1-lb. can each.	39c
75C8000	— English Venetian Red. 1-lb. can each.	35c
75C8002	— Indian Red. 1-lb. can each.	28c
75C8004	— Chrome Yellow (light, medium and orange). 1-lb. can each.	35c
75C8006	— French Yellow Ochre. 1-lb. can each.	25c
75C8008	— Red Lead. 1-lb. can each.	37c
75C8010	— Permanent Red. 1-lb. can each.	45c
75C8012	— Flat Brick Red. 1-lb. can each.	20c



Flake and Ground Glue

Ground and Amber do well for most purposes. White Cabinet is a white glue. Superior Flake is intended for finest furniture work. Transparent Flake is a white translucent glue. Carpenter's Ribbon is amber in color and has exceptional tensile strength. For ship. wt., figure 3 oz. more to each pound.

75C8560	— Ground Glue.	24c
175C8562	— Ground Glue, 200-lb. bbl.	22c
75C8563	— Amber Flake.	28c
175C8565	— Amber Flake, 200-lb. bbl.	26c
75C8566	— White Cabinet Flake.	48c
75C8570	— Superior Flake Glue.	40c
175C8572	— Superior Flake Glue, 200-lb. bbl.	38c
175C8573	— Transparent Flake Glue.	52c
75C8576	— Carpenter's Ribbon Glue.	50c

Superior Liquid Glue

Has unusual strength, prepared ready for use. No disagreeable odor. Will not sour or mold.

75C8580	— Ounce bottle. Ship. wt., 5 oz.	10c
75C8581	— ½-pt. cans. Ship. wt., 1½ lbs.	30c
75C8582	— Pint cans. Ship. wt., 1½ lbs.	50c
75C8583	— Qt. cans. Ship. wt., 3½ lbs.	85c

Double Glue Pots

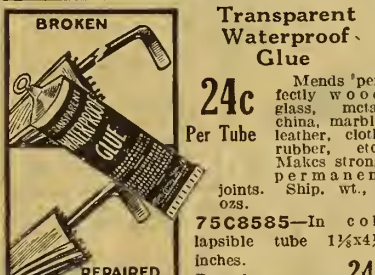
Made of Iron. Inner vessel has a porcelain enamel lining. 3 sizes. Ship. wt., 4 to 9 lbs.

75C784	— ½ pint size.	\$1.15
75C785	— 1-pint size.	1.20
75C786	— 1-quart size.	1.48

Jeffery's Liquid Glue

For attaching canvas, cork, felt, oil cloth, rubber, leather or linoleum to iron, steel or wood. Especially for waterproofing canvas. For covering decks and canvas sides of boats and canoes.

75C8955	— ½-pt. can.	\$0.44
75C8957	— 1-pint can.	.98
75C8958	— 1-qt. can.	1.77
75C8966	— 1-gal. can.	6.50
75C8965	— Special Emergency size can, about 5 oz.	33c



Jeffery's Special Marine Canoe Glue. Invaluable for quick repairs on canvas, wood or steel canoes or boats. Differs from Jeffery's Liquid Glue in that it is plastic and is applied after beating.



Strictly Pure White Lead in Oil

This White Lead is strictly pure and you are certain to be pleased with it. Prices subject to market changes. Full weight.

175C7825	— 100-lb. metal kegs.	15½c
175C7826	— 50-lb. metal kegs.	15c
175C7827	— 25-lb. metal kegs.	15½c
175C7828	— 12½-lb. metal kegs.	16c
75C7829	— 5-lb. can.	18c
75C7832	— 1-lb. can.	20c

Special Brand

Not a pure lead, but gives good service.

175C7829	— 12½-lb. keg. Per lb.	12½c
175C7830	— 25-lb. keg. Per lb.	12c
175C7831	— 50-lb. keg. Per lb.	12c
175C7832	— 100-lb. keg. Per lb.	11½c

American White in Oil

American White is not a pure lead. For the purpose intended, however, it will be found entirely satisfactory. It is used by plumbers for piping. Used for priming coat on sash, etc., where a cheap primer is desired, and for other purposes.

75C7836	— 1-lb. can. Per lb.	16c
75C7837	— 5-lb. can. Per lb.	14c

Pure French Zinc in Oil

75C7838	— 12½-lb. can. Per lb.	31c
75C7839	— 25-lb. can. Per lb.	30c
75C7840	— 1-lb. can.	35c
75C7841	— 5-lb. can. Per lb.	34c

Venetian Red—Ground in Oil

Use about 1 gal. linseed oil to each 12 lbs. of Venetian Red to get proper consistency for average use. 1 gallon of this paint will cover about 200 sq. ft., 2 coats.

75C7853	— 12½-lb. can. Per lb.	11c
75C7854	— 25-lb. can. Per lb.	11c
175C7855	— 100-lb. keg. Per lb.	10½c

Yellow Ochre—Ground in Oil

Use about 1 gal. linseed oil to each 12 lbs. of Yellow Ochre to get proper consistency for average use. 1 gal. of this paint will cover about 200 sq. ft., 2 coats.

75C7857	— 12½-lb. can. Per lb.	12c
75C7858	— 25-lb. can. Per lb.	12c
175C7859	— 100-lb. keg. Per lb.	11½c

Turpentine Japan Dryer

A very good binder and Strong Dryer. Mixes readily and does not injure the life of the paint. Will not sink or crumble.

75C8720	— Pint can.	\$0.24
75C8721	— Quart can.	.41
75C8722	— ½-gallon can.	.75
75C8723	— 1-gallon can.	1.40
175C8724	— 5-gallon can.	6.50

Crack and Crevice Filler

An elastic compound for filling cracks in floors, woodwork, etc., before painting or varnishing. Will not sink or crumble.

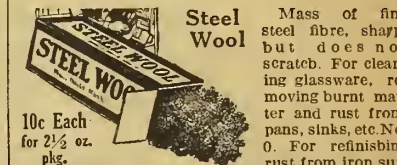
75C8228	— 1-lb. can. Each.	\$0.25
75C8229	— 5-lb. can. Each.	1.20

Fill-Tite

(A Water Putty)

A mineral combination in powder form. Prepared for use by mixing with water. For filling cracks. Dries hard as a rock in fifteen minutes. An ideal filler for holes and imperfections on concrete work, plastered walls, basements, iron or metal work.

75C8224	— 1-lb. packages for.	11c
75C8225	— 2-lb. packages for.	20c
75C8226	— 5-lb. packages for.	50c



Steel Wool

Mass of fine steel fibre, sharp, but does not scratch. For cleaning glassware, removing burnt matter and rust from pans, sinks, etc. No. 0. For refinishing rust from iron surfaces preparatory to painting, and all coarse work use our Steel Wool No. 3 or our steel shavings.

75C8235	— No. 0 very fine, soft, 1 lb.	82c
75C8236	— No. 0 in 2½ oz. Package.	10c
75C8237	— No. 1, equals sand paper No. 0.	70c
75C8238	— No. 1, 2½ oz. Package.	10c
75C8239	— No. 3, medium. Equals sand paper No. 1½ and 2.	48c
75C8240	— No. 3, 2½ oz. pkg.	10c
75C8241	— Steel Shavings, 1 lb. pkg.	47c

Linseed Oil and Turpentine

On account of market changes, it is impossible to quote prices in this catalog. Write us for current prices, or refer to our latest Grocery Catalog, where these oils are quoted.



Powdered Pumice Stone

Fine grade English Powdered Pumice Stone. Used with rubbing oil or water for rubbing down varnished surfaces, preparatory to polishing.

75C7875	— Per pound.	\$0.12
75C7876	— 25-lb. pkg.	1.95

Rubbing Oil

Used

PAINTERS' TOOLS

Painter's Time Saver

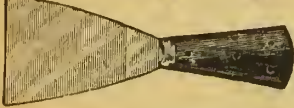
17c

PREVENTS DAUBING THE WALL

A handy little tool that saves time and helps you do better work. Hold it alongside the door or window frame—it keeps the paint off of the wall. Use to prevent getting paint on the window glass. Very handy for household use also—when cleaning woodwork, etc. Light metal, polished. Length, 8 3/4 in. Ship. wt., 5 oz.

75C852—Each.....17c

Scraping Knives



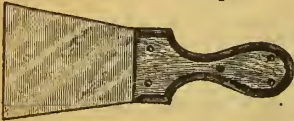
Article Number	Width of blade	Length of blade	Shp. Wt.	Each
75C865	2 1/2 in.	4 in.	6 oz.	33c
75C866	3 in.	4 1/2 in.	7 oz.	38c
75C867	4 in.	4 1/2 in.	8 oz.	53c

Plain Handle Scraping Knife

75C846—Each, 25c

Good, practical, low-priced. 4 1/2 in. steel blade. 3 in. wide. Handle riveted. Wt., 7 oz.

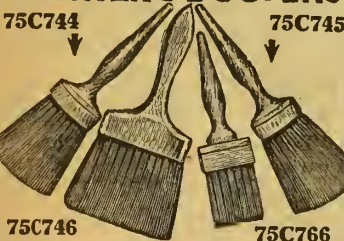
Wall Scraper



Stiff blade. Beechwood handle. Length of blade, 3 1/2 in. Width of point, 3 1/2 in. Ship. wt., 9 oz.

75C847—Each.....14c

PAINTER'S DUSTERS



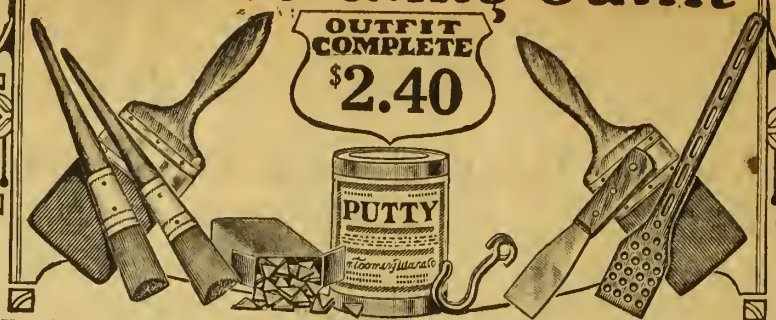
75C744 — All Hair Duster. 2 1/2 in. wide 3 1/2 in. bristles. **62c**

75C745 — Round Duster. Selected stock. Black bristles, 4 in. long. 2 1/2 in. wide. **\$1.05**

75C746 — Flat Duster. Full, springy bristles 4 in. long. 4 1/2 in. wide. Wt., 8 oz. **\$1.10**

75C766 — Wire Duster. For use on mouldings, crevices, etc. Size, 1 1/2 x 2 1/2 in. 2 1/2 in. bristles. Wt. 6 oz. **32c**

Home Painting Outfit



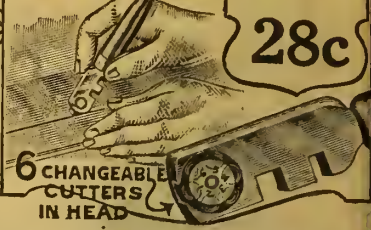
Here is a practical assortment of brushes and tools which will make painting easier and success surer. We offer it to our customers at a special price. Outfit consists of:

- 1 Flat Sash Brush. Width, 3/4 in. 1 1/2 in. long. Black Chinese bristles. Chiseled edge.
- 1 Flat Sash Brush. Width, 1 in. 1 1/2 in. long. Black Chinese bristles. Chiseled edge.
- 1 Rubberset Paint Brush. Black Chinese bristles. Width, 3 1/2 in. Bristles, 2 1/2 in. long.
- 1 Rubberset Paint Brush. Black Chinese bristles. Width, 3 in. Bristles, 2 1/2 in. long.
- 1 Paint Pot Hook.
- 1 Iron Paint Paddle.
- 4 lbs. Putty.
- 1 Steel Putty Knife.
- 1/4 lb. Glaziers' Points.

75C743—Ship. wt., 6 lbs. Outfit Complete.....\$2.40

PAINTERS' CUTLERY

Magazine Glass Cutter



A popular style glass cutter that gives long service. It has six changeable cutters in the head. When one gets dull, give screw a turn and set in a fresh one. Ship. wt., 2 oz.

75C901—Price.....28c



Putty Knives

Putty Knife 75C840—35c

Length of steel blade, 3 1/2 inches. Width, 1 3/8 inches. Shipping weight, 7 ounces.

Finest quality Putty and Glaziers' Knife. Walnut handle securely riveted. Elastic bevel point blade.

Putty Knife 75C841—34c

Same as 75C840 except with square point and stiff blade.



Sponges

75C887—Soft but tough, springy sponge called Sheepswool because of texture. Long-wearing. Resists action of acids and alkalis. Fine for washing walls, cleaning autos, etc. Ship. wt., about 4 oz. Each.....75c

Combination Glaziers' Chisel Putty Knife

A handy tool for digging out old putty, applying putty, removing window stops, etc. Strong wood handle. Steel lap holder. Wt., 7 oz.

75C933—Price....20c

PUTTY

High quality commercial putty, packed in tins.

75C7850—10-lb. tin.....65c

75C7851—5-lb. tin.....35c



Square Point Putty Knives

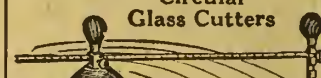
75C842—Each, 15c

Ship. wt., 7 oz.

Good grade Putty Knife. 3 1/2 inch stiff steel blade. Square point. 1 1/2 inch. Maple handle, securely riveted.

The "Dandy" Sponge

75C890—A big sponge at a low price. Coarser than the "Sheepswool" but will give good service and is durable enough to remove kalsomine from walls of several rooms. Ship. wt., about 18 c.



Circular Glass Cutters

Cuts circles from 2 1/2 to 20 inches in diameter. Has square bar arm to prevent cutter wheel from slipping. Made of polished steel.

75C930—Ship. weight, 4 oz.....49c

75C931—Three extra cuttling wheels for Circular Glass Cutter No. 75C930.....12c

Glass Cutter. Iron handle fitted with patented hardened steel wheel.

75C915—Ship. wt., 2 oz. Each.....10c

Special magazine glass cutter with 7 interchangeable cutters, 6 cutters are in handle. Enameled wood handle.

75C918—Ship. wt., 2 oz. Each.....30c

Glaziers' Diamonds

Genuine Glaziers' Diamonds, tested. Nickel plated mounting. Ship. wt., about 3 oz.

75C940—No. 5 Standard, cocobolo-wood handle. Recommended for heavy and constant use on all glass except large plate.....\$7.40

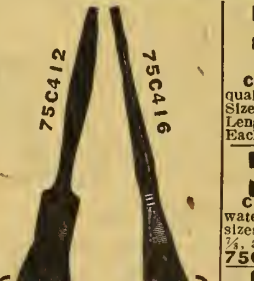
275C941—No. 7 Plate Superior Glaziers' Diamond. Snakewood handle. For all kinds of glass—rough and polished plate. Shipped from Chicago, postpaid.....\$9.90

Glaziers' Points

Zined Glaziers' Points.

75C950—Per 1/4-pound paper.....8c

SIGN AND CARD WRITERS' BRUSHES



75C412—Flat Brush. Ox hair, chiseled edge. Nickel ferrule. Wt., 2 oz. Width, 1 1/2 in. Lgh Hair 1 1/2 1 3/4 Price....40c 55c 73c

75C416—Stroke Brush. Ox hair, square point. Nickel ferrule. Can be used in water or oil colors. Wt., 2 oz. Width, 1 1/2 in. Lgh. Hair, 1 1/2 1 3/4 Each 14c 22c 32c 48c

75C422—Weight, 2 ounces. Card Writers' Lettering Pencil. Fine quality, genuine camel hair. Nickel ferrule. Sizes.....2 4 6 8 10 Length Hair.....1 1 1 1 1 1 1 1 1 1 Each.....8c 10c 12c 16c 20c

Camel Hair Marking Brush. Used for water and oil colors. Wt., 4 oz. Set of four sizes, 1, 2, 3 and 4, with length of hair 3/8, 1/2, 3/4, and 1 inch.

75C440—Per set.....20c

Ox Hair Riggers. Used by card and sign writers for making letters, lines, etc. Square point. Nickel ferrules.

75C406—Weight, 2 ounces.

Size 2. 1-inch hair.....13c

Size 4. 1 1/2-inch hair.....16c

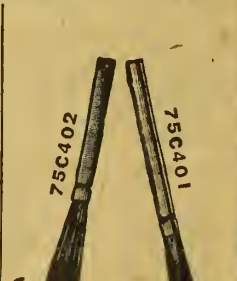
Size 6. 1 3/4-inch hair.....22c

Dagger Striper

For auto or carriage work. Fine quality camel hair. 1 1/2 in., 2 1/2 in. long. Wt., 1 oz.

Sizes.....2 1 2 3

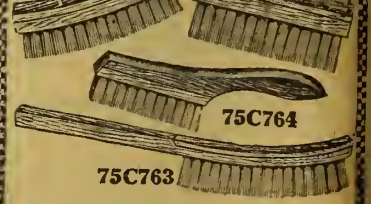
75C408—Each. 20c 24c 26c 28c



75C402—Striping Pencil. Fine camel hair, 2 in. long in quills. Wt., 1 oz. Sizes 2 4 6 8 Price 10c 13c 18c 24c

75C401—Lettering Pencil. Fine camel hair. 1 1/2, 1 1/4 and 1 1/2 in. long. Wt., 1 oz. Sizes 4 6 8 12 Price 11c 15c 18c 34c

WIRE CLEANING BRUSHES



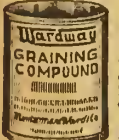
75C762—Curved Back. Especially for polishing floors before varnishing. Size, 2 1/4 x 7 in. 1 1/2 in. bristles. Wt., 12 oz.66c

75C760—Straight Back. Size, 2 1/4 x 7 in. 1 1/2 in. bristles. Wt., 16 oz.38c

75C764—"Shoe handle." Size, 1 x 5 in., length with handle, 10 in. 1 1/2 in. bristles. Wt., 5 oz.34c

75C763—Long Handle. Especially for corners and scratching. Size, 6 1/2 x 1 1/2 in., length with handle, 14 in. 1 1/2 in. bristles. Wt., 7 oz.32c

SPECIAL GRAINING TOOLS AND COLORS



Graining Compound

A liquid preparation by which graining is done. Put up in cans ready for use. Apply with a brush thinly and evenly over the surface, then use the graining tools immediately while the coating is still fresh. One pint covers about 100 square feet.

75C8440—Pint can. Wt., 3 lbs.....33c

75C8441—Quart can. Wt., 7 lbs.....57c



Graining Combs

Special imported English Blue Steel graining combs for producing the effect of genuine grain in the wood.

75C748—In 12 assorted sizes. Packed in the compartment case. Shipping weight, 12 ounces. Set.....\$1.43

75C749—English Steel Graining Combs. Reproduces fine grains of wood. Width, 3 inches. Shipping weight, 2 ounces. Each.....17c



New Home Grainer

Produces imitation of any wood. Length rollers, 5 inches. One roller produces heart-shape wood grains, the other is a blender. Steel comb produces fine grains of wood. Shipping weight, 8 ounces.

75C750—Entire set, with instructions.....72c

Complete Graining Outfit



Experience unnecessary. Easy to use and inexpensive. You can make old, dark, dirt-stained floors or woodwork of any kind look like new. Directions included. Weight, 16 lbs. Outfit consists of:

- 1 Quart Co-Var Finish Graining Compound Color
- 1 Pint Graining Compound. Oak
- 1 Quart Co-Var Natural Gloss Finish.
- 1 3-inch Grainer and Steel Comb.
- 1 Brush, 1 1/2 in. wide. 1 Brush, 2 1/2 in. wide.

75C8438—Outfit complete. Our price.....\$3.10

Graining Colors in Oil

In paste form. Prepare for use by mixing to the consistency of paint, or a little heavier, with one part boiled linseed oil and two parts turpentine. Put up in 1 and 5-pound cans. Colors are Mahogany, Cherry, Walnut, Light Oak and Dark Oak. State color.

75C8015—1-pound can.....\$0.34

75C8016—5-pound can.....1.65



Rubber Graining Rollers

With these 3 rollers you can do any kind of graining without the use of other tools. One roller imitates a straight grain, the other quarter-sawed oak and the third takes the place of graining combs. 5 in. long; diam. 1 1/2 in.

75C756—Set. Ship. wt. 89c

15 ounces. Extra long rollers for wide panels, like "A." Length, 8 in.

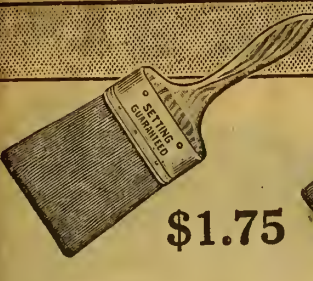
75C753—Each.....75c

Magic Handle Grainer

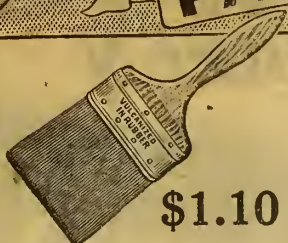
You rock the roller at the same time you slide it along. Every change or movement makes a different grain.

75C752—Wt., 7 oz.....28c

PAINT BRUSHES



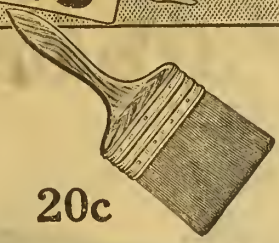
\$1.75



\$1.10



The Painters Favorite
\$1.95



20c



\$1.90

Flat Paint Brush
Extra Long Black Bristles
Vulcanized in Rubber
A high quality brush with long, all black Chinese bristles, uniformly tapered. Metal ferrule.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
5C540	3	3 1/2	7.5	\$1.75
5C541	3 1/2	4	9	2.10
5C542	4	4 1/2	10.5	2.40
5C543	4 1/2	5	12	2.70

Flat Paint Brush
Bristles Vulcanized in Rubber
Select black Chinese bristles, full firm, elastic. Nickel-plated ferrule.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C546	3	3 1/2	6	\$1.10
75C547	3 1/2	4	7	1.38
75C548	4	4 1/2	8	1.68
75C549	4 1/2	5	9	2.05

A practical brush for all house painting.
Built for hard use and long service.
Black Chinese Bristles, four inches long, vulcanized in rubber to set them firm. Nickel bound. Measures 4 inches wide. Ship. wt., 12 ounces.
*75C701—Length of bristles, 4 in. Price, each..... \$1.95
75C704—Length of bristles, 3 1/2 in. Price, each..... \$1.62

Flat Paint Brush
Black Chinese Bristles
A fair brush for odd jobs. Good quality black Chinese bristles, tinned ferrule. Cement set.

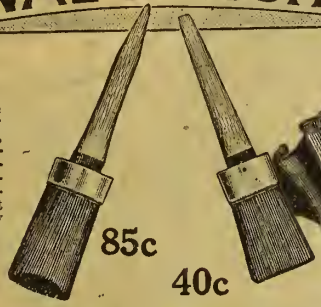
Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C558	2 1/2	2	3	20c
75C559	3	2 1/2	4	45c
75C560	3 1/2	3	5	50c
75C561	4	3 1/2	6	65c
75C562	4 1/2	4	7	80c
75C563	5	4 1/2	8	95c

Flat Paint Brush
Full, Firm Stock
Select black Chinese bristles vulcanized in rubber. Spreads smoothly and evenly.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C583	3 1/2	3 1/2	7	\$1.20
75C584	4	4	8	2.38
75C585	4 1/2	4 1/2	9	2.70

OVAL BRUSHES

Oval brushes are much used for painting, molding, ornices and fretwork; also for varnishing large surfaces. But for ordinary use a flat brush is generally preferred.



85c

40c

For Paint or Varnish
Selected Black Chinese Bristles, full and springy stock. Nickel ferrule.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C680	1 1/2	3	4	\$0.85
75C681	2	3 1/2	5	1.10
75C682	2 1/2	4	6	1.35
75C683	3	4 1/2	7	1.60

For Varnish
This is a special oval brush made particularly for varnishing. Black Chinese Bristles.
75C677—1 1/2 in. wide, 2 1/2 in. bristles. Nickel ferrule. Wt., 4 ounces.... 40c
75C678—Same as 75C677 except 2 3/4 in. wide and 2 1/2 in. bristles. Wt., 10 oz..... 59c

White Russian Bristles
Selected white Russian bristles set in hard rubber. Brass bound.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C623	3	3	6	\$1.30
75C625	3 1/2	3 1/2	7	1.95
75C627	4	4	8	2.40
75C629	4 1/2	4 1/2	9	3.15

Black Chinese Bristles
A very satisfactory brush for general painting. Best selected long Chinese Bristles.
Guaranteed quality—with bristles set in hard rubber to keep them from loosening.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C532	3	3 1/2	6	\$1.80
75C533	3 1/2	4	7	2.35
75C534	4	4 1/2	8	3.78

LEATHER BOUND BRUSHES

For Varnish Brushes See Page 869



RUBBERSET
BRISTLES GRIPPED IN HARD RUBBER
Genuine Rubber Set Brushes
The bristles in these Rubber Set Brushes are guaranteed to be securely gripped in hard rubber, vulcanized. Will not loosen or come out.



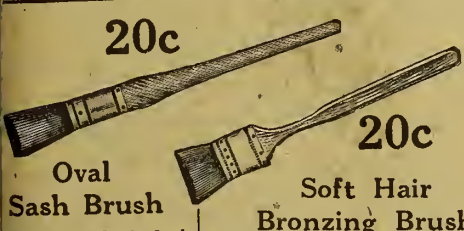
\$3.80

\$3.55

"Stucco" Brushes
Long, full, springy stock set in hard rubber and leather bound. Regular Rubber Set quality. Called "stucco" because they can be used for heaviest work.
75C589—3 1/2 in. wide, 4 1/2 in. bristles. \$3.80
75C591—Same as 75C589 except 4 inches wide, with 4 1/2 inch bristles. Wt. 9 oz. Ea. \$4.45
75C593—Same as 75C589 except 4 1/2 inches wide, with 4 1/2 inch bristles. Wt., 10 oz. Each..... \$4.92

"Stucco" Brushes
Selected White Russian Bristles. Rubber set quality. Bristles set in hard rubber to keep them from loosening. Leather bound. Full, springy stock.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C580	3 1/2	4	7	\$3.55
75C581	4	4 1/2	8	4.20
75C582	4 1/2	4 1/2	9	4.80



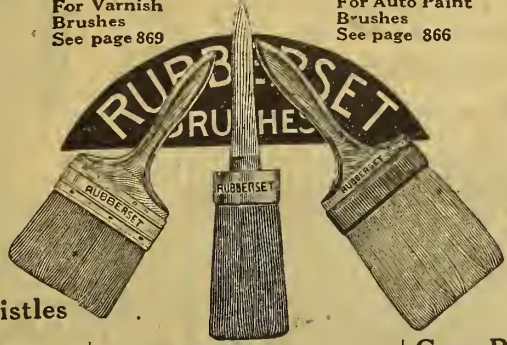
20c

20c

Oval Sash Brush
75C510—Oval Sash Brush. Black Chinese Bristles. 1/4 in. wide, 1 1/2 in. bristles, wt. 2 oz..... 20c

Soft Hair Bronzing Brush
Made of fine, soft Goat Hair. Used for bronzing small articles and for enameling radiators, steam pipes, etc. Length, including handle, about 10 inches.

Article Number	Width In.	Hair Inches	Wt. Oz.	Each
75C604	1	1 1/2	1	\$0.20
75C605	1 1/2	1 1/2	1	.25
75C606	2	1 1/2	2	.35



For Varnish Brushes See page 869

For Auto Paint Brushes See page 866

Oval Paint Brush
Rubber Set
Long, full, Black Chinese Bristles.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C628	2 1/2	4 1/2	7	\$3.20
75C630	2 3/4	4 3/4	8	4.35
75C632	2 3/4	4 3/4	9	4.85

Gray Russian Bristles
Rubber Set
White Outside, Rubber Bound

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C631	3	4	6	\$2.45
75C633	3 1/2	4 1/2	7	3.05
75C635	4	4 1/2	8	3.55
75C637	4 1/2	4 1/2	9	4.05

Kalsomine Brushes

(Shown Below, at Left End of Group)
These are strictly reliable Kalsomine brushes, that will give long service and continued satisfaction. They are made from Black Chinese Bristles, vulcanized in rubber to prevent bristles loosening or coming out, and are metal bound. Strong, substantial, good quality in every way. Brushes 75C525 and 75C526 have extra long selected Black Chinese Bristles. Order by number.

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C520	5 1/2	3 1/2	12	\$1.75
75C521	6 1/2	3 1/2	14	2.20
75C522	7 1/2	3 1/2	16	3.10
75C523	8 1/2	3 1/2	18	4.10
75C524	9 1/2	3 1/2	20	5.40

Black Chinese Bristles
Rubber Set
Set in Rubber, Metal Bound

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C551	2 1/2	3 1/2	4	\$0.50
75C552	3	4	5	.60
75C553	3 1/2	4 1/2	6	.80
75C554	4	5	7	1.10
75C555	4 1/2	5 1/2	8	1.58
75C556	5	6	9	2.10
75C557	5 1/2	6 1/2	10	2.70

KALSOMINE AND WHITEWASH BRUSHES



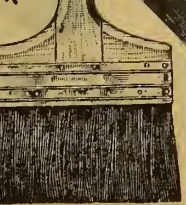
75C520

75C490

75C493

75C460

75C566



Our whitewash brushes are made to stand hard usage. Bristles are firmly set and metal bound. Brushes 75C490 and 75C491 are made of Black Chinese Bristles. Brushes 75C460 and 75C461 and 75C462 are made of White Tampico Fiber outside, with a black mixed fiber center.

Article No.	Width	Lgth. Bristles	Weight	Price
75C490	7 in.	2 1/2 in.	10 oz.	\$1.10
75C491	8 in.	2 1/2 in.	12 oz.	1.40
75C460	6 in.	3 in.	12 oz.	1.40
75C461	7 in.	3 in.	14 oz.	1.80
75C462	8 in.	3 in.	16 oz.	2.20

RUBBERSET WHITEWASH BRUSHES

White Russian Bristles
Set in Rubber, Leather Bound
See illustration in center of group at left

Article Number	Width Inches	Bristles Inches	Weight Ounces	Each
75C493	7 1/2	3 1/2	15	\$2.95
75C495	8 1/2	3 1/2	15	3.35
75C496	9 1/2	3 1/2	15	4.40

Clean Your Brushes
After using brush, clean it with turpentine or Paint and Varnish Remover (see page 869), and rinse well in clear water. Lay up to dry.
Never use a brush for painting that has previously been used for varnishing or vice versa, unless first thoroughly cleaned.

RADIO Slate Surfaced ROOFING

Choice of 2 Colors RED or GREEN



FIRE-RESISTING

Guarantee
15
Years

RADIO Slate Surface Roofing is a permanent, durable roll roofing, weather-proof, spark-proof, watertight and fire-resisting. Guaranteed for 15 years but will last longer.

Choice of 2 popular colors—Garnet Red or Sea Green. Colors are the colors of the natural crushed slate on the surface and are permanent and non-fading. Suitable for either city or country homes, and for any kind of roof—steep-sloping, or nearly flat.

Easy to lay—no experience required. Nails and cement furnished with each roll. Radio Roofing can be laid right over old shingle roofs without removing the shingles.

Constructed of rag felt, heavily saturated with asphalt and given an extra coating of selected asphalt to make it double waterproof. Surfaced with a heavy layer of real crushed slate, which is protection against flying sparks, besides giving the roofing a beautiful soft-shaded color, very attractive on any home.

Width of rolls, 32 inches; length, 40½ feet. Contains 108 square feet and will cover 100 square feet, or one "square". Has a 2-inch smooth edge, so the cement will always stick firmly, and it also serves as a guide for laying. Large-head galvanized nails, liquid cement for laps and simple directions for laying are included.

Prices Per Roll Shipped Promptly from Chicago

- 274C54—Garnet Red Color, with regular 1-inch nails \$4.15
- 274C55—Garnet Red Color, with long nails for over old roofing \$4.25
- 274C56—Sea Green Color, with regular 1-inch nails 4.15
- 274C57—Sea Green Color, with long nails for over old roofing \$4.25

Add 15c per roll for shipment from warehouses at Saint Paul, Minn., Pittsburgh, Pa., or Atlanta, Ga.
Shipping weight, per roll, 85 lbs.

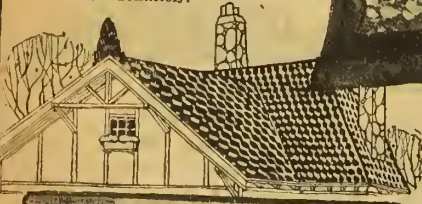
Approved by the Underwriters' Laboratories, Inc. Under Direction National Board of Fire Underwriters



You Can Lay Radio Roofing Right Over Old Wood Shingles

Order the roll with the long nails, made especially for laying Radio Roofing over old Shingle roofs.

Simple and easy to lay. The only tools you will need are a hammer and a jack-knife. It requires no painting or other attention and will last indefinitely.



**REAL CRUSHED SLATE
HEAVY ASPHALT COATING
EXTRA TOUGH ROOFING FELT SATURATED WITH ASPHALT**

**RADIO
Twin Color
Mosaic Roofing**
Guaranteed 15 Years

Approved by the Underwriters' Laboratories, Inc. Under direction of National Board of Fire Underwriters. Strikingly attractive with all the advantage of roll roofing. Combination red and green slate surface.

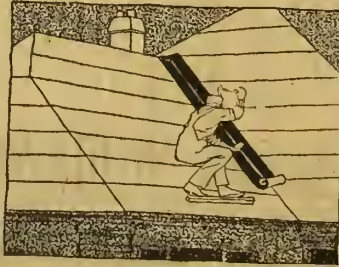
The colors are permanent. Each rain washes the roofing clean and bright. The slate surface will not wash or blow off, being firmly embedded in the Asphalt top covering. The slate surface also gives valuable fire protection against flying sparks.

Has all the advantages of solid roll roofing—economical and easy to apply—with none of the draw-backs of small shingles.

Rolls contain 108 square feet; to cover 100 square feet, allowing for 2-inch lap. Width, 32 inches; length, 40½ feet.

Complete, with regular 1-inch large-head galvanized nails, liquid cement for laps, and simple directions so that anyone can lay it. If applied over old shingles, use 74C196 Long Nails, about 2 pounds to the roll.

174C64—Radio twin-color Mosaic Roll Roofing. Ship. wt., 90 lbs. Roll of 108 square feet. \$5.70



RADIO Valley Strips
Narrow Rolls for Covering Valleys and Ridges.

Use Radio Strips for Covering Valleys and Ridges. Save time and material. Same material as our Radio Roofing with crushed slate surface. Cut in convenient strips. Two widths: 8 inches and 16 inches wide. Length, 40½ feet. The 8-inch width is used for covering valleys of roofs. Either red or green color at same price. Order nails separately.

- 174C62—Garnet Red Color. Roll, 8 in. Ship. wt., 19 lbs. \$1.45
- 174C63—Sea Green Color. Roll, 8 in. Ship. wt., 19 lbs. \$1.45
- Width, 16 in. Ship. wt., 38 lbs. 2.65

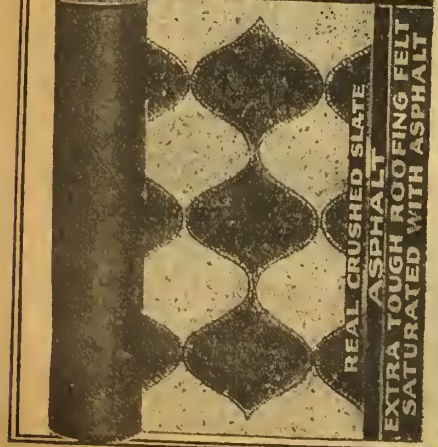


RADIO V-End Strip Shingles

Comes in long strips, width, 17½ in., length, 48 ft. Laid 12 in. nailed with a 5-inch overlap. Depth of notches, 3 in., width, 9 in. Complete with 1 in. galvanized nails. Ship. wt., 95 lbs.

- 174C132—Red Slate Color. Per square (to cover 100 sq. ft.) \$5.
- 174C133—Green Slate Color. Per square (to cover 100 sq. ft.) \$5.

Shipped from stock at Chicago.



RADIO SHINGLE ROLL ROOFING

Choice of 2 Colors RED or GREEN

Guaranteed
15
Years

WEATHERPROOF

RADIO Shingle Roll Roofing is a beautiful yet very strong and durable roll roofing, made to appear on the roof like actual wood shingles stained in red or green.

Cheaper and better than wood shingles—and on account of its heavy construction and crushed slate surface will last much longer without repairs.

Comes all ready to lay—all you need is a hammer and jack-knife—no experience needed. Can be put on right over an old shingle roof without removing the old shingles.

Made of heavy sheets of rag felt, each fibre of which is thoroughly saturated with genuine asphalt to render it waterproof and increase tensile strength. Coated with a heavy layer of specially blended asphalt into which is embedded the natural crushed slate in pleasing and attractive shades of red and green with permanent shingle design produced by the use of scientifically prepared asphalt lines. Extremely artistic and durable as well as low in price.

Comes in rolls of 32 inches wide and 40½ feet long; 108 square feet—enough to cover 100 square feet, and allow for two-inch lap. Packed with large head galvanized nails and cement.

Prices Per Roll Shipped from Stock at Chicago

- 274C40—Garnet Red Color, with regular 1 in. nails \$4.95
- 274C41—Garnet Red Color, with long nails for over old roofing \$5.05
- 274C42—Sea Green Color, with regular 1 in. nails 4.95
- 274C43—Sea Green Color, with long nails for over old roofing \$5.05

Add 15c per Roll for Shipment from Warehouse at Saint Paul, Minn.

Shipping Weight, Per Roll, 85 Lbs.

Approved by the Underwriters' Laboratories, Inc. Under Direction National Board of Fire Underwriters

You can Lay Radio Roofing Right Over Old Wood Shingles.

Order the roll with the long nails made especially for laying Radio Roofing over old shingles. No experience required. The only tools you will need are a hammer and jack-knife. Requires no painting.

Lay Shingle Roll "Up and Over."

The shingle design extends cross-wise of sheet, providing for laying "up and over"—(from eaves to ridge instead of from front to back.)

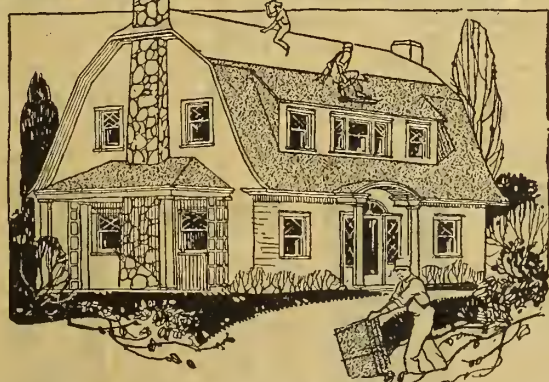
REAL CRUSHED SLATE
HEAVY ASPHALT COATING
EXTRA TOUGH ROOFING FELT SATURATED WITH ASPHALT

Samples Sent on Request

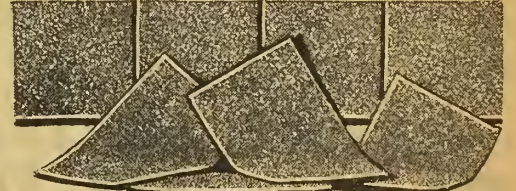
ASPHALT SHINGLES



RADIO
Quadruple (4 in a Strip) Square End Asphalt Shingles
Four shingles in each strip so this style can be laid in ½ the space needed for individual shingles. Length of strips, 32 in.; width, 10 in. Contains four complete shingles in each strip. Lower edge cut with notches, to give the effect of a regular shingle. Comes in crates—two crates to the square—enough to cover 100 sq. ft. Nails not included. Need 200 pounds 1½-inch galvanized nails for each crate.
Heavy Grade Guaranteed 15 years.
174C117—Red Slate 174C118—Green Slate
Laid 4 inches to the weather. Makes a roof of two thicknesses and three thicknesses where nailed. Ship. wt., about 200 lbs. Per square (to cover 100 sq. ft.) \$3.95



RADIO Asphalt Slate Surfaced Shingles make a handsome, economical roof—suitable for the finest buildings in the city or country. They give you the decorative effect of slate or tile at low cost. Radio Asphalt Shingles are absolutely water-proof and fire-resisting. They will not dry out, curl, crack, swell or shrink. Each style is of a uniform standard size, so that they are easily laid without waste. The top surface is of crushed slate in the natural colors, Red or Green. This crushed slate is imbedded in genuine asphalt. Under this is tough felt, thoroughly saturated with asphalt. Guaranteed for 15 years.



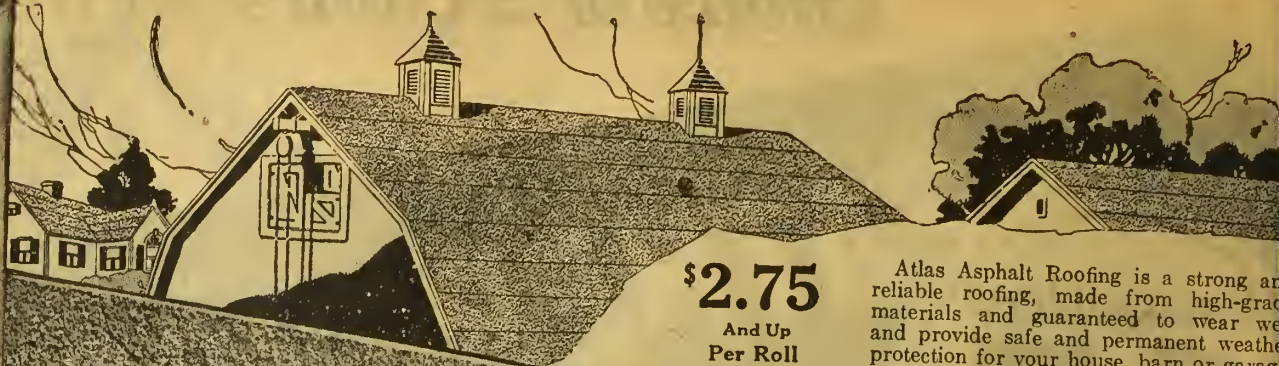
Radio Individual Asphalt Shingles.
Made of the same high quality products used in our high grade shingle roll roofing listed above, but made much stiffer. Radio shingles make the finest kind of a roof. Fire-resisting—beautiful red or green slate surface, that never fades or loses its rich coloring. Size of each shingle, 8x12¾ in. Will not split, warp or crack. Needs no painting. Nails not included. Use 4 lbs. 1½-in. galvanized nails per square.
Heavy Grade. Guaranteed 15 years.
174C122—Red Slate 174C123—Green Slate
Laid 4 inches to the weather. Makes a roof of three thicknesses and four thicknesses where nailed. Four boxes to the square. Ship. wt., about 220 lbs. Per square (to cover 100 sq. ft.) \$9.95

Shipped Promptly from Chicago
Prices Subject to Market Change

Shipped Promptly from Chicago
Prices Subject to Market Change

ATLAS ASPHALT ROOFING

Smooth Surface—Mica Coated



\$2.75

And Up
Per Roll

Atlas Asphalt Roofing is a strong and reliable roofing, made from high-grade materials and guaranteed to wear well and provide safe and permanent weather protection for your house, barn or garage. For most houses we would recommend our Radio Colored Slate Roofing (see previous pages) but the Atlas Brand is a very satisfactory roofing, especially for barns and garages, and we guarantee it for from 7 to 12 years according to the weight you select.

Manufactured from long fibre tough felt, and saturated and coated with Asphalt, which will not dry out or evaporate. Surfaced on both sides with fine crushed mica. This allows the roofing to unroll freely and aids its weather resisting qualities. Contains no tar or other evaporative matter. Nothing to ooze out, even in the hottest weather, and will not crack in the coldest. Absolutely weather-proof. Suitable for either steep or nearly flat roofs. Absence of crack or discolor rainwater, and is free from odor. Requires no special tools. Each roll is packed complete with large-head galvanized nails, liquid cement for the laps and simple directions for laying. Width of roofing, 32 in. In roll of 108 sq. ft., enough to cover 100 sq. ft., allowing 2-in. lap. Made in three different weights all the same quality, the only difference being in thickness and weight.

Light

Weight per roll, 35 pounds.
Guaranteed 7 Years.
For barns, cattle sheds, etc.

Prices per Roll
Shipped from Chicago

274C20—With regular nails.....**\$2.75**

274C21—With long nails for over old shingles. **\$2.85**

Add 15c per roll for shipment from Warehouses at Saint Paul, Minn., Pittsburgh, Pa., or Atlanta, Ga.

Medium

Weight per roll, 45 lbs.
Guaranteed 10 Years.
For large barns, silos, etc.

Prices per Roll
Shipped from Chicago

274C24—With regular nails.....**\$3.35**

274C25—With long nails, for over old shingles.....**\$3.45**

Add 15c per roll for shipment from Warehouses at Saint Paul, Minn., Pittsburgh, Pa., or Atlanta, Ga.

Heavy

Weight per roll, 55 lbs.
Guaranteed 12 Years.
Use this where an exceptionally heavy roof is required.

Prices per Roll
Shipped from Chicago

274C28—With regular nails.....**\$4.10**

274C29—With long nails for over old shingles. **\$4.20**

Add 15c per roll for shipment from Warehouses at Saint Paul, Minn., Pittsburgh, Pa., or Atlanta, Ga.

Easy
to Lay
Atlas Roofing

Guaranteed 7-10-12 Years

Tarred Roofing Felt



174C249—A good grade of tough felt, thoroughly saturated with best distilled coal tar. Used extensively for roofing sheds, lumber camps, and temporary buildings.

Also used in making built-up flat roofs, where it is applied in from 3 to 6 layers. Each layer and the top surface should be coated with tar and the top surface covered with gravel.

For temporary work, order tin caps and roofing nails with this felt, as they are not included. Use 1½ lbs. tin caps, 1 lb. nails to each roll. For permanent work use tar and gravel for top surface. In rolls 36 in. wide, containing about 350 sq. ft. Shipping weight, about 55 lbs. Roll (subject to market changes)..... **\$3.45**

Handy Repair Stick



74C260—A waterproof asphalt compound for mending leaks in all kinds of roofing, iron, felt, slate, shingles, eave troughs, tanks, tubs, boats, etc. Always ready. Waterproof and will stick to anything. Black color. Shipping weight, 1 lb. Stick..... **20c**

Large Head Galvanized Roofing Nails

Heavy wire nails as furnished with our Asphalt Roofings. Well galvanized and rust-resisting with wide flat heads. For Felt Roofing. Prices subject to market changes.

74C195—Standard size. Length, 1 in. Pound..... **16c**

74C196—Extra long size. Length, 1¼ in., for over old shingles. Pound..... **16c**

Roofing Nails for Use with Tin Caps Wire Roofing Nails

Barbed roofing nails for use with tin caps. Each square of roofing requires about 1 lb. of 1-in. or 1¼-in. nails, or about 1½ lbs. of 1½-in. nails. (Prices subject to market changes.)

Tin Roofing Caps

74C180—Tin Roofing Caps for tarred felt roofing. Each square of roofing requires 1½ lbs. caps. **10c**

Plain Barbed Roofing Nails

74C184—174C185

Length	Per lb.	Per Keg 100 lbs.
1 in.....	12c	\$10.75
1¼ in.....	12c	10.75
1½ in.....	12c	10.75

Galvanized Barbed Roofing Nails

74C190—174C191

Length	Per lb.	Per Keg 100 lbs.
1 in.....	15c	\$13.75
1¼ in.....	15c	13.75
1½ in.....	15c	13.75

Combination Roofing



174C87—Light. Ship. wt., 35 lbs. Roll..... **\$2.15**
174C88—Medium. Ship. wt., 45 lbs. Roll..... **2.55**
174C89—Heavy. Ship. wt., 55 lbs. Roll..... **2.95**

Made of felt, saturated with asphalt and finished one side with a smooth asphalt coating and on the other side with fine sand or flint. Can be used with either side up, on either steep or nearly flat roofs. This roofing is sold without a guarantee for a definite period and is not made of the high grade materials found in our other roofings, but is good enough for temporary buildings, where a long-lived, durable fabric is not essential. Width, 32 in. Rolls contain 108 sq. ft., enough to cover 100 sq. ft., allowing for 2-in. lap. Complete with regular 1-in. large-head nails and liquid cement for the laps.

Note—If you want a really good roof, buy our Atlas, Radio or other guaranteed Roofings. They are the cheapest in the end.

Herald Black Felt Sheathing

\$3.35
174C226—For use between sheathing and siding, also in lining floors. Made from tough paper felt thoroughly waterproofed with distilled tar. Resists wind, moisture and vermin. Strong and durable. Better than ordinary building paper. Clean to handle. The faint tar odor of this sheathing is of great value in dispelling mice, rats, bugs, moths, etc. Rolls contain 500 square feet. Width, 32 inches. Average shipping weight, 45 lbs. (Prices subject to market changes.) Roll..... **\$3.35**

Red Rosin-Sized Sheathing

\$1.40
For use under siding and between floors. Made of best pulp paper stock with a hard, smooth surface, thoroughly rosin sized, which helps to exclude wind, moisture and vermin. Tough, clean, durable. Rolls contain 500 square feet. Width, 36 in. (Prices subject to market changes.)
174C218—Light. Ship. wt. about 20 lbs. **\$1.40**
174C220—Medium. Ship. wt., 30 lbs. Roll..... **\$2.10**
174C223—Heavy. Ship. wt., 40 lbs. Roll..... **\$2.75**

Standard Deadening Felt

\$4.90
174C237—For deadening the sound between floors and in walls. An excellent protection against frost, or for insulation of heat, etc. Used between floors, adds greatly to the warmth and comfort of a home. Nothing is more annoying than to hear every footstep or sound from the floor above. This felt helps to overcome this trouble. Made thick and heavy. Rolls contain about 450 square ft. Width, 36 in. Average ship. wt., 50 lbs. (Subject to market changes.) Roll..... **\$4.90**

Asbestos Building Felt

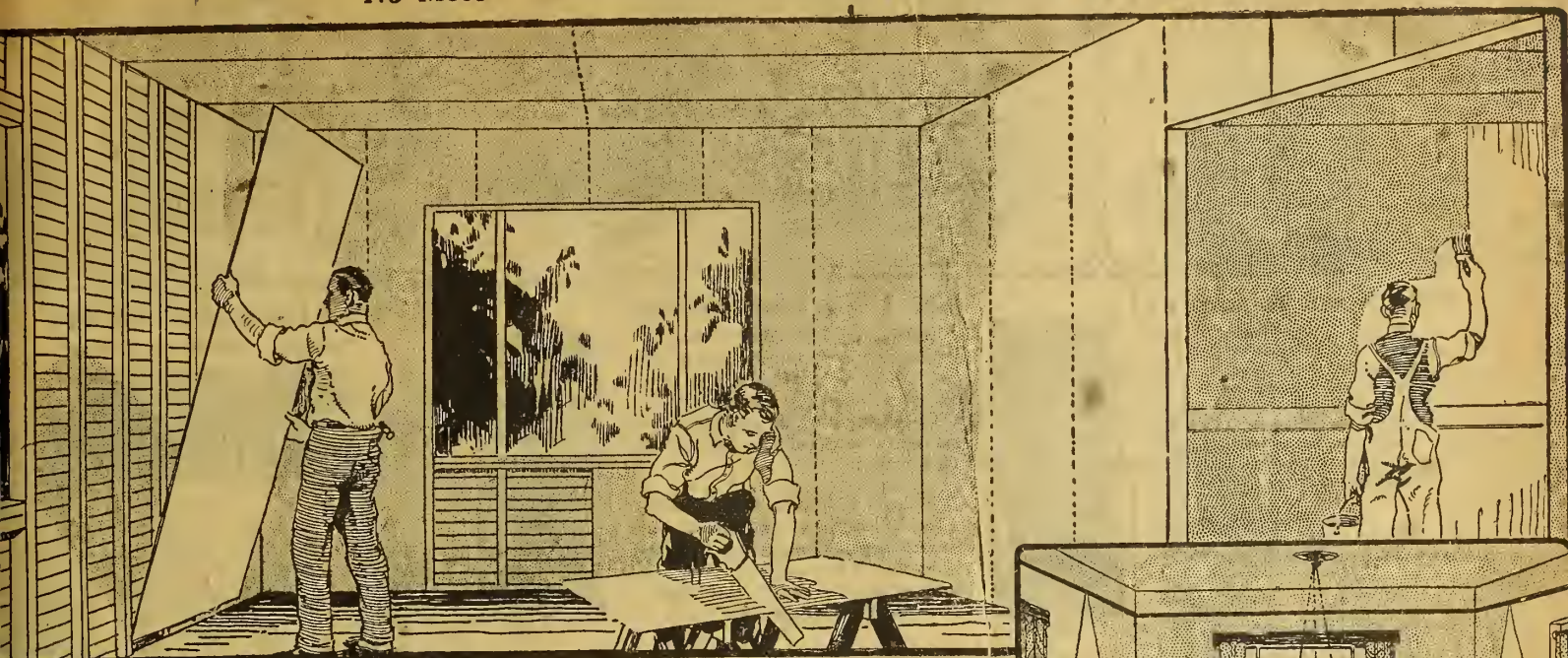
\$5.65
174C244—Standard Asbestos Sheathing. An excellent insulator for heat and cold. For lining buildings, refrigerator cars, ice houses, etc. To go between floors or for general building purposes. Extensively used for covering warm air pipes from furnaces, etc. Will not burn even if brought into contact with flames. Makes an excellent sound deadener. Rolls contain 450 sq. ft. Width, 36 in. Average shipping weight, 50 lbs. (Subject to market changes.) Roll..... **\$5.65**

Blue Plaster Board

\$2.35
A strong, durable cardboard, extensively used in place of lath and plaster on walls and ceilings. Used over boards or direct on studding. The best material made for sheathing and insulating. Usually applied with large head tacks and then painted, covered with wall paper or covered with wood panel strip at the seams. Has a purplish blue color. Width 36 in. (Prices subject to market changes.)
174C234—Rolls of 250 sq. ft. Ship. wt., 30 lbs. Roll..... **\$2.35**
174C235—Rolls of 500 square feet. Ship. wt., 60 lbs. Roll..... **\$4.65**

Use Wall Board in Place of Lath and Plaster

No Mess—No Trouble—No Waiting for Plaster to Dry



SUPERB Wall Board

Tough—Pliable—Permanent

Superb Wall Board is used for new walls, for covering old plaster, for repair work, for attics, basements, summer-cottages, garages, poultry houses; for sheathing where not exposed to the weather, etc. Comes in large sheets which reach from floor to ceiling, requiring fewer joints, less time and labor. No waiting for favorable weather. Ready to put up and the wall is ready for base board and all trim, as soon as board is on.

Superb Wall Board is easy to put up. The man who knows how to handle a saw and drive nails can do a first-class job without trouble. Superb comes in convenient lengths and two widths, 32 inches or 48 inches. Put on with ordinary bung head or flat head, 4-penny nails. Complete instructions furnished with each shipment. Can be papered, painted or kalsomined or walls may be paneled, which gives a very pleasing, artistic effect, especially in dining rooms, dens, attic bedrooms and the like.

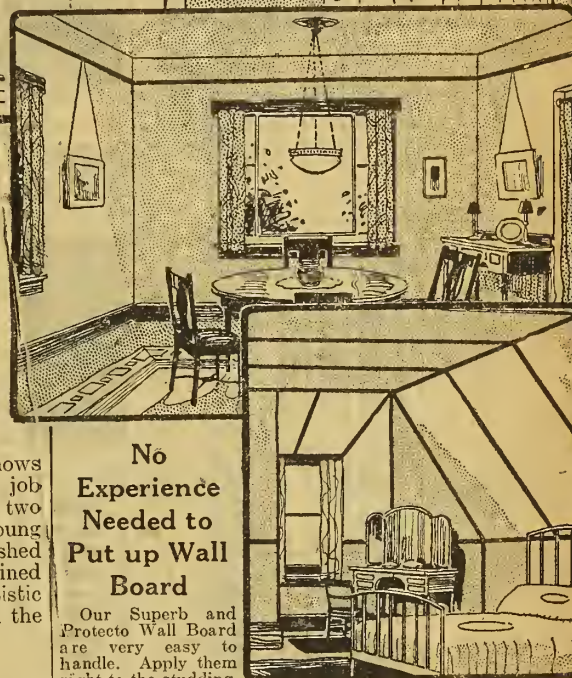
Construction

Superb Wall Board is composed of three layers of heavy fiber board joined together by a permanent adhesive asphalt. Strong and durable with enough pliability to make it easy to handle and apply. Treated with a prime coating compound which acts as a sizing coat, making the board ready for decoration without any further sizing.

Kinds of Finishes

Gray color mill finish on both sides, or tan one side, gray the other side. The tan finish is suitable for temporary decorative effect, requiring when panel strips are used, no painting or other decoration. The gray color is a plain mill finish, not sized and should be painted or kalsomined if a decorative effect is desired. We can also furnish the 32-inch width in Golden Oak finish for 4 cents a sheet more than the same size of the Tan, but we cannot guarantee this finish not to fade.

Securely crated for shipment and should reach you in best condition.



No Experience Needed to Put up Wall Board

Our Superb and Protecto Wall Board are very easy to handle. Apply them right to the studding, thus saving the expense of lath. Sheets reach from floor to ceiling. No expense for "headers" or extra support. With our assortment of sizes, any wall up to and including 9 ft. can be finished without an end joint.

Unlimited Possibilities for Decoration

Both Superb and Protecto Wall Board are furnished ready-sized. They can be papered, kalsomined, tinted and decorated in every way that a plaster wall can be decorated. Panel strips can be used for decoration but are not necessary unless you wish for more elaborate effects. Remember also, that if you do use panel strips, it is not necessary that they follow the joints of the wall board.

Samples Sent FREE on Request

Prices of SUPERB Wall Board

Shipped direct from factory in Cincinnati, Ohio.

Width of Sheet Inches	Length of Sheet Feet	Square Feet Per Sheet	Ship. Wt. Per Sheet Lbs.	Gray Finish Per Sheet 274C300	Tan Finish Per Sheet 274C301	Golden Oak Finish 274C302
32	6	16	14	\$.07	\$ 1.12	\$ 1.20
32	8	21 1/2	18	1.43	1.49	1.60
32	9	24	20	1.61	1.68	1.80
32	10	26 3/4	23	1.79	1.87	2.00
32	12	32	26	2.14	2.24	2.40
48	6	24	20	1.61	1.68	1.80
48	7	28	23	1.88	1.96	2.10
48	8	32	26	2.14	2.24	2.40
48	9	36	29	2.41	2.52	2.70
48	10	40	32	2.68	2.80	3.00
48	12	48	38	3.22	3.36	3.60

PROTECTO Plaster Core Wall Board

Extra Strong, Heavy, Fire-Resisting

Use Protecto for residences and other new or old buildings. Protecto Wall Board has a specially constructed plaster core which is fire resisting, moisture proof and heat proof. Equal in service and strength to a lath and plaster wall. Not a cheap plaster board but a high grade wall board ready for decoration as soon as it is put up. No dampness, no delay, no settling crack, no lath stains. You can save money by using Protecto.

Can you handle a saw and hammer? Then you can apply Protecto Wall Board successfully. With each order we furnish complete, easy directions. You do not need a carpenter. The edges are cut true and even. Saw it with an ordinary saw and put it on with No. 4 flat head nails (about 1 pound for each 10 sheets). No lath to buy because you nail it right onto the studding. No high priced labor required. Write to us for a sample of Protecto.

Construction of Protecto Wall Board

Distinctive feature of Protecto Wall Board is its hard plaster core or center.

A nail driven through this plaster core will not crack it.

Top and bottom layers are constructed of heavy, tough fibre paper.

Top layer is saturated with plaster composition and sized or treated with a waterproofing compound, all ready for decorating same as a plaster wall.

Prices of PROTECTO Wall Board

Order by Number 274C311 and Size.

Size of Sheets in Inches Width Length	Number of Sq. Ft. Per Sheet	Number of Sheets Per Crate	Price Per Sheet	Wt. Per Crate Pounds	Price Per Sheet in Less Than Crate Lots	Wt. Per Sheet Pounds
32 x 36	23	23	\$7.95	330	\$0.36	14
48 x 72	24	8	12.75	335	1.63	42
48 x 84	28	7	13.05	350	1.91	50
48 x 96	32	6	12.80	335	2.18	56
48 x 108	36	5	11.95	315	2.45	63
48 x 120	40	5	13.30	350	2.72	70

Shipped from Factory at Grand Rapids, Mich., or Buffalo, N. Y.

Superb Crack Filler

For filling cracks between the sheets and give a flat surface for painting or decorating.

274C305—1-lb. can.....\$0.30

5-lb. can.....1.10

10-lb. can.....2.00

Order about 8 pounds of filler for each 1,000 ft. of 48 in. board, and about 9 pounds per 1,000 ft. of the 32 inch.

Superb Joint Tape

Gummed strips of tough fibre paper to cover joints. All ready to use. Width, 1 1/2 inches.

274C306—Gray. 274C307—Tan.

Price per 100 ft. roll (wt., 8 ounces) 48c

If ordered separately, allow extra for Parcel Post.

Superb Panel Strips

Narrow wood strips to cover joints where joint tape is not used. Also for making attractive panel effects as shown in bedroom picture above.

Pine or Red Oak. Thickness, 3/16-inch.

Width, 3/4 inch. Wt., per 100 ft., 15 lbs.

274C308—100 lineal ft. Pine.....\$3.00

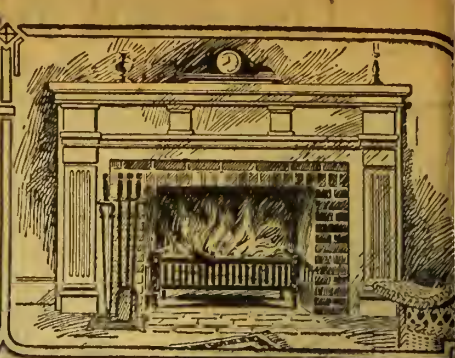
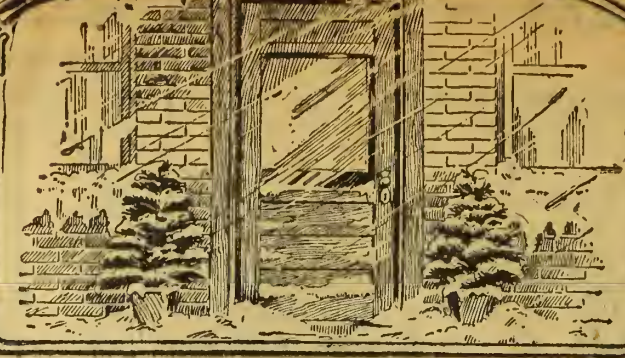
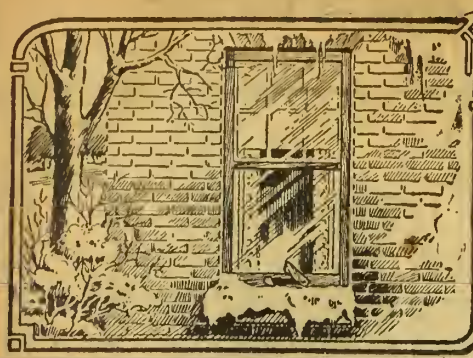
274C309—100 lineal ft. Plain Red Oak.....\$4.50

Protecto Crack Filler

To fill joints between sheets. Order about 17 pounds for each 1,000 feet. Mix filler with water to the consistency of thick paste. Be careful that none of the filler is left on the face of the board.

274C312—Crack Filler (per lb.) in lots of 17 lbs. or more.....4c

Shipped with wall board. If ordered separately, allow for Parcel Post.



White Pine Storm Windows

Storm Sash 1 1/2 in. thick. Manufactured of clear white pine. Carried in stock in the following sizes only. Two-light sash can be furnished which have glass widths, 12-16-18-20-22-24-26-28-30-32-36 and 40 inches and glass heights 16-20-22-24-26-28-30-32 and 34 inches. If size wanted is not listed, specify size desired and take price of next larger size. Ventilators not furnished at prices quoted. If wanted, allow 20c each extra and specify same on order. Allow 2 weeks extra time for making up sash not shown below.

2-Light Storm Windows

Size of Glass In.	274C207 Price Glazed Single Strength Glass		274C236 Price Glazed Double Strength Glass		Outside Measurement of Sash		
	Price	Wt. Lbs.	Price	Wt. Lbs.	Width Ft.	Height In.	Height In.
12x20	\$2.34	23	.....	.....	1	4 1/4 x 3	11 1/2
12x24	\$2.70	26	.....	.....	1	4 1/4 x 4	11 1/2
12x28	\$3.06	29	.....	.....	1	4 1/4 x 5	11 1/2
16x20	\$2.70	25	.....	.....	1	8 1/4 x 3	11 1/2
16x24	\$3.12	29	.....	.....	1	8 1/4 x 4	11 1/2
16x28	\$3.70	32	.....	.....	1	8 1/4 x 5	11 1/2
18x20	\$2.98	27	.....	.....	1	10 1/4 x 3	11 1/2
18x24	\$3.52	31	.....	.....	1	10 1/4 x 4	11 1/2
18x28	\$4.10	34	.....	.....	1	10 1/4 x 5	11 1/2
20x20	\$3.38	29	\$3.84	31	2	0 1/4 x 3	11 1/2
20x24	\$3.84	33	\$4.40	35	2	0 1/4 x 4	11 1/2
20x28	\$4.34	36	\$4.68	38	2	0 1/4 x 5	11 1/2
20x28	\$4.28	36	\$4.98	38	2	0 1/4 x 5	11 1/2
22x20	\$3.66	31	\$4.20	33	2	2 1/4 x 3	11 1/2
22x24	\$4.10	35	\$4.67	37	2	2 1/4 x 4	11 1/2
22x26	\$4.29	36	\$4.99	38	2	2 1/4 x 4	11 1/2
22x28	\$4.58	37	\$5.34	39	2	2 1/4 x 5	11 1/2
24x20	\$3.84	33	\$4.44	35	2	4 1/4 x 3	11 1/2
24x24	\$4.34	36	\$5.25	38	2	4 1/4 x 4	11 1/2
24x26	\$4.56	37	\$5.33	39	2	4 1/4 x 4	11 1/2
24x28	\$4.94	38	\$5.85	40	2	4 1/4 x 5	11 1/2
26x24	\$4.55	38	\$5.32	40	2	6 1/4 x 4	11 1/2
26x26	\$4.94	39	\$5.86	41	2	6 1/4 x 4	11 1/2
26x28	\$5.41	41	\$6.42	43	2	6 1/4 x 5	11 1/2
26x30	\$5.94	41	\$7.02	43	2	6 1/4 x 5	11 1/2
28x24	\$4.94	40	\$5.80	42	2	8 1/4 x 4	11 1/2
28x26	\$5.41	41	\$6.36	43	2	8 1/4 x 4	11 1/2
28x28	\$5.97	42	\$6.98	44	2	8 1/4 x 5	11 1/2
28x30	.....	.....	\$7.05	45	2	8 1/4 x 5	11 1/2
30x28	.....	.....	\$7.05	45	2	10 1/4 x 5	11 1/2
30x30	.....	.....	\$7.25	47	2	10 1/4 x 5	11 1/2
30x32	.....	.....	\$7.33	49	2	10 1/4 x 5	11 1/2
32x28	.....	.....	\$8.25	49	3	0 1/4 x 5	11 1/2
32x30	.....	.....	\$8.25	49	3	0 1/4 x 5	11 1/2
32x32	.....	.....	\$9.24	51	3	0 1/4 x 5	11 1/2
36x28	.....	.....	\$9.22	51	3	4 1/4 x 5	11 1/2
36x30	.....	.....	\$9.42	53	3	4 1/4 x 5	11 1/2
36x32	.....	.....	\$10.63	56	3	4 1/4 x 5	11 1/2
40x28	.....	.....	\$10.71	57	3	8 1/4 x 5	11 1/2
40x30	.....	.....	\$10.92	59	3	8 1/4 x 5	11 1/2
40x32	.....	.....	\$11.68	62	3	8 1/4 x 5	11 1/2

No. 1 Fir Storm Doors

Storm Doors like storm windows pay for themselves every winter in saving of fuel alone. They are easily installed in Fall and taken down in Spring and you will be delighted with the noticeable difference in the warmth of your home and the added comfort.

The doors in list are manufactured of the highest grade clear material and can be varnished or painted as desired. Thickness, 1 1/2 inches. Carried in stock in the sizes listed below. The Alaska door is glazed clear. Double strength glass.



Width	Size	Height	Siberia 274C221	Shlp. Wt.	Alaska 274C213	Shlp. Wt.
2 ft.-6 1/4 in.	10. x 6 ft.-7 1/4 in.	11 1/2 in.	\$5.88	60	\$6.97	58
2 ft.-8 1/4 in.	10. x 6 ft.-9 1/4 in.	11 1/2 in.	5.08	64	7.37	62
2 ft.-8 1/4 in.	10. x 7 ft.-1 1/2 in.	11 1/2 in.	6.53	70	7.37	70
3 ft.-0 1/4 in.	10. x 7 ft.-1 1/2 in.	11 1/2 in.	6.90	74	8.55	72

4-Light Storm Windows

Size of Glass	274C239 Price Glazed Single Strength Glass		Wt. Lbs.	Outside Measurement of Sash		
	Price	Wt. Lbs.		Width Ft.	Height In.	Height In.
10x20	\$2.98	36	2	1 1/4 x 3	11 1/2	11 1/2
10x22	3.60	38	2	1 1/4 x 4	11 1/2	11 1/2
10x24	3.87	40	2	1 1/4 x 4	11 1/2	11 1/2
10x26	4.19	41	2	1 1/4 x 4	11 1/2	11 1/2
10x28	4.41	42	2	1 1/4 x 5	11 1/2	11 1/2
10x30	4.54	44	2	1 1/4 x 5	11 1/2	11 1/2
12x20	3.83	38	2	2 1/4 x 3	11 1/2	11 1/2
12x22	4.14	40	2	2 1/4 x 4	11 1/2	11 1/2
12x24	4.48	42	2	2 1/4 x 4	11 1/2	11 1/2
12x26	4.74	43	2	2 1/4 x 4	11 1/2	11 1/2
12x28	5.10	44	2	2 1/4 x 5	11 1/2	11 1/2
12x30	5.63	45	2	2 1/4 x 5	11 1/2	11 1/2
12x32	5.96	47	2	2 1/4 x 5	11 1/2	11 1/2
14x24	4.20	44	2	3 1/4 x 4	11 1/2	11 1/2
14x26	5.25	45	2	3 1/4 x 4	11 1/2	11 1/2
14x28	6.09	46	2	3 1/4 x 5	11 1/2	11 1/2
14x30	6.35	47	2	3 1/4 x 5	11 1/2	11 1/2
14x32	6.70	49	2	3 1/4 x 5	11 1/2	11 1/2
15x24	5.43	44	2	4 1/4 x 4	11 1/2	11 1/2
15x26	6.28	46	2	4 1/4 x 4	11 1/2	11 1/2
15x28	6.08	47	2	4 1/4 x 5	11 1/2	11 1/2
15x30	6.94	48	2	4 1/4 x 5	11 1/2	11 1/2
15x32	7.42	50	2	4 1/4 x 5	11 1/2	11 1/2

When ordering sash be sure to always give widths first

Iron Fireplace Fixtures



Cast iron, black finish. Burns hard or soft coal.

Length Inches	Width Inches	Shlp. Wt. Pounds	274C284 Price
18	12	50	\$5.40
20	12	55	6.00
22	13	60	6.40
24	13	65	7.10
27	13	75	7.95
30	13	85	8.55

Fireplace fixtures shipped from factory in Ohio.

Fireplace Sets

Complete as shown with new design stand and hall handled above, tools, and poker. This set is neat, attractive and very durable. Height, 27 inches. Shipping weight, 25 lbs. 274C285—Black Polish Iron Fireplace set. Price.....\$4.40



Andirons

274C286—H.L. 16 inches. Posts of seamless steel 2 1/2 in. sq. Ball of cast iron. Diam. 3 1/2 in. Dull black finish. Shlp. wt., 50 lbs. Price, per pr.....\$4.25

For Cottage Windows

Three-light storm sash 1 1/2 inch thick, glazed double strength glass, carried in the following sizes only. Ventilators if wanted 20c each extra.

Size of Glass Bottom	Top	274C243 Price	Wt. Lbs.	Outside Measurement of Sash Ft. In.	Height Ft. In.
40x40	40x14	\$9.65	89	3-8 1/4 x 5-1 1/2	11 1/2
40x40	40x16	9.90	93	3-8 1/4 x 5-3 1/4	11 1/2
44x40	40x16	11.60	102	4-0 1/4 x 5-3 1/4	11 1/2
44x44	40x16	13.15	110	4-0 1/4 x 5-7 1/4	11 1/2

Ornamental Floor Tile



Up-to-Date Designs Reasonable Prices

The ideal, sanitary floor covering for bathrooms, kitchens, vestibules and floors in stores, offices, etc. Your choice of popular figured tile in 3 favorite colors, also plain white tile with hexagonal blocks. Figured design as shown at left.

When figured tile is wanted, always send a sketch showing exact size and shape of room, so we can determine the amount of border needed. (Price of border is included in the price of the tile). If unable to figure exact amount of plain white tile needed, send us a sketch and we will quote you a price.

274C205—Red and White Patterned tile.	42c
274C227—Black and White Patterned tile.	42c
274C228—Blue and White Patterned Tile.	42c
274C229—Plain white 1 inch hexagon tile.	42c
Per sq. ft. shipped from factory in West Virginia.	35c

Combination Screen and Storm Door

Galvanized Wire Screen Panel for Summer

\$9.80 and up Complete with 2 Changeable Panels

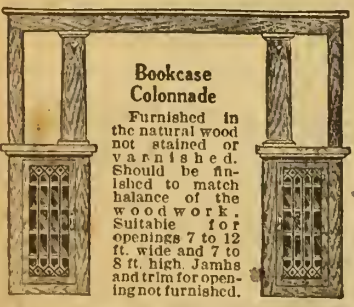
Glazed Storm Panel for Winter

The Year Around Door Keep out the Flies in Summer

The Year Around Door Keep out the Cold in Winter

Manufactured of No. 1 Quality White Pine—Strongest Construction

Width	Size	Height	Thickness	274C222 Price	Shipping Wt., Pounds
2 ft.-8 1/4 in.	6 ft.-9 1/4 in.	1 1/2 in.	1 1/2 in.	\$9.80	65
2 ft.-10 1/4 in.	6 ft.-11 1/4 in.	1 1/2 in.	1 1/2 in.	10.30	73
2 ft.-10 1/4 in.	7 ft.-1 1/2 in.	1 1/2 in.	1 1/2 in.	10.35	75
3 ft.-0 1/4 in.	7 ft.-1 1/2 in.	1 1/2 in.	1 1/2 in.	11.40	78



Bookcase Colonnade

Furnished in the natural wood not stained or varnished. Should be finished to match balance of the woodwork. Suitable for openings 7 to 12 ft. wide and 7 to 8 ft. high. Jambs and trim for opening not furnished.

Order these to match other woodwork. Hardware for Colonnade priced separately. May be ordered or not as desired. Shipping weight of colonnade, 250 lbs.

Prices

274C292—Bookcase Colonnade in Yellow Pine	\$51.40
274C293—Bookcase Colonnade in Oak	59.30
274C280—Lemon Brass Hardware for Bookcase Colonnade	\$2.10

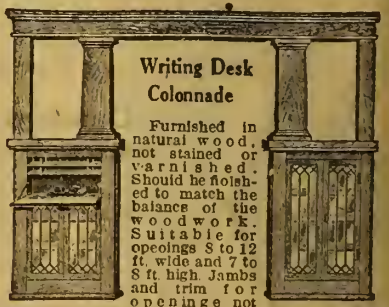
Built-In Buffets

Yorktown

Manchester

Either one of our two handsome built-in buffets will add greatly to the appearance of your dining room. Furnished in natural wood, not varnished. Made to set in recess in wall size 5 ft. wide by 7 ft. high by 14 inches deep. We furnish buffets complete with glass and casing as shown excepting hardware, which is priced separately. Shipping wt. of either buffet, 250 lbs.

Model	Yellow Pine	Oak
274C296—Yorktown Buffet	\$94.70	\$108.00
274C298—Manchester Buffet	89.50	103.30
274C282—Hardware for Yorktown Buffet Lemon Brass finish	6.25	6.25
274C283—Hardware for Manchester Buffet Lemon Brass finish	5.60	5.60



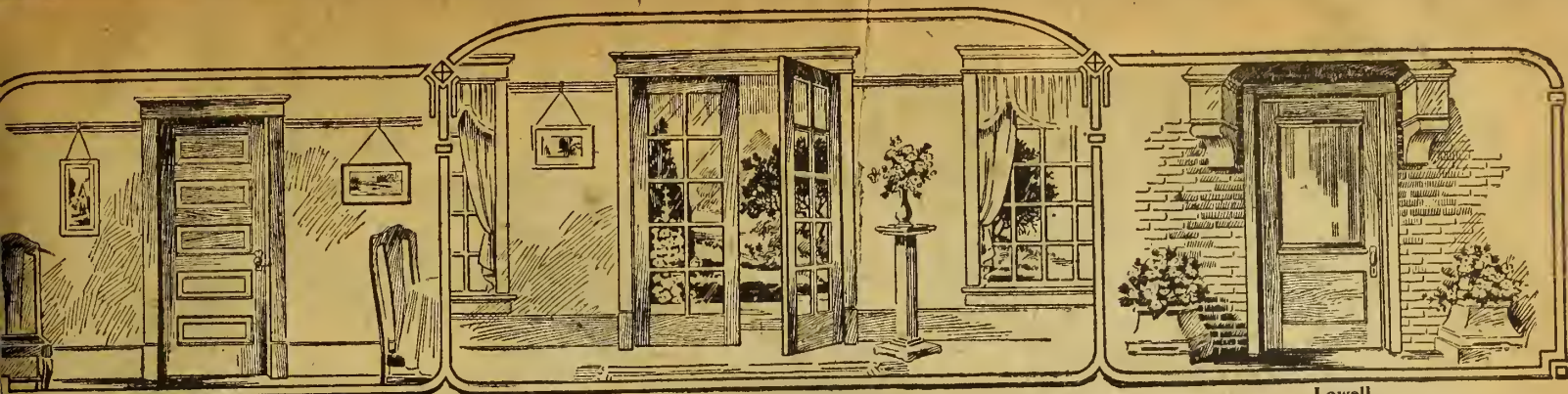
Writing Desk Colonnade

Furnished in natural wood, not stained or varnished. Should be finished to match the balance of the woodwork. Suitable for openings 8 to 12 ft. wide and 7 to 8 ft. high. Jambs and trim for opening not furnished. Order these to match balance of woodwork in room. Hardware priced separately. Shipping weight of colonnade, 275 lbs.

Price

274C294—Writing Desk Colonnade in Yellow Pine	\$61.35
274C295—Writing Desk Colonnade in Oak	68.70
274C281—Lemon Brass Hardware for Writing Desk Colonnade	\$2.60

All Millwork Shipped from Factory in Northern Illinois



Bungalow

Lowell

Fir Inside and Sash Doors

Fir lumber has one of the most beautiful grains and is being almost universally used in the construction of interior doors for finishing with yellow pine or fir trim. We show the two most approved designs for interior use and one exterior sash door. Our two panel Villa design we quote only in the "A" or 1st grade. Our 5 cross panel Bungalow design is quoted in "A" first grade and also "B" which is the 2nd grade. The York Design Sash Door is furnished only in "B" grade glazed with double strength glass. Thickness of all doors, 1 1/2 inches. Average shipping weight, 40 lbs.



Design	Size	York 274C206	Villa 274C203	Bungalow A 274C201	Bungalow B 274C202
Villa	2 ft. 0 in. x 6 ft. 0 in.	\$8.16	\$7.35	\$6.89	\$7.06
	2 ft. 6 in. x 6 ft. 6 in.	8.64	8.19	7.68	7.85
	2 ft. 6 in. x 6 ft. 8 in.		8.40	7.88	7.25
	2 ft. 6 in. x 7 ft. 0 in.		9.66	9.05	

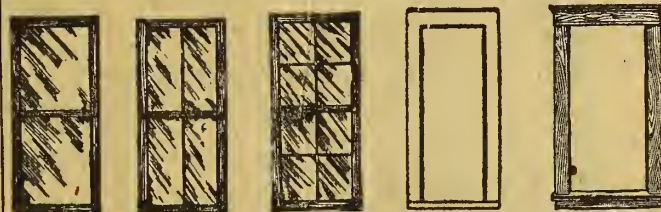
White Pine French (Casement) Doors

French Doors are being used extensively in modern up-to-date homes. They add so much to the exterior or interior. If you have a plain casement opening in your home, why not install a pair of these attractive doors or, if you are building be sure and specify them for all large openings between rooms, doors leading onto porches, and similar places.

Our French Doors are manufactured from the highest grade material with standard construction requiring no special hardware and come to you glazed and sanded all ready to be fitted in place. Furnished 1 1/2 inches thick, glazed clear double strength glass. Doors ordered in pairs not rabbeted unless so specified when ordered.

Size	Price each, Glazed Clear D. S. Glass	Shipping Weight Pounds
2 ft. 0 in. x 6 ft. 8 in.	\$10.20	52
2 ft. 0 in. x 7 ft. 0 in.	11.10	56
2 ft. 6 in. x 6 ft. 8 in.	12.25	62
2 ft. 6 in. x 7 ft. 0 in.	13.40	66
2 ft. 8 in. x 6 ft. 8 in.	13.20	65

Check Rail Windows, Frames, Trim



Windows.—Manufactured of Best Quality White Pine. Glazed clear glass, well puttied. Check rail. Thickness, 1 1/2 inches. Plowed and bored for use with or without weights.

Frames.—Manufactured of Clear White Pine. Plain drip cap. Outside casing 1 1/2 inch thick. Grooved and fitted ready to be put together. Price includes pulleys set in place. Width of jambs 5 1/2 inches including blind stop. (This is correct width for wall with 2x4 studs.) Shipped knocked down, one frame to the bundle. If double or mullion frame is desired, use Catalog number 274C253 and allow twice the cost of single window frame of same size. If triple frame is desired, use Catalog number 274C254 and allow three times cost of single frame of same size. Average shipping weight, per single frame, 40 lbs.

Trim.—Manufactured of Clear Yellow Pine. Consists of cap moulding, fillet, head and side casing, stool and apron. Each window requires one side of trim. If mullion window trim is desired, use Catalog number 274C257 and allow twice the price of a single window trim of the same size. If triple window trim is wanted, use Catalog number 274C258 and allow three times the price of single window trim of the same size. Average shipping weight, of single set of trim, 25 lbs.

Note.—When ordering, always be sure to mention width of window first.

2-Light Windows, Frames and Trim

Size of Glass	Opening Size of Frames	Glazed Single Strength		Glazed Double Strength		Frames 1 1/2 Inch Casing		Yellow Pine Inside Window Trim	
		274C230	274C231	274C231	274C231	274C231	274C231	274C231	274C231
12x20	1 4x3 10	\$2.10	.....	\$4.20	.....	\$2.70	.....	.....	.....
12x24	1 4x4 6	2.44	.....	4.60	.....	2.96	.....	.....	.....
12x28	1 4x5 2	2.80	.....	5.40	.....	3.32	.....	.....	.....
16x20	1 8x3 10	3.60	.....	7.20	.....	4.32	.....	.....	.....
18x20	1 10x3 10	4.20	.....	8.40	.....	5.04	.....	.....	.....
18x24	1 10x4 6	4.80	.....	9.60	.....	5.76	.....	.....	.....
18x28	1 10x5 2	5.40	.....	10.80	.....	6.48	.....	.....	.....
20x20	2 0x3 10	3.12	.....	6.24	.....	3.72	.....	.....	.....
20x24	2 0x4 6	3.70	.....	7.40	.....	4.44	.....	.....	.....
20x26	2 0x4 10	3.94	.....	7.88	.....	4.72	.....	.....	.....
20x28	2 0x5 2	4.14	.....	8.28	.....	4.96	.....	.....	.....
22x20	2 2x3 10	4.14	.....	8.28	.....	4.96	.....	.....	.....
22x24	2 2x4 6	4.34	.....	8.68	.....	5.24	.....	.....	.....
22x26	2 2x4 10	4.54	.....	9.08	.....	5.52	.....	.....	.....
22x28	2 2x5 2	4.74	.....	9.48	.....	5.80	.....	.....	.....
24x20	2 4x3 10	3.74	.....	7.48	.....	5.12	.....	.....	.....
24x24	2 4x4 6	4.40	.....	8.80	.....	6.00	.....	.....	.....
24x26	2 4x4 10	4.60	.....	9.20	.....	6.28	.....	.....	.....
24x28	2 4x5 2	4.80	.....	9.60	.....	6.56	.....	.....	.....
26x24	2 6x4 6	4.40	.....	8.80	.....	6.00	.....	.....	.....
26x26	2 6x4 10	4.60	.....	9.20	.....	6.28	.....	.....	.....
26x28	2 6x5 2	4.80	.....	9.60	.....	6.56	.....	.....	.....
28x24	2 8x4 6	4.80	.....	9.60	.....	6.56	.....	.....	.....
28x26	2 8x4 10	5.00	.....	10.00	.....	6.84	.....	.....	.....
28x28	2 8x5 2	5.20	.....	10.40	.....	7.12	.....	.....	.....
30x24	2 10x4 6	.....	.....	.....	.....	.....	.....	.....	.....
30x26	2 10x5 2	.....	.....	.....	.....	.....	.....	.....	.....
30x28	2 10x5 6	.....	.....	.....	.....	.....	.....	.....	.....
32x28	3 0x5 2	.....	.....	.....	.....	.....	.....	.....	.....
32x30	3 0x5 6	.....	.....	.....	.....	.....	.....	.....	.....
36x28	3 4x5 2	.....	.....	.....	.....	.....	.....	.....	.....
36x30	3 4x5 6	.....	.....	.....	.....	.....	.....	.....	.....
40x28	3 8x5 2	.....	.....	.....	.....	.....	.....	.....	.....
40x30	3 8x5 6	.....	.....	.....	.....	.....	.....	.....	.....

4-Light Windows, Frames and Trim

Size of Glass	Opening Size of Frames	Glazed Single Strength		Frames 1 1/2 Inch Casing Without Pulleys		Yellow Pine Inside Window Trim	
		274C232	274C232	274C251	274C251	274C255	274C255
10x20	2 1x3 10	\$3.48	.....	\$4.70	.....	\$2.79	.....
10x24	2 1x4 6	3.92	.....	5.10	.....	3.03	.....
10x28	2 1x5 2	4.50	.....	5.50	.....	3.27	.....
12x20	2 2x3 10	3.90	.....	5.90	.....	3.51	.....
12x24	2 2x4 6	4.50	.....	6.30	.....	3.75	.....
12x26	2 2x4 10	4.70	.....	6.50	.....	3.90	.....
12x28	2 2x5 2	4.90	.....	6.70	.....	4.05	.....
14x24	2 2x4 6	5.10	.....	6.90	.....	4.20	.....
14x28	2 2x5 2	5.30	.....	7.10	.....	4.35	.....
14x30	2 2x5 6	5.48	.....	7.30	.....	4.50	.....

8-Light Windows, Frames and Trim

Size of Glass	Opening Size of Frames	8-Light Windows		Frames 1 1/2 Inch Casing Without Pulleys		Yellow Pine Inside Window Trim	
		274C233	274C233	274C251	274C251	274C255	274C255
9x12	1 11x4 6	\$3.35	.....	\$4.90	.....	\$2.82	.....
10x12	1 1x4 6	3.94	.....	5.50	.....	3.06	.....
10x14	1 1x5 2	4.35	.....	5.90	.....	3.30	.....
12x14	2 2x5 2	5.72	.....	7.50	.....	4.05	.....
12x16	2 2x5 6	.....	.....	6.10	.....	3.03	.....

All Millwork Shipped from Factory in Northern Illinois

White Pine and Oak Front Doors

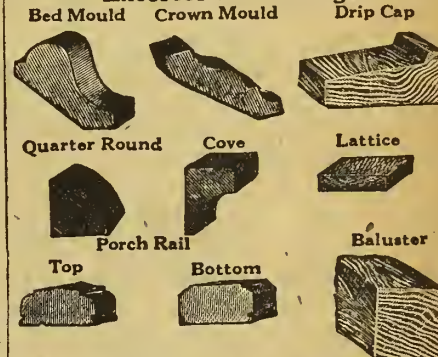
Nothing adds more to the looks of a building than an attractive front door. Why not use one of the up-to-date designs shown here as an entrance to your home? You will be surprised how much it will add both in value and looks.

Our Edwards and Lowell designs are constructed of "A", first quality white pine, 1 1/2 inch thick and are glazed as listed below. Our Washington design is constructed of highest quality veneered oak and is 1 1/2 inches thick. Average shipping weight, 85 lbs.



Design and Article No.	Size Ft. In. Ft. In.	Price Glazed Double Strength	Price Glazed Bevel Plate	Price Glazed Fancy Glass
Edwards 274C212	2 8x6 8	\$12.69	\$25.38	\$13.48
Lowell 274C210	2 8x6 8	13.37	26.74	14.16
Washington 274C214	2 8x6 8	28.40	54.20	29.20
	2 8x7 0	31.80	49.40	32.60

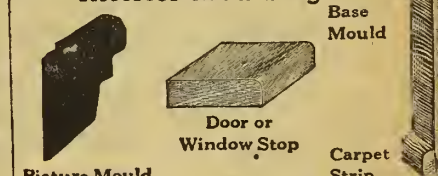
Exterior Mouldings



All above Mouldings Clear White Pine or Fir

Art. No.	Description	Size In.	Price Per 100 ft.
274C270	Bed Mould	1/2 x 1 1/4	\$3.80
274C271	Crown Mould	1/2 x 2 1/4	4.80
274C272	Crown Mould	3/4 x 3 1/4	6.80
274C273	Drip Cap	1 1/2 x 2 1/4	7.30
274C274	Drip Cap	1 1/2 x 2 1/4	8.60
274C275	Quarter Round	1/2 x 1 1/4	1.90
274C276	Quarter Round	3/4 x 1 1/4	1.90
274C277	Cove Mould	1/2 x 1 1/4	2.40
274C278	Cove Mould	3/4 x 1 1/4	2.90
274C279	Lattice	1/2 x 1 1/4	1.60
274C280	Lattice	3/4 x 1 1/4	1.90
274C281	Top Porch Rail	3/4 x 1 1/4	2.00
274C282	Bot. Porch Rail	3/4 x 1 1/4	2.00
274C283	Baluster	1 1/2 x 1 1/4	4.00

Interior Mouldings



Above Mouldings Furnished in Yellow Pine Only

Art. No.	Description	Size	Price Per 100 ft.
274C261	Picture Mould	1/2 x 1 1/4 in.	\$4.00
274C262	Door and Window Stop	1/2 x 1 1/4 in.	3.00
274C263	Door and Window Stop	1/2 x 1 1/4 in.	4.00
274C264	Base Board	1/2 x 7/8 in.	1.60
274C265	Carpet Strip	1/2 x 1 1/4 in.	2.00

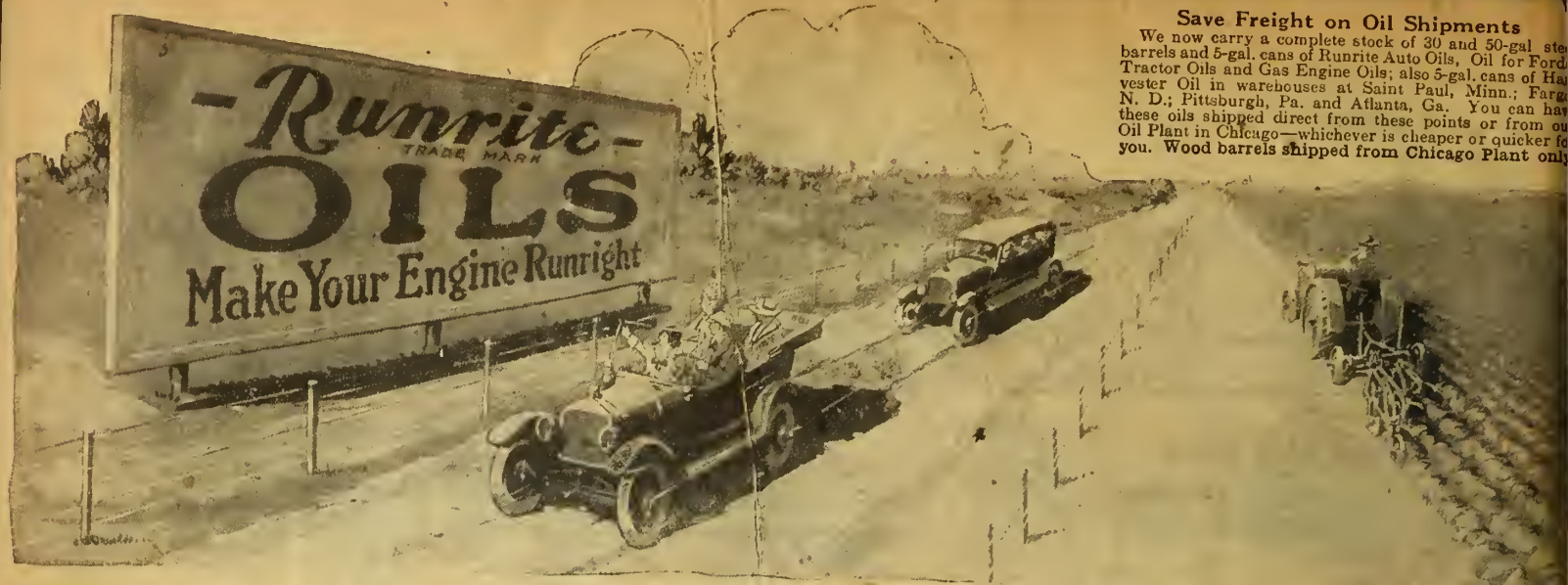
Porch Columns, Newels

Best grade Clear lock-joint Built-up Columns and Newels. They look best and last longest.

Columns				
Size of Base In.	Ht. over All Feet	Wgt.	Square Columns 274C288	Round Columns 274C290
6	8	33	\$4.85	\$4.85
8	8	46	7.60	6.40
10	8	62	9.40	8.10
10	9	66	9.90	9.40

Newels

Art. No.	Description	Price
274C289	8 in. Square Newel, Height, 4 ft.	\$4.90
274C291	8 in. Round Newel, Height, 4 ft. Price.....	\$4.60



Save Freight on Oil Shipments
 We now carry a complete stock of 30 and 50-gal. steel barrels and 5-gal. cans of Runrite Auto Oils, Oil for Ford Tractor Oils and Gas Engine Oils; also 5-gal. cans of Harvest Oil in warehouses at Saint Paul, Minn.; Fargo, N. D.; Pittsburgh, Pa. and Atlanta, Ga. You can have these oils shipped direct from these points or from our Oil Plant in Chicago—whichever is cheaper or quicker for you. Wood barrels shipped from Chicago Plant only.

60¢ Per Gal. Runrite TRADE MARK Automobile Oils

Here's the right oil for your car. We recommend Runrite to you, regardless of the kind of oil you are now using. This is special cylinder stock, produced in our own Oil Plant, from paraffine base crude oils (acknowledged the best, the world over) and designed expressly for automobile lubrication. Our customers know the splendid service it gives, reducing friction and friction wear and gaining more power with less gas and oil.

Order Light, Medium or Heavy—as you have been using.

Size	Light	Medium	Heavy	Price
50-gal. wood bbl.	275C7465	275C7344	275C7435	Per gal. .60c
50-gal. steel bbl.	275C7479	275C7345	275C7439	Per gal. .70c
30-gal. wood bbl.	275C7466	275C7342	275C7436	Per gal. .63c
30-gal. steel bbl.	275C7480	275C7343	275C7440	Per gal. .73c
5-gal. can.....	175C7467	175C7341	175C7437	Per gal. .74c
1-gal. can.....	75C7469	75C7340	75C7438	Per gal. .80c

75C7468—1-gal. Light Oil in Litho. Squat can with spout. 84c
 Steel barrels and 5-gal. cans shipped from warehouses if desired (see notice at top of page). Wood barrels shipped from Chicago Oil Plant.

Runrite TRADE MARK Oil for Fords 55c

A special type of Runrite Automobile Oil particularly suited to the high speed Ford engine.
 We produce this oil in our own Oil Plant from para-wood bbls. fine base crude oils (ask any oil man if paraffine base crude oil don't make the best lubricant). A light clear color, has correct body and passes a high fire test. This is the right oil for Ford cars at any time of year. Also recommended for Saxons.

Because we produce it ourselves in our own Oil Plant and in large quantities, for thousands of customers, we are able to offer it to you at a big saving in cost.
 275C7304—50-gal. wood. Per gal. 55c
 275C7305—30-gal. steel. Per gal. 55c
 275C7302—30-gal. wood. Per gal. 55c
 275C7303—30-gal. steel. Per gal. 55c
 175C7301—5-gal. can. Per gal. 69c
 75C7300—1-gal. can. 75c
 Steel barrels and 5-gal. cans shipped from warehouses if desired (see notice at top of page). Wood barrels shipped from Chicago Oil Plant.

Runrite TRADE MARK Tractor Oils 75c

A cylinder oil made especially to stand up under the extreme heat generated by the tractor. Refined from high-grade crude oils, has correct body, high fire test, and in every way meets the needs of heavy tractor duty.
 No matter what oil you have been using in your tractor—we guarantee our Runrite Tractor Oil to give first class lubrication at a big saving in money. Made in Medium, Heavy and Extra Heavy (order the grade recommended by the manufacturer of your tractor).

Size	Medium	Heavy	Ex. Heavy	Price
50-gal. wood bbl.	275C7100	275C7110	275C7120	Per gal. 75c
50-gal. steel bbl.	275C7101	275C7111	275C7121	Per gal. 85c
30-gal. wood bbl.	275C7102	275C7112	275C7122	Per gal. 78c
30-gal. steel bbl.	275C7103	275C7113	275C7123	Per gal. 88c
5-gal. can.....	175C7106	175C7116	175C7126	Per gal. 89c
1-gal. can.....	75C7107	75C7117	75C7127	Per gal. 95c

Steel Barrels and 5-gal. cans shipped from warehouses if desired (see notice at top of page). Wood barrels shipped from Chicago Oil Plant.

Reliable Cup Greases

High quality yellow cup greases for general machine use and for automobiles. Produced in our own Oil Plant—guaranteed to give good service and lubricate correctly in any style grease cup. Use Soft for pillow blocks, crossheads, etc. Use Medium for general purposes (this one for auto hubs and caps). Use Hard for heavy open bearings and screw cups. Try these cup greases. They are thoroughly reliable and dependable—in spite of the low price we ask for them.

Size	Soft	Medium	Hard	Price
1-lb. can.....	75C7594	75C7492	75C7593	\$0.20
10-lb. can.....	175C7595	175C7602	175C7598	1.50
25-lb. can.....	175C7596	175C7603	175C7599	3.50
50-lb. can.....	175C7597	175C7604	175C7600	6.50

Motorcycle Oil

No. 1 for machines of the Indian type with force feed; and No. 2, for machines of the Harley-Davidson type using splash system.

75C7220—1-quart can.....	\$0.56
175C7221—1-gal. can.....	1.18
175C7222—5-gal. can.....	5.50
No. 2	
75C7225—1-quart can.....	.56
75C7226—1-gal. can.....	1.18
75C7227—5-gal. can.....	5.50

Graphite Cup Greases

Special cup greases with graphite base, produced in our own Oil Plant. The graphite fills pores in steel making the bearings smooth and reduces friction. Preferred by many to the regular cup grease (quoted to the left). Made in 3 consistencies: Soft, Medium, Hard. Use Soft for eccentrics, pillow blocks, crank pins, etc. Medium for compression cups or screw cups, and in winter. Use Hard where there is considerable heat or during hot summer weather.

Size	Soft	Medium	Hard	Price
1-lb. can.....	75C7668	75C7672	75C7676	\$0.30
5-lb. can.....	175C7669	175C7673	175C7677	1.38
10-lb. can.....	75C7670	75C7674	75C7678	2.70

Special Cup Grease for Fords

To meet the demand for a special cup grease for Ford cars, we have produced this special quality yellow cup grease, which we recommend to Ford owners everywhere.

Try it in your Ford. You will find it exactly the right consistency. We guarantee this grease to give you satisfaction.

75C7609—1-lb. can.....	\$0.20
75C7605—5-lb. can.....	.85
75C7606—10-lb. can.....	1.65
175C7607—25-lb. can at 16c per lb.	\$4.00

Differential Compound for Fords

A semi-solid compound which, when used in the differential of the Ford car, avoids rear axle trouble.

All Ford owners should keep a supply of this compound on hand and use it regularly about every 1,000 miles. In applying, be sure first to clean the rear axle thoroughly, using a little kerosene, and then pack in about 1 1/2 lbs. of this special compound.

75C7323—5-lb. can.....	\$0.95
75C7324—10-lb. can.....	1.80
75C7324—25-lb. can.....	4.50

Gasoline Engine Oil

"More power with less fuel and less oil"—this is the right lubricant for gas engines. It is produced in our own Oil Plant especially for this purpose and is recommended for all makes of stationary or portable gasoline engines.

A medium bodied oil, ruby color, with high fire test. Forms a constant film of oil in the cylinders and reduces friction wear.

Use Runrite Oil and be free from lubrication troubles.

275C7575—50-gal. wood barrel. Per gal.	68c
275C7579—50-gal. steel bbl. Per gal.	78c
275C7576—30-gal. wood bbl. Per gal.	71c
275C7580—30-gal. steel bbl. Per gal.	81c
175C7577—5-gal. can. Per gal.	82c
75C7578—1-gal. can.	88c

Steel Barrels and 5-gal. cans shipped from warehouses if desired (see notice at top of page). Wood barrels shipped from Chicago Oil Plant.

Separator Oil

Cream Separators require a special type of lubricating oil. Runrite Separator oil is produced in our Oil Plant especially for hand-power separators and is guaranteed to furnish correct and thorough lubrication in any make.

A non-viscous, neutral oil. Light bodied, light colored. Flows freely and is practically stainless. Will not thicken or gum from use. Try this oil in your separator. You will be surprised how much smoother and easier it turns, and you will also be pleased with the saving in our prices.

175C7547—5-gallon can.....	63c
Per gal.	63c
75C7548—1-gallon can.....	69c
75C7544—1 quart.....	28c

Transmission Oil

Many experts declare oil the only satisfactory lubricant for the transmission because it penetrates into the innermost recesses and is in constant circulation.

Our Oil Plant has produced this special, heavy clinging oil which is just right for transmission.

275C7455—50-gal. wood barrel. Per gallon.....	48c
275C7481—50-gal. steel barrel. Per gallon.....	52c
275C7456—30-gal. wood barrel. Per gallon.....	51c
275C7482—30-gal. steel barrel. Per gallon.....	61c
175C7457—5-gal. can. Per gallon.....	62c
75C7458—1-gallon can.....	68c

Barrels shipped from Chicago Oil Plant.

3-in-1 Oil

Oils, cleans and polishes. For commutators, timers, magnetos, etc.

75C714—1-oz. bottle.....	13c
75C715—3-oz. bottle.....	23c
75C717—3-oz. bottle.....	45c
75C719—Handy Oil can with 3 oz. oil.....	27c

Denatured Alcohol

Not Mailable. Subject to Market Changes.
 For use in spirit lamps, percolators, cutting shellacs, removing varnish, etc. Also for non-freezing solution for automobile radiators.

POISON—must not be taken internally.
 75C7657—1-gal. can..... \$1.45
 175C7658—5-gal. can..... 6.85

For making non-freezing solution for auto radiators, use from 25 per cent alcohol at 2 degrees below zero to 40 per cent at 25 degrees below.

Steam Cylinder Oil

A medium bodied, pale green colored oil, specially compounded for lubrication of steam cylinders and valves, particularly where low pressure steam is used. Clings to walls of cylinder and valves.

275C7555—50-gal. wood bbl. Per gal.	\$0.93
275C7559—50-gal. steel bbl. Per gal.	1.03
275C7566—30-gal. wood bbl. Per gal. ....	.96
275C7560—30-gal. steel bbl. Per gal.	1.06
175C7557—5-gal. can. Per gal.	1.07
75C7558—1-gal. can.	1.14

Barrels Shipped from Chicago Oil Plant.

Harvester Oil

A heavy-bodied, dark green oil for use on all types of Harvester machines. Will stand up under considerable heat and will not gum or corrode bearings. Cuts off without a "string" when used from a squirt gun. Superior to castor machine oil.

275C7405—50-gal. wood barrel. Per gal.	59c
275C7409—50-gal. steel barrel. Per gal.	69c
275C7406—30-gal. wood barrel. Per gal.	62c
275C7410—30-gal. steel barrel. Per gal.	72c
175C7407—5-gal. can. Per gal.	73c
75C7408—1-gal. can.	79c

5-gal. cans shipped from warehouses if desired (see notice at top of page). All barrels shipped from Chicago Oil Plant.

Fibre or Sponge Grease

For Lubricating Transmissions
 Because it is spongy and fibrous and rather heavy, it clings to the moving parts and lubricates well at all times. Reduces friction. Makes gears quieter. Holds its body for a long time and does not soon leak or drip from case. Many drivers prefer this sponge type to the regular transmission greases, claiming it lasts longer and gives better lubrication.

175C7459—10-pound can.....	\$1.80
175C7460—25-pound can.....	4.25
175C7461—50-pound can.....	8.00

Perfect Brand KEROSENE

Double Refined. Specially recommended for incubators, because the wick can be turned higher without as much smoke. Our prices include the cost of the containers.

Prices Subject to Market Changes.	
275C7625—50-gal. wood bbl. Per gal.	30c
275C7624—50-gal. steel bbl. Per gal.	34c
275C7623—30-gal. steel bbl. Per gal.	36c
175C7622—15-gal. steel bbl. Per gal.	46c
175C7627—10-gal. can. (jacketed). Per gal.	39c

Barrels shipped from Chicago.

Machine Oil

Our machine oils are well known among our customers for their general all-around efficiency and also for the low price we ask for them.

275C7375—50-gal. wood bbl. Per gal.	78c
275C7379—50-gal. steel bbl. Per gal.	88c
275C7376—30-gal. wood bbl. Per gal.	91c
275C7380—30-gal. steel bbl. Per gal.	91c
175C7377—5-gal. can. Per gal.	92c
75C7378—1-gal. can.	98c

Barrels shipped from Chicago Oil Plant.

Transmission Grease

A high-grade grease specially made for lubricating automobile transmissions and differential gears. Makes gears turn smoother and keeps down the wear. Semi-fluid—will not harden or gum.

75C7522—Grease Gun (as shown) filled with 2 lbs. Runrite Transmislou Grease.....	\$0.65
175C7524—10-lb. tin.....	1.50
175C7525—25-lb. tin.....	3.85
175C7526—50-lb. tin.....	7.50

Harness Oil

We made this oil specially for this purpose. Preserves and softens the leather—lengthens its life. May also be used on buggy tops. Apply with a cloth.

75C7353—1 Quart.....	45c
75C7352—1/2 Gal.	65c
175C7351—1 gallon.....	90c
175C7350—5 gallons.....	\$3.40

Neatsfoot Oil

The pure, genuine Neatsfoot Oil—the "real stuff." Used in dressing and softening leather boots, gloves, harnesses, etc.

75C7519—1 qt.....	\$1.38
75C7518—1 gal.	4.80
75C7517—5 gal.	23.50

Graphite Axle Grease

Made in our Oil Plant from a graphite base that gives better lubrication and lasts longer. Also recommended for use on bearings, pumps, etc.

75C7646—1-lb. box.....	\$0.16
175C7647—10-lb. pail.....	1.25
175C7648—25-lb. pail.....	3.25

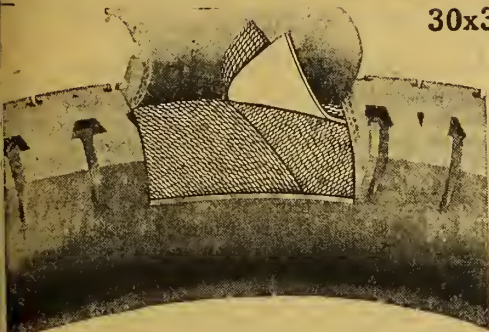
10,000 MILES

GUARANTEED RIVERSIDE CORD TIRES

30x3½ Cord Guarantee 12,000 Miles

Why Riverside Cord Tires are Better

Riverside Cord Tires are greatly oversize construction compared with fabric tires. This extra air capacity makes a remarkable difference in the easy riding qualities. Oversize also means greater mileage. The cords used in Riversides are tremendously strong, being a great deal heavier and tougher than those used in fabric tires. These features combined with their heavier treads make them much harder to puncture. Every single cord is covered with rubber so no two strands rub together, thus permitting each cord to flex freely with scarcely any friction. That's another reason why they ride so smoothly and even at high speeds show practically no signs of heating. Less air pressure is necessary when using Riverside Cords, so they act more as a cushion or shock absorber, enabling you to travel over rough roads faster and more comfortably than with fabric tires. In addition to the amazing difference in comfort and mileage obtained from Riverside Cord Tires there is the important point of greater freedom from trouble.



**Give Greater Mileage
Ride Much Easier
Oversize Construction**
Make This Test

When we first offered Riverside Cords to you, we said "Put a Riverside Cord on the wheel opposite the tire which has pleased you best regardless of the cost or make of the other tire and check the mileage carefully." The mileage results have been astonishing. Riverside Cords have not only lowered the cost per mile but they have greatly outdistanced tires that were 'way higher in price. The big, strong, thick tread has in a great many instances traveled 5000 to 7000 miles on heavy cars before signs of wear were really noticeable. With our 10,000 mile guarantee (12,000 miles on 30x3½) to protect you on quality, surely the saving offered even on first cost will make it worth your while to make this test.

10,000 Mile Guarantee

Every Riverside Cord is absolutely guaranteed against defects in either material or workmanship on a service basis of 10,000 miles (12,000 miles on 30x3½). If in any case a defect in either material or workmanship should develop we will replace or repair the tire on a 10,000 mile service basis (12,000 miles on 30x3½ size).

Special Cord for 30x3½

Clincher Rims

Guaranteed 12,000 miles

For Ford, Maxwell, Chevrolet, Overland, etc.

This special 30x3½ Riverside Cord is built of the finest materials and in the same manner as our larger sizes except for the bead. It is much stronger, heavier and more durable than most cords of this size. Order one and look it over as explained above. You'll quickly see the difference between it and lower priced cords. Ship. wt., about 14 lbs.

164C2971—Price, each \$29.75

Note Riverside Tire and Inner Tube Prices are subject to change without notice owing to unsettled market conditions.

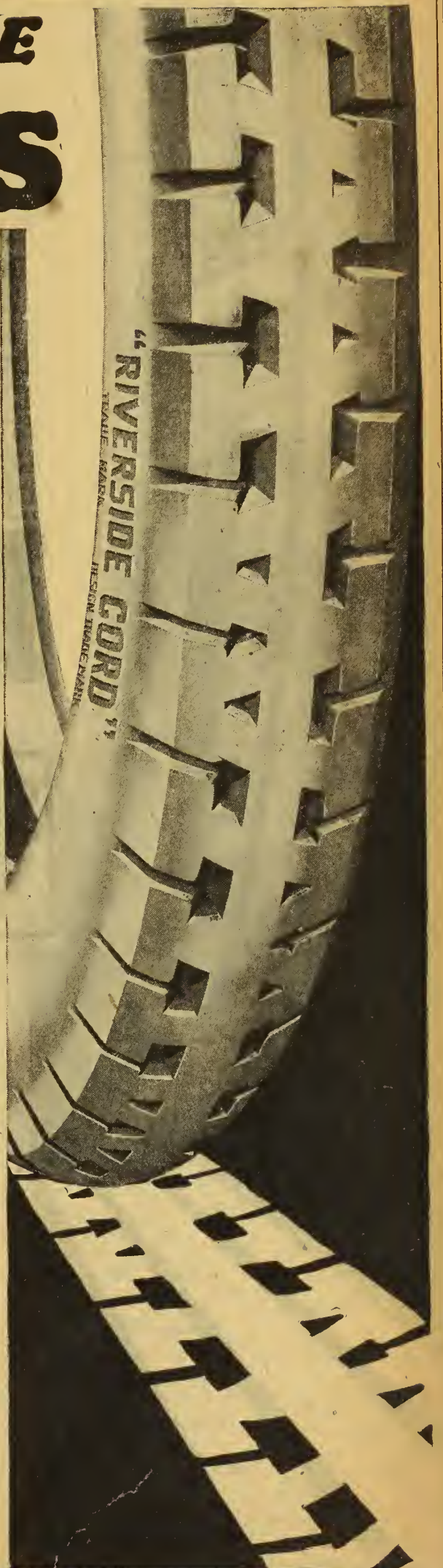
**You Don't
Risk
a Cent**

\$29.75
Riverside
Cord
Size 30x3½

Some day you are going to use Cord Tires. Why not start right now? Our prices on one of the very best Cord Tires are not very much higher than you have probably been paying for the fabric type. Figuring the cost on a guaranteed mileage basis you will find Riverside Cords are costing you considerably less. We want you to at least see and compare the Riverside Cord before you buy another tire. Order the size you need right now—put it alongside any other tire—see how much oversize it is—measure and feel the heavy, long lasting tread—notice how we have designed the tread so it can also be used on the front wheels as well as the rear. If after inspecting it thoroughly you feel that you do not want to keep it, send it back and we will gladly return your money and transportation costs.

Size Inches	Rim Style	Article Number	Price	Av. Ship. Wt., Lbs.
30x3½	Cl.	164C2971	\$29.75	14
32x3½	SS	164C2973	35.95	19
32x4	SS	164C2975	43.40	20
33x4	SS	164C2977	44.30	22
34x4	SS	164C2979	45.40	22½
32x4½	SS	164C2981	50.30	26
33x4½	SS	164C2983	51.45	26½
34x4½	SS	164C2985	52.80	27
35x4½	SS	164C2987	53.75	27½
36x4½	SS	164C2989	54.55	31
33x5	SS	164C2991	58.35	31
35x5	SS	164C2993	61.25	35
37x5	SS	164C2995	64.95	39

Cl., Regular Clincher. SS., Straight Size.



GUARANTEED

Seven Years' Experience— Nearly a Million Riverside Tires

The Riverside Tires you get to-day are better than ever before, yet they always have given wonderfully good service at a low cost. Improved machinery has been a big help in producing better Riversides, but the greatest gain is in the experience—the knowledge of how to combine rubber with certain scientifically prepared compounds that make it last longer and give it more life and toughness. This experience, gained in directing the building of nearly a million Riverside Tires, has taught us how to make thorough tests of the fabric and other materials—how to make more careful inspections during their construction—how to build a tire that will make good for Montgomery Ward & Co.'s customers.

Built in an Up-to-Date Factory

Riverside Tires are built in a factory having the latest improved machinery operated by experts in every branch of tire construction. One of the most important departments is an excellent laboratory where tests are continually made to make sure that the rubber and compounds are just right—that the fabric is correctly woven and of the proper strength. Tire building machines of standard types, skilfully operated make certain that Riverside Tires are so well built that every possibility of defects is practically eliminated. The next operation is vulcanizing, performed under hydraulic pressure. Careful inspections conducted at every step in the making of Riversides means longer mileage and greater freedom from trouble for you.

Guaranteed Construction

Our guarantee fully protects every Riverside user. It means that you will get a full 100 cents worth of service on the road for every dollar invested. We positively use the standard number of layers of strong fabric in each size—the same number as used in tires selling for a great deal more than our prices. When you stop to think that future Riverside sales depend on the success you have with each individual tire you can see we could not possibly afford to take chances on skimping or putting out a cheap tire. We have a great many letters from customers telling of their Riversides going 10000, 12000, 14000 miles and even more. In the past few months we have received thousands of orders for three and four Riversides at a time from customers, just like yourself.

RIVERSIDE

Driving Tread Tires

The Driving Tread design is a decided improvement over the ordinary smooth tread in that it is built up high, having less road touching surface, thus reducing friction and saving gasoline. In addition to the easy rolling feature, Riverside Driving Tread Tires make steering easier and the two center grooves have a strong tendency to prevent side skidding. The raised tread and groove design make this an especially attractive tire. For those desiring fabric tires with a long mileage guarantee, 6000 miles, at a reasonable price, we advise the use of Riverside Driving Tread Tires for the front wheels and Riverside Road Grip Tires for the rear. Our guarantee absolutely protects you on quality.

\$12.55
Driving
Tread
Size 30x3

Driving Tread Prices—No Tax



Specify Style
of Rim when
Ordering Tires

(See Illustration)

Size	Clincher Style	Straight Side or Dunlop Style	Price	Average Shipping Weight Pounds
28x3	164C3000	.....	\$12.30	8 3/4
30x3	164C2951	.....	12.55	9 1/2
30x3 1/2	164C2952	.....	15.85	12
32x3 1/2	.....	164C3254	18.40	13
31x4	164C3018	.....	25.30	15
32x4	.....	164C3258	25.80	15 1/2
33x4	.....	164C3260	27.05	16
34x4	.....	164C3262	27.55	17
34x4 1/2	.....	164C3267	37.20	22
35x4 1/2	.....	164C3268	38.95	24

Plain Smooth Tread Tires



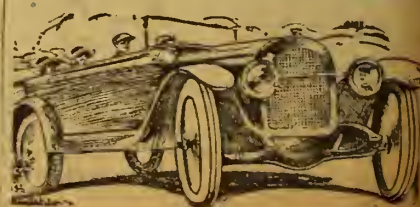
Size	Regular Clincher Style	Price	Average Shipping Weight Pounds
30x3	164C3002	\$12.25	9 1/2
30x3 1/2	164C3006	15.70	12

All Tires Can Be Shipped by Parcel Post

Every size tire can now be sent by parcel post to any point. In Zones 1 to 3, packages weighing up to 70 lbs. can be shipped. Packages weighing less than 50 pounds, can be shipped to all other zones.

Mark your order to be sent by parcel post. It is a quick, easy way to ship them, and the postage is very little. See table of parcel post rates on page 597.

NOTE: Riverside Tire Prices are subject to change without notice, owing to unsettled market conditions.



See Riverside Cord Tires on
Page 881

6,000 MILES

Selling Riverside Tires By Mail Reduces the Cost to You

Riverside Tires are sold only direct from our four big stores at the lowest prices we now offer for such good quality. This method enables you to get absolutely fresh, new tires—it makes possible our selling thousands upon thousands of Riversides each week from one store instead of a few from many stores. It gives you the benefit of the savings obtained by our making purchases in tremendous quantities and lowering the cost of getting the tires to you. Our profit on each tire is reduced to a minimum. Before buying another tire, make a careful comparison of prices and guarantees and you'll quickly see that you actually make money by purchasing Riversides.

Why Pay More?

Can you think of any good reason why you should pay several dollars more for a pair of tires than we ask when the guarantee is no greater or better? The more you consider this question the more you will realize why each year has shown a big increase in the number of Riverside users. It is a common sight to go into towns hundreds of miles from our stores and see cars with Riversides on all wheels. Prove to yourself how much you can save by comparing Riverside prices with any others. See how much less they cost per mile according to the guarantee. When you consider that tires probably cost you more than gasoline, surely it is worth your while to make all the savings possible on this part of your equipment.

Try Riversides—Order Now

There is only one way that you can ever become an enthusiastic Riverside Tire user and that is by trying them. Is there any reason why you should not try one? Our prices save you money—our guarantee protects you on quality—our selling method makes it possible for you to have the tires delivered right to your door by parcel post. If there is any question in your mind about the appearance or size of Riverside Tires, order one—which ever size you need. Look it over—compare it. If, for any reason you should feel that you don't want to keep it send it back and we will refund your money and the transportation charges you have paid so you will not be out a single cent.

AUTO TIRES

Road Grip Tread Tires

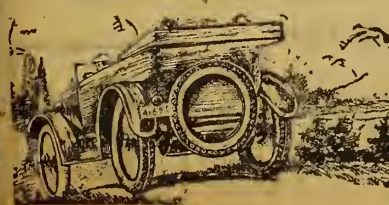
Our Road Grip Tread are ideal tires for the rear, though many use them on all four wheels. The tough, resilient, thick tread is covered with hundreds of road gripping, non-skid angles that give a good hold on wet, muddy roads and slippery pavements. This is our own trade marked design. Every movement of the wheel is protected—the tires roll easily yet the angles hold firmly, so your motor's power is not lost by the rear wheels spinning. You can easily see the protection these thick, sturdy knobs give against side slipping, a valuable point particularly noticeable on country roads which slope toward ditches. This well-known tread also helps your brakes by holding to the road in emergencies. Guaranteed 6,000 miles.

\$16⁷⁵
Road Grip
Size 30x3½

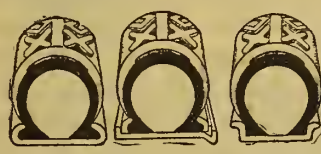
NOTE Riverside Tire Prices are subject to change without notice, owing to unsettled market conditions.

Riverside 6000 Mile Guarantee

We guarantee Riverside Auto Tires to be of first quality in material and workmanship and when used under reasonable conditions to give at least 6,000 miles service. If any Riverside Tire should develop a defect in either material or workmanship we will make an adjustment on a 6,000 mile service basis. This guarantee does not cover carelessness, accidents, neglect, stone bruises or tires not driven at all times with the full amount of air pressure indicated or of the proper size to support weights according to the standard table adopted by all leading tire manufacturers.

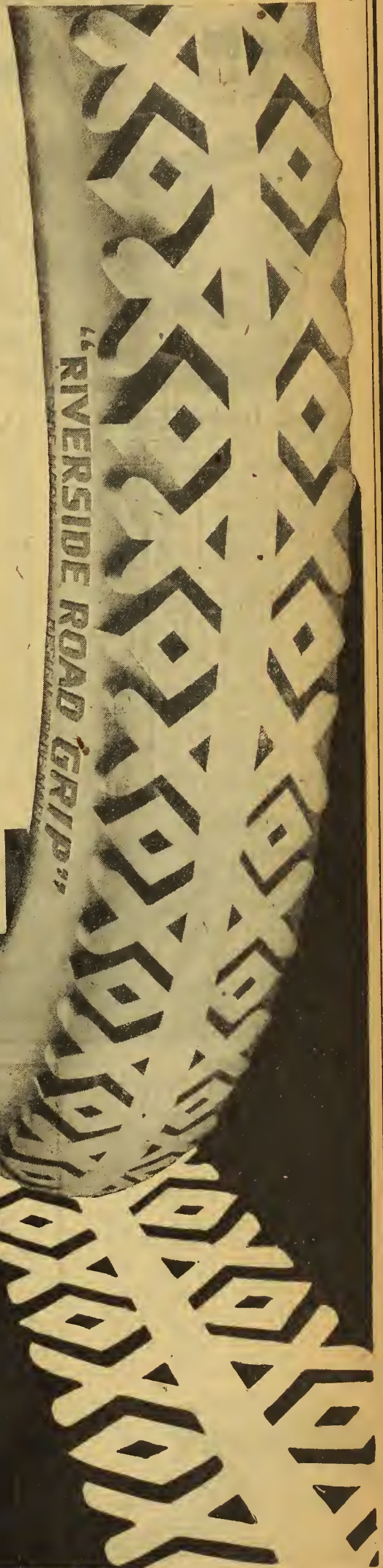


Riverside Road Grip Tread Prices—No Tax



Specify Style of Rim When Ordering (See Illustrations)

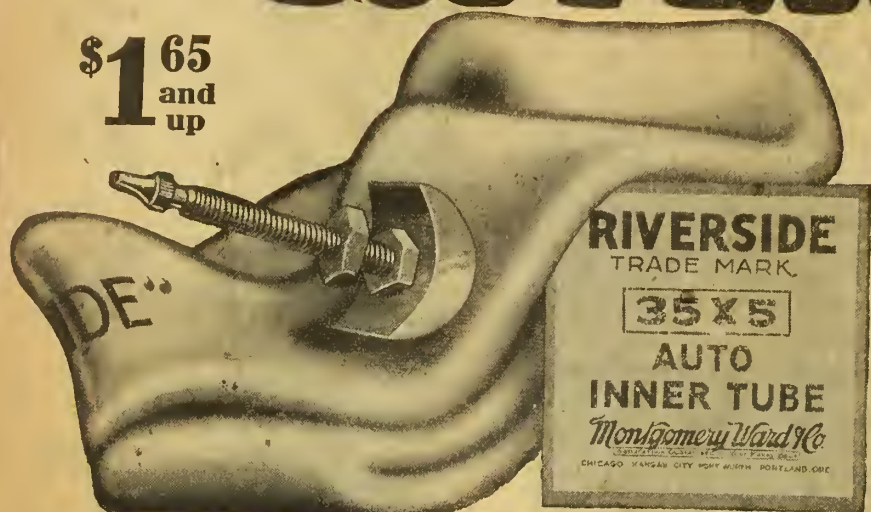
Size	Regular Clincher Style	Q. D. Clincher Style	Straight Side or Dunlop Style	Price	Average Ship. Wt. Pounds
28x3	164C3053			\$12.70	9
30x3	164C3055			13.05	10
30x3½	164C3059			16.75	12½
31x3½	164C3061			18.45	13
32x3½		164C3287	164C3331	19.35	13½
34x3½		164C3291	164C3333	23.75	15
31x3¾	164C3050	Special Giant size fits 30x3½ Clincher Rims		19.25	14
31x4	164C3071			26.25	16
32x4			164C3335	27.00	16½
33x4		164C3301	164C3337	28.30	17
34x4		164C3303	164C3339	29.00	18
35x4			164C3341	30.30	19½
32x4½			164C3343	36.30	23
33x4½			164C3342	37.80	23½
34x4½			164C3344	39.30	24
35x4½		164C3311	164C3345	40.70	24½
36x4½			164C3347	41.25	26½
33x5			164C3349	44.75	27
35x5			164C3350	46.25	29
37x5		164C3323	164C3351	49.25	32



GUARANTEED RIVERSIDE

Inner Tubes

\$1.65 and up



Red and Gray Inner Tubes
Always Fresh—They Last Longer

These are fine, strong inner tubes made by the laminated process. Laminating consists of taking many thin sheets of fresh, strong, lively rubber and rolling them one on top of the other. After being combined these sheets are then vulcanized together thus becoming really one heavy sheet of rubber which eliminates porousness and slow leak troubles.

Our sales of Riverside Inner Tubes are so great that it is necessary to have new shipments constantly coming in from the factory so you are always certain of brand new tubes that will give long service. Riverside Inner Tubes often wear faithfully for years. Notice our low prices. Red Inner Tubes are the most popular and our prices are undoubtedly lower than you expected to pay for gray. When you buy either red or gray Riverside Inner Tubes you get your money's worth.

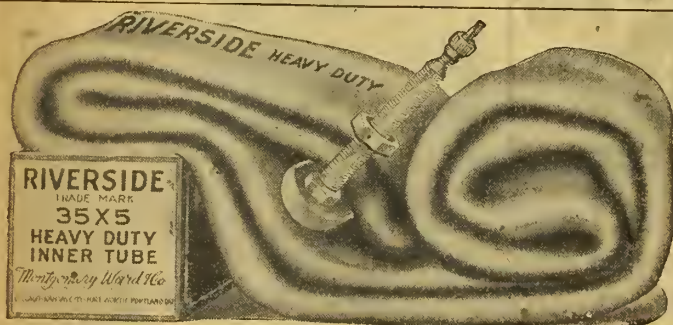
All Inner Tube Prices are Subject to Change without Notice.

Red Inner Tubes

Gray Inner Tubes

Size Inches	Article Number	Price	Av. Shp. Wt., Pounds
28x3	61C3152	\$1.90	2 1/2
30x3	61C3154	1.95	2 1/2
30x3 1/2	61C3158	2.25	2 7/8
31x3 1/2	61C3160	2.40	2 7/8
32x3 1/2	61C3162	2.45	3
34x3 1/2	61C3164	2.75	3 1/4
31x4	61C3170	3.15	3 1/4
32x4	61C3172	3.25	3 1/2
33x4	61C3174	3.35	3 3/4
34x4	61C3176	3.40	3 3/4
35x4	61C3178	3.45	3 3/4
36x4	61C3180	3.70	4 1/4
32x4 1/2	61C3179	3.95	3 3/4
33x4 1/2	61C3181	4.00	4
34x4 1/2	61C3182	4.10	4 1/4
35x4 1/2	61C3184	4.20	4 1/2
36x4 1/2	61C3186	4.30	4 3/4
33x5	61C3190	4.60	4 1/4
35x5	61C3192	4.80	5 1/4
37x5	61C3196	5.00	5 1/2

Size Inches	Article Number	Price	Av. Shp. Wt., Pounds
28x3	61C3102	\$1.65	2 1/4
30x3	61C3104	1.75	2 1/4
30x3 1/2	61C3108	2.10	2 3/4
31x3 1/2	61C3110	2.25	2 3/4
32x3 1/2	61C3112	2.30	3
34x3 1/2	61C3114	2.60	3
31x4	61C3120	2.90	3 1/4
32x4	61C3122	3.05	3 1/2
33x4	61C3124	3.15	3 3/4
34x4	61C3126	3.20	3 3/4
35x4	61C3128	3.25	3 3/4
36x4	61C3130	3.45	4 1/4
32x4 1/2	61C3129	3.65	3 3/4
33x4 1/2	61C3131	3.70	4
34x4 1/2	61C3132	3.80	4 1/4
35x4 1/2	61C3134	3.90	4 1/2
36x4 1/2	61C3136	4.00	4 1/2
33x5	61C3141	4.25	4
35x5	61C3142	4.45	5 1/4
37x5	61C3146	4.65	5 1/2



RIVERSIDE Heavy Duty Inner Tubes Thicker—Stronger—Heavier

These inner tubes are made of the finest and strongest pure rubber gum and will give you years of service. They often outwear several casings and give you complete tube satisfaction. The use of pure rubber gum makes them last longer, for it is not necessary to combine this high quality rubber with certain compounds required in less expensive tubes.

Size 30 x 3 1/2
\$3.25

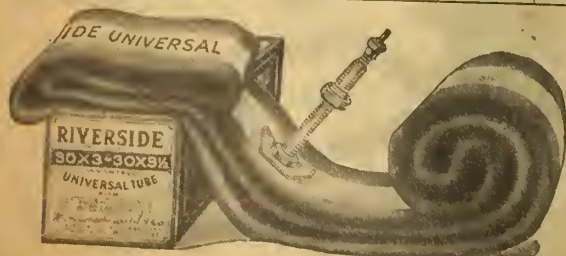
They are built by the laminated process which consists of taking many thin sheets of this special rubber and rolling them one on top of the other so troubles from porousness are practically unknown. You will find these tubes considerably thicker and stronger than regular inner tubes. They are really the most economical inner tubes to buy for they will hold air for an exceptionally long time without pumping, which is a big aid in getting greater mileage from tires. Due to the use of exceptionally fine quality materials these tubes will stretch more, making them particularly suitable for use in cord and oversize casings. For those desiring the best tubes we highly recommend Riverside Heavy Duty Inner Tubes.

Prices

Size Inches	Article Number	Price	Av. Shp. Wt., Lbs.
30x3	61C3214	\$2.65	3
30x3 1/2	61C3216	3.25	3 1/2
32x3 1/2	61C3218	3.40	3 3/4
31x4	61C3220	4.20	4
32x4	61C3222	4.30	4 1/4
33x4	61C3224	4.40	4 1/2
34x4	61C3226	4.55	4 1/2
32x4 1/2	61C3228	5.10	4 1/2
33x4 1/2	61C3230	5.20	4 3/4
34x4 1/2	61C3232	5.45	5
35x4 1/2	61C3234	5.60	5 1/4
36x4 1/2	61C3236	5.80	5 1/2
33x5	61C3238	6.20	5 1/4
35x5	61C3240	6.60	5 1/2
37x5	61C3242	6.90	5 3/4

Special Heavy Duty Inner Tube for Fords \$2.90

Universal size, fits either 30x3 or 30x3 1/2 inch casings. Exceptionally strong. Ship. wt., 2 3/4 lbs. **61C3244—Price, each \$2.90**



FORD OWNERS! Carry Two Extra Universal Inner Tubes Fits Either 30x3 or 30x3 1/2 Tires

This special Riverside Universal Inner Tube is a big money and time saver for Fords on account of its fitting either the front, 30x3, or rear, 30x3 1/2 casings. Instead of carrying two sizes you only need this one Universal size. It is built of fine quality materials by the same laminated method as used in making our highest quality tubes. On

the rim side is an extra layer of rubber that makes the tube thicker and stronger at this point, which tends to prevent rim pinches so common with ordinary tubes. Include a couple Riverside Universals in your next order so you will be prepared when the punctures come. Ship. wt., 2 lbs., each. **61C3100 \$2.10**

\$2.10

LIGHT CAR TIRES

\$11³⁰

Size, 30x3



4000 MILE
Guaranteed

Bar Tread Tires

The Bar Tread is a new, effective, non-skid design built of tough, wear resisting rubber. These tires are well made and will prove to you how Montgomery Ward & Co. is able to make your dollars buy more miles of tire service on the road.

Two Sizes, 30x3 and 30x3 1/2

Bar Tread Tires are made in two sizes only, 30x3 inch and 30x3 1/2 inch, regular clincher type. Furnished only in one style of tread as shown. Every Bar Tread Tire is guaranteed against defects in either material or workmanship on a basis of 4,000 miles service.

164C3046—Bar Tread, size, 30x3 in. **\$11.30**
Ship. wt., about 9 lbs. Price each.....
164C3048—Bar Tread, size, 30x3 1/2 in. Ship. wt., about 11 lbs. Price each..... **\$13.85**

\$19²⁵

Size, 31x3 3/4

NOTE—Riverside Tire Prices are subject to change without notice, owing to unsettled market conditions.



RIVERSIDE GIANT SIZE

Oversize Tire for 30x3 1/2 Clincher Rims

Oversize tires are saving car owners money in every way—they go farther—give greater freedom from trouble—make cars ride a great deal smoother. We have sold thousands of Riverside Giants and they have proven everything we say for them. You'll call them "comfort" tires they ride so much more smoothly, due to the increased air capacity—and they make your car look better. The tread is thicker, so there is less possibility of punctures—in fact the whole tire (aside from the bead) is considerably larger than the regular 30x3 1/2 casing.

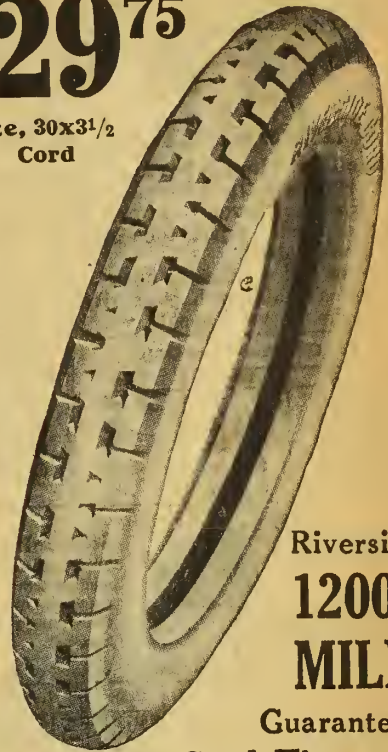
Guaranteed 6000 Miles

Riverside Giants give you the much desired oversize feature of a 31x4 size at a great saving—still they have practically the same advantage in service and comfort. They fit 30x3 1/2 clincher rims perfectly. All Riverside Giant Tires have the heavy sure hold Road Grip Tread. For Regular 30x3 1/2 Clincher Rims. Ship. wt., about 14 lbs.

164C3050—Price, each, size 31x3 3/4 in. **\$19.25**
We recommend using 31x4 inner tubes due to the extra size, but a 30x3 1/2 can be used.

\$29⁷⁵

Size, 30x3 1/2
Cord



Riverside 12000 MILE
Guaranteed

30x3 1/2 Cord Tires

For satisfactory service and real honest tire value we believe this Riverside 30x3 1/2 Cord guaranteed 12,000 miles to be the best purchase you can make. To sell this tire for less would mean that the quality would have to be sacrificed. It is greatly oversize—in fact it is as large as the regular 31x4 fabric tire. Notice the big, heavy, thick tread of the finest quality springy rubber, specially toughened so it will resist wear and not show marks of road use like ordinary tires. Your car will ride more comfortably—run more economically and give you a rest from tire worries such as you have never before experienced. Order this 12,000 mile Cord—look it over—compare it with others, and if you feel you don't want to keep it, send it back and we will return your money. Ship. wt., about 14 lbs.

164C2971—30x3 1/2 inch size for **\$29.75**
clincher rims. Price each.....
We recommend the use of 31x4 Inner Tubes in Riverside 30x3 1/2 Cords.

Leather Reliners



For Extra Hard Service
\$3⁶⁰
Up

Will Turn Small Tacks, etc., and Prevent Most Punctures and Blowouts

Made of tanned chrome leather, molded to fit inside of casing. Will give you hundreds and often thousands of miles extra service from tires, which if run without inside protection would be a total waste. Their strength is three times greater than fabric used in the construction of tires. Will practically outwear two outer casings, and lengthen the life of tires. Will turn small nails, tacks, etc. Easy to apply. Clean inside of outer casing with gasoline, then insert the reliner. Will cement to casing after air has been applied. Can be removed from old tires and placed in others.

Article No.	Size In.	Shlp. Wt. Lbs.	Price Each
61C1321	30x3	1 3/4	3.60
61C1322	30x3 1/2	2 1/4	5.35
61C1324	32x3 3/2	2 1/4	5.80
61C1326	31x4	2 1/2	5.90
61C1327	32x4	2 1/2	6.30
61C1328	33x4	2 3/4	6.50
61C1329	34x4	2 3/4	6.80
61C1331	34x4 1/2	3 1/4	7.55
61C1332	35x4 1/2	3 1/2	7.85
61C1333	36x4 1/2	3 3/4	8.15



In-A-Tires

Make Old Tires Go 2,000 to 4,000 Miles Farther

Most tires blow out and become useless long before their time on account of one little place becoming weak, then you sell what is left for 50c or 60c. You can save these old tires by putting an In-A-Tire inside when you notice the outside casing becoming weak or worn. They will make your tires wear clear down through the last layer of fabric in a way that is absolutely impossible without such reinforcement. By using an In-A-Tire you'll get more mileage and longer wear from every tire, in fact, they will run much farther than you probably expected them to go. Using In-A-Tires is the simplest and easiest way we know of for you to save tire money. You will not have nearly so much trouble from punctures, as the extra thickness of the tread helps turn small nails, and ordinary tacks cannot reach through. In-A-Tires reinforce the whole casing and give excellent protection against blowouts and rim cut troubles when used in time. Every one is fully guaranteed against defects.

\$4⁹⁵ Use In-A-Tires

- Prevent Many Punctures
- Lessen Blowout Troubles
- Save Inner Tubes
- Increase Tire Mileage



In-A-Tire Prices

Article No.	Size, In.	Shlp. Wt. Lbs.	Price Each
61C1283	30x3	4 1/2	4.95
61C1284	30x3 1/2	5	5.75
61C1285	32x3 3/2	5 1/2	5.85
61C1286	31x4	6	7.50
61C1287	32x4	6 1/2	7.60
61C1288	33x4	6 1/2	7.70
61C1289	34x4	6 3/4	7.80
61C1290	32x4 1/2	6 3/4	8.00
61C1291	33x4 1/2	7	8.10
61C1292	34x4 1/2	7	8.20
61C1293	35x4 1/2	7 1/4	8.30
61C1295	35x5	7 3/4	9.00

Made Similar To Regular Tires

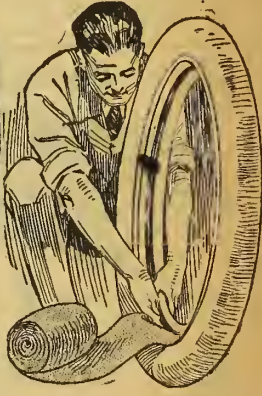
In-A-Tires are built of several layers of fabric with a cushion of rubber on the tread. Instead of beads at the bottom In-A-Tires have two flaps that are held by the beads of the old tires. This takes the heavy strain off the old tire.

Reliners Save Old Tires



\$1⁶⁰
Up

Sturdy Reliners

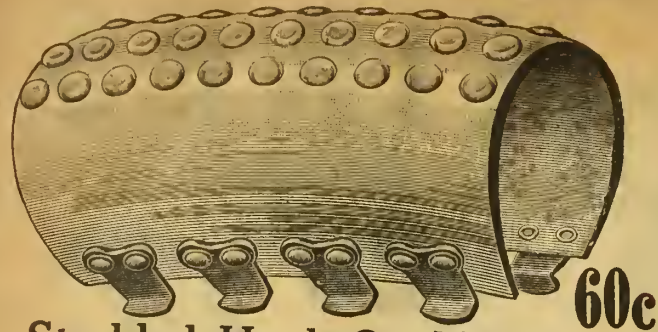


Bruises often damage the fabric in the tire so a blowout is sure. The tread may be good for hundreds of miles, but the heavy air pressure finds the weak spot—your tire goes to the junk pile. Thousands of auto owners have found these Reliners a sure way to cut tire costs way down and obtain unusual freedom from trouble. They are made of fine grade fabric, layer on layer, completely saturated and bound by high-grade rubber. Easy to put in casing and being self-cementing they become practically inseparable.

Money Saving Reliner Prices

Article No.	Size, Inches	Shlp. Wt. Lbs.	Price Each
61C1300	28x3	3	1.60
61C1301	30x3	3	1.75
61C1302	30x3 1/2	3 1/2	1.95
61C1304	32x3 3/2	4	2.35
61C1308	31x4	4 1/2	2.60
61C1309	32x4	5	2.95
61C1310	33x4	5	3.05
61C1311	34x4	5 1/2	3.15
61C1347	32x4 1/2	5 1/2	3.50
61C1348	33x4 1/2	5 1/2	3.50
61C1349	34x4 1/2	5 1/2	3.55
61C1316	35x4 1/2	6	4.05
61C1349	35x5	6	4.40
61C1318	37x5	6 1/2	4.80

Tire Repair Materials

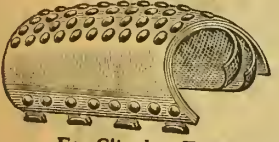


60c Studded Hook-On Tire Boot

Excellent Money Saving Tire Repair For Injured Tires. To run on a tire which has an unprotected weak spot or cut may cause a blowout. Always carry a couple of tire boots and avoid expensive repair bills by using a boot until you have the casing vulcanized.

Strong and serviceable hook-on boot. Made of chrome tanned leather. Studded with steel rivets to take wear. Hooks tightly to tire rims. Average ship. wt., 15 oz.

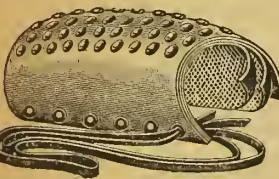
For Clincher Tires Only				For Straight Side Tires Only			
Number	Size	Price		Number	Size	Price	
61C1210	3 in.	\$0.60		61C1215	3 1/2 in.	\$0.65	
61C1211	3 1/2 in.	.65		61C1216	4 in.	.75	
61C1212	4 in.	.75		61C1217	4 1/2 in.	.80	
61C1213	4 1/2 in.	.80		61C1218	5 in.	.85	
61C1214	5 in.	.85					



Stretchless Hook-On Tire Boot

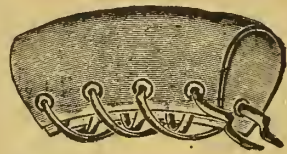
The combination of a heavy, chrome leather studded tread and 2 layers of fine fabric makes a tough and durable boot that will far outlast the ordinary boots. Strong, neat repair for blow-out.

For Clincher Tires Only				For Straight Side Tires Only			
Number	Size	Shp. Wt.	Price	Number	Size	Shp. Wt.	Price
61C1219	3 in.	14 oz.	\$0.85	61C1224	3 1/2 in.	15 oz.	\$0.95
61C1220	3 1/2 in.	15 oz.	1.05	61C1225	4 in.	16 oz.	1.15
61C1221	4 in.	16 oz.	1.15	61C1226	4 1/2 in.	17 oz.	1.30
61C1222	4 1/2 in.	17 oz.	1.30	61C1227	5 in.	18 oz.	1.30
61C1223	5 in.	18 oz.	1.30				



Stretchless Lace-on Tire Boot

This boot combines the wearing strength of steel studded leather and the water resisting qualities of a rubber boot. Combination of leather and fabric makes a tough and durable boot that will far outlast the ordinary boots. More practical and cheaper in the long run than low price boots.



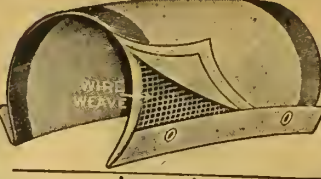
Rubber Outer Boots

These outer shoes make certain your reaching home safely, also keep grit, dirt and wear from enlarging the hole. Well made of several plies of heavy tire fabric and good grade rubber stock, vulcanized. Made over a form, and fit the casings perfectly. Strong lacings included.

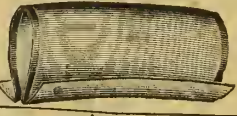
Number	Size	Shp. Wt.	Each
61C1205	3 in.	14 oz.	\$0.55
61C1206	3 1/2 in.	15 oz.	.70
61C1207	4 in.	16 oz.	.85
61C1208	4 1/2 in.	17 oz.	.95
61C1209	5 in.	18 oz.	1.05

Best Quality Wire Weave Blow-out Patch

New patented wire weave construction greatly strengthens this patch so it holds its shape under pressure and will not pull through blow-out in casing. A great improvement over ordinary patches. The wire weave is completely protected by a cushion of rubber and several layers of strong fabric molded to the shape of the tire.



Art. No.	Size	Shp. Wt.	Price Each
61C1334	3 in.	9 oz.	\$0.55
61C1335	3 1/2 in.	11 oz.	.75
61C1336	4 in.	12 oz.	.90
61C1337	4 1/2 in.	13 oz.	1.05
61C1338	5 in.	17 oz.	1.15



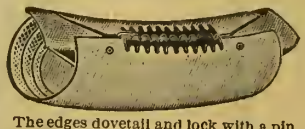
Good Low Priced Double Flap Inner Patch

A good serviceable patch that will protect the casing and inner tube when the tire has been weakened by a bruise or small cut. Fits snug to casing. Made with good grade fabric. Flaps held by tire head prevent creeping and bulging. Suitable for both clincher and straight side tires.

Number	Size	Shp. Wt.	Price Each
61C1273	3 in.	6 oz.	26c
61C1274	3 1/2 in.	8 oz.	30c
61C1275	4 in.	9 oz.	35c
61C1276	4 1/2 in.	10 oz.	40c
61C1277	5 in.	13 oz.	50c

Phillips Patent Blow-Out Boot

Made of many strands of tough tire fabric. Permanently shaped to the form of a tire. Will not wrinkle or roll. Holds the largest blow-out, completely encircles the inner tube, protecting it at every point. It is as strong at the head as at any other point. A sure repair for rim cuts. The tire repair absolutely prevents the patch from spreading. It cannot pull out through the blowout hole.



The edges dovetail and lock with a pin. Aver. ship. wt., 14 oz.

Number	Size	Price
61C1245	3 in.	\$0.70
61C1246	3 1/2 in.	.80
61C1247	4 in.	1.00
61C1248	4 1/2 in.	1.20
61C1249	5 in.	1.40



Riverside Inner Tube Patch Outfits

Rubber Patch Outfit

Outfit contains a strip of patching rubber, a tube of rubber cement, and a strip of emery cloth. Patch stays on and will outwear inner tube. Clean tube around puncture with gasoline, roughen surface with emery paper, cut patch from sheet to proper size. Apply a coat of cement to the tube and moisten the raw side of patch with gasoline. Allow both to dry about five minutes, then stick patch firmly to tube. Screw-top containers. Ship. wt., 6 and 8 oz.

61C1344—Patch size 3x12 in.	Price.....	27c
61C1345—Patch size, 3x24 in.	Price.....	33c

Fabric Back Patch Outfit

For repairing inner tubes, and emergency repairs on casings. Contains a strip of fabric patch, size, 3x2 1/2 in., a tube of rubber cement and a strip of emery cloth. All that is necessary is to clean tube around puncture with gasoline, roughen surface with emery paper, cut patch from sheet to size needed, apply a coat of cement to the tube and moisten the raw side of patch with gasoline. Allow both to dry about five minutes, then stick patch firmly to tube. The pressure of the air against the casing will make the patch cement itself very tight to the tube. Directions included. Screw-top containers. Ship. wt., 1/2 lb.

61C1343—Price, each... 35c

Challenge Cementless Patches

Good dependable self-cementing patches. Should be in every tool kit. An assortment of patches, sizes 1 1/2 in. to 2 inches, with full directions for use. Put up in neat box. Ship. wt., 4 oz.

61C1471—Price, each.... 20c



Complete Emergency Tire and Inner Tube Repair Outfit

It does not take very long for a very small hole in a casing to cause trouble if neglected. Dirt and grit quickly wear their way through to the fabric and a blow-out is the result. You will find it a mighty economical practice to inspect your casings frequently. Then keep this outfit ready to seal up all the small cuts. A real safety-first outfit. Contains all necessary material for repairing punctured tires, small tears, cuts, etc. One Emergency Blow-Out Patch, size, 7x9 in.; one can of 10 Cementless Patches; one Fix-a-Cut Outfit, containing one 2-oz. can of Tire Putty; one can Special Auto Rubber Cement; one 2-oz. roll of Tire Tape; one can of Talc, size, 2x7 in.; complete instructions for use. Ship. wt., 2 1/2 lbs.

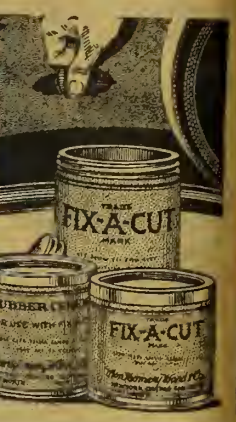
61C1587—Price, complete Outfit... \$1.15



Fix-a-Cut Rubber Repair Outfit

For tires and tubes also rubber articles. A 2-ounce can of Fix-a-Cut Compound, a 1-ounce can of special auto rubber cement, and a piece of emery cloth. Ship. wt., 14 oz.

61C1551—Complete outfit... 40c
61C1552—2-ounce can. Fix-a-Cut Compound only... 23c

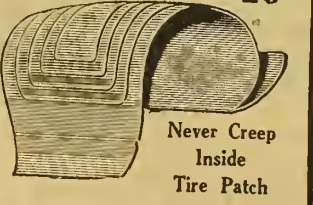


55c Special for Small Tires 40c



Leather Studded Boot Will save many a tire from serious damage. Makes an excellent temporary repair. Made of good, tough stock reinforced at tread with extra layer of material studded with broad rivets; long tough lace.

61C1802—For 3-inch tires Price 55c
61C1803—For 3 1/2-in. tires Price 70c

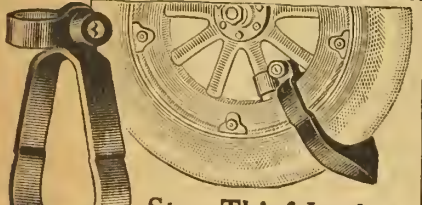


Never Creep Inside Tire Patch

Made of several plies of fabric. One flap fits securely under casing clinch. Other flap is made separate and enables you to fit patch accurately. Specially made for protecting weak spots and blow-outs in casing. Will fit either front 3-inch or 3 1/2-inch tires. Ship. wt., 8 oz.

61C1801—Price 40c

Auto Locks



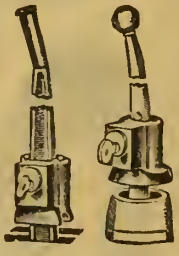
Stop-Thief Lock

A thief trying to get away with a car equipped with a "Stop Thief" lock will immediately attract the attention of every passerby, as the noise shows there's something wrong and the lock prevents the spoke of wood wheels only, making it impossible for lock to turn on its side, twist or change its position in any way. Can also be used to prevent car from running away when stopping on a hill, or as a mud hook to aid in getting out of mud holes, etc. Painted green. 2 keys. Cord Tires take 1/4 inch larger size. Ship. wt., from 4 to 6 lbs.

61C3590—For 3 in. size Tire.....	\$4.95
61C3592—For 3 1/2 in. size Tire.....	5.95
61C3593—For 4 in. size Tire.....	6.65
61C3594—For 4 1/2 in. size Tire.....	7.45
61C3596—For 5 in. size Tire.....	8.45

Neutrallock

Locks the Gear Shift Lever



\$7.95 and up

The Neutrallock locks the gear shift lever in neutral position so the car cannot be moved under its own power thus stopping both thieves and accidental starting. To lock your car simply step on the Neutrallock or press it with your hand and it locks automatically. Either the Ball Type or H Type can be easily and quickly installed. Cannot be unlocked with a master key. It does not interfere with the action of the shifting lever nor does it prevent car being moved by hand in an emergency. Approved by Underwriters Laboratory. Ship. wt., 3 lbs.

Approved by the Underwriters Laboratories

A large percentage of the auto thieves have found ways to get around ordinary locks so it has become necessary to lock the car in a way power cannot be carried to the rear wheels.

61C3629—Briscoe 1917-18-19	\$7.95
61C3630—Hudson Super Six 1918-19	7.95
61C3631—Cadillac, 1917-18-19-20	9.45
61C3632—Chandler 1916 to 1920	9.45
61C3633—Chevrolet 490, 1916 to 1920	9.45
61C3634—Dodge All Models	9.45
61C3635—Dort 1917 Models	9.45
61C3636—Essex 1919-20	9.45
61C3637—Grant 1916-17-18-19	9.45
61C3638—Hupmobile 1918-19-20	9.45
61C3639—Jordan 1918-19-20	9.45
61C3640—Maxwell 25, 1916-17-18	9.45
61C3641—Reo 4 and 6 Cyl. 1916-1918-19	9.45
61C3642—Mitchell 1918-19	9.45
61C3643—Nash 1918-19-20	9.45
61C3644—Oldsmobile 8 Cyl. Models 44, 45, 45A, 1916-17-18	9.45
61C3645—Oldsmobile 37, 1919-20	9.45
61C3646—Reo 4 and 6 Cyl. 1916	9.45
61C3647—Studebaker 1919-20	11.65

Tire Powder

A good quality soap stone. Should be used liberally in casings when inserting inner tubes. Prevents sticking of inner tube to casing. Free from grit. Sifter top carton. Ship. wt., 1 lb.

61C1483—Each... 11c



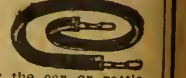
Made of a spiral hardened steel cable covered with rubber to prevent rusting. Ends of cable are fastened into special attachments to prevent slipping through lock shackle. Cable is about 3 ft. long so it will hold two or three tires and can be drawn up so as to eliminate all rattles. Extra strong high grade lock furnished with two keys. Ship. wt., about 1 lb.

61C3366—Complete with lock... \$1.30


Lock Chains For Tires

Furnished in either black leather or artificial leather covering—will not scratch or mar the car or rattle. Can be used to lock car wheels while standing. Chain case hardened. Use with any key or keyless padlock—lock not included. Ship. wt., 2 lbs.

61C1772—Leather covered. Price \$1.05
61C1773—Artificial leather covered. Price 70c



Vulcanizers and Pumps



Five Minute Vulcanizer
85c

With each vulcanizer there are 12 patches, complete with chemically treated heating elements which do away with the necessity of using gasoline. There is no flame to burn the tube. Works in the wind, so you can readily put on sure hold patches by the roadside. The outfit consists of the vulcanizer, 12 patches and 12 heating discs. Ship. wt., outfit, 1 lb. Patches and discs, only 8 oz.

61C1415—Complete Outfit..... 85c
61C1416—12 Heat Units with Patches..... 55c



REPAIRING INNER TUBE
COMPLETE OUTFIT
Adamson's Universal Vulcanizer
\$1.65

REPAIRING CASING

A well known vulcanizing outfit for vulcanizing tubes or casings. Reliable and efficient as well as inexpensive. Simply place patch on tube or casing, attach vulcanizer, put in gasoline with the measure furnished, light it, and no further attention is needed. In a few minutes you have a perfect repair. Will soon pay for itself. Can't burn, scorch or injure when used as directed. Made of cast iron, japanned black, 3 1/2-inch polished square face. Shipping weight, 4 pounds.

61C1401—Price, each..... \$1.65

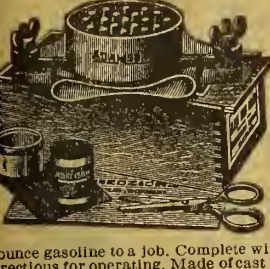
Handy Steam Vulcanizer
for Tires and Tubes



Does a first-class vulcanizing job on either casings or inner tubes. You don't even need to watch it—no gauge or thermometer necessary. Merely light the burner and when it goes out the job is finished. The steam chamber consists of a special hollow casting containing about 2 ounces of water sealed tightly with a screw plug.

This gives you the benefits of steam vulcanizing similar to that used in tire factories. A fire pot of special construction covered by a steel protector, so it is not affected by wind, quickly generates the water into steam. After job is completed it condenses back into water again. The water will last about 2 years before needing refilling. Will vulcanize a good size patch on either casing or tube as the highly polished face is 5x3 1/2 inches. Every part is strongly made of iron and steel, finished in white, nickel and black. Shipping weight, about 5 1/4 pounds.

61C1411—Complete Outfit as shown \$2.95

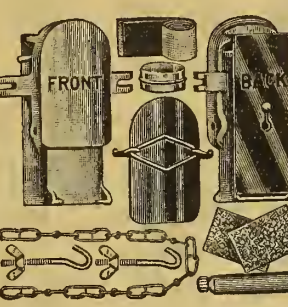


Adamson Model T Vulcanizer
For Inner Tubes

For vulcanizing inner tubes only. Vulcanizes perfectly in few minutes. Quickly repays its cost on the first few patches. Requires 1 ounce gasoline to a job. Complete with repair gum and full directions for operating. Made of cast iron, japanned black, 3 1/2-inch polished square face. Ship. wt., 3 1/4 lbs.

61C1410—Price, each..... \$1.18

Handy Steam Vulcanizer
For 30x3 and 30x3 1/2 Tires and Tubes



Built similar to big Handy Vulcanizer 61C1411 shown at right. Gives a perfect repair for cuts in casings and a permanent patch in inner tubes. Carried in tool box. No watching required. Furnishes with repair rubber and cement. Black and nickel finish. Size of face, 2 1/2 x 4 inches. Ship. wt., abt. 4 lbs.

61C1418—Price, each..... \$1.95

Vulcanizing Material Outfits

For use with steam, alcohol, gasoline or gas vulcanizers. Convenient to carry in the car. Outfits packed in screw-top cartons with directions. Ship. wt., 10 oz.


61C1476—Vulcanizing Outfit. Containing one can Vulcanizing cement and one large sheet of 2 1/2 x 24-inch tube stock..... 40c
61C1477—Vulcanizing Outfit. Containing a piece of 30-minute cure tread stock. Size, 2 1/2 x 24 inches One can Vulcanizing Cement..... 40c
61C1478—Combination Outfit. Containing a can of Vulcanizing Cement one 2 1/2 x 12-inch sheet of tube stock; one 2 1/2 x 12-inch sheet of 30-minute cure casing stock..... 42c

Adamson Repair Gum for Vulcanizing
15c



A high grade rubber stock for use with gasoline or steam vulcanizers in repairing tubes or casings. It is compounded so as to give a perfect adhesion without the use of cement. Put up in small convenient size rolls of about 2 oz.

61C1451—Per roll..... 15c




Schradler Universal Valve Insides

Same as used in all standard inner tubes. Packed five in tin box. Ship. wt., about four ounces.

61C1703—Per box of five..... 40c
61C1704—Each..... 8c

5-In-One Valve Tool



Re-threads injured valve stems both inside and out; remove valve insides. Fits all size standard stems. Ship. wt., 2 oz.

61C1708—Price, each..... 16c

Vulcanizing Stock

In small rolls. Made of an extra good grade of rubber compound. Size, 1 1/2 x 15 inches. Ship. wt., 1 lb. per doz rolls..

61C1472—Tube Stock, Roll..... 8c
61C1473—Dozen tube rolls..... 85c
61C1474—Tread Stock Roll..... 7c
61C1475—Dozen Tread rolls..... 75c

Vulcanizing Material Outfits



61C1476—Vulcanizing Outfit. Containing one can Vulcanizing cement and one large sheet of 2 1/2 x 24-inch tube stock..... 40c
61C1477—Vulcanizing Outfit. Containing a piece of 30-minute cure tread stock. Size, 2 1/2 x 24 inches One can Vulcanizing Cement..... 40c
61C1478—Combination Outfit. Containing a can of Vulcanizing Cement one 2 1/2 x 12-inch sheet of tube stock; one 2 1/2 x 12-inch sheet of 30-minute cure casing stock..... 42c



Schradler Tire Pump Connection

Screw this connection into your hose coupling and leave it there as a permanent part of your hose line. For hand or engine driven tire pumps. Air pressure in the tires can be tested by placing gauge on top of this device without loosening connection from valve. Ship. wt., 3 ozs.

61C1709—Each..... 50c

Tire Gauges

You can't tell the pressure without one



Schradler
Indicator stays up till reset. Vest Pocket Leather Carrying Case. Made of brass, nickel plated. Length, 2 1/2 in.; diam., 1/4 in.

61C1702—Price, each \$1.50

Twitchell
Has the new positive lock stop. Made of brass, nickel-plated. Length, 3 1/2 inches. Diameter, 1/2 inch. Ship. wt., 2 oz.

61C1710—Each..... \$1.50

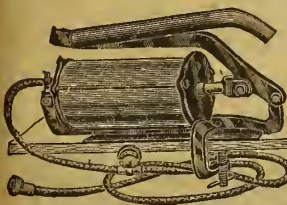
Tire Gauge



A new design thoroughly tried and tested. A good low priced gauge. Registers up to 120 pounds. To test pressure place on valve stem. Hand stays stationary at pressure indicated until reset. Made of brass, finely nickel plated. Height, 2 inches; diameter, 1 1/2 inches; thickness, 3/4 inch. Shipping weight, 4 ounces.

61C1701—Each..... 90c

Yankee Running Board Tire Pump



Has new design improved plunger. Requires much less effort to inflate a tire than with the ordinary type of pump. Has a two-piece handle that can be folded into a small space of 11 inches. Length of handle put together 17 in. With the 3 1/2 x 3 in. cylinder it makes a long free stroke possible. Pump has strong iron frame and steel cylinder, nickel-plated. Sufficient hose furnished to reach all tires on any car, from where pump is fastened to running board. Ship. wt., about 8 lbs.

61C1651—Price, ea., without gauge..... \$3.95
61C1671—Price, ea., with gauge..... 4.65

TIRE PUMPS

\$5.85
61C1683



Inland I. X. L. Running Board Tire Pump


The finest, most substantial, easy operating hand pump we have ever seen. A woman or child can pump up even large size tires with ease. A real friend when there's a tire to pump. Handle opened is 25 inches long—giving leverage many times greater than ordinary pumps. Can be quickly attached to either running board.

Special Features

Leak proof, seamless steel cylinder, 3x6 1/4 inches, polished—patented folding handle—folding clamp attached to base—strong malleable iron base—fine quality leather plunger, specially treated—pump folds up so it takes little space, 3x4 1/2 x 13 1/2 inches—no loose parts to rattle or lose—built to last for many years. Complete, with 7 feet of good quality hose. Shipping weight, about 9 lbs.

61C1683—Price, each, without gauge..... \$5.85
61C1684—Price, each, with gauge..... 6.45

Crane Engine Driven Tire Pump \$10.45



Operated direct from motor crank shaft by short coupling. Attached exactly the same way as hand crank and locked into position by clamp. Let your motor do the pumping—You'll take better care of your tire when you have this pump. Complete with accurate gauge. Small size so fits under seat. Ship. wt., 4 1/2 lbs

Fits the following cars:

Mention Model and Year When Ordering	Price, Each
61C1675—Chandler, 1914-20. All Models.....	\$10.45
61C1673—Dodge, All Models.....	10.45
61C1679—Oakland, 32-32B.....	10.45
61C1676—Overland, 85-4-Cyl.....	10.45
61C1677—Overland, 75, 90.....	10.45
61C1678—Reo, 1915-16. All models.....	10.45
61C1682—Reo, Late 1917-18.....	10.45
61C1674—Studebaker, 1916-17-18. 4 or 6-cyl.....	10.45
61C1681—Studebaker, 1919-20. 4 or 6-cylinder.....	10.45

Patented Valve High Pressure Tire Pump



Has a new patented valve principle, making it easy to operate under all pressures. Full compression at every stroke with but little friction. If you are looking for a low priced hand pump that will inflate your tires without tiring you—order this one. It is durably constructed of 18-gauge seamless steel tubing which will stand hardest service. Length over all, 23 in. Diameter, 1 1/2 in. Ship. wt., 3 1/2 and 4 lbs.

61C1653—1 1/2 in. size..... \$2.35
61C1650—1 1/2 in. size..... \$2.65

Single Cylinder Pump

Meets long felt want for a low priced pump that will give entire satisfaction. Made of seamless drawn tubing, thick enough to prevent bulging or denting under ordinary conditions. Good quality rubber hose and universal connections furnished, for attaching to any valve. Single cylinder, length, 18 in.; diameter, 1 1/2 in. Ship. wt., 4 lbs.

61C1655—\$1.15

Two Cylinder Tire Pump \$1.85



Produces a good strong pressure. Made of seamless drawn tubing, highly polished, and will not rust. Length of barrels, 16 1/2 in. Diameter of large barrel, 1 1/2 in.; small one, 3/4 inch. Ship. wt., 6 lbs.

61C1654—\$1.85

Three Cylinder Compound Tire Pump \$3.95



Will inflate your tires quickly. A most powerful hand pump. Thoroughly tested before leaving factory. Three cylinders of heavy seamless, drawn tubing, highly polished and rust-proof. Diameters of cylinders, 1 1/2, 1 1/4, and 3/4 inches. Length, 18 in. Length of pump, over all, 22 ins. Base is heavy enameled. If you want a big, powerful, quick-acting hand-pump, get this and inflate your tires with little exertion. Ship. wt., 6 lbs.

61C1652—Price, each..... \$3.95

White Stripe Tire Covers

\$2.60
And
Up

These tire covers have two white stripes around the center which gives them a very attractive appearance. Made to fit tires on demountable rims carried on special holders, such as on Buick, Elgin, Hupmobile, Chandler, Patterson, Haynes, Maxwell, Chevrolet, Dodge, Briscoe, Paige, Interstate, Overland, Saxon, etc. Fit any make of plain or non-skid tire. Made of fine enameled fabric. Ship. wt., 3 lbs. Covers do not fit around the rim.

Art. No.	Size, In.	Price
61C1830	30x3	\$2.60
61C1831	30x3 1/2	2.75
61C1832	30x4	2.85
61C1833	30x4 1/2	2.95
61C1834	30x5	3.00
61C1835	30x5 1/2	3.10
61C1836	30x6	3.20
61C1837	30x6 1/2	3.30

Art. No.	Size, In.	Price
61C1838	31x4 1/2	\$3.05
61C1839	31x5	3.15
61C1840	31x5 1/2	3.25
61C1841	31x6	3.35
61C1842	31x6 1/2	3.45
61C1843	31x7	3.55
61C1844	31x7 1/2	3.65
61C1845	31x8	3.75

TIRE COVERS, JACKS, CHAIN

Cord Tires Take Oversize Covers

30x3 1/2 Cord take 31x4 Cover.	31x4 Cord take 35x4 1/2 Cover.
32x3 1/2 Cord take 33x4 Cover.	31x4 1/2 Cord take 36x5 Cover.
32x4 Cord take 34x4 1/2 Cover.	35x4 1/2 Cord take 36x5 Cover.
32x4 1/2 Cord take 34x5 Cover.	36x4 1/2 Cord take 37x5 Cover.
33x4 1/2 Cord take 34x5 Cover.	35x5 Cord take 36x5 1/2 Cover.
33x5 Cord take 34x5 1/2 Cover.	37x5 Cord take 38x5 1/2 Cover.

Champion \$3.10 Tire Covers And Up

For use with all tires when carried on demountable rims—completely covers tire and rim.
Practically water and dust proof. Made of good grade black enameled fabric. Fit casing and rim perfectly, and fasten with snap buttons and spring. Easily adjusted. Quickly put on.
When ordering specify size and name of tire.



Black Tire Covers

Neat tire covers. Are made to fit tires on demountable rims carried on special holders, such as Buick, Hupmobile, Chandler, Elgin, Patterson, Haynes, Interstate, Maxwell, Chevrolet, Dodge, Briscoe, Paige, Overland, Saxon, etc. Strong, serviceable covers. Fit any make of plain or non-skid tire. Made of good grade enameled fabric. Covers do not fit around the rim. Ship. wt., abt 3 pounds.



Art. No.	Size, In.	Price	Art. No.	Size, In.	Price
61C1810	30x3	\$2.20	61C1819	35x4 1/2	\$2.7
61C1811	30x3 1/2	2.25	61C1820	36x4 1/2	2.6
61C1812	32x3 1/2	2.35	61C1821	38x5	2.7
61C1813	31x4	2.35	61C1822	34x5	2.7
61C1814	32x4	2.40	61C1823	36x5	2.7
61C1815	33x4	2.45	61C1824	37x5	2.8
61C1816	34x4	2.55	61C1825	38x5 1/2	2.8
61C1817	35x4 1/2	2.55	61C1826	36x5 1/2	3.0
61C1818	34x4 1/2	2.60	61C1827	38x5 1/2	3.1

Genuine Weed Anti-Skid Chains

Prevent skidding—run free on casings and do not cut the tires. Cross chains of special annealed wire stock. Hardened in special furnaces and heavily brass plated, combining strength and wearing qualities. Every pair stamped "Weed," put up in brown cloth bag.

Article Number	Ship. Wt. Pounds	Size of Tires	Price Per Pair
61C6514	14 1/2	30x3	\$4.05
61C6515	14 1/2	30x3 1/2	4.50
61C6516	16	32x3 1/2	4.95
61C6517	17	31x4	5.55
61C6518	17 1/2	32x4	5.55
61C6519	18	32x4 1/2	5.55
61C6520	18 1/2	34x4	6.00
61C6521	19	32x4 1/2	6.00
61C6522	19	33x4 1/2	6.40
61C6523	19 1/2	34x4 1/2	7.25
61C6524	21	35x4 1/2	8.00
61C6525	22	36x4 1/2	8.00
61C6526	22 1/2	33x5	8.00
61C6527	23	35x5	8.10
61C6528	25	37x5	8.80

Rid-O-Skid Tire Chains

These tire chains are exceptionally good when used on muddy or sandy roads. While not as strongly serviceable on country roads, they are especially serviceable on city streets. We recommend the Weed chain for sizes larger than 34x4. Ship. wt., per pair, 12 to 16 lbs.

61C6532	30x3 inches.	Per Pr.	\$2.50
61C6533	30x3 1/2 in.	Per Pr.	2.65
61C6534	32x3 1/2 in.	Per Pr.	3.80
61C6535	31x4 in.	Per Pr.	3.90
61C6536	32x4 in.	Per Pr.	4.00
61C6537	32x4 1/2 in.	Per Pr.	4.10
61C6538	34x4 in.	Per Pr.	4.20

Weed Cross Chains

For repairing and replacing Weed or Rid-O-Skid cross chains when worn out. Specially hardened and electrically welded.

Number	Size	Ship. wt.	Each
61C6539	3 in.	4 oz.	60c
61C6540	3 1/2 in.	6 oz.	80c
61C6541	4 in.	7 oz.	1.00
61C6542	4 1/2 in.	7 oz.	1.00
61C6543	5 in.	7 oz.	1.20

Mud and Skid Chains

Quickly and easily applied even when stuck in the mud. Eight individual chains, four to each rear wheel. Made with smooth surface, and are easy on the tire. Leather loop fastens around spoke and will not tear up or lengthen as required. Each set put up in suitable box for carrying. Ship. wt., set of 8, about 8 lbs. Price below is for set of 8.

61C6530	Size, 3, 3 1/2	\$3.85
61C6531	Size, 4, 4 1/2, 5	4.20

Missing Link to Repair Weed Chains

Repairs broken tire chains in a couple minutes. The Missing Link. Made of special wear-resisting material. Comes in boxes of ten. Carry a box in your tool chest and prevent any possibility of tearing your fender and do away with disagreeable snapping noise. Ship. wt., 1 lb.

61C6544	Price, lot of ten complete	60c
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Weed Chain Repair Pliers

Used in taking off or putting on cross chains, or in repairing side chains. Operates easily and will not crack or break the hooks in the end of links. Made of high carbon, drop forged steel. Length, about 12 1/4 inches. Ship. wt., 24 oz.

Long Handle Ball Bearing Jack

Here's one of the finest, easy acting jacks it is possible to get. No more getting dirty crawling under bumpers and spare tires to place jack in position. Just open handle, fasten it, and shove jack under the axle. Simply turn handle to operate. Ball bearing construction makes lifting easy. Length of handle open, 34 inches; closed, 17 inches. For cars up to 4,000 lbs. Height, 10 in.; raise, 6 in. Ship. wt., about 8 1/2 lbs.

61C1600—Price, each..... \$5.25

Giant Size Foot Lift Jack

Designed to be used on cars with different height front and rear axles; also handy when touring in case you get stuck in a hole. The foot can be set at any height from 4 1/2 to 10 1/2 inches. Lift of top from 11 to 17 inches. Construction and material very best. Suitable for cars weighing up to 4000 lbs. Complete with handle. Ship. wt., about 12 lbs.

61C1605—Price Each..... \$4.25

Little Giant Jack \$2.85

An excellent jack for light and medium weight cars. The base is large and well ribbed so that it will readily stand on uneven surfaces. Short stroke of handle gives rapid rise. Has lever for tripping. Handle furnished. Height, 11 in.; raise, 6 in. For all cars up to 3,600 lbs. Ship. wt., 7 1/2 lbs.

61C1606—Price, Each..... \$2.85

Double Duty Jack

For Cars Up to 3600 Lbs.

Constructed entirely of malleable iron. Very simple construction, exceptionally easy to operate. Fitted with foot lift giving extra range of adjustment. The lifting pawls are heavy and the spring mechanism is simple and positive. Adjustable from 10 to 16 inches. Height of foot, from 5 to 10 inches. Ship. wt., about 5 lbs.

61C1613—Each..... \$1.85

Challenge Jack

Winged handle engages the teeth on the wheel in a way that makes operation easy and quick. Reverse action of jack simply trip the pawl. Has heavy center bar with thick durable threads. Suitable for all cars weighing up to 2500 pounds. Adjustment 10 to 16 inches. Ship. wt., 6 lbs.

61C1607—Price each..... \$1.35

Mud Hooks

If you are ever stalled in the mud or sand all that is necessary is to put two or three on each rear wheel and you'll get out in a jiffy. Can be put on wheels in deep mud, where impossible to put chains and ropes. Will not injure tires. Made of black enameled iron. Straps not included. Ship. wt., each, about 2 lbs.

61C6503—3 and 3 1/2 in. 75c
61C6504—4 and 4 1/2 in. 80c
61C6505—5 and 5 1/2 in. 85c

Ad-More Trade Mark Tire Carrier \$3.50

It is always advisable to carry two extra inflated tires. The Ad-More carrier fits over original spare tire. Designed so it can be attached or removed easily and quickly. Weight of second tire is distributed so there is very little strain on the carrier. Keeps your spare tires safe, convenient, handy. Specially valuable for the tourist making long trips. Be sure to order size wanted. Ship. wt., about 8 lbs.

61C1778—For 3 1/2 inch 30 to 33 size tires. Each..... \$3.50
61C1779—For 4 inch 32 to 37 size tires. Each..... \$3.50
61C1780—For 4 1/2 inch 32 to 37 size tires. Each..... \$3.95

Carryall Outfit \$4.45

for Packages and Suitcases

Don't throw bundles around on the seats or hold them in your hands—or let them bang around and mar up the inside of your car. Buy this carryall outfit. It is the handiest article of this kind we have ever seen. Can be put on or removed from running board in two or three minutes and holds suitcases or packages firmly so they will not injure finish of car. Just think of the dozens of times this simple compact outfit will serve you. Farmers will find use for it on practically every trip to town. Every tourist should have one or two. It looks and is very neat. Adjustable to any length from 10 to 50 inches so you can carry all usual sized packages. Length when open 10 to 50 in. Three thumb screws hold it securely to running board. Size folded, 11 1/2 x 19 x 2 1/2 inches. Ship. wt., about 13 1/2 lbs.

61C6468—Price, each..... \$4.45

Non-Shrinkable Web Straps

Used for attaching mud hooks, and in many other places around a car. Have patent adjustable black japanned buckle. Waterproof. Tough and serviceable. Ship. wt., 8 oz.

61C6509—1x36 in. 44c
61C6510—1x42 in. Each..... 46c
61C6511—1x48 in. Each..... 50c

Tow Rope \$1.65

A simple, strong, easily adjusted tow rope. No knots to tie. Never slips or loosens when going over cross walks or rough roads. Buckle adjusted back of end of rope so it will not injure or mar the axle. Can be buckled anywhere on the rope. Good quality rope. Length, about 22 feet. Ship. wt., 3 lbs.

61C6508—Each..... \$1.65

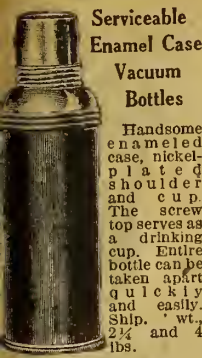
Positive Rim Remover \$2.20

Removes and replaces split rims of any size or make. Applying a powerful leverage, it operates successfully on every make of split rim and can be easily adjusted to fit all sizes. Will remove the most stubborn rim in a few seconds of time without prying or hammering on either rim or casing. Ship. wt., about 4 lbs.

61C1777—Price, each..... \$2.20

BUMPERS, CARBON REMOVERS

Vacuum Bottles



Serviceable Enamel Case Vacuum Bottles
 Handsome enameled case, nickel-plated shoulder and cup. The screw top serves as a drinking cup. Entire bottle can be taken apart quickly and easily. Ship. wt., 2 1/2 and 4 lbs.

61C6620—1 pint size \$2.60
 61C6621—Quart size \$3.75

Extra Inner Bottles

61C6607—1 pint, glass. Inner bottle fits 61C6620.
 61C6608—quart, glass bottle fits 61C6621. Each \$2.95

Nickel Plated Vacuum Bottle
 Our Special Model Vac. Bottle. Equal to any of the highest priced nickel plated bottles. Extra strong metal case, heavy case, nickel plated. Can be taken apart and cleaned or a new inner bottle inserted in less than a minute. Neck protrudes above metal casing, preventing contents from coming in contact with metal case when pouring. Ship. wt., 2 1/2 and 3 1/2 lbs.

61C6604—1 pint size \$3.85
 61C6605—1 qt. 5.95
 Extra Inner Bottles
 61C6607—1 Pint Inner Glass Fits 61C6604.
 61C6608—1 Quart Inner Glass Fits 61C6605. Each \$2.95

Lunch Kit with Vacuum Bottle

Consists of a one-pint Vacuum bottle in a light, durable, black enamel metal carrying case. Two clasps. Hinged cover. Length, 10 1/2 inches. Height, 7 inches. Width, 4 1/2 inches. Lower part serves as a lunch box. Holds food for two persons. Top of bottle serves as a drinking cup. Mighty handy for mechanics, farmers, school children, automobilists, trips on train, fishing trips, picnics, etc. Ship. wt., 4 1/2 lbs.

61C6603—Price \$3.35

Back Rest \$2.15

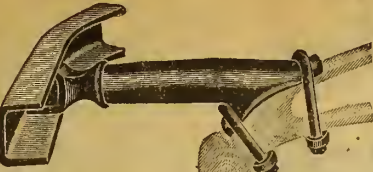
Keeps Away the Backaches
 A wedge shape cushion back rest that fits the driver's back and makes driving more comfortable. An excellent article for women drivers or persons of small stature. Cushion well made of imitation leather, well seam binding. Well upholstered and will retain its resiliency and lightness. Size, about 16x16 inches. Ship. wt., about 3 1/2 lbs.

61C6675—Price \$2.15

Comfy Cushion \$1.70

For automobiles, motor boats, porches, camps and outings. Made of high grade imitation Spanish leather. Filled with vegetable fibre, soft and downy. Also can serve as a life preserver, having four times the buoyancy of cork. Size, 15x15 inches. Ship. wt., 1/2 lbs.

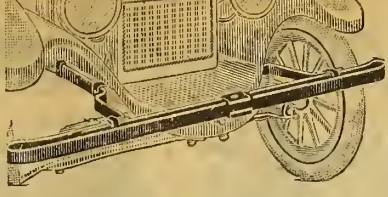
61C6685—Price, each \$1.70



Universal Bumper

Has heavy channel bar. For all automobiles having drop front spring hangers which are not enclosed by aprons extending within 5 in. of end of frame. Fittings are placed directly on end of frame with a rocker device that allows them to be set at any desired angle. Bar, 2 in. wide, 1 1/2 in. deep. Shocks are absorbed by coil spring inside of arms. Ship. wt., 20 lbs.

61C3475—All black finish \$7.65
 61C3476—Nickel plate finish \$8.75



Spring Bumper For New 1920 Overland-4

Same quality as shown at right. Special clamps and arms to fit new Overland "4" Model without drilling. Crank extension furnished with front bumper so engine can be cranked by hand if necessary. Ship. wt., about 30 lbs.

61C3487—Front, Black Finish \$10.45
 61C3488—Front, Nickel Finish \$12.25
 61C3489—Rear, Black Finish \$10.65
 61C3490—Rear, Nickel Finish \$12.65

Gasoline Savers and Carbon Removers



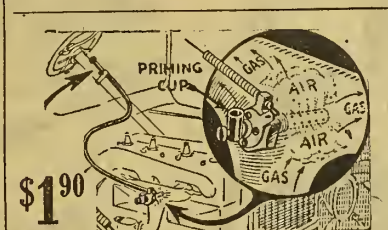
Wilmo Manifold \$9.25 and up For Popular Cars

Tests before prominent auto associations have shown over 35 per cent more mileage per gallon. A divided wall separates the exhaust and intake and permits the heat of the exhaust to completely vaporize the incoming gas, which gives more perfect combustion, produces greater power and gives more mileage per gallon of gasoline. The Wilmo Manifold takes the place of the present manifold on your car. No machine work is required to install. The change can be made in a few minutes. Carried in stock for the following cars. Ship. wts., about 15 lbs. to 40 lbs.

Art. No.	Car and Model	Price
61C9289	Buick, D-34, D-35, 16-17	\$9.25
61C9290	Maxwell, 25, 16-17	9.25
61C9292	Oakland, 6-32, 16-17	9.25
61C9293	Overland, 59-69-79	10.75
61C9294	Overland, 81-83	10.75
61C9295	Saxon, 6, 16	10.75
61C9296	Studebaker, 4 cyl. '17, '18	10.75
61C9297	Studebaker, 6 cyl. '17, '18	14.35
61C9300	Buick, 6 cyl. D-44-45	14.35

Little Wonder Gasoline Saver

Ten actual tests show saving of 10 to 20 per cent gasoline and increased speed. Pays for itself the first few miles used, and after that it saves you money on every mile of travel. Automatic—nothing to adjust. Attached to manifold easily and quickly. Projects only 1 1/4 inches after inserted in place. Standard 1/2 inch pipe thread. Nickel plated and polished. Length over all, 1 1/4 inches; diameter 1/2 inch. Ship. wt., 4 oz.

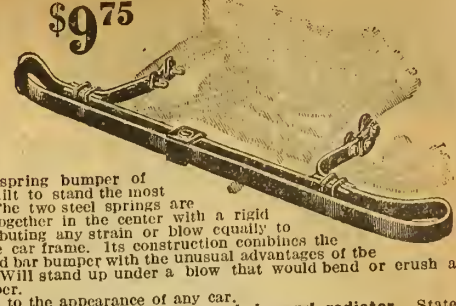


Hand Operated Gasoline Saver \$1.90

Has priming cup to aid in cold weather starting. Attached in manifold. Gas saver is operated by flexible shaft from the mixer to control lever on steering post. Gives your motor a better mixture quicker pickup. Can be used as a carbon remover by allowing small quantity of water to be drawn into the manifold through the priming cup. 1/2 inch pipe thread. Nickel plated. Ship. wt., 4 oz.

61C2150—Price, each \$1.90

New Double Bar Spring Bumpers \$9.75



A double bar spring bumper of tempered steel built to stand the most severe abuse. The two steel springs are solidly fastened together in the center with a rigid brace thus distributing any strain or blow equally to both sides of the car frame. Its construction combines the rigidity of the solid bar bumper with the unusual advantages of the spring bar type. Will stand up under a blow that would bend or crush a channel bar bumper.

Light and adds to the appearance of any car. Suitable for all autos where frame extends beyond radiator. State name, model and year of your car. Ship. wt., complete, about 32 lbs.

Art. No.	Price
61C3469—Spring Bumper, Black finish	\$9.75
61C3470—Spring Bumper, Nickel finish	11.65
61C3479—Fits Chevrolet 490, 1917-18-19, Black finish	11.65
61C3480—Fits Chevrolet 490, 1917-18-19, Nickel finish	11.65
61C3485—Fits Chevrolet 490, 1920, Black finish	11.65
61C3486—Fits Chevrolet 490, 1920, Nickel finish	11.65
61C3469—Fits Dodge 1917-18-19, Black finish	9.75
61C3470—Fits Dodge 1917-18-19, Nickel finish	11.65
61C3471—Fits Dodge 1920, Black finish	9.75
61C3482—Fits Dodge 1920, Nickel finish	11.65

Rear Bumpers
 State plainly he make, model and year of your car, whether fitted with a rear tire carrier and whether one or two tires are carried. We can furnish rear bumpers for a large number of cars complete with all necessary fitting. Finished in black or nickel. Ship. wt., 32 lbs.

261C3483—Black Finish	\$11.65
261C3484—Nickel Finish	13.65

Rear Bumpers shipped from factory in Southern Michigan.



Worko Carbon Remover

Insert two Worko Tablets into each cylinder, replace the plugs, start the motor, run it slowly for a moment, get in your car and ride. No acid or chemical to pit or injure your engine in the slightest. Worko leaves your cylinders clean. Ship. wt., 3 oz. and 1 lb.

61C9176—Small, \$0.85
 size, 24 Tablets
 61C9177—Large, size, 72 Tablets, \$1.75



Mormiles Tablets

They give you more miles per gallon of gasoline than ever before and reduce carbon. Gas treated with Mormiles Tablets will show a wonderful improvement in your motor both in power and speed. Mormiles keeps your spark plugs clean, by utilizing all the available gas. Positively harmless. Contain no acid or chemical to injure your motor in the slightest. Do not interfere with lubrication. Box contains 100 tablets which will treat 100 gallons. Ship. wt., about 5 oz.

61C9185—Price, per box of 100, 85c

Johnson's Carbon Remover

Just put a few drops in the spark plug holes — no scraping — pulverized refuse blown out through exhaust. Absolutely harmless and guaranteed not to injure any part of the motor. Ship. wt., 1 1/2 and 2 1/2 lbs.

61C9181—1/2 pt. \$0.68
 61C9182—1 pt. 1.12
 61C9183—1 Quart \$1.80
 Size

Carbon Remover

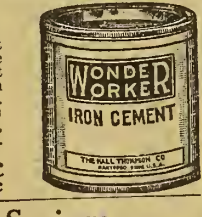
Simply pour a little of this carbon remover in a priming cup or through spark plug hole then run the engine. Carbon deposits blown out through exhaust. No scraping, no tearing motor apart. Quick acting but harmless. Effectively, reliable, low priced. Ship. wt., 1 1/2, 2, and 2 1/2 lbs.

61C9327—One half-pint size can \$30c
 61C9328—One-pint size can \$45c
 61C9329—One quart size can \$75c

Iron Cement \$3.35

A metallic chemical iron cement that withstands heat, oils, grease and steam. When once hard it becomes a metallic surface which contracts or expands like iron. Used extensively in repairing cracks, blow holes, defective cylinders, jackets, radiators, etc. Ship. wt., 1/2 and 1 1/2 pounds.

61C9206—Large size, \$5.8c
 61C9230—Small size, \$3.35



Johnson's Radiator Cement

Johnson's products have become famous among auto owners. This cement is one of their best known products. It is in liquid form and will in no way interfere with the regular water circulation nor injure metal or rubber connections. Furnished in two sizes. The pint size is for large cars and the 1/2 pint size for Fords. Ship. wts., 1 and 1 1/2 lbs.

61C9329—1/2 pint size for Fords \$0.68
 61C9330—1 pint size for large cars \$1.12

Radiator Cements

Radiator Cement
 Through low in price, does its work well. It will repair water leaks in automobile radiators, gaskets and hose connections. Also valuable in repairing leaks in steam boilers, hot water heating, steam radiators, and in fact, all kinds of pipe connections. May be used in alcohol, glycerine and anti-freezing solutions. Does not harden the water. Ship. wt., 1 1/2 and 1 3/4 lbs.

61C9323—1/2-pint size, 35c
 61C9209—Pint size, 65c

Neverleak Radiator Cement 42c

This cement is a favorite with thousands of users and will give entirely satisfactory results. In liquid form. Our prices are low, so you will save both in the purchase price and about 5 oz. and 10 oz.

61C9325—Small size \$42c for Fords
 61C9326—Large size for big cars \$63c

Automobile Springs \$3.35 and Up

Every spring is fully guaranteed for a year against breaking or sagging and will match your other spring. A spring 36x1 1/4 means that the spring measures 36 inches between centers of eyes and that the width is 1 1/4 inches. Some springs have one more or one less leaf than original spring. Measurements shown are when on car. For more complete line of springs write for our free Auto Supply Book. Order by article number only.

Style A—Semi-elliptic. Style D—Full elliptic. Cant-Cantilever.

Article Number	Car and Model	Style and Location	Size Inches	Shp. Wt. lbs.	Price Each
Briscoe					
61C6000	4-24, 1917-18-19	D-Front	31 x 1 1/4	26	\$6.45
61C6001	4-24, 1917-18-19	D-Rear	34 x 1 1/4	38	8.15
Chevrolet					
61C6096	490-1917-18	1/2 Elliptic Front	21 1/2 x 1 1/4	15	4.65
61C6097	490-1916-17-18	Cantilever-Rear	30 1/2 x 2	28	6.65
Dodge					
61C6098	All Models	A-Front	36 x 1 1/4	30	4.65
61C6099	All Models	A-Rear	43 x 2	20	6.35
Dort					
61C6101	1917-18-19-20	A-Front	37 x 2	23	5.35
Maxwell					
61C6166	25-1913 to 1919	A-Front	32 x 1 1/4	18	3.95
61C6167	25-1913-14-15-16	A-Rear	40 x 1 1/4	22	5.25
61C6168	25-1917	A-Rear	45 x 1 1/4	27	6.05
61C6293	25-4, 1918-19	A-Front	32 1/2 x 1 1/4	18	4.15
Overland					
61C6229	75-1916, 77-B-1917	A-Front	38 x 1 1/4	26	4.85
61C6230	75-1916, 75-B-1917	A-Rear	44 x 2	35	7.85
61C6297	90-1917-18-19	A-Front	36 1/2 x 1 1/4	26	5.15
Saxon					
61C6252	4 cyl., 1915-16-17	Cant. Front	21 x 1 1/2	13	3.35
61C6253	4 cyl., 1915-16-17	Cant. Rear	22 x 1 1/2	13	3.35
Studebaker					
61C6303	6 cyl., 1916-17-18, EH, EG-1919	A-Front	33 1/2 x 2	26	6.65

Radiator Drain Cock

High grade. Finished in brass. Reliable spring tension which holds it at desired position. Machined accurately. Shipping weight, 3 ounces.

61C9270—Size, 1/2-in. Pipe Threads \$30c
 61C9271—Size, 3/4-in. Pipe Threads \$35c



Quick Feed Spring Oilers

Two ollers needed for each semi-elliptic spring. Oil feeds between leaves while you ride. To oil, simply pull back cap and saturate absorbent material inside. No jacking up the car to pry the leaves apart. One size for all cars. Ship. wt., 5 oz.

61C9816—Oiler, each \$20c shown, each

Liquid Radiator Cement 45c

A new radiator cement in liquid form. It stops even good sized leaks and works in any weather, almost instantly. Never clogs circulation system. One can is usually enough to stop ordinary radiator leaks. Ship. wt., 12 oz.

61C9207—1/2-pint size \$45c can

Spring Leaf Spreader

Opens the leaves so graphite and grease can be put in between the leaves. Fits all standard made springs. Drop forged, polished with gun metal finish. Ship. wt., 1 1/2 lbs.

61C9820—Price, each \$1.30



32c
Each

Hot Spark Intensifiers

Make Old Spark Plugs Fire Like New

They often save their price several times over in helping to locate ignition troubles. Just raise the hood and watch the sparks in the glass cylinders. Hundreds of tests have proven that this wonderful little device with its adjustable gap actually makes spark plugs which are ruzzling and would not fire at the points on account of soot, carbon or similar troubles fire every time just like they did when new. They strengthen the spark so it burns right through carbon. Hot Spark Intensifiers save lots of spark plug money. Plug not included. Ship. wt., each, 2 oz.

61C7116—Price, each..... \$0.32
61C7117—Price, set of four..... 1.25
61C7118—Price, set of six..... 1.85

Splittorf Spark Plug

One of the most dependable, sure firing plugs on the market. The core is of Mica protected by a porcelain sleeve. The plug gives a very hot spark, positively will not leak compression, and is practically unbreakable. Ship. wt., about 6 oz.

61C9023—1/2-in. Regular size. Each..... 85c
61C9024—3/4-in. A.L.A.M. size. Each..... 85c
61C9079—Special for Ford. Each..... 85c



85c

Spark Plugs and other Engine Supplies



AC Cico

57c



AC Cico

57c



AC Titan

74c



AC Titan

74c

A Spark Plug of famous A-C construction. It is well made with a strong porcelain which will not crack under ordinary use. Selected firing points. Ship. wt., each, 4 oz.

61C9005—1/2-in. Ea. 57c
61C9006—3/4-in. Ea. 57c
61C9008—For Fords. Each 57c
61C9009—For Dodge. Each 57c
61C9010—For Saxon. Each 57c

This plug is constructed with a real long shank, particularly suited to the requirements of cars named below. Ship. wt., each, 5 oz.

61C9030—3/4-in. Extension. Regular equipment on Chevrolet 490, 1917-18; All Buick cars up to 1919..... 57c
61C9026—3/4-in. Extension. Regular equipment on all Reo cars and trucks up to 1919. For all Overlands up to 1914..... 57c

Used as standard factory equipment on such cars as the Cadillac, Stutz, Chalmers, Scripps-Booth and many others. It is well made with tough porcelain that resists intense heat. Average ship. wt., 5 oz.

61C9003—1/2-in. size..... 74c
61C9004—3/4-in. size, A.L.A.M. size..... 74c
61C9028—Dodge Special, 3/4-in. Regular equipment on all 1919 and 1920 Dodge cars. Each..... 74c

The motors on Buicks, Chevrolts and Reos are so designed that they require an extension type plug. This spark plug is made with a view of giving the best possible results in these motors. Ship. wt., 6 oz.

61C9025—3/4-in. extension type. Regular equipment on Buick, Chevrolet 490, 1919-20..... 74c
61C9036—3/4-in. Extension type, for all Reo cars and trucks, 1919-20..... 74c

Guaranteed Riverside Giant Spark Plugs

A great big, powerful, sturdy plug, guaranteed to last as long as the motor. Shells turned from solid bar hexagon steel, scientifically treated and copper plated. The big heavy porcelain is especially selected. Electrode and sparking points made of high resistance, specially treated nickel steel alloy. Will not burn out at points.

A heavy shoulder or ledge on the porcelain sets upon a copper gasket in the shell, which in turn is held down and made tight by an adjustable locking ring. Terminal takes either the regular open end or slip-on connection. Each plug is put up in a neat tin box. Ship. wt., 6 oz.

61C9015—1/2-inch size. 75c
61C9016—3/4 or A. L. A. M. size..... 75c



A. C. Titan Spark Plug

Has a smaller hexagon shoulder than regular Titan, so it fits deeper into the spark plug hole. Ship. wt., 5 oz.

61C9032—3/4 in. long. Regular equipment on Oakland 34-B, Oldsmobile, 6 cyl., Premier, and all Nash up to 1919..... 74c
61C9034—3/4 in. extra long. Regular equipment on all Nash 1919-20..... 74c



74c

Speedway Long Distance Spark Plug

It gives a hot, fat spark so necessary for complete combustion. Porcelains especially annealed to prevent undue brittleness. An inexpensive spark plug that will give very good satisfaction. Ship. wt., 4 oz.

61C9070—Standard 40c
61C9071—3/4 or A.L.A.M. size..... 40c



40c

Champion X

This plug is the same as the Champion X's that were in your Ford when you came from the factory. It has been used as standard equipment on all Fords for years. Also suitable for other cars using a 1/2-in. standard pipe thread plug. Ship. wt., 4 oz.

61C2114—Complete 74c
61C2115—Porcelains only 40c



74c

Challenge Priming Plug

A few drops of gasoline, or cold weather engine starter poured into the pet-cocker of the plug and your motor starts on the first turn in cold weather. Gasoline is carried directly to the sparking point. Fitted with special high test porcelain. Ship. wt., 8 oz.

61C9019—Standard 1/2-inch size..... \$1.20
61C9021—3/4-inch..... 1.20

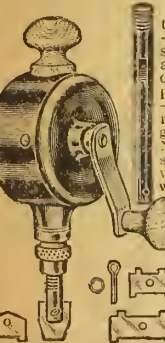


\$1.20

Quick Action Valve Grinder

Saves half the time. Always laps—doesn't stop at same spot. Handle always turns in one direction. Makes a perfect smooth seat—leaves no ridges or ridges. In a sure good compression. No rocking—no stopping to lift valve. The valve always moves a little further in one direction than in the other. Made of malleable iron and steel. Three fittings with five ends for all valves. Ship. wt., 4 1/2 lbs. Outfit complete.

61C9301—Price of Outfit..... \$3.85



\$3.85

E. Z. Valve Grinder

For grinding in valves of all descriptions having flat or tapered seats. Grinds valves quickly. Simply hold top part of grinder with left hand, and work grinder handle up and down. Length, folded, 17 inches. Ship. wt., 2 1/2 lbs.

61C9318—Each..... \$1.65

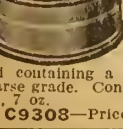


\$1.65

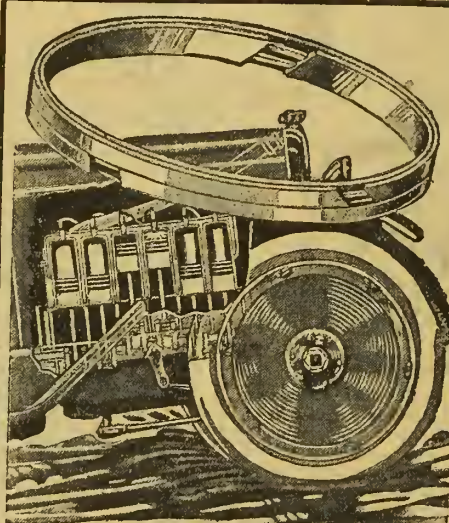
Valve Grinding Compound

Fast cutting. It leaves no mark or ring on the valve or seat. Put up in a double end box, one end containing a fine and the other a coarse grade. Contents, 4 ounces. Ship. wt., 7 oz.

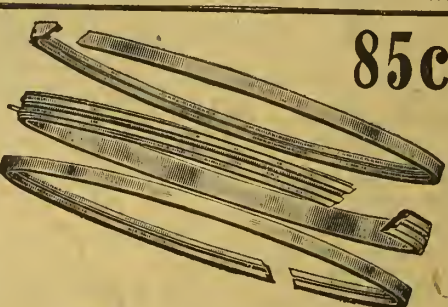
61C9308—Price..... 25c



25c



All Sizes 85c Each



Nu-Power Three-Piece Piston Rings

More Power
Save Oil—Save Gasoline

We have made tests with several leading piston rings and have found the three-piece ring shown above to be exceptionally reliable under the most trying conditions. This is an excellently constructed piston ring. Motors which failed to pick up quickly—that stalled on real hard pulls—that used far too much gasoline and oil for their size have been brought back into condition when fitted with Nu Power Piston Rings.

Nu Power Piston Rings eliminate a whole lot of repair work, due to their three-piece construction. They fit tightly all the way around, perfectly sealing the compression preventing leakage. Besides giving more power—more speed—greater flexibility—quicker pick-up—Nu Power Piston Rings greatly aid in doing away with oil sooted plugs and excessive carbon deposits due to oil leakage. Furnished in sizes listed only. Av. ship. wt., 6 oz.

Price, each..... 85c

When ordering Piston Rings, give name, year and model of car, and state whether pistons are oversize or regular.

Article Number	Size Inches	Article Number	Size Inches	Article Number	Size Inches
61C9491	2 5/8 x 3/16	61C9467	3 1/2 x 3/16	61C9476	3 1/2 x 1/4
61C9460	2 3/4 x 3/16	61C9468	3 5/8 x 3/16	61C9477	3 3/4 x 1/4
61C9461	2 3/8 x 3/16	61C9495	3 5/8 x 1/4	61C9478	4 x 1/4
61C9462	2 7/8 x 3/16	61C9469	3 1/2 x 3/16	61C9480	4 1/4 x 1/4
61C9463	3 x 3/16	61C9493	3 3/4 x 3/16	61C9497	4 1/2 x 3/16
61C9464	3 1/8 x 3/16	61C9470	3 3/4 x 3/16	61C9481	4 1/2 x 1/4
61C9465	3 1/4 x 3/16	61C9471	3 7/8 x 3/16	61C9482	4 3/4 x 1/4
61C9492	3 1/4 x 1/4	61C9496	3 7/8 x 3/8	61C9485	4 x 3/16
61C9494	3 3/8 x 3/8	61C9472	4 x 3/8	61C9490	4 1/8 x 3/8
61C9466	3 3/8 x 3/16	61C9473	4 1/8 x 3/16		



Castellated Nuts

An assortment of 15—Turned from bar, case hardened. S. A. E. assortment. High grade. Assortment varies in size from 1/2 inch to 3/4 inch. Ship. wt., 11 oz.

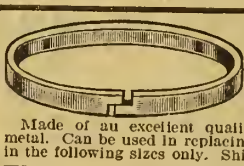
61C9103—Price..... 45c



Valve Lifter 42c

A perfect valve remover, made on new principle. Can be used on nearly all makes of cars. Will save you skinned knuckles. The ratchet holds it in last position, requiring no holding while removing valve pin. Simply constructed, nut can be adjusted instantly with one hand. Enamelled black. Length, 11 in. Shipping weight, 1 1/2 lbs.

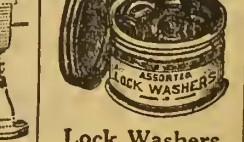
61C2556—Price, each..... 42c



Piston Rings Standard Step Cut

Made of an excellent quality, very tough and springy metal. Can be used in replacing any style rings. Furnished in the following sizes only. Ship. wt., each, 8 oz.

Price, each, for above sizes..... 16c



Lock Washers

A full assortment of 39 steel lock washers. Size of hole, from 1/4 to 3/4 inch. Strong cartons. Ship. wt., 8 oz.

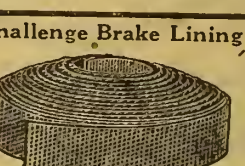
61C9115—Price..... 14c



Cotter Pins

Put up in paper canisters, containing about 100 spring steel cotter pins, in assorted lengths and thicknesses most commonly used. Ship. wt., 6 oz.

61C9104—Price..... 11c



Challenge Brake Lining

Challenge lining is made of a fine staple, fibrous asbestos yarn, closely interwoven with brass wire and cotton. It will not char or burn from friction heat nor does it soften or become hard. This lining is heatproof, dustproof, oilproof and waterproof. Av. ship. wt., per ft., about 6 oz.

Article Number	Price per Ft.	Width Inches	Thickness, In.
61C9406	24c	1 1/2	1/8
61C9407	28c	1 1/2	1/8
61C9408	30c	1 1/2	5/32
61C9449	38c	1 1/2	5/32
61C9450	42c	1 1/2	5/32
61C9451	35c	1 1/2	3/16
61C9409	44c	1 1/2	3/16
61C9410	48c	2	3/16
61C9411	56c	2 1/2	3/16
61C9412	62c	2 1/2	3/16
61C9413	72c	3	3/16

Brass Split Rivets

These rivets are especially for brake lining. The split makes them exceptionally easy to clinch. Sizes for Fords, 3/4 inch, and 1/2 inch. One hundred in box. Shipping wt., about 6 ounces.

Article Number	Price	Length Inches
61C9416	40c	5/16
61C9417	42c	3/8
61C9418	44c	1/2
61C9419	46c	5/8
61C9420	53c	3/4

A. C. Carbon Proof

Carbon proof porcelain is provided with a number of ribs having saw tooth edges which retain a sufficiently high degree of heat to burn away the carbon, keeping the edges free from deposits, thus breaking up any possible short circuit. The insulator is made of porcelain which heat will not crack. Ship. wt., 5 oz.

61C9080—1/2-inch size..... 74c

Champion Regular

A standard, well-known plug, of high grade construction. The regular 1/2 inch, 3/4 inch and Maxwell Special can be supplied. Ship. wt., 4 oz.

61C9038—1/2 inch. Each..... 85c
61C9039—3/4 inch. Each..... 85c
61C9042—3/4 inch. Factory equipment on all Maxwell Cars..... 85c

Spark Plug Cleaner

A simple, handy device for cleaning all size spark plugs. Simply fill the tube with gasoline, screw spark plug into special socket and shake. The needles in the tube are dashed against the carbon, which has been softened by the gasoline, and pick it off in small particles. Plug is cleaned thoroughly in one minute—without even soiling the hands. No more scraping with knife. Clean your plugs! Avoid short circuiting and fouling. Ship. wt., 10 oz.

61C9085—Price each..... 65c

Spark Plug Wrench

Very handy and strongly made of malleable iron with black enamel finish. Fits all standard make spark plugs, eliminating necessity of fussing with wrench adjustments. 4 openings. Ship. wt., 6 oz.

61C9065—Price..... 29c

Cylinder Head Caskets

Coppered metal and asbestos. Ship. wt., about 10 to 14 ounces.

61C9912—Dodge..... \$0.70
61C9913—Maxwell 1916-19..... .65
61C9914—Chevrolet 490, and 90..... .52
61C9915—Overland 75 and 90..... .95
61C9916—Overland 83 and 85..... 1.45
61C9961—Saxon 6..... .35
61C9963—Oldsmobile 45-48, 18-19..... .78
61C9964—Oakland 32, 34, 34B 1917, 18-19..... .95
61C9965—Briscoe 1918-19..... .35
61C9966—Studebaker 6 cyl., '18-19..... 1.20
61C9967—Hudson Super Six, '18-19..... 1.10

Bearing Scrapers

Well made of forged steel, with carefully ground edges. Curved in the proper shape to insure effective work. Three standard sizes in set. Ship. wt., 1 1/2 lbs.

61C9171—Per set of 3..... 95c

Prussian Blue

Used when fitting bearings, valves, connections, etc., so as to locate high spots. A necessity. Manufactured especially for auto use. Ship. wt., 2 oz.

61C9134—Price, each..... 19c

See Tractor Supplies, Page 900

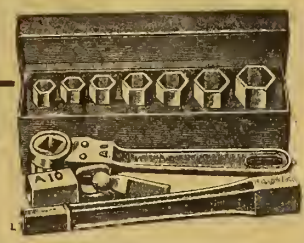
Wrench Sets and Grease Guns \$1380



\$785

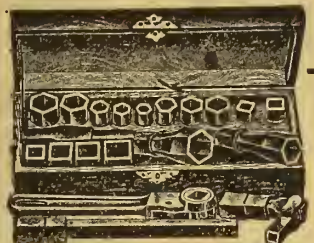
Master Tool Kit

Excellent 22-piece outfit. Each tool is finely constructed of high grade material. The heavy canvas case can be held into a convenient size for your tool box. Set consists of one 9-inch adjustable wrench; one machinist's ball peen hammer; one 3-inch blade screwdriver; one 5-inch blade screwdriver; one 9 1/2-inch all steel screwdriver; one 8-inch file; one 8-inch round file; one 10-inch pipe wrench; one 10 1/2 inch offset screwdriver; one 5-inch offset screwdriver; four double end wrenches, opening sizes, 1 1/2 and 2, and 1 3/4, 1 1/2 and 2 1/4, 2 1/2 and 3, and 3 1/2 and 4; one cotter pin extractor; one 3/4-inch punch; one 3/8-inch chisel; one pair 6-inch pliers; one spark plug wrench; one box sorted cotter pins; and heavy canvas tool roll. Ship. wt. 12 lbs. 61C9743—Price, complete outfit.....\$7.85



Service Socket Wrench Sets

Here is a set that will save car owners many minutes in reaching out of the way nuts and bolts. Particularly desirable for Dodge and Ford cars. For removing the cylinder head or bottom of the crank case this set will save all the trouble of constantly taking the wrench off the bolts to get a new hold. Best quality malleable iron. Finished in black enamel. Outfit consists of the following: One 9-inch ratchet wrench; one extension socket; one universal joint for tight places and includes the following 7 sizes in hexagon sockets: 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4 and 3 1/2 inch. Ship. wt. 4 1/2 lbs. 61C9762—Price, complete set.....\$2.90



Challenge Wrench Set

Made of finest grade malleable iron. All parts carefully bored to fit together accurately. Sockets are held in handle by tension spring, which prevents dropping out when in use. Set consists of 14 sockets, fitting most all sizes of bolts, nuts, sets, lug screws, etc., knuckle joint and extension (enabling one to reach into cramped, difficult places at any angle, and retain the socket); screw driver, hexagon and square sockets and two standard size spark plug sockets. When used as T or L wrench, ratchet works in either direction. Ship. wt. 8 1/2 lbs. 61C9751—Price, per set.....\$5.30



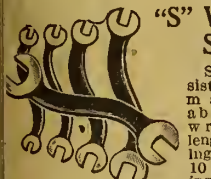
Master Socket Wrench Set

This is the set for the boss mechanic or critical auto owner who insists on having the best—who demands that every nut or bolt must be properly tightened. Hard to reach connecting rod nuts, brake band and clutch adjustments are easily handled. The Master Set contains one nicked folding ratchet handle; one 7-inch, drop forged pipe wrench; 1 pair pliers; five flat wrenches (10 openings); one cotter pin extractor; one folding screw driver; one universal joint; one long extension rod; one short extension rod; one offset socket wrench handle, one spark plug socket, 2 3/4 x 3 1/4 inches long. 38 Guaranteed Pressed Steel Sockets as shown in illustration. Ship. wt., 15 lbs. 61C9753—Price, complete set.....\$13.80



Handy Tool Kit

Here is a group of tools of which you need every article. Set consists of three double end wrenches with following openings, 1 1/2 and 2, 2 1/4 and 3, and 3 1/2 and 4; one 8-oz. machinist's ball peen hammer; one 9-in. adjustable auto wrench; one 6-in. combination plier; one 5-in. blade screwdriver; one 3/4-in. punch; one 3/8-in. chisel, all enclosed in canvas tool case. Ship. wt., about 5 lbs. 61C9738—Price, complete outfit.....\$2.45



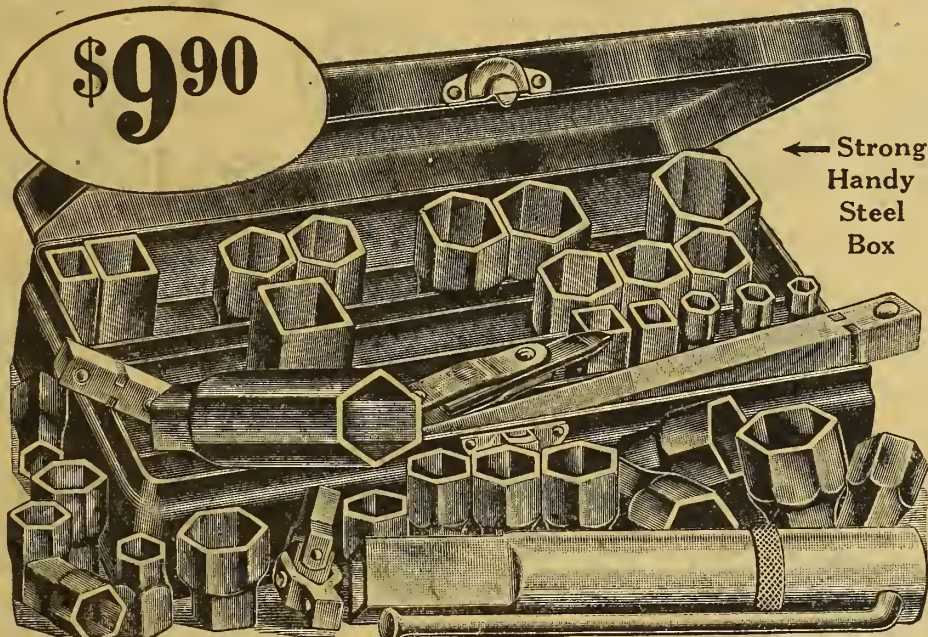
"S" Wrench Set

Set consists of five malleable iron wrenches, lengths varying from 6 to 10 in. Openings are for standard nuts and cap screws as follows: 1/2, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8 and 1 in. Ship. wt., about 3 lbs. 61C2450—Price per set.....95c



Fan Belts For Popular Cars

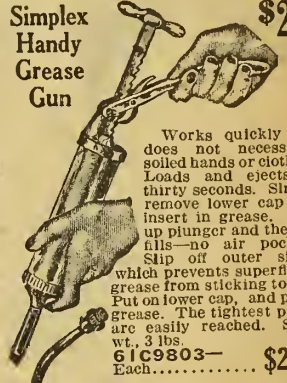
Made of high test breaking strength treated cotton fabric with a special preparation making it impervious to oil and water. Folded and stitched. Ship. wt., 4 oz. 61C9917—Buick, 1912 to 16 40c
61C9918—Buick, D-45, 1916-17 40c
61C9919—Buick, C and D-54-55 40c
61C9920—Chevrolet 490, '15-'16, '17 35c
61C9921—Chevrolet, Baby Grand, '15, '16 45c
61C9922—Dodge, 1915-16 40c
61C9923—Dodge, 1917-18-19-20 40c
61C9954—Maxwell, 1915 75c
61C9955—Maxwell, 1916-17-75c
61C9956—Maxwell, 1918-1935c



\$9.90

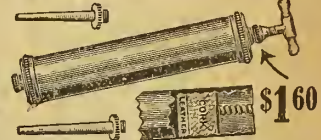
De Luxe Socket Wrench Set

Will fit practically every nut or bolt on any car, and will reach any place on the car, no matter how difficult of access. The nickel-plated, highly polished hard steel handle is practically noiseless in operation, and will never require repairs. Has a right and left hand movement device, giving a positive grip in either direction. Outfit, besides the socket wrench, consists of an assortment of 30 case-hardened, cold drawn, pressed-steel sockets ranging in size from 3/16 to 1 3/8 inches; one combination double-end screw driver bit (large and small ends); a universal joint (permitting the use of the wrench at any angle up to 90 degrees); one long, one short extension bar, the long bar permitting wrench to reach into engine or crank cases; also a long socket for removing spark plug. Put up in a neat, substantial steel box, with cover. Ship. wt., 10 lbs. 61C9752—Complete set.....\$9.90



Simplex Handy Grease Gun \$240

Works quickly and does not necessitate soiled hands or clothing. Loads and ejects in thirty seconds. Simply remove lower cap and insert in grease. Pull up plunger and the gun fills—no air pockets. Slip off outer sleeve which prevents superfluous grease from sticking to gun. Put on lower cap, and pump grease. The tightest places are easily reached. Ship. wt., 3 lbs. 61C9803—Each.....\$2.40



Double Action Grease Gun \$160

A locking thread nut gives two actions—that of the screw-down type gun for heavy oils and greases—and the push and pull plunger type for light oils. Substantial, heavy gauge tubing. Length of barrel, about 8 1/2 in.; diam., about 1 1/2 in. Two nozzles—one for heavy oils and greases, the other for light oils. The plunger is of leather and cork design. Ship. wt., 2 lbs. 61C9801—Price, each.....\$1.60



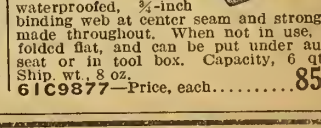
Grease and Oil Gun \$48c

Two nozzles. The end of gun is threaded to fit the Ford differential. Constructed of extra heavy metal tubing, 1 1/4 x 9 in. Capacity, 6 oz. Finished in brush brass. Ship. wt., 12 oz. 61C9817—Each.....48c



Swing Spout Oil Measure \$1.95

An oil measure and funnel combined. Place the nozzle in the filler hole, lift the can and the oil flows out. Valve will not release oil until spout is fully opened. Made of heavy gauge sheet metal copper plated. Two sizes. Ship. wts., 1 1/2 and 2 1/2 lbs. 61C9882—Qt. size. Price, ea \$1.95
61C9883—2 qt. size. Price, ea 2.35



Funnel Measures Combined funnel and measure. Very handy. One-pt. and one-qt. size. Ship. wts., about 1 1/2 and 2 lbs. 61C9867—40c
61C9868—55c
Quart size.....55c



Pressed Steel Hexagon and Square Sockets Each 15c

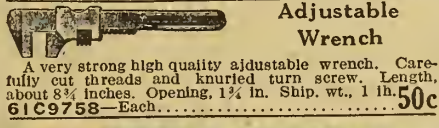
We furnish a complete line of hexagon and square sockets in the following sizes. Be sure to mention number and size. Ship. wt., 6 to 10 lbs. Price, each, any size.....15c

Hexagon Sockets		Square Sockets	
Art. No.	Size, In.	Art. No.	Size, In.
61C9764	5/16	61C9778	3/4
61C9765	1/8	61C9779	7/8
61C9766	3/8	61C9780	1 1/8
61C9767	1/2	61C9781	1 1/4
61C9768	5/8	61C9782	1 1/2
61C9769	3/4	61C9783	1 3/4
61C9770	7/8	61C9784	1 7/8
61C9771	1	61C9785	2
61C9772	1 1/8	61C9786	2 1/8
61C9773	1 1/4	61C9787	2 1/4
61C9774	1 1/2	61C9788	2 1/2
61C9775	1 3/4	61C9789	2 3/4
61C9776	1 7/8	61C9790	3
61C9777	2		



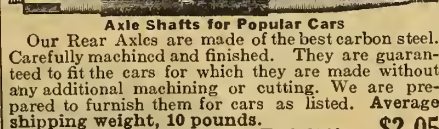
Special Auto Stillson Wrench

Designed especially for auto use. Fine teeth will not mar finished surfaces. Holds round, hex or square parts. Ship. wt., 1 1/2 to 1 3/4 lbs. 61C9740—6 in. Opening up to 1/2 in.....\$1.50
61C9741—8 in. Opening up to 3/4 in.....1.65
61C9742—10 in. Opening up to 1 1/4 in.....1.85



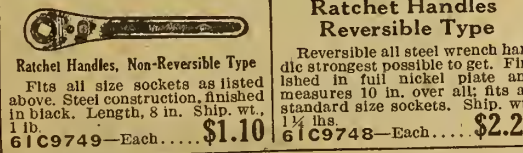
Adjustable Wrench

A very strong high quality adjustable wrench. Carefully cut threads and knurled turn screw. Length, about 8 1/2 inches. Opening, 1 1/4 in. Ship. wt., 1 lb. 61C9758—Each.....50c



Axle Shafts for Popular Cars

Our Rear Axles are made of the best carbon steel. Carefully machined and finished. They are guaranteed to fit the cars for which they are made without any additional machining or cutting. We are prepared to furnish them for cars as listed. Average shipping weight, 10 pounds. 61C9903—Chevrolet 490, Each half \$2.05
61C9904—Chevrolet Baby Grand, 1918-19-20 Each half.....\$4.15
61C9905—Maxwell-25-Right, 1914 to 1919. Price each.....\$2.15
61C9906—Maxwell-25-Left, 1914 to 1919. Price, each.....\$2.15
61C9907—Dodge, Each half.....2.45
61C9957—Overland-75, 90 Country Club, Right, Price, each.....\$3.65
61C9958—Overland-75, 90 Country Club, Left, Price, each.....\$3.65
61C9959—Overland-90-Right, Price each 3.65
61C9960—Overland-90-Left, Price, each, 3.65
We can furnish axles for cars not listed above. Write for special quotation; mention make, model, and year of car.



Ratchet Handles Reversible Type

Reversible all steel wrench handle strongest possible to get. Finished in full nickel plate and measures 10 in. over all; fits all standard size sockets. Ship. wt., 1 1/2 lbs. 61C9748—Each.....\$2.25



Cochran Speed Wrench

Self adjusting. Moving handle locks jaws. No fussing with adjustments. A time saver. Holds tight. Fits all nuts from 3/4 to 1 1/4 in. Ship. wt., about 1 1/2 lbs. 61C9745—Price, each.....\$1.39

Radiator Hose

Made of good rubber and fabric. Expressly for radiator purposes. Will furnish any number of feet desired. Average weight, foot, 1 pound.

Number	Inside Size	Price, Foot
61C9214	1 inch	31c
61C9215	1 1/4 inches	38c
61C9216	1 1/2 inches	40c
61C9217	1 3/4 inches	47c
61C9218	2 inches	52c
61C9219	2 1/4 inches	57c
61C9220	2 1/2 inches	60c

Adjustable Hose Clamp

Here's a brand new patented hose clamp made of galvanized steel that fits different size hose and also takes care of variations in the thickness. Just clamp slotted part over catch of the nearest size and tighten bolt. Ship. wt., about 3 oz. each.

Article Number	For Hose with Inside Diameter	Price Each
61C9198	3/4 to 1 1/4 in.	6c
61C9199	1 1/4 to 2 1/4 in.	7c
61C9200	2 1/4 to 3 1/4 in.	8c

De Luxe Powerful Storage Batteries

Guaranteed One Year—Shipped Fully Charged

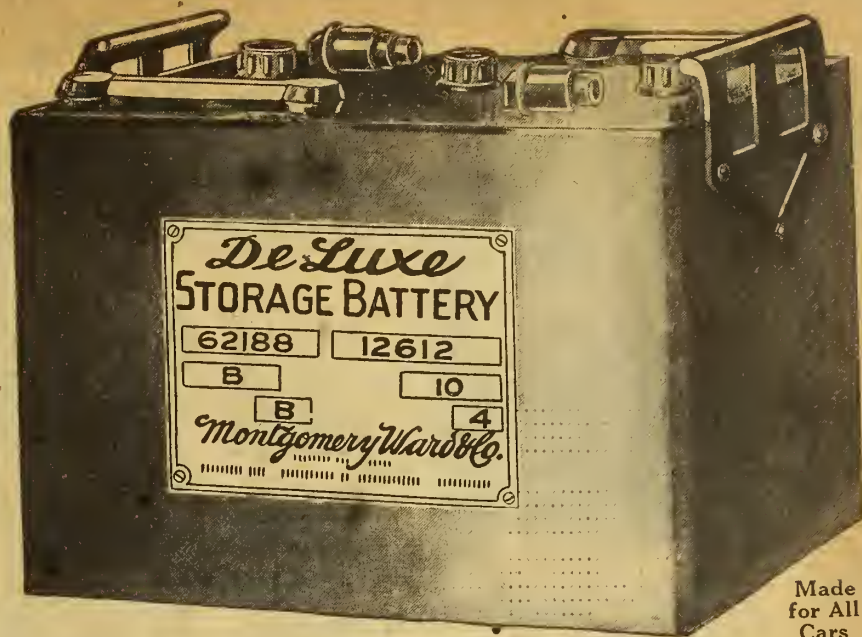
Our new Powerful De Luxe Storage Batteries are the result of many years' experience, gained by experimenting, studying and watching the workings of not only thousands of our own batteries but other makes as well. We realize the extreme conditions to which the average auto battery is subjected and have endeavored to build the De Luxe so strong that it will give you many months of service in excess of our guarantee.

CUSTOMERS TELL US **SAVE \$10 TO \$20**
DE LUXE PRICES

De Luxe Batteries have been on the market for several years and have given such complete satisfaction that our sales have grown tremendously. We know batteries thoroughly, and have given you the De Luxe an exceedingly high quality, reliable battery that will please you so well that you will be all the more convinced of our ability to save you money on articles of superior construction. It would be absolutely impossible for us to sell you the powerful De Luxe Batteries at the prices shown below by any other method or plan you know of. Our business has been built up by saving people money. If you will compare our battery prices with those of any other battery fully covered by a guarantee against defects you will see how startling is the difference in cost. For over 7 years we have absolutely made good with our customers and the faithful, earnest promises made on other merchandise sold good on De Luxe Batteries.

De Luxe plates consist of scientifically correct compounds held securely by rectangular shaped grids which form a structure similar to the framework in a modern steel truss constructed building. This exposes the greatest amount of active materials to the acid solution which means longer life to the plate and greater discharge capacity for starting when the motor is cold. The separators are specially selected, thoroughly treated and cured so they allow the current to flow freely, yet give complete insulation preventing short circuits.

The jars are made of the finest grade hard rubber and each one is electrically tested under high voltage, so there is no possibility of an imperfect jar which will leak current being used in a De Luxe Battery. A heavy hard rubber cover with a shoulder designed to fasten securely to the jars, prevents the acid solution from seeping through the cover or around the terminal post, thus eliminating corrosion and its troubles.



Made for All Cars

Every De Luxe Battery is given a thorough final inspection just before shipping. Very great care is taken in crating and packing so the battery will reach you in perfect condition. Each De Luxe Battery is designed to fit exactly in the space provided by the car manufacturer and is equipped with solidly attached handles that will hold securely regardless of the method used for clamping in the battery. De Luxe Batteries are made for any make car. Average shipping weight, 60 lbs.

\$24.00

and up

If your car is not shown here, write and we will quote prices. Specify name of car, year, model and name of starting system. Also give voltage, length, width and height of old battery.

De Luxe Starting, Lighting and Ignition Battery Prices

Unless Otherwise Specified, all Batteries Listed Below are 6 Volt.

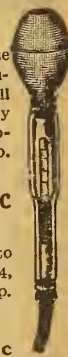
De Luxe Starting Batteries are shipped from factory in Chicago, Ill. A large stock constantly on hand for popular cars. On orders for other cars we usually require three to ten days' time to make up.

Article Number	Name of Car	Year	This Battery Will Fit Models	Price
261C3977	Auburn	1916	6-40 A, 6-44	\$29.20
261C3978	Auburn	1916-17-18	4-38, 6-38, 6-39, 6-39, B, 6-39 Sport	25.75
261C3979	Auburn	1917	6-44	29.20
261C3940	Auburn	1919	All Models	25.75
261C3911	Briscoe	1916-17	4-24	25.75
261C3912	Briscoe	1918	4-32	34.00
261C3913	Briscoe	1918-19	4-24	25.75
261C3855	Buick	1914-15	B24, B25, B55, C24, C25	25.75
261C3857	Buick	1915	C36, 37, 54, 55, 4 Truck	29.20
261C3859	Buick	1916-19	D34, 53, 4 Truck, H	25.75
261C3858	Buick	1916	D44, 45, 46, 47	25.75
261C3860	Buick	1917-18	All Models	29.20
261C3859	Buick	1919	All Models H	29.20
261C3914	Cadillac	1914 to 1920	All Models	34.00
261C3915	Case	1917-18	T & U	25.75
261C3916	Case	1918-19	U-18	29.20
261C3958	Chalmers	1914-15-16	24, 26, 26B, 29, 38, 48 (18 v.)	60.25
261C3861	Chalmers	1915-16-17-18	D44, 45, 46-30, 35C	29.20
261C3917	Chalmers	1919	All Models	29.20
261C3862	Chandler	1913-14-15	14, 15, 15B	25.75
261C3863	Chandler	1916	16	25.75
261C3864	Chandler	1917-18	All Models	25.75
261C3918	Chandler	1919	All Models	25.75
261C3959	Chevrolet	1914-15-16	L H2, H3, H4, Monroe Baby Grand Amesbury, Royal Mall	25.75
261C3960	Chevrolet	1914-15	L, H2, H4, Baby Grand, H, H2, H4, Royal Mall	29.20
261C3866	Chevrolet	1916-17	490	25.75
261C3867	Chevrolet	1917	Baby Grand F	25.75
261C3868	Chevrolet	1918	490	25.75
261C3869	Chevrolet	1918	F, R, Baby Grand	29.20
261C3870	Chevrolet	1918	D-8 Cyl.	29.20
261C3871	Chevrolet	1918	T.A, F.B, F.C, F.A.	29.20
261C3872	Chevrolet	1919	490	32.00
261C3873	Chevrolet	1919	D4, D5	32.00
261C3922	Cole	1916	4-40, 6-60, 8-50	29.20
261C3923	Cole	1917	All Models	29.20
261C3924	Cole	1918-19	All Models	34.00
261C3981	Crow Elkhart	1917-18	CE-33, CE-35, CE-36	25.75
261C3982	Crow Elkhart	1919	All Models	29.20
261C3869	Dodge	15-16-17-18-19	All Models, 12 Volt	35.00
261C3925	Dort	1916-17-18-19	5A, 9, All 18-19 Models	25.75
261C3926	Franklin	1916-17-18-19	Series 9, 12 Volt	35.00
261C3927	Haynes	1917-18	36, 37, 40, 41, 38, 44	32.00
261C3928	Haynes	1918-19	39	29.20
261C3962	Hudson	1914-15	6-54	34.00
261C3963	Hudson	1914-15	6-40	29.20
261C3964	Hudson	1916-18	6-40, Super Six	29.20
261C3965	Hudson	1917	Super Six	29.20
261C3929	Hudson	1919	H. M. O.	29.20
261C3965	Hupmobile	1914	H.A.	29.20
261C3966	Hupmobile	1915	K, 12 Volt	40.00
261C3967	Hupmobile	1915-16-17	N, L, NQ, NR, NG, NU	29.20
261C3874	Hupmobile	1918	R, RR	25.75
261C3875	Hupmobile	1919	All Models	25.75
261C3930	Hupmobile	1919	All Models	25.75
261C3874	Jeffery	1915-16	Jeffery 4, 4, 62	29.20
261C3967	Jeffery	1915-16	CH, 6	29.20
261C3968	Jeffery & Nash	1917	All Models	25.75
261C3931	Jordan	1916-17-18-19	B Series I, 60	29.20
261C3983	Lexington	1916-17-18	All Models O	25.75
261C3984	Lexington	1919	All Models	29.20

Article Number	Name of Car	Year	This Battery Will Fit Models	Price
261C3985	Liberty	1916-17-18	10A, 10B	\$25.75
261C3986	Liberty	1919	All Models	29.20
261C3932	Marmon	1915-16-17	41, 34, 12 Volt	40.00
261C3933	Marmon	1918-19	All Models	32.00
261C3876	Maxwell	1913-14	50-6	29.20
261C3877	Maxwell	1913-14	35	29.20
261C3878	Maxwell	1915	25 Gray Davis System	24.00
261C3879	Maxwell	1915-16-17	25, 12 Volt	35.00
261C3880	Maxwell	1918	25, 12 Volt	35.00
261C3934	Maxwell	1919	12 Volt	35.00
261C3881	Mitchell	1915	L, 4, L, 6, 6 of 16, 12 Volt	40.00
261C3882	Mitchell	1916	Eight	34.00
261C3883	Mitchell	1917-18	C42, 2nd Ser. 1916, C42	29.20
261C3884	Mitchell	1917-18	D40, 2nd Ser. 1916, D40	29.20
261C3935	Mitchell	1919	E40, E42	25.75
261C3936	Nash	1918-19	All Models Except Trucks	29.20
261C3885	Oakland	1915	37, 49	29.20
261C3887	Oakland	1916	38	25.75
261C3886	Oakland	1916	32	25.75
261C3888	Oakland	1916-17	50	25.75
261C3970	Oakland	1917	32	25.75
261C3890	Oakland	1918	34B	25.75
261C3937	Oakland	1919	All Models	25.75
261C3938	Oldsmobile	1916-18	43, 44, 45A	25.75
261C3939	Oldsmobile	1917	45	25.75
261C3940	Oldsmobile	1919	37	25.75
261C3893	Overland	1915-16-17-18	80, 81, 82, 83, 83B, 86, 86B, 85-4, 85-6, 88-6, 83BOE, 89-6	29.20
261C3892	Overland	1916-17-18	75, 76B, 90, 90T	25.75
261C3895	Paige Detroit	1914-17	36, K-6-17, J6-17	29.20
261C3896	Paige Detroit	1913-14-15	36, 25	29.20
261C3897	Paige Detroit	1916	6-38, 6-46	25.75
261C3972	Paige Detroit	1917-18-19	6-39, 6-40, 6-51, 6-55	29.20
261C3897	Reo	1913-14-15	R, S, M, F	29.20
261C3898	Reo	1916-17-18	R, S, M, N, F, All Models	29.20
261C3943	Reo	1919	All Models	29.20
261C3900	Saxon	1915-16	S, S2	25.75
261C3973	Saxon	1915	A	24.00
261C3899	Saxon	1915	Six	25.75
261C3901	Saxon	1917-18	54, B5, B14, All Models	25.75
261C3944	Saxon	1919	All Models	25.75
261C3974	Scrapps Booth	1915	C, 12 Volt	35.25
261C3902	Scrapps Booth	1916-17	C4, Ser. 101, D8, 5102	25.75
261C3975	Scrapps Booth	1918	D8, 6-39, 6-40	25.75
261C3945	Scrapps Booth	1919	All Models	25.75
261C3905	Studebaker	1914	EB, SC	29.20
261C3906	Studebaker	1915	EC, SD	29.20
261C3907	Studebaker	1916-17-18	ED, SF, 7	29.20
261C3910	Studebaker	1919	All Models	25.75
261C3946	Stutz	1914-15-16-17	E, F, C, R4	34.00
261C3947	Stutz	1918-19	S	32.00
261C3948	Velle	1915-16-17	15 Ser., 15 Biltwell, 27 Ser.	29.20
261C3949	Velle	1918-19	22 Series 22 Biltwell, 28 Ser. Biltwell, 39 Ser.	25.75
261C3950	Westcott	1916-17	41, 42, 51, S-17	29.20
261C3951	Westcott	1918	S-18	29.20
261C3952	Westcott	1919	A-38	25.75
261C3953	Westcott	1919	A-48	29.20
261C3954	Winton	1918	9T, All Models	34.00
261C3955	Winton	1918	23-AX	29.20
261C3956	Winton	1919	24	34.00
261C3957	Winton	1919	25	32.00

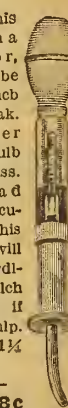
Low Priced Hydrometer

55c
An accurate low price instrument which will give satisfactory service. Shipping weight, 1 lb. **61C3844**—Price, 55c
Float Only. Glass float to fit our 3844, 3830, 3842. Ship. wt., 3 oz. **61C3854**—Each, 20c



Non-Break Hydrometer

88c
If you drop this hydrometer on a cement floor, knock it off the fender or bench it won't break. Special rubber discs and bulb protect the glass. Easily read figures on accurate float. This hydrometer will outlast the ordinary kind which break easily if dropped. Ship. wt., about 1 1/4 lbs. **61C3830**—Price, each 88c



De Luxe Starting and Lighting Batteries for Fords

The same De Luxe quality which has given wonderfully satisfactory service to thousands of large car owners is put into these De Luxe Storage Batteries used in connection with starters for Fords. Our low prices are obtained due to our buying in tremendous quantities and lowering selling expenses by our direct plan.

Art No.	Name of Starter	Voltage	Wt. Lbs.	Price
261C3829	Genemotor 1915	12	59	\$35.25
261C3812	Westinghouse, 1915-16	12	59	35.25
261C3831	Gray & Davis 1915-16	6	50	29.20
261C3832	Gray & Davis 1917	6	43	25.75
261C3833	Gray & Davis 1915-16	6	50	29.20
261C3903	For Starter furnished by Ford Motor Co.	6	50	29.20

Note—More than one size battery furnished. Please give measurements of your battery when ordering.



Thornward Storage Battery \$13.90 and up

For Lighting and Ignition Purposes only. The Hard Rubber Jar is of the best quality vulcanite. Rubber cover fits snugly and is furnished with vents of ample size. Terminals are at the top and are of acid-resisting alloy. The only mechanical connections are at terminals. The Rubber Jar fits into a heavy hardwood box containing insulation compound sealed in place.

Battery sizes shown here are total over all.
61C3845—With terminals on end instead of top as in others. Six volts, 40 ampere hours. Length, 7 1/2 inches; width, 6 3/8 inches; height, 8 1/2 inches. \$13.90
61C3846—6 volt, 60 ampere hours. Length, 8 3/4 inches; width, 7 1/2 inches; height, 8 3/4 inches. Shipping weight, 30 pounds. \$17.65
61C3847—6 volts, 80 ampere hours. Length, 10 1/2 inches; width, 7 1/2 inches; height, 8 3/4 inches. Shipping weight, 37 pounds. \$22.00

Acid Testing Hydrometer \$1.45 Outfit

This is a very handy and convenient outfit and really indispensable. Jar used for distilled water and is sealed by rubber disc on the hydrometer keeping out dust and dirt. Hydrometer is of the non-breakable type protected by rubber disc at bulb and rubber square at lower end, preventing it from rolling off bench or running board. Shipping weight, 2 1/2 pounds. Hydrometer, 1 pound. **61C3843**—Complete outfit \$1.45
61C3842—Hydrometer only. 90c



Top Re-covering Outfits

For Popular Cars

\$22.50

and up

If your top has become shabby in appearance or worn and leaky this New Top Outfit will both restore its appearance and give you a top as good as new. Nothing detracts more from the appearance of a car than a cracked and faded old top. Why not replace it with this New Top Outfit? They are very good grade imitation leather or cotton mohair and we furnish them at about one-third the cost of a new top. Outfit consists of roof, rear curtain and all necessary tacks and bindings to put it on. Shipped ready to attach. Simply remove the tacks at the front and rear of the old top covering and back curtain and slip the new covering over the top bows and padding. Guaranteed to fit perfectly. We carry the New Top Outfits in stock for the following cars. Shipping weight, about 20 lbs. For Special Top Re-Covers see listing below table at left

Name and Model of Car	High Quality Imitation Leather with Two Oval Glass Lights		Mohair Type with Celluloid Windows Like in Original Top	
	Art. No.	Price	Art. No.	Price
Bulek D-35, 5 pass. 1915-16			61C9970	\$24.25
Bulek E-35, 5 pass. 1917-18			61C9971	24.25
Bulek D-45, 5 pass. 1915-16	61C9825	\$29.65	61C9972	26.50
Bulek E-45, 5 pass. 1917-18	61C9826	29.65	61C9973	26.50
Bulek H-45, 5 pass. 1919				
Bulek K-45, 5 pass. 1920	61C9827	32.75		
Chevrolet 490, 5 pass. 1915-16-17	61C9828	26.75	61C9974	22.50
Chevrolet 490, 5 pass. 1918-19	61C9829	26.75	61C9975	22.50
Chevrolet 490, 5 pass. 1920	61C9830	29.65	61C9976	26.50
Dodge, 5 pass. 1915-16-17-18-19				
Dodge, 5 pass. with Gypsy curtain 1920	61C9831	30.50		
Maxwell 25, 5 pass. 1915			61C9977	26.00
Maxwell 25, 5 pass. 1916-17			61C9978	26.00
Maxwell 25, 5 pass. 1918			61C9979	26.00
Maxwell 25, 5 pass. 1919-20	61C9832	26.65		
Oakland 32, 1915, 32B, 1916, 5 pass.			61C9892	26.50
Oakland 34, 5 pass. 1917			61C9893	26.50
Oakland 34B, 5 pass. 1918-19	61C9833	29.75		
Oakland 32, 1915, 32B, 1916, 5 pass.	61C9834	32.50		
Oldsmobile 37, 1915-19			61C9980	25.25
Overland 75, 5 pass. 1916-17	61C9835	29.50	61C9981	25.50
Overland 90, 5 pass. 1917-18-19			61C9982	27.50
Reo 4 cyl. 5 pass. 1916-17			61C9983	26.50
Studebaker 4x6 cyl. 5 pass. 1916-17				

Mohair Re-covering Outfits with 2 Oval Glass Lights

We can furnish re-covering outfits made of high grade cotton Mohair material for the above cars fitted with 2 beautiful 6x12 inch oval glass lights in rear curtain in place of celluloid at \$3.50 additional. These will be shipped from factory in North Eastern Ill. direct to you. Order by number 261C9982, allowing \$3.50 more than prices shown for Mohair Re-covering outfits.

We can also furnish re-covering outfits for practically all makes of cars for models since 1915 either in cotton mohair or imitation leather with celluloid or glass curtains. If your car is not listed above, write us for prices, being sure to specify the make, year, model of car and kind of material and style of windows you wish.



Back Curtains

Very attractive replacement curtains furnished in mohair type or imitation leather with two 6x12 oval double strength glass windows. Wrinkled or cracked back curtains make cars shabby looking. These curtains are very neat and classy. The two glass windows not only improve car's appearance but are easily kept clean so you see plainly. You can put them on, as all necessary tacks, etc., are included. Each curtain will fit perfectly. Ship. wt., about 5 1/2 lbs.

Name and Model of Car	Imitation Leather		Mohair Type	
	Art. No.	Price	Art. No.	Price
Bulek D-45, 1915-16			61C9620	\$10.65
Bulek E-45, 1917-18			61C9621	10.75
Bulek H-45, Gypsy Type	61C9635	\$14.45		
Bulek K-45, Gypsy Type	61C9635	14.45		
Chevrolet 490, 1915-16-17			61C9622	10.45
Chevrolet 490, 1918-19			61C9623	10.45
Chevrolet 490, 1920	61C9636	10.95		
Dodge 1915-19	61C9637	11.90	61C9624	10.65
Dodge 1920 Gypsy Curtain	61C9638	14.45		
Maxwell 25, 1916-17			61C9625	10.65
Maxwell 25, 1919-20	61C9639	11.85	61C9626	10.65
Oakland 32, 1915			61C9626	10.65
Oakland 32B, 1916				
Oakland 34B, 1918-19	61C9640	11.90		
Overland 90, 1917-18-19	61C9641	10.95	61C9627	10.50
Overland A-4, 1920	61C9642	11.65		



Door Guards

Protect the finish of your car doors and add to its appearance by using door guards or hand grips. These door guards are nicely made of imitation leather over sheet metal. Ship. wt., each 8 oz.

61C2715—Price, Each..... 27c



Cocoa Mat

Well made closely woven and substantially bound. Fits any car. Two special spring clamps (woven in) hold it on securely. Instantly put on or taken off. A great convenience. Size, 5 1/2 x 13 inches. Ship. wt., 2 1/2 lbs.

61C2281—Price..... \$1.15



Running Board Mat

Made of heavy corrugated rubber. Protects running board and aids in keeping floor of car clean. Prevents slipping. Screw holes reinforced by metal. Special composition resists wear. Size, about 11x17 1/2 inches. Ship. wt., about 1 1/2 lbs.

61C3798—Price, each..... \$1.15



Heel Mat

Made of special rubber composition to withstand constant use. Heavy ribs prevent foot slipping. Size 5 1/2 x 3 1/4 in. Ship. wt., about 8 oz.

61C3799—Price, 27c each.....



Dustless Duster

Do not let dust remain on the finish of your car as it quickly works its way into the paint which kills the luster. The Dustless Duster will not scratch. This is a much easier and quicker method than using rags which have a tendency to conceal grit that will make little fine marks in the paint. This duster takes up the dust. Ready washed with soap and water. Length of brush part, 10 inches; width 8 inches; length of handle, 6 inches. Shipping weight 1 pound.

61C9608—Each..... 58c



Washing Brush

Bristles are fine quality horse hair, securely fastened in galvanized wire. Diameter of coil, 2 ins.; length, 9 ins.; length over all, 18 ins. Ship. wt., 14 oz.

61C9603—58c Each.....



Top Dyes

Old, shabby-looking tops (leather or pantosote), seats, top linings can be made to look bright and fresh at a very small cost. Majestic Leather and Top Dye not only gives a lasting lustre to auto tops and seats, but also preserves and waterproofs them as well. It is entirely free from injurious substances. Easy to apply. Jet black in color. Ship. wt., 1 1/4 lbs.

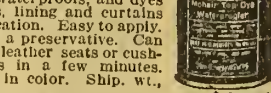
61C9651—Plat Size Caa. Price, each. 65c



Mohair Top Dye

Renews, waterproofs, and dyes mohair tops, lining and curtains in one application. Easy to apply. Also acts as a preservative. Can be used on leather seats or cushions. Dries in a few minutes. Deep black in color. Ship. wt., 2 1/2 lbs.

61C9658—Quart Size Caa..... \$1.05

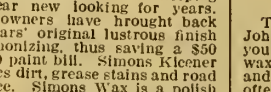


Simon's Kleener and Wax

Two wonderful aids for keeping your car new looking for years. Many owners have brought back their cars' original lustrous finish by Simonizing, thus saving a \$50 to \$100 paint bill. Simon's Kleener removes dirt, grease stains and road grime without injuring the surface. Simon's Wax is a polish in paste form that gives a bright, glossy, long-lasting finish. Use Simon's Kleener before applying Simon's Wax. Ship. wt., 16 oz. and 10 oz.

61C9572—9 oz. Can Kleener, Each..... 48c

61C9571—5 oz. Can Wax, Each..... 48c

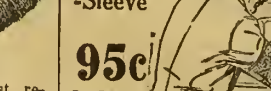


Johnson's Cleaner and Wax

These are two of the best known Johnson products. Once you get your car thoroughly cleaned and waxed, it's not necessary to wash and clean the polished surfaces as often. After a trip simply wipe the car with a dry cloth and the beautiful finish appears. Johnson's Cleaner removes stains, etc., much better than soap, putting the body in condition for the wax. Johnson's Wax has a splendid reputation for keeping cars looking like new. Ship. wts., 10 oz. and 7 oz.

61C9560—Johnson's Cleaner, Each..... 40c

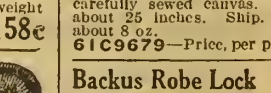
61C9561—Johnson's Wax, Each..... 40c



Don't Get Dirty Use Save-A-Sleeve

They are large enough to slip over your coat sleeves, completely protecting arms as well as hands and cuffs. Just right for working around motor, changing tires, greasing differentials, etc. Quickly save their cost in laundry or cleaners' bills as well as preventing the tearing of coat or shirt. Made of heavy, carefully sewed canvas. Total length, about 25 inches. Ship. wt., of pair, about 8 oz.

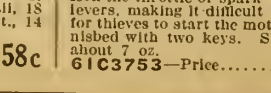
61C9679—Price, per pair..... 95c



Backus Robe Lock

Simply snapping lock over robe and rail gives protection against theft. Coats, hats and luggage may be fastened in car with a Backus Robe Lock. Jaws open about 4 1/2 inches. Also used to lock the throttle or spark levers, making it difficult for thieves to start the motor. Furnished with two keys. Ship. wt., about 7 oz.

61C3753—Price..... \$1.25



Paints and Polishes

Window Lights For Dodge and Maxwell

If your window or curtain lights are shabby or torn replace them with these Good grade celluloid. Fastened with small cleats which are furnished. Any curtain window can be replaced in a few moments' time. Ship. wt., about 8 oz.

61C9945—Maxwell rear curtain light fits all models 1915-16-17..... \$1.05

61C9946—Maxwell light for front side curtain size 7x12x9..... 75c

61C9947—Maxwell light for rear side curtain..... 45c

61C9948—Dodge rear and side curtains pointed, Size, 12 1/4 x 4 1/2 inches..... 48c

Sticks-Tite Back Curtain Windows

Made of cotton Mohair. Will fit an oval opening 3 1/2 inches deep or less and 18 1/2 inches long or less. Fits many Buleks, Maxwells, Chevrolets and others. Ship. wt., about 8 oz.

61C9942—Price..... \$1.30

61C9943—Price..... \$1.80

61C9944—Price..... \$1.50

61C9945—Price..... \$1.80

61C9946—Price..... \$1.50

61C9947—Price..... \$1.50

61C9948—Price..... \$1.50

61C9949—Price..... \$1.50

61C9950—Price..... \$1.50

61C9951—Price..... \$1.50

61C9952—Price..... \$1.50

61C9953—Price..... \$1.50

61C9954—Price..... \$1.50

61C9955—Price..... \$1.50

61C9956—Price..... \$1.50

61C9957—Price..... \$1.50

61C9958—Price..... \$1.50

61C9959—Price..... \$1.50

61C9960—Price..... \$1.50

61C9961—Price..... \$1.50

61C9962—Price..... \$1.50

61C9963—Price..... \$1.50

61C9964—Price..... \$1.50

61C9965—Price..... \$1.50

61C9966—Price..... \$1.50

61C9967—Price..... \$1.50

61C9968—Price..... \$1.50

61C9969—Price..... \$1.50

61C9970—Price..... \$1.50

61C9971—Price..... \$1.50

61C9972—Price..... \$1.50

61C9973—Price..... \$1.50

61C9974—Price..... \$1.50

61C9975—Price..... \$1.50

61C9976—Price..... \$1.50

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61C9978—Price..... \$1.50

61C9979—Price..... \$1.50

61C9980—Price..... \$1.50

61C9981—Price..... \$1.50

61C9982—Price..... \$1.50

61C9983—Price..... \$1.50

61C9984—Price..... \$1.50

61C9985—Price..... \$1.50

61C9986—Price..... \$1.50

61C9987—Price..... \$1.50

61C9988—Price..... \$1.50

61C9989—Price..... \$1.50

61C9990—Price..... \$1.50

61C9991—Price..... \$1.50

61C9992—Price..... \$1.50

61C9993—Price..... \$1.50

61C9994—Price..... \$1.50

61C9995—Price..... \$1.50

61C9996—Price..... \$1.50

61C9997—Price..... \$1.50

61C9998—Price..... \$1.50

61C9999—Price..... \$1.50

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Made of cotton Mohair. Will fit an oval opening 3 1/2 inches deep or less and 18 1/2 inches long or less. Fits many Buleks, Maxwells, Chevrolets and others. Ship. wt., about 8 oz.

61C9942—Price..... \$1.30

61C9943—Price..... \$1.80

61C9944—Price..... \$1.50

61C9945—Price..... \$1.80

61C9946—Price..... \$1.50

61C9947—Price..... \$1.50

61C9948—Price..... \$1.50

61C9949—Price..... \$1.50

61C9950—Price..... \$1.50

61C9951—Price..... \$1.50

61C9952—Price..... \$1.50

61C9953—Price..... \$1.50

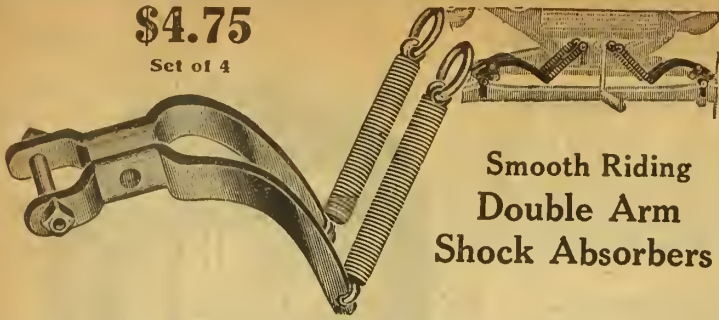
61C9954—Price..... \$1.50

61C9955—Price..... \$1.50

61C9956—Price..... \$1.50

61C9957—Price..... \$1.50

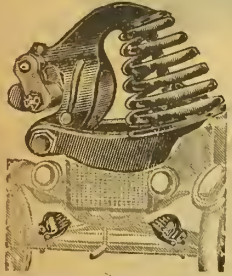
\$4.75
Set of 4



**Smooth Riding
Double Arm
Shock Absorbers**

You can change your Ford, so it will ride more comfortably—more steadily and hold the road better by using double arm Shock Absorbers. After putting these absorbers on you can sit back, take it easy and forget those bumps which have bothered you. You will be able to drive over rough roads 5 to 8 miles an hour faster without the usual bouncing. The front end will stop "bobbing" up and down. The women will really enjoy riding in the rear seat and there'll be no more complaints of backaches and tiredness.

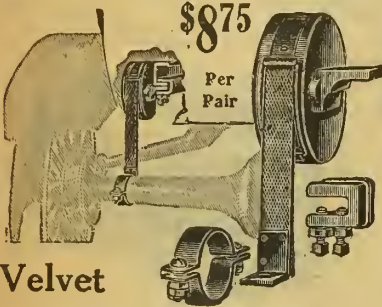
arm cantilever style shock absorbers for Fords. Owners have been delighted with their action. The eight coil springs prevent even small shocks reaching the passengers. Strong steel side arms will hold heavy loads. This saves tires as they are relieved of the jerking action caused in body bouncing. These coil springs act instantly. Ship. wt., about 15 lbs. **Will not fit closed models.**
161C2401—For Touring Car. **\$4.75**
Price, set of 4.
161C2402—For Roadster. **\$4.75**
Price, set of 4.



Van Briggle Shock Absorbers

One of the greatest comfort bringing, pleasure making accessories we have ever offered Ford owners. It is like putting your Ford body in a cradle. These large, easy, smooth acting, conical shaped springs flex freely when your wheels hit even the smallest bumps so that the shock is cushioned and stopped before it ever has a chance to jolt you. Side swaying and rebounding which ordinarily causes the body to bounce and jolt upward is practically eliminated. Van Briggles are made of the finest materials, completely assembled so you can put them on without removing the wheels. No drilling necessary. Instructions furnished. Ship. wt., about 25 lbs.

161C2399—Set of 4, for Roadster. **\$19.85**
161C2400—Set of 4, for Touring. **19.85**
161C2397—Set of 4, for Sedans and Coupes. **19.85**

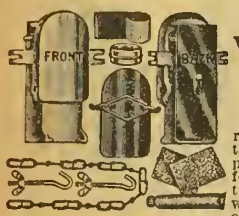


\$875
Per Pair

Velvet Shock Preventers

Absolutely prevents rapid spreading and jerking of rear springs which causes so much discomfort when riding over rough roads or striking bumps. Lessens chances of breaking springs. Enables you to travel faster over rough roads. Each device consists of a heavy, specially made strap wound over an inner spring arrangement that acts as a check against sudden jerks. These shock preventers greatly improve the riding of all Fords. Can be also used with shock absorbers. Very easy to attach—no drilling, no alterations—no removing wheels. Fit all models Fords. Ship. wt., 11 lbs.

161C2415—Price, per pair. **\$8.75**



**Steam Vulcanizer
for Small Tires**

Gives a perfect repair for cuts in the casing and a permanent patch for holes in inner tubes. Fill the cut with rubber, clamp on vulcanizer, light generator. No watching required. Can't overcure or undercure. Steam vulcanizing is used in the factories and this vulcanizer works on the same principle. Furnished with repair rubber and cement. Black and nickel finish. Size of face, 2 3/4 x 4 in. Suitable for 30x3 and 30x3 1/2 tires and inner tubes. Ship. wt., about 4 lbs. Ship. wt., 14 oz.

161C1418—Price, each. **\$1.95**



Leather Studded Boot

Makes an excellent temporary repair. Made of good, tough stock reinforced at tread. Extra layer of material studded with rivets. Ship. wt., 14 oz.

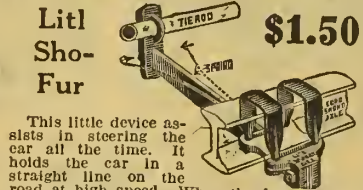
161C1802—for 3-inch tires. **\$0.55**
161C1803—for 3 1/2-inch tires. Price. **..70**



Never Creep Tire Patch

Made of several plies of fabric. One flap fits securely under casing clinch. Other flap is made so you can fit patch accurately to inside of casing under clinch, preventing tube from rubbing against any sharp edge and becoming chafed. Specially made for protecting weak spots and blow-outs in casing. Will fit either front 3-in. or rear 3 1/2-in. casing on Ford cars. Ship. wt., 8 oz.

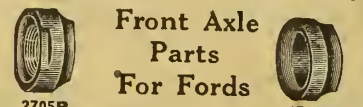
161C1801—Price. **\$0.40c**



Little Sho-Fur

This little device assists in steering the car all the time. It holds the car in a straight line on the road at high speed. When the front wheels strike an obstruction, and are deflected, to get over or around it, the Little Sho-Fur pulls them back in a straight line before the car has changed its course, before the driver knows of the danger. It acts like a flash. Just consider the low price compared with what it may mean to you at some future time. Made of high-grade spring steel with malleable iron fittings enameled black. Ship. wt., 2 lbs.

161C2292—Each. **\$1.50**



**Front Axle Parts
For Fords**

- 2705R
- 2706L
- 2710N
- 2718
- 2714
- 2718
- 2719
- 2694
- 2686
- 2707R
- 2708L

Art. No.	Part No.	Name of Part	Price
61C2839	2704	Stationary Cone.	\$0.18
61C2840	2705R	Adj. Cone, right thread.	.15
61C2841	2706L	Adj. Cone, left thread.	.15
61C2842	2710N	Spindle bolt with oiler.	.23
61C2843	2694	Spindle body, right.	1.90
61C2845	2696	Spindle arm, right or left.	.55
61C2846	2707R	Spindle nut, right thread.	.09
61C2847	2708L	Spindle nut, left thread.	.09
61C2844	2695	Spindle body, left.	1.90
61C2848	2713	Spindle body bushing, bronze.	.14
61C2849	2714	Spindle arm bushing, brass.	.04
61C2850	2718N	Spindle conn. rod bolt with oiler.	.18
61C2933	2719	Spindle conn. rod bolt nut.	.04

Ship. wt., 61C2839, 4 oz.; 61C2840, 2 oz.; 61C2841, 2 oz.; 61C2842, about 7 oz.; 61C2843, 2 lbs.; 61C2844, 2 oz.; 61C2845, 12 oz.; 61C2847, 2 oz.; 61C2846, 2 oz.; 61C2848, 2 oz.; 61C2849, 2 oz.; 61C2850, 3 oz.; 61C2933, 2 oz.

Tire Covers Make Spare Tires Last Longer

Snug fit covers protect your spare tires from the sun, rain, dust and mud. A covered tire also gives a much neater appearance when on the holders. Made of good quality black enameled waterproof drill. Will not fit tires on rims. A highly tempered flat steel spring is inserted along the buttoned edge and holds cover in shape. Special snap glue buttons are also used to keep the cover closed. Ship. wt., 3 lbs.

161C1909—Size, 30x3. Each. **\$2.15**
161C1910—Size, 30x3 1/2. Each. **..20**

Ford Owners

30c

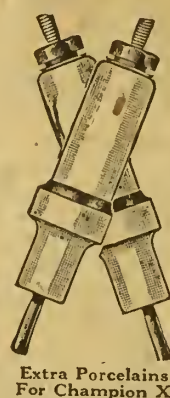


Reliable Spark Plug

Designed specially for Ford motors. Gives very satisfactory service. Order a set of these low priced reliable plugs. Nickel-plated finish. 1/2-in. size. Ship. wt., abt. 5 oz.

161C134—30c

15c Each



Extra Porcelains for Champion X and Reliable Spark Plugs

Good, dependable, perfect shape porcelains complete with electrodes and gaskets that fit either Champion X or our Reliable Spark Plugs. Often save the price of a new plug. Ship. wt. ea., 2 oz.

161C2130—\$0.15

74c



Champion X Spark Plug

Same as the Champion X's that were in your Ford when it came from factory. Standard equipment on all Ford cars for years. Ship. wt., 3 oz.

161C2114—Champion X Spark Plug. **74c**

Challenge Priming Spark Plug For Fords

Your Ford should have these plugs in winter so you can use gasoline or oil priming liquid for quick starting. They are also a big aid in testing spark plugs. Gasoline flows right down to spark points. High test porcelain used. Ship. wt., 3 oz.

161C9019—Standard 1/2-in. size. **\$1.2**



Champion X Spark Plug Wrench

Made of malleable iron, finish with baked black enamel. One end fits Champion X plug, Reliable Champion, etc.; other end fits Standard 1/2-in. spark plugs. Ship. wt., 6 oz.

161C2116—Each. **29**

Hot Spark Intensifiers



They often save their price several times over in helping to locate ignition troubles. Just raise the hood and watch the sparks in the glass cylinders. Hundreds of tests have proven that this wonderful little device with its adjustable gap actually makes spark plugs which are missing and would not fire at the points on account of soot, carbon or similar troubles fire every time just like they did when new. They strengthen the spark so it burns right through carbon. Hot Spark Intensifiers save lots of spark plug money. Plug not included. Ship. wt., each, 2 oz.

161C7116—Price, each. **\$0.32**

161C7117—Price, set of four. **1.25**

161C7118—Price, set of six. **1.85**

Wiring Outfits for Fords

Rewire your Ford and avoid possibility of short circuits. This outfit consists of high-grade wire, both primary and secondary, cut to correct lengths, and complete terminals. Well insulated where exposed to grease or oil. Furnished in contrasting colors, for easily replacing in proper position. Ship. wt., 1 lb.

161C2108—For Fords previous to 1916. Complete with Spark Plug wires. **88c**

161C2109—For 1916-17-18-19 Fords. Complete with Spark Plug wires. **90c**

161C2110—Spark Plug wires only. **33c**

161C2125—Lighting and Timer wires only for 1916-17-18-19 models. **60c**

161C2136—For Fords equipped with electric starter—6-wire outfit, complete with Spark Plug wires. **99c**

161C2135—Set of 6 Timer and lighting wires only. **69c**

FORD Owners

You will save money every month by using our 100-page Auto Supply Book as your price guide. We will gladly send you a copy **FREE.**

\$2.65



Compression Whistle for Fords

An excellently constructed loud tone whistle with special attachment for 1/2-inch spark plugs, making it suitable for Fords. The great difference between its tone and ordinary horns makes it a wonderful aid in preventing accidents. Complete instructions included. Furnished complete with cord and attachment to fit in Ford spark plug hole—plug fits in attachment as shown. Ship. wt., about 2 lbs.

161C3445—Price, each. **\$2.65**

Tire Saving Jacks

Here's a money saving one that will mean the adding of many miles to tires for Fords and other light cars. Permitting the car to rest on its tires for any length of time injures them.

The tire can be lengthened by raising the car when not in use. Keeps tires out of oil and grease—gives them rest by relieving unnecessary strain on fabric. Light, yet powerful. They are especially easy to work as one operation lifts the wheel and locks it. This is an economical habit which will make your tires last longer. Made of tough steel. Ship. wt., set of four, 15 lbs.

161C1907—Set of four. **\$2.75**

Light Car Jack

A light-weight, easy acting jack. Exceptionally strong. Height, 10 inches. Has a lift of 6 1/2 inches. Long removable handle. Ship. wt., 5 lbs.

161C1908—Price. **\$1.45**

Reliable Timer

The roller and contact points are specially hardened for long wear. Fiber insulation prevents short circuits. Oil hole located at top properly lubricates roller. Fits all Fords 1913 to 1920. Ship. wt., 8 oz.

161C2133—Price, each. **\$1.05**

Clear Tone

For use with Ford Magneto. No batteries to wear out. Fitted with extra large diaphragm that gives a strong, even, clear tone. Attached under the hood—special bracket included. Black enamel finish. Ship. wt., 4 lbs.

161C1955—Price, complete. **\$2.25**

Magneto Horn

A handsome, adjustable horn, especially designed for use on Ford cars. Fitted with a flat bracket it can be attached to top of left panel in easy reach without boring holes or marring finish of the car. Black enamel finish with nickel trimmings. Ship. wt., about 3 lbs.

161C1947—Price, each. **\$2.95**

Standard Hand Horn For Fords

A handsome, adjustable horn, especially designed for use on Ford cars. Fitted with a flat bracket it can be attached to top of left panel in easy reach without boring holes or marring finish of the car. Black enamel finish with nickel trimmings. Ship. wt., about 3 lbs.

161C1947—Price, each. **\$2.95**

You Save Here



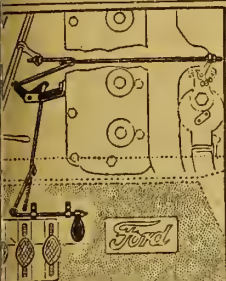
Nu Power Carburetor for Fords

This carburetor will make a great difference in the power, speed, pick-up, smoothness and economy in operating your Ford. Air is admitted at three different points instead of at one place. This breaks up the gasoline more effectively. We have thoroughly tested this carburetor and believe it to be the best near this price. The better mixture given by this carburetor has a tendency to lessen carbon and sparking troubles. The same operating rods used on the regular Ford carburetor are used on the NU POWER and it will fit perfectly on all models. Ship. wt., 4 lbs. **\$11.95**

IC2171—Price, each.....

Foot Accelerator

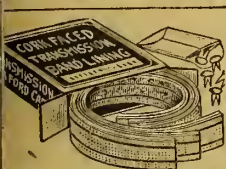
Gives Ford owners a foot control for the gas similar to that used on large cars. This is an easily attached, well-made accelerator at a startlingly low price. Does not interfere with operation of hand throttle. You can put it on quickly. Furnished complete. Ship. wt., 1 1/2 lbs. **61C2509—89c**



Smooth Action Cork Face Transmission Lining

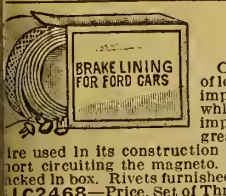
\$1.25 Set of 3

This lining will make a remarkable difference in the action your Ford. Grabbing, slipping and chattering which makes the Ford jump and jerk as if it would tear itself apart, will not occur when you use Cork Face Lining. Just light pressure is needed instead of the hard push with ordinary linings. The whole face is cork, securely fastened to the fabric. It works with an unequalled positive smoothness. Not affected by oil or grease. Saves the engine, transmission and differential. Outlasts several sets of ordinary linings. Set consists of three linings with rivets. Ship. wt., 1 1/4 lbs. **61C2475—Price, set of three.....\$1.25**



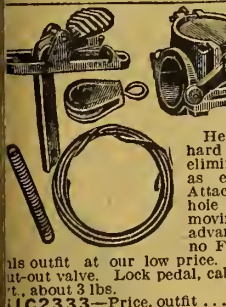
Transmission Linings

Composed almost wholly of long fibre material thoroughly impregnated with a compound which makes it practically impervious to the action of oil, grease or heat. There is no possibility of oil or grease getting into the construction so there is no possibility of oil circuiting the magneto. Furnished in sets of three packed in box. Rivets furnished. Ship. wt., ab. 1/4 lb. **61C2468—Price, Set of Three.....65c**



Muffler Cut-Out Aids in Testing Motor

Helpful for bill climbing and hard pulls as back pressure is eliminated. Aids in testing motor as each exposure is distinct. Attached by cutting V-shaped hole in exhaust pipe without removing pipe. Considering the advantages of having a cut-out, no Ford owners should pass up this outfit at our low price. Furnished complete with outfit at our low price. Lock pedal, cable, pulley and spring. Ship. wt., about 3 lbs. **61C2333—Price, outfit.....78c**



Noiseless Muffler

Similar to the Ford muffler arranged so that it may be attached to any Ford. Fits perfectly. If the muffler on your Ford is worn out, rattles, or has blown to pieces, use this and get the best results at a low price. Furnished complete as shown. Ship. wt., 4 lbs. **61C2282—Price, each.....\$1.65**



Complete Speedometer Shafts

Complete with end fittings to fit Stewart and other Speedometers and are entirely interchangeable. The flexible tube or housing is made of high grade rolled steel and joined with a lock joint, making it exceptionally strong. Ship. wt., about 4 lbs. **\$2.43 and up**

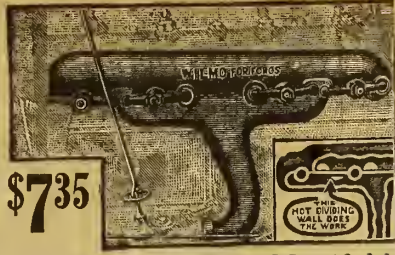
61C2208—Stewart, 50 in. **2.43**
 61C2209—Stewart, 54 in. **2.43**
 61C2210—Stewart, 60 in. **2.61**
 61C2211—Stewart, 66 in. **2.61**
 61C2212—Stewart, 72 in. **2.79**
 61C2213—Standard and Sears Cross, also Jones, 1915 Ford Equipments, 54 in. **2.43**
 61C2214—For Standard and Sears Cross Speedometers, all models, 60 in. **2.61**
 61C2215—For Standard and Sears Cross Speedometers, all models, 66 in. **2.61**

Speedometer Swivel Joints

When the motor back fires and kicks the Non-Kick Device automatically disengages the crank handle preventing injury. An absolute necessity. Does not interfere with cranking of car. Made of heavy steel. Full instructions for attaching. Easy to apply. Ship. wt., 12 oz. **61C2294—Price, each.....\$1.85**

An improved swivel joint made of fine quality material. All gears are carefully fitted. The bolt can be adjusted for wear or the swivel taken apart for replacing worn gears or minor parts. Perfectly interchangeable with parts of various speedometers. Ship. wt., 1 1/4 lbs. **\$2.43**

61C2205—For Stewart Speedometers, 2 1/2 to 1, 1911 to 1920 **\$2.43**
 right hand.....
 61C2206—For Stewart Speedometers, 2 1/2 to 1, 1911 to 1920 left hand..... **\$2.43**



Wilmo Gas Saving Manifold For All Fords

Tests before prominent auto associations have shown over 35% more mileage per gallon. A hot dividing wall between the exhaust and intake gases gives a more explosive mixture. It is simple, neat, compact—has no moving or wearing parts—no adjustments; can be put on with just an ordinary monkey wrench. Ford engines which now choke, cough and buck for several blocks before running right will perform perfectly in a moment's time. Even though you use poorer gasoline the New Wilmo will make your Ford run better. In tests Ford which would stall when run slow in high gear have been made to creep along in high gear at walking pace without a jerk or sputter. You can prove every word we have said about the New Wilmo Manifold on your own Ford in a few minutes' time. Ship. wt., 12 lbs. **61C2156—Price, each.....\$7.35**

IC2156—Price, each.....

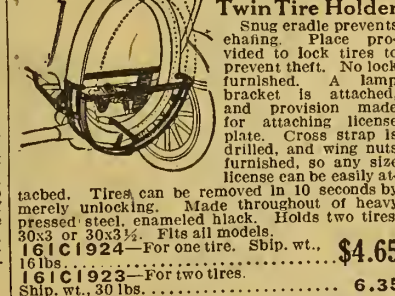
Defender Lock

This is the latest improved model that safely locks both the Ford and the coil units. Exclusive grounding device prevents thieves rewiring around the back or inside coil box. Metal strip over top is made of Vanadium steel and cannot be loosened without the key. Worth its price for protection to coil units alone. It is not necessary to remove coil box to install—any Ford owner can put it on. Will not fit 1920 Model. Ship. wt., 12 oz. **61C2069—Price, each.....\$2.90**



Thief Proof Twin Tire Holder

Shag erade prevents chugging. Place provided to lock tires to prevent theft. No lock furnished. A lamp bracket is attached, and provision made for attaching license plate. Cross strap is drilled, and wing nuts furnished, so any size license can be easily attached. Tires can be removed in 10 seconds by merely unlocking. Made throughout of heavy pressed steel, enameled black. Holds two tires, 30x3 or 30x3 1/2. Fits all models. **61C1924—For one tire, Ship. wt., \$4.65**
61C1923—For two tires, Ship. wt., 30 lbs. 6.35



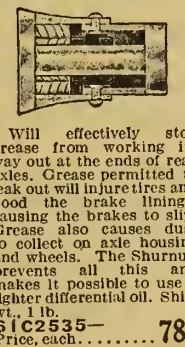
Sturdy Angle Iron Radius Rod Support

Will prevent breakage or bending of the radius rods by bracing from lower part of axle. Many accidents are caused by bending or breaking of the radius rod, causing car to jump the road. The Sturdy Rod reduces wear on ball and socket at rear of radius rod. Easily and quickly put on without taking car apart. Does not interfere with shock absorbers. Made of angle iron enameled black. Ship. wt., 4 1/2 lbs. **61C2517—Price, each.....80c**



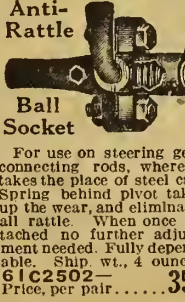
Shurnuff Grease Retainer

Will effectively stop grease from working its way out at the ends of rear axles. Grease permitted to leak out will injure tires and flood the brake linings, causing the brakes to slip. Grease also causes dust to collect on axle housing and wheels. The Shurnuff prevents all this and makes it possible to use a lighter differential oil. Ship. wt., 1 lb. **61C2535—Price, each.....78c**



Steering Gear Anti-Rattle Ball Socket

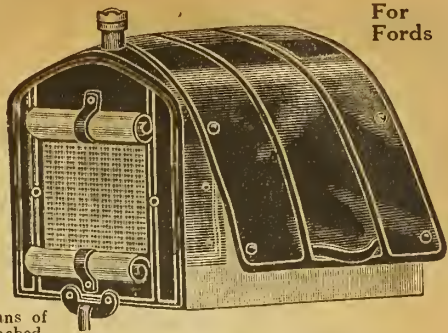
For use on steering gear connecting rods, where it takes the place of steel cap. Spring behind pivot takes up the wear, and eliminates all rattle. When once attached no further adjustment needed. Fully dependable. Ship. wt., 4 ounces. **61C2502—Price, per pair.....35c**



Radiator and Hood Cover

Double Roll Front Curtain Entire front can be opened or half at a time

\$3.85



Hood cover is attached by means of metal clips, and may be easily detached. Maintains the heat in the radiator and keeps the engine warm. Made of imitation leather or enamel cloth heavily lined. Filler hole and handles are reinforced with fabric. Front curtain divides at center and fastens with straps and snaps. Very attractive and durable. Aver. ship. wt., 3 1/4 lbs.

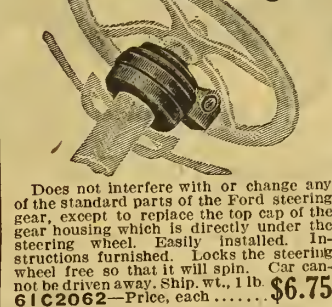
Radiator Cover for Fords Double Roll Front Curtain

Radiator cover only. For protection against freezing. Not only prevents radiator freezing but protects entire system from cold. High-grade black enameled cloth or imitation leather lined. Front curtain divides at center and fastens with straps and snaps. Aver. ship. wt., 1 1/2 lbs.

Enameled Cloth **\$1.85**
 61C2603—For 1916 and older models.....
 61C2604—Fits 1917-18-19-20 models **1.90**
 Imitation Leather—Dull Finish **2.45**
 61C2622—1916 and older models.....
 61C2623—1917-18-19-20 models **2.50**

Perry Wheel Lock \$6.75

Does not interfere with or change any of the standard parts of the Ford steering gear, except to replace the top cap of the gear housing which is directly under the steering wheel. Easily installed. Instructions furnished. Locks the steering wheel free so that it will spin. Car cannot be driven away. Ship. wt., 1 lb. **61C2062—Price, each.....\$6.75**

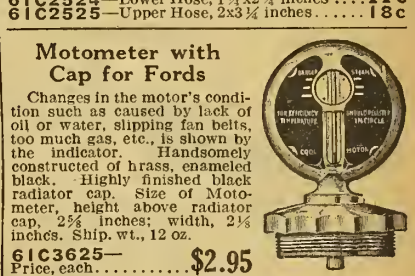


Perfex Better Cooler Radiator for Fords

\$23.50

This Perfex radiator is of exactly the same mechanical construction as those used on many autos selling from \$2000 to \$4000. The water channels are extra large allowing a free flow. Many features are patented. These include the patented, "flexible" core made of bronze that will withstand freezing without breaking. One of the biggest features of the Perfex is the patented shock absorbing brackets, which positively prevents damage to the radiator when the frame spreads or twists. Each radiator is thoroughly tested by air, water and steam under pressure before leaving the factory. Every Perfex is finished in a high gloss black enamel with a grey core. Ship. wt., about 55 lbs. **61C2695—For 1917-18-19-20 Fords. \$23.50**

Each.....
 61C2696—For 1916 and older models. This radiator is of similar shape to the one furnished by the Ford Co., for the older models. Ship. wt., 45 lbs. Price, each..... **\$23.50**



Motometer with Cap for Fords

Changes in the motor's condition such as caused by lack of oil or water, slipping fan belts, too much gas, etc., is shown by the indicator. Handsomely constructed of brass, enameled black. Highly finished black radiator cap. Size of Motometer, height above radiator cap, 2 1/2 inches; width, 2 1/2 inches. Ship. wt., 12 oz. **61C3625—Price, each.....\$2.95**



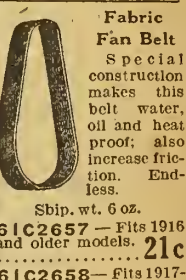
Detachable Fan Belt

A high-grade leather belt with a quick action fastener. Will not come apart while in use. Ship. wt., 6 oz. **61C2668—1916 and older models 33c**
61C2669—Fits 1917-18-19-20 models only 35c



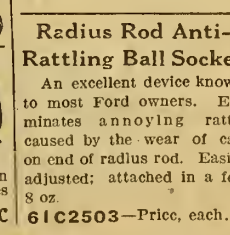
Fabric Fan Belt

Special construction makes this belt water, oil and heat proof; also increase friction. Endless. Ship. wt. 6 oz. **61C2657—Fits 1916 and older models. 21c**
61C2658—Fits 1917-18-19-20 models... 25c



Leather Belt

Tanned and treated by a process which makes it nonslipping, oil and moisture-proof. Ship. wt., 4 oz. **61C2659—1916 and older models. Price.....28c**
61C2660—Fits 1917-18-19-20 models. Price.....32c



Roller Bearings

The bearings shown above are of the roller type used so extensively. Will fit Ford or Chevrolet 490 front wheels and spindles perfectly. The bearings are of tapered pattern and held in position by the small projections in the retainer. Set includes bearings and retaining sleeves for both front wheels. Ship. wt., 3 lbs. **61C2269—Price, per set.....\$6.50**



Front Wheel Ball Retainers

Reduce friction by keeping bearings from rubbing against each other. Stops balls from working up on cones or jamming or breaking and chipping, which often causes lots of trouble. Makes the wheels run and steer easier. No losing balls when removing wheels. Set includes four retainers and separators and ball bearings. Ship. wt., about 1 1/2 lbs. **61C2274—Complete set of four.....\$1.30**



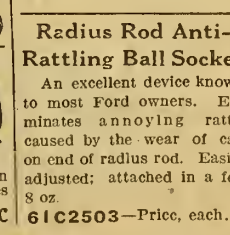
Brake Rod Support

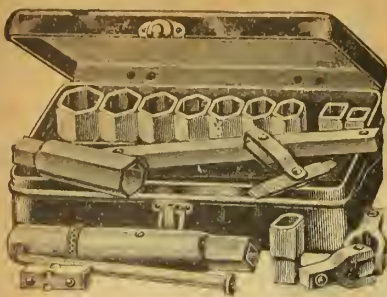
Takes the place of present pressed steel support on Ford cars. Malleable iron. Hardened steel ball is held in tension against brake rod. Ball turns and does not wear rod. Ship. wt., 1 lb. **61C2504—Set of two.....70c**



Radius Rod Anti-Rattling Ball Socket

An excellent device known to most Ford owners. Eliminates annoying rattle caused by the wear of cap on end of radius rod. Easily adjusted; attached in a few moments. Ship. wt., 8 oz. **61C2503—Price, each.....35c**





Special All Size Ratchet Wrench Set for Fords

A fine quality socket for every bolt and nut. Contains one special oval socket for main bearing bolts; one nicked reversible ratchet handle; one double blade screw driver bit; one long extension; one short extension; one universal joint; one pressed steel spark plug socket 1 1/2 x 1 1/2 in. long; nine guaranteed pressed steel sockets. Ship. wt. 10 pounds. **61C2451—Price.....\$6.70**



Wrench Set for Fords

This set should be in every Ford Tool Box. It enables you to quickly tighten nuts that are hard to reach. Seven sockets—hexagon socket openings; 1/2, 3/8, 1/2, 5/8, 3/4 in., one oval socket which fits main bearing bolt. One spark plug socket, which fits Champion X. Plugs, and a long handle socket wrench. Finely enameled black. Excellent value. Gives long service. Ship. wt., about 2 1/2 lbs. **61C2459—Price.....\$1.50**



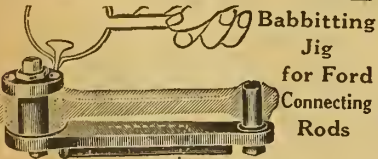
Hard Service Socket Wrench Set

Five sturdy bars with firmly affixed pressed steel sockets on each end. Ten openings: Hexagons, 1 1/2, 1 3/4, 2 1/4, 2 3/4, 2 5/8, 2 3/4, 3 1/4, inches; squares, 1 3/4 inch; spark plug socket, 1 1/2 inch; and an oval socket for main bearing nuts and bolts. In neat canvas case. Ship. wt., 4 1/2 lbs. **61C2453—Price.....\$3.35**



Speed Wrenches Save Time

Walden's Nos. 6014, 6016, 6018, 6019 and 6020, speed wrenches. Long shank brace hexagon socket wrenches are used as speed tools in assembling and dismantling cars. Are most efficient when used on a series of the same sized nuts as on cylinder heads. To gain the most time in removing nuts first release the nut with an offset socket wrench, then spin nut off with Brace or Speed Wrench. These tools are big time savers, and are considered indispensable in garages where they have been tried. Av. ship. wt., about 1 1/2 pounds. **61C2486—3/8 in. size.....70c**
61C2487—1/2 in. size.....70c
61C2488—5/8 in. size.....70c
61C2489—1 1/4 in. size.....70c
61C2490—1 1/2 in. size.....70c



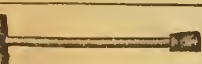
Babbitting Jig for Ford Connecting Rods

This device holds the Ford connecting rod in such a position that when the babbitt is poured it will have the correct centers. Very accurate and arranged so that the metal takes a perfect seat. Economically and quickly replaces the worn babbitt in Ford connecting rod bearings with but very little labor and a few cents worth of high-speed babbitt. No scraping necessary. Made of cast iron and steel. Suitable for use by both Ford owners or garage men. Shipping weight, 2 1/2 lbs. **61C2447—Price, each.....\$1.45**



Connecting Rod Wrench

Fits all Ford connecting rods, including the fourth one which is located out of reach of ordinary wrenches. No Ford owner should be without it as it may save you laying up the car. Ship. wt., 1 lb. **61C2438—Price, each.....30c**



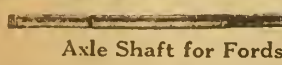
Triple Socket Wrench

Has two 3/8-inch hexagon sockets and one 1/2-in. hexagon socket, so arranged as to conveniently fit axle housing bolt and nut, brake shoe support bolt, cylinder head cap screw, dash bracket to dash bolt and nut, drive shaft roller bearing stud and nut, water cylinder inlet connection cap screw, water cylinder outlet connection cap screw. This is a well-made wrench and should be in every Ford owner's tool box. Ship. wt., 1 lb. **61C2440—Price, each.....45c**



Cylinder Head Gaskets

Replacement for Fords No. 3002. Ship. wt., 7 ozs. **61C2869—Price, each.....35c**



Axle Shaft for Fords

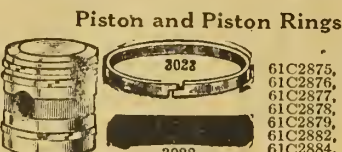
Duplicate of Ford part 2505D. Made of high carbon steel, tapered, threaded and slotted for keys, exact size and fits all machines with 56-inch tread. Ready for use. Ship. wt., 8 lbs. **61C2304—Price.....\$1.45**

Supplies for Fords



Nu Power 3-Piece Piston Rings for Fords

A special 3-piece ring that often eliminates necessity of expensive reborring and fitting of new pistons. Also saves on gasoline and oil bills and aids in keeping spark plugs clean. Regular size for Fords, 3 3/4 x 1 1/4 inches. Ship. wt., 4 ozs. **61C2558—Price, each.....75c**



Piston and Piston Rings

Art. No.	Ford No.	Name of Part	Price
61C2875	3020	Piston complete, reg.	\$2.05
61C2876	3030C	Piston complete, .0025 oversize.	2.05
61C2877	3020D	Piston complete .03125 oversize.	2.05
61C2878	3023	Piston ring, regular	.13
61C2879	3023B	Piston ring, .03125 oversize	.13
61C2882	3022	Piston pin.	.28
61C2884	3022 1/2	Piston pin bushing	.15

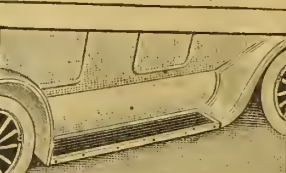


Brake Shoes for Fords

Dependable iron hub brake shoes unlined. Ford No. 2566. Ship. wt., 1 1/4 lbs. **61C2824—Price, per pair.....59c**

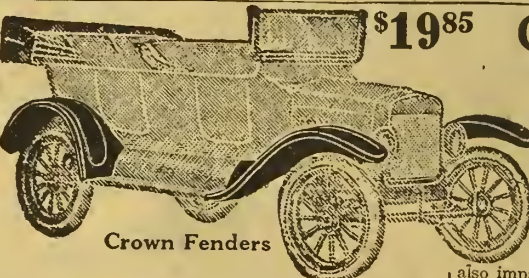
Pressed Steel Brake Shoes

Exceptionally strong and unbreakable saving you shoe replacement cost. Lined with high quality brake band lining. Prevents grabbing—but will lock wheels if necessary. Lining quickly replaced when worn. One-piece shoe. Best steel. Fits all Fords 1909-1920. Ship. wt., per pair, about 4 lbs. **61C2512—Price, per pair.....\$1.55**



Special Classy Running Boards for all Fords

Made of California redwood covered with brown genuine cork linoleum. Bound on sides and edges with aluminum. Will not rust, sag, or rattle. Fits all regular Ford models or can be used with our special bodies. Ship. wt., 15 lbs. **61C2250—Price per pair.....\$6.85**



1918 Crown Fenders

Make Fords Better Looking

Give your Ford the graceful, flowing, stylish lines and the rounding arch that you generally see only on high-priced cars. These fenders are made of 20-gauge automobile steel, cold drawn and finished in high gloss enamel, thoroughly baked at high temperature. Their design not only insures the utmost beauty but also imparts great strength and rigidity, long life and complete freedom from rattling and drumming. Interchangeable with the regular Ford Fenders on Model T Ford roadsters and touring cars. Will not fit the Ford Sedan or any car having a 60-inch tread. Ship. wt., about 115 lbs.

Increase Your Ford's Value

61C2253—Set of 4, fits 1909-16 Fords.....\$19.85
61C2271—Set of 4, fits 1917-18-19 models 19.85

Strong Sight Feed Oiler

If you could see some of the big repair bills many Ford owners have to pay on account of the oil pipe becoming clogged even when there's plenty of oil in the crank case, you would get your order in quick for this sight feed oiler. You can always tell if you have enough oil by glancing at the indicator on the dash. When oil level gets below pet cock, no oil will show in glass indicator. Burned out bearings—scored pistons and cylinder walls—overheating—ruined crank shafts are the results when your oil runs low. This system is very simple and absolutely positive in action as the oil is forced by a pump operated by special connection with the regular Ford valve mechanism. No special tools are needed to install. We bought the several thousands of these oilers and are offering you the complete outfit way below any price we have ever seen elsewhere. Instructions furnished. Ship. wt., about 4 1/2 lbs. **61C2532—Price, Complete Outfit.....\$1.95**

Natural Vision Lenses

The bottom half bends the light rays downward completely flooding the road from side to side with a strong light that plainly shows up everything ahead for a long distance. The top half is of the diffusing type entirely breaking up the glare so does not interfere with motorists coming toward you. Size, 8 1/4 inches for Ford. Ship. wt., per pair, 4 lbs. **61C6883—Price, per pair.....\$1.25**

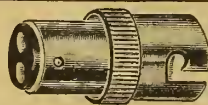
Spotlight Regulator

For 1916-1919 Fords. Transforms the current supplied by the magneto so that you use a regular 6-volt bulb in spotlight. Regardless of engine speed you will have a strong, steady, bright light. Makes bulbs last longer. Instructions included. Ship. wt., 4 oz. **61C2050—Price, each.....\$1.10**



Electric Double Bulb Tail Light for Fords

3-inch ruby lens lamp with equipment, includes one 3 V. bulb, one 18-24 V. bulb, 18 ft. wire, one switch with screws. Works off magneto when running—dry cells when idle. 3-inch ruby lens. Ship. wt., about 2 lbs. Dry cells not included. **61C2020—Price.....\$1.85**

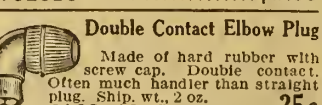


Brite-Lite Plug for Fords

Fits in right headlight socket. Doubles volume of light at all speeds. Keeps one light lit if other goes out. Ship. wt., 3 oz. **61C2056—Each.....68c**

Electric Head Lights

A high class head lamp. Stamped from one piece of extra heavy gauge steel, enameled with several coats of rust-proof black, baked on. Heavy French roll door, diameter, 9 inches. Parabola reflectors, highly silver plated with adjustable focusing device. 15 C.P. 9 Volt bulbs. Edison connections. Fits late 1915-19 Ford models. Ship. wt., 10 lbs. **61C2016—All Black Pair.....\$6.25**



Double Contact Elbow Plug

Made of hard rubber with screw cap. Double contact. Often much handier than straight plug. Ship. wt., 2 oz. **61C2013—Each.....25c**



Dash Lamp for Fords

3 1/4 inches from center of bulb to back of flange. It is specially constructed for the Ford dash. Furnished complete with 19-24 volt two point Edison bulb and switch. Ship. wt., 8 oz. **61C2012—Price, each.....90c**



Electric Tail Light

Ruby sapphire lens; white slide light to illuminate number; cut-out plug; 2 C. P. 6-volt double contact bulb. Black finish. Ship. wt., 12 oz. **61C2022—For Fords with Prop Bolt. Price.....85c**



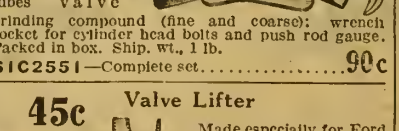
90c Valve Grinding Set

Includes valve grinder; spring compressor holds 2 springs at a time, two tubes valve grinding compound (fine and coarse); wrench socket for cylinder head bolts and push rod gauge. Packed in box. Ship. wt., 1 lb. **61C2551—Complete set.....90c**



Parts for Ford Lamps

For 1916-1920 models. Door complete with glass. Black enameled rims. Ship. wt., shown below. **61C2003—Headlight door 2 lbs. Each.....70c**
61C2004—Side light door 1 lb. Each.....43c
61C2005—Tail light door 1 lb. Each.....50c
61C2014—Oil light complete with burner. 10 ozs. Each.....80c
61C2025—Headlight reflector. Highly polished, silver plated, 12 ozs. Each.....\$1.05



45c Valve Lifter

Made especially for Ford car. Requires no holding while pin is removed. Serves double purposes as spring compressor. Made of malleable iron. Ship. wt., 1 1/2 lbs. **61C2556—Price, each.....45c**



Running Board Tool Box

Large carrying capacity. Save the space under your seat for side curtains and lin tubes. The box is constructed of steel, bl enamel. It is fitted with two trunk catch and a good lock. Size 22x9x7 inches. Ship. wt., 8 1/2 lbs. **61C2276—Price, each.....\$2.10**

Springs for Fords

Art. No.	Ford No.	Name of Part	Price
161C2907	3800	Front spring	\$2.50
161C2908	3824	Rear spring	50c

Ship. wt., 61C2907, 19 lbs.; 61C2908, 50 lb.

Differential Gears \$9.10

Special ratio differential pinion for the Ford. Either the 2 1/2-1 or 3-1 ratio. The 3-1 ratio gears are suitable where conditions permit 55 miles or more per hour. 4 to 1 gears are for truck use, require power and low speed. Gears are changeable with present gears. Changed quickly. Made of nickel gear steel. Ship. wt., 5 lbs. **61C2466—2 1/2 to 1 per set of 2.....\$9.10**
61C2467—3 to 1 per set of 2.....9.10
61C2478—4 to 1 per set of 2.....9.10

Dorr Miller Gearless Differential \$17.65

Eliminates side-way slipping and tendency to skid. Gives a positive drive to both rear wheels—all the advantages of a solid axle in straight-away driving. Over soft or uneven ground, power is delivered to the wheel having traction. Pulls out of bad spots where a car with the ordinary gear differential would be hopelessly stalled. Gives full power out of every atom of fuel. The saving in gas, oil and tires adds for itself several times over. Think of the added comfort and safety. Exceptionally valuable for winter driving. Comes complete, ready to install. Shipping weight, 20 lbs. **61C2463—For Fords.....\$17.65**
61C2464—Chevrolet No. 490.....17.65

Ball Thrust Bearings for Fords and Chevrolet 490

Keeps the gears together. Ordinary plain washers such as used in Ford and Chevrolet 490 rear axles wear thin and allow gears to separate which causes considerable trouble such as grinding, jerking, and breaking of differential gear teeth. Has a number of small hardened balls that keep rotating so there is scarcely any wear even after use for thousands of miles. Will fit perfectly either the Ford or Chevrolet 490, taking the place of the usual plain washers. Ship. wt., 1 lb. **61C2477—Price, complete.....\$1.95**

Handy Wheel Puller

Easy to disengage wheels that stick tightly with this puller. Made of malleable iron, accurately threaded. Steel set screw, round pointed, which prevents injury to axle. Ship. wt., 1 1/2 lbs. **61C2462—Price, each.....52c**



Art. No.	Ford No.	Name of Part	Price
61C2854	2803C	Front hub assembly, less flange.	\$2.25
61C2855	2815C	Rear hub, tapered, less flange.	1.40
61C2856	2819	Hub cap, brass.	.16

Ship. wt., each, 61C2854, 3 1/2 lbs.; 61C2855, 4 1/2 lbs.; 61C2856, 3 oz.

Handy Valve Grinder

Will fit under the dash on the last valve of any Ford car. Made of steel with wood handle. The pins are put in to stay. Shipping weight, 1 lb. **61C2554—Price.....28c**

Valve Refacer

It trims valve to exactly the right angle and cleans off pitted parts so valve seats tight. Blade made of tool steel. Ship. wt., 1 1/2 lbs. **61C2561—Price.....35c**

Valve Reseater

Used to ream out Ford valve seat. Quickly makes a clean even surface. Cutting blades made of carefully machined hardened steel. Length, 5 inches. Ship. wt., 6 oz. **61C2560—Price.....55c**



Majestic Paint Outfit

A regular master painters' outfit for all small cars. Put up so that any novice can use it with excellent results. The ingredients are of high quality. With it you can paint your car in a few hours and make a great saving. Contents: 1 qt. glossy black or green color finish; 1 pt. glossy Lamp food and Fender black; 1 qt. Leather Renewer and Top Dye; one 1-inch Rubberstet brush; one package waste. All packed carefully in a substantial box, with complete, easy instructions, telling exactly what to do from start to finish. Shipping weight, about 8 pounds.

61C9699—Black Paint Outfit..... \$4.45
61C9700—Green Paint Outfit..... 4.75



Paint Your Ford Tonight Drive it Tomorrow 80c

A wonderfully easy applying auto enamel that dries smoothly and dries over night. It leaves a finish which will not crack or chip, and does not show brush marks like ordinary paint. The finish is a glossy black and will resist heat and cold. Only one coat is needed to bring your car back to its original appearance. The Blaxshine outfit is complete, containing three pints of Blaxshine—two extra fine rubberstet brush—sandpaper—steel wool and a cup to pour the enamel in. Ship. wts., 3, 3, and 5 lbs.

61C2268—Pint Size Can..... \$0.80
61C2267—Quart Size Can..... 1.50
61C2266—Special Outfit..... 3.35



Stick-Tite Windows For Fords

Can be attached by anyone—anywhere in a few minutes. No tools necessary. Stick it on like a cementless inner tube patch. Attractive in appearance and, when once attached it practically becomes a part of your back curtain. Bound with auto rubber cloth. Complete, ready to attach, with full instructions. Ship. wt., 8 oz.

61C2703—Large size, 19x11 inches for 1917 and older models..... 85c
61C2719—Small size fits 1917-18-19-20 models having three small lights in rear. Size, 10 3/4 x 6 3/4 inches..... 60c



Rear and Side Curtain Lights

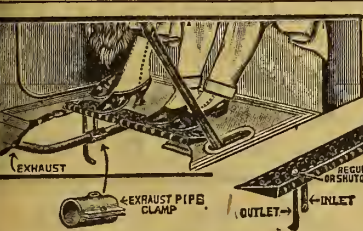
A new attachable flexible rear window. Firmly bound with black waterproof enameled duck. Bottom is arranged slot fashion to fit over curtain making window water-tight. Fits 1914-15-16-17-18-19-20 model cars having window shapes as illustrated. Measurements given below are over all. Ship. wt., 8 oz.

Rear Curtain Lights

61C2704—Rear Curtan Window, 11x18..... 55c
61C2705—Fits 1917-18-19-20 models having three small lights in rear curtain. 6 3/4 x 11 in. Price each..... 30c

For Side Curtains Only

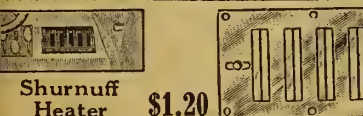
61C2778—Size, 7x20 in..... 60c
61C2779—Size, 10x14 in..... 60c
61C2781—Size, 6x10 in..... 32c



Exhaust Heater for Fords

Designed to attach easily to Ford exhaust. No upkeep cost. Nothing to get out of order. No odor—no noise—no back pressure. You are kept warm in the coldest weather. Regulator may be closed on warm days. A good buy for all Ford owners. Shipping weight, 6 pounds.

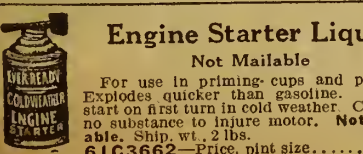
61C3650—Price..... \$3.50



Shurnuff Heater \$1.20

Utilize the heat from your exhaust pipe and engine when used in the rear heat is obtained from muffler. Drive in comfort during cold weather. Does not cost a single cent to operate. When heat is not required it may be shut off entirely. No connections to be made. Simply place heater in floor board. 9 3/4 in. long and 5 1/2 in. wide. Ship. wt., 1 1/2 lbs.

61C3649—Price, each..... \$1.20



Engine Starter Liquid Not Mailable

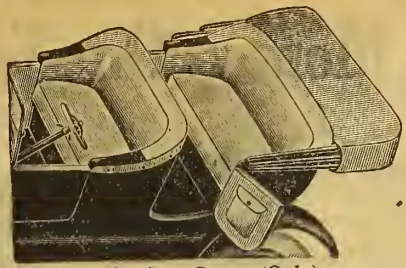
For use in priming-cups and primers. Explodes quicker than gasoline. Motor starts on first turn in cold weather. Contains no substance to injure motor. Not Mailable. Ship. wt., 2 lbs.

61C3662—Price, pint size..... 39c

Dress Up Your Ford

Use Slip Seat Covers and Top Dust Hoods

These covers completely change the appearance of the Ford seats—instead of a lot of leather rolls you have a clean, classy, comfortable and pleasant-looking inside that makes you actually feel proud of the improvement a few dollars have made. The women can wear their prettiest white dresses knowing that they will not have any dirt or grease spots to clean after the fide as is so often the case with regular leather coverings, on account of the dust and grime working down into the rolls thus being unnoticed. They are easy to keep clean as you can remove them quickly and wash them with soap and water, just like you do articles in the home. Splendidly made of a very high-grade double texture, olive color Mackintosh cloth, waterproof, bound and stitched. All seams reinforced with heavy fabric material. Arm rests are of patent leather. Outfit consists of a set of cover for seats, backs, arm-rests and doors. Top Dust Hoods are same material as seat covers. Either set can be easily and quickly fitted, as we furnish complete instructions, together with all necessary snap buttons and screw heads. State model desired. Ship. wt., Seat Covers, Touring, 12 lbs.; Roadster, 6 lbs.; Dust Hoods, 3 lbs.



Slip Seat Covers (Only)

61C2722—Touring 1913-19-20..... \$16.95
61C2723—Touring 1917..... 16.95
61C2724—Touring 1915-16..... 16.95
61C2725—Touring 1914..... 8.35
61C2729—Roadster 1917-18-19-20..... 8.35
61C2730—Roadster 1915-16..... 8.35

Top Dust Hoods (Only)

61C2733—Touring 1915-16-17-18-19-20..... \$4.85
61C2734—Touring 1914..... 4.85
61C2739—Roadster 1915-16-17-18-19-20..... 4.60

Pedal Pads

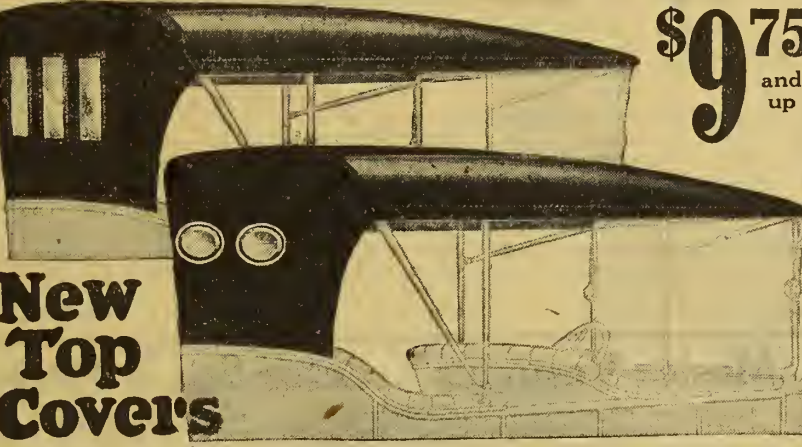
Made of durable rubber composition with metal cleats that fasten around pedal. Prevent feet from continually slipping off pedals. Can be attached in few minutes by any Ford owner. Ship. wt., 1 1/2 lbs.

61C2341—Set of Three..... 47c

Mats for Fords

Good quality: made of heavy fabric foundation which overcomes tearing. Ship. wt., 5 lbs.

61C2279—For 1914 and older models \$1.30
61C2280—For 1915-16-17-18-19-20 models \$1.30
Price, each..... \$1.30



New Top Covers \$9.75 and up

This outfit replaces worn out Ford tops. If your top has become shabby in appearance or worn and leaky, this New Roof Outfit will both restore its appearance and give you a top as good as new at about one-third the price of a complete top. Consists of a heavy black rubber cloth roof, back curtain and back stays, stitched and ready to slip over the Ford Touring Car or Roadster top frames. All fasteners and trimmings are furnished so any car owner can quickly and easily attach same. All that is necessary is to remove the tacks at the front and rear and take off the old top covering and back curtain. This outfit is cut to fit perfectly. Furnished for Roadster or Touring car models.

Roof Outfit with Three Flexible Lights

Touring Models. Ship. Wt., 14 Lbs.			Roadster Models. Ship. Wt., 8 Lbs.		
Art. No.	Year	Price	Art. No.	Year	Price
61C2745	Late 1912	\$12.45	61C2742	1914	\$9.75
61C2746	1913	12.45	61C2743	1915-16-17-18-19-20	9.75
61C2748	1914	12.45			
61C2747	1915-16-17-18-19-20	12.45			

61C2775—Cotton Mohair Slip Roof Outfit. Touring Cars only 1915, 1916, 1917, 1918, 1919, 1920. Price, complete..... \$13.95

Rubber Cloth Roof Outfit with Two Oval Plate Glass Windows

61C2740—Ford Roadster, 1915-16-17-18-19-20..... \$11.75
61C2741—Ford Touring, 1915-16-17-18-19-20..... \$13.95

Anti-Draft Shield 65c

An inexpensive necessity for comfort. Closes space between windshield and top of car. Fits snugly over front edge of top, and keeps out rain and snow. Made of heavy rubber coated auto cloth. Complete with fastenings. Ship. wt., 6 oz.

61C2613—Price..... 65c

Coil Protector Strip

Many Fords give lots of trouble when it rains, due to water leaking through to the coils making the engine miss and sometimes causing hours of delay. This Coil Protector, made of special composition, fits between the cowl and dash board, giving a lasting, tight, waterproof joint. You can put it in easily. Ship. wt., 10 oz.

61C2619—Price, each..... 35c

Windshield Rubber

A durable rubber fits between top and lower glass on the windshield of all Fords. Keeps out rain and snow. Ship. wt., 11 oz.

61C2616—35c

Draft Preventer

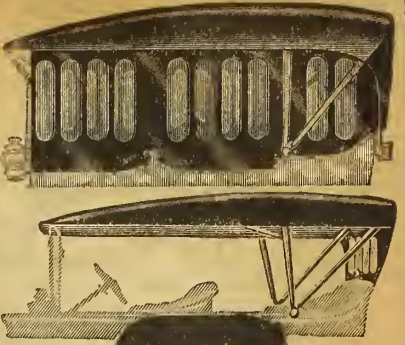
Two durable enameled cloth mats with felt padding in center. Mats fit in close around emergency brake and pedals. Ship. wt., 9 oz.

61C2606—Price, for both mats..... 68c

Engine Primer \$1.85

Highly polished nickel-plated cylinder, 3 3/4 in. long; diam. 2 in. Fits on dash. Sufficient pipe to reach manifold enables you to prime from seat. All attachments included. 1/4 in. pipe thread. Ship. wt., 10 oz.

61C3660—Price each..... \$1.85



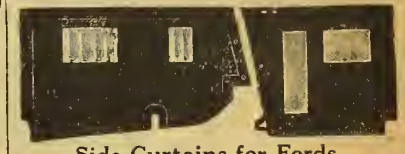
One Man Top for Fords

Easily and quickly raised by one person, without leaving the car. Top is lined with high grade waterproof cloth. Strongly reinforced with bows. Will hold its shape permanently under all weather conditions. Equipment similar to that of expensive cars. No rattling. Quickly attached curtains are furnished with top and are carried in pockets fastened to upper bows. For Touring Cars only. Ship. wt., 125 lbs.

61C2701—Cotton Mohair Top with side curtains and flexible rear window. Fits 1915-16-17-18-19-20..... \$42.75
61C2770—Heavy Rubber Cloth Top with curtains and flexible rear window. Fits 1915-16-17-18-19-20..... \$41.75
61C2771—Dust Hood to fit 61C2770 and 61C2772..... 4.25
61C2772—Dust Hood to fit 61C2701 and 61C2770..... 4.35

Special Mohair Top

61C2720—Cotton Mohair Top with Side Curtains. Back Curtain fitted with two plate glass lights, same as 61C2773..... \$44.75
61C2721—Rubber Cloth Top..... 43.75



Side Curtains for Fords

These curtains are made of excellent material and fit perfectly. The workmanship on these curtains is of the very best. The flexible windows are double sewed with a strong thread. Furnished complete with eyelets for attaching to your car. For Ford Touring Car Models only. Ship. wt., 6 lbs.

61C2706—Fits 1914 Right Front..... \$3.75
61C2707—Fits 1914 Left Front..... 3.75
61C2708—Fits 1914 Right Rear..... 4.45
61C2709—Fits 1914 Left Rear..... 4.45
61C2710—Fits 1915-16-17-18-19-20 Right Front..... 3.75
61C2711—Fits 1915-16-17-18-19-20 Left Front..... 3.75
61C2712—Fits 1915-16-17-18-19-20 Right Rear..... 4.45
61C2713—Fits 1915-16-17-18-19-20 Left Rear..... 4.45

Mohair Type Curtains

61C2777—Fits 1915-16-17-18-19-20 Mohair. Complete set of four..... 17.25

Back Curtains with Oval Plate Glass Windows

Complete rubber back curtains to fit all models of Ford Touring Cars from 1915 to 1920. Made of high grade rubber material to match Ford tops and furnished ready to be attached to your car. Fitted with two oval plate glass windows which will greatly improve the appearance of your Ford. Ship. wt., about 8 lbs.

61C2773—Price, each..... \$5.85

Rear Curtains

Fitted with three flexible lights. Will fit any Ford Touring Models, 1915 to 20. Match the regular Ford Top. Complete with all necessary fittings. Ship. wt., about 6 lbs.

61C2774—Rubber Curtain..... \$3.95
61C2776—Cotton Mohair Curtain..... 4.45

Three in One Curtain Lights for Fords

This complete section with flexible lights sewed in will repair the worst kind of tears. Attached by small cleats. Size, about 24x12 inches. Ship. wt., about 12 oz. Fits all Ford Roadster or Touring Models.

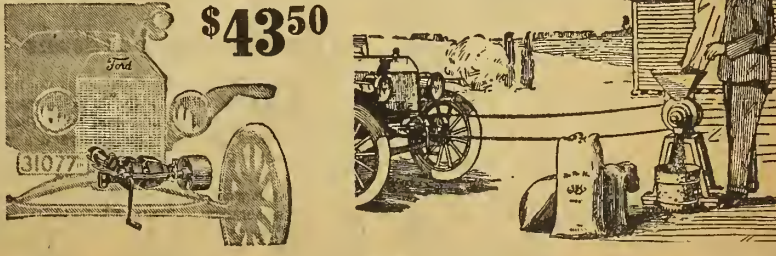
61C2782—Price, complete..... \$1.15

Make Your Ford Do Double Duty—Don't Let It Loaf

Grind Your Feed—Saw Your Wood—Pump the Water

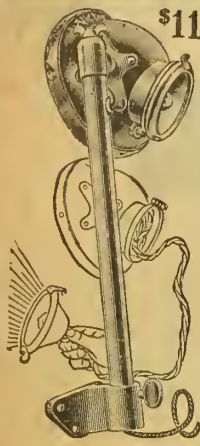
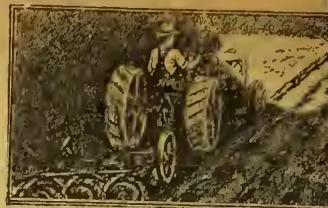
Harness your Ford to a Cllmax Power Transmitter and it will give you plenty of power for your farm work. It will do all kinds of work and save you time and money. The Transmitter takes the power directly off the crank shaft of the motor and so cannot harm the car. No loss of power and no overheating of the motor. Easily attached—no drilling. Detachable in a few minutes or you can drive with it on. Complete instructions regarding installation go to you with the machine. Ship. wt., 52 lbs. Constructed of high carbon steel.

261C5440—Complete, ready for attaching, including extra fan blades. Price \$43.50
Shipped from Warehouse in Wisconsin.





Here's Where You Save Money On Tractor Supplies



\$11.35 Tractor Lamp With Trouble Light

This lamp will enable you to keep your tractor on the job at night during the busy seasons. A special design reflector for tractor service throws a wide spread of light just where you need it and directs where to go. Will show up a furrow even better than in daylight. Reflector is fastened in with a special cord making it dust and rattle proof. A trouble lamp in the back with 10 feet of cord is a very convenient added feature. Fine olive drab finish. Comes with 21 C. P. nitrogen bulb for spot lamp and 1 C. P. bulb for rear trouble lamp. Shipping weight, about 10 lbs.

61C9999—With 6 volt bulbs. Fender type. Price, each. . . . \$11.35

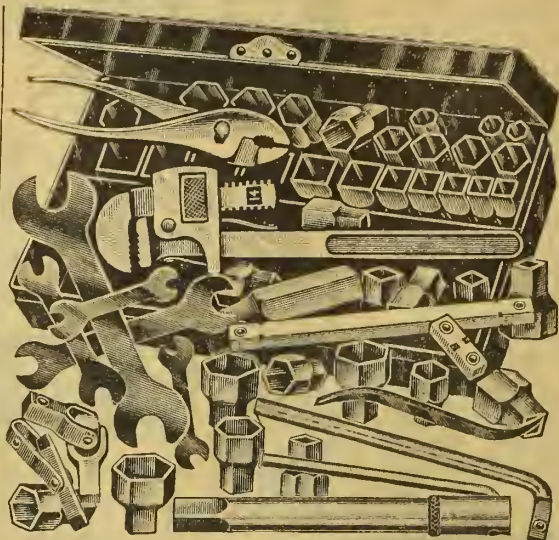
61C9993—Special to be used with Fordson magneto. Price, each. . . . \$11.35



\$8.85 Tractor Motometers

A motometer is a wonderful help to tractor drivers. This is a special model with big letters and a large tube containing red liquid so that temperature and condition can easily be seen from the seat. Operates like a thermometer. If the fan belt is slipping, the oil or water supply running low, the motor overheating on account of carbon or the gas mixture too rich, you tell it by the motometer, as the red liquid will go to the top, thus warning you before the cylinders are damaged or the bearings burnt out. Height above radiator cap, about 3 1/2 inches. Width, 3 inches. Ship. wt., about 1 1/2 lbs.

61C9987—Price, each. . . . \$8.85



\$16.85 Tractor Socket Wrench Set

A Big Help in Keeping Your Tractor Always on the Job

Here is a special set that probably will do more than anything else to keep your tractor on the job all the time. Hard-to-reach nuts, bolts and cap screws can be adjusted or tightened more quickly, and much more easily when you have this set. You can easily handle the out-of-the-way connecting rod nuts, crank case plate bolts and other places where it is nearly impossible to use ordinary wrenches. Set consists of one nickel-plated ratchet handle; one 14-inch steel handle Stillson pipe wrench; one pair 8-inch drop forged nickel-plated combination pliers; five flat wrenches (10 openings); one cotter pin extractor; one folding serewdriver; one universal joint; one long and one short extension rod; one offset socket wrench handle; one hexagon spark plug socket that fits standard 3/4-inch tractor plugs, and 38 guaranteed pressed steel sockets varying in size from 1/8 to 1 3/32 inches. Ship. wt., about 18 lbs.

61C9997—Price, Complete Set, in strong, steel case \$16.85

Gas and Electric Tractor Lamps

\$7.45

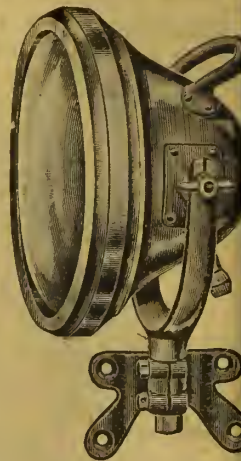


Illustration shows electric truck and tractor searchlight. Throws a large powerful white beam of light for a great distance. Can be used successfully to illuminate for night tractor plowing or at other field or road work. Mounted on heavy brackets, permitting the light to be directed in any position, and winged thumb nuts hold it fast. Handle on top. A large screw plate for attaching the lamp securely. Finished in black enamel. Fitted with double contact plug. Diameter, 11 1/2 inches. Over all height, 15 1/2 inches. For 6 volt. Ship. wt., 9 lbs.

61C9995—Electric Truck and Tractor Lamp. Black Finish. Each. . . . \$7.45

Gas Lamps

To be used with gas tank or gas generator. Swivels, method of attachment and appearance similar to the Electric Lamp. Black Enamel Finish. Diameter of lamp, 10 inches. Total height, 16 inches. Shipping weight, 11 lbs.

61C9996—Gas Truck and Tractor Lamp. Each. . . . \$7.50

Mosler 1/2 Inch Standard Tractor Spark Plug

Designed for the following tractors: Aultman Taylor, Models 18-36, Models 25-50, Models 30-60; Avery, Models 8-16, Models 12-25, Models 18-36, Models 25-50, Models 40-80; Bailor 8 H.P.; Beeman; Best; Buckeye; Burket; Emerson-Brantingham (All Models); Flour City; La Crosse; Leader, 12-18; Twin City, Model 25, Model 40, Model 60. Ship. wt., each about 8 oz.

61C9951—Price, each. . . . \$1.50

Mosler 3/4 Inch Long Tractor Spark Plug

This is the extension type, particularly suited to the needs of this make tractor. International Harvester, Models Mogul, Models Titan 8-16, Models Titan (All Sizes). Ship. wt., about 10 oz., each.

61C9952—Price, each. . . . \$1.50

Mosler 7/8 Inch S. A. E. Tractor Spark Plug

Allis Chalmers, Models 18-30; Twin City, Model 12, Model 16; Wallace Cub Junior. Ship. wt., about 8 oz., each.

61C9968—Price, each. . . . \$1.35

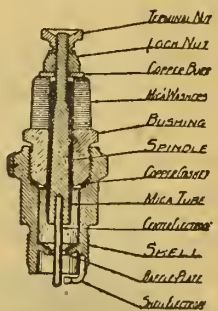
Mosler Vesuvius Tractor Spark Plugs

Mosler Spark Plugs are designed especially to meet the requirements of each tractor motor so you can absolutely depend on the type shown for your tractor. These plugs have two mighty important points—the two piece construction with heavy mica insulation and the baffle plate to protect the inner part of the plug against oil and heat. This carefully selected mica has proven wonderfully successful in resisting the intense heat of tractor motors that cracks so many porcelain plugs. It also eliminates plug troubles caused by severe vibration. Mosler plugs can be taken apart readily for cleaning so it is not necessary to buy a new plug when ordinary troubles occur, as is often required with one piece plugs. The electrodes are made of finest grade materials and designed so the heat will burn off all deposits of soot or oil. The next time you need plugs, be sure to order two or more Moslers.

Mosler 7/8 Inch Tractor Spark Plug

An entirely successful plug that will satisfy every owner of the tractors listed below. Note construction shown at left. Ship. wt., each, 10 oz.

61C9949—Price each. . . . \$1.50



How Mosler Tractor Spark Plugs Are Constructed

- Advance-Rumely
- All Models
- All Work
- Allis Chalmers
- Models 6-12
- Atlas
- Auto Tiller
- Automotive
- Avery 5-10
- Aultman Taylor 15-30
- Bailor 12-20
- Bullock
- Capital Case
- Models 9-18
- Model 10-20
- Cleveland
- Coleman
- Common Sense
- Dart J
- Dill
- Eagle
- Farmer Boy
- Gehl
- Gray
- G-O
- Huber
- Heider
- Illinois
- Indiana
- Lauson
- Liberty
- Nilson
- Parrett
- Plow Man
- Prattie Dog
- Russel
- Model Junior
- Model Little Boss
- Model Big Boss
- Samsen
- Sandusky
- Square Turn
- Turner
- Veile
- Wisconsin



61C9949 \$1.50 EACH

Mosler 1/2 Inch Long Tractor Spark Plug

The long extension on this plug carries the spark into the combustion chamber. Baffle plate construction protects insulation against oil and heat. For Fordson; Bull; Clifton; C.O.D.; Farm Horse; Ford Mfg. Co.; Moline (Old Models); Russel; Models 30-60, Models 40-80; Gil; U. S. Model B; Whitney; Wichita. Ship. wt., each about 10 oz.

61C9950—Price, each. . . . \$1.50



Mosler 1/2 Inch Extra Long Tractor Spark Plug

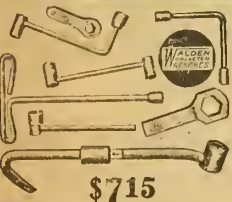
Users of the following tractors will find the baffle plate a big help in eliminating oil trouble. New Hart-Parr; Steel King; Waterloo Boy. Ship. wt., about 10 oz.

61C9953—Price, each. . . . \$1.50

Mosler 1/2 Inch Standard Tractor Spark Plug for Moline Universal

Same general construction as cross section shown in center illustration, absolutely reliable. Moline Universal. Ship. wt., about 8 oz., each.

61C9969—Price, each. . . . \$1.35

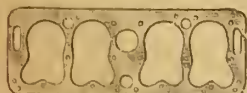


Walden No. 85 Set for Fordsons

\$7.15

This set will help you more in making easy repairs on your Fordson Tractor than any combination of wrenches we know of. It fits practically every difficult place on the motor, transmission, differential, clutch, radiator, steering or driving mechanism. There's no doubt but that this set will prove one of the very best investments you can make for your Fordson tool equipment. Set consists of 9 special wrenches in wooden box. Size, about 16x8x2 1/2 inches. Ship. wt., about 14 lbs.

61C9984—Complete set. . . . \$7.15

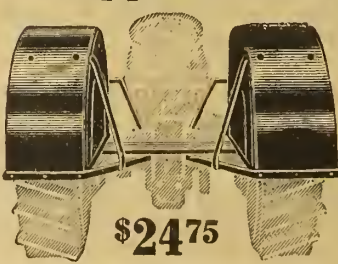


Cylinder Head Gaskets for Fordsons

Very high grade gaskets made of two sheets of copper with an asbestos center give a compression tight, leak proof joint between head and cylinders. Ship. wt., about 8 oz.

61C9994—Price, each. . . . \$1.00

Supplies for Fordson Tractors



\$24.75

Fenders for Fordsons

Protect the driver against injury from rocks or catching of arms, clothes, etc., on the flanges on the wheels. Prevent dust and mud being thrown all over. Braces are heavy so fenders are very rigid and will withstand practically all vibration. A board can be placed across lower braces so driver can stand on it when tired of sitting down. Complete with attachments. Shipped from factory in Central Iowa. Ship. wt., about 135 lbs.

261C9991—Price, per pair. . . . \$24.75



Canopy Tops for Fordsons

\$6.45

A great convenience as it gives protection from the hot burning sun. Also handy during rain storms. Made of heavy duck canvas held in shape by steel frame. When shade is not needed, loosen straps and fold up. Wood side supports set in cast iron sockets that bolt on top of fenders. Outfit is complete with canvas, steel frame, supports, four straps, and sockets. Shipped from factory in Central Iowa. Ship. wt., about 16 lbs.

261C9992—Price, each. . . . \$6.45

Piston Rings for Fordsons

To get the best service from your Fordson use our NU POWER piston rings size 4 1/4 inches, shown on page 890. Ship. wt., 6 oz., each.

61C9478—Price, each. . . . 85c

Wiring Outfits for Fordsons

All wires fitted with terminals and are cut to correct lengths to fit perfectly. Timer wires are enclosed in heavy braided cover and are different in color so it is easy to put them on. Ship. wt. of set, 1 lb.

61C9988—Complete set, 4 spark plug wires, 98c

61C9989—Timer wires only. . . . 56c

61C9990—4 Spark Plug wires only. . . . 46c

Heavy Duty Timers for Fordson

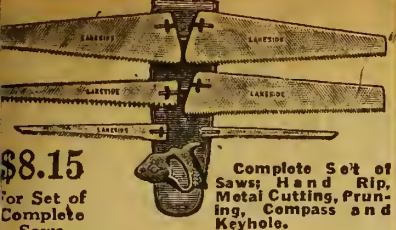
\$3.45

Entirely new design. A sure contact every time. No fibre ring to wear down or split and cause short circuits. Guaranteed to last as long as your tractor. Requires no oiling. Here's a great big help for Fordson owners to avoid ignition troubles—that waste time during busy season. Hardened roller contact always gives positive action. Buy this high grade timer and eliminate troubles from this source. Ship. wt., about 12 oz.

61C9983—Price, each. . . . \$3.45



Lakeside High Grade Set of Saws



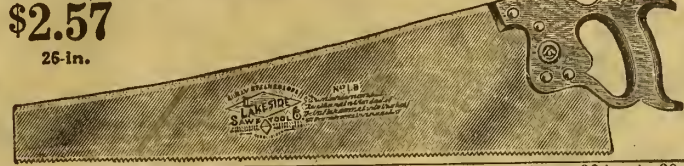
\$8.15
 Complete Set of Saws: Hand and Rip, Metal Cutting, Pruning, Compass and Keyhole.

C49—Set consists of one each, Lakeside brand in. Rip Saw Blade; one 18-in. Panel Saw Blade; one in. Pruning Saw Blade; one 13-in. Nail Cutting Saw Blade; one 12-in. Compass Saw Blade; one 10-in. Keyhole Saw Blade; one adjustable handle, which holds all blades firmly; one Khaki Case. Shipping weight, 4 lbs. Price, complete, **\$8.15**

Lakeside Hand Saws

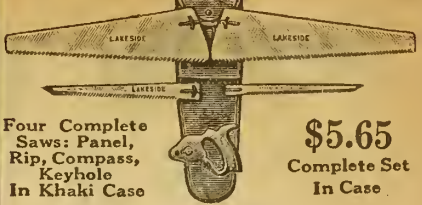
A Clean Fast-Cutting Saw—None Better. At Any Price. Style L 8

84C21—The popular Lakeside Hand Saw, No. L8. The ideal Saw for all around use, especially outside work. Thousands of these saws in daily use. Has skew back ground to a perfect taper. Extra refined spring steel, thin back hand hammered. High-gloss polish. Hand filed and hand set. Patent taper ground. Fine Applewood handle. Give size and point wanted.



Size	16-in. Panel	18-in. Panel	20-in. Panel	22-in. Panel	24-in. Hand	26-in. Hand	28-in. Rip
Points to inch	10	9	8, 9, 10	8, 9, 10	8, 9	6, 7, 8, 9	5, 6
Ship. wt., lbs.	11, 12	10, 12	11, 12	11, 12	10, 11	10, 12	5 1/2, 6
Each	\$1.87	\$1.99	\$2.25	\$2.37	\$2.45	\$2.57	\$2.58

Lakeside Handy Set of Saws



\$5.65
 Complete Set In Case
84C47—A set of Lakeside brand hand saws, comprising a detachable handle and four polished steel blades, one panel saw, 18 in.; one rip saw, 18 in.; one compass saw, 12 in.; one keyhole saw, 10 in. The blades are held rigidly in place by a lever on top of the handle, where it cannot interfere with the work. With Khaki case. Shipping weight, 1 1/4 lbs. Price, complete, **\$5.65**

Lakeside Saw No. L 112

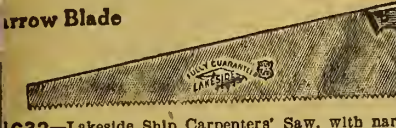
84C24—Lakeside Hand Saws, No. L 112. With Skew Back. Extra refined spring steel. Patent ground. Selected blade. Thin back. Hand-hammered. Hand-filed and set. Ready for use. Carved applewood handle. Brass screws. Beautifully polished and finished. The highest standard of excellence. Used principally on fine, close-fitting work.

Lakeside Saw No. L 7

C20—Lakeside Hand Saw, No. L7. Extra quality ground and tempered. Made from refined steel. Straight thin back. Hand-hammered. Brass screws. Hand-filed and set. Ready for use.

Size	22-in. Panel	24-in. Hand	26-in. Hand	28-in. Rip
Points to inch	9, 10, 12	8, 9, 10	7, 8, 9, 10, 11	5, 5 1/2, 6
Ship. wt., lbs.	3 1/4	4 1/4	4 1/4	4 1/4
Each	\$1.99	\$2.20	\$2.29	\$2.65

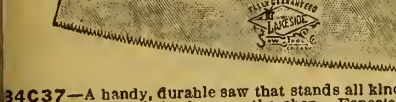
Lakeside Ship Carpenters' Saw



84C32—Lakeside Ship Carpenters' Saw, with narrow blade. A favorite with many mechanics. Extra refined spring steel, taper thin back, finely tempered, hand-hammered, hand-filed and set for use. Beech handle, brass screws. State point and size wanted.

Size	22-in. Panel	24-in. Hand	26-in. Hand	28-in. Rip
Points to inch	9, 10, 11, 12	8, 9, 10	7, 8, 9, 10, 11	5, 5 1/2, 6
Ship. wt., lbs.	3 1/4	4 1/4	4 1/4	4 1/4
Each	\$1.99	\$2.20	\$2.29	\$2.65

Lakeside Utility Saw



84C37—A handy, durable saw that stands all kinds of rough and arduous work around the farm or the shop. Especially adapted for any work such as bridge timbers and the squaring of planks and joists in lumber yards and docks. Also used by contractors in the construction of concrete framing and false work. The blade is of fine crucible steel, 18-gauge, with bevel filed teeth. Light, malleable on handle, well riveted. State size wanted.

Size	Points to inch	Ship. wt.	Each
22-in. Panel	9, 10, 11, 12	3 lb.	\$1.99
24-in. Hand	8, 9, 10, 11, 12	3 1/4 lb.	\$2.20
26-in. Hand	7, 8, 9, 10	4 lb.	\$2.29
28-in. Rip	5, 5 1/2, 6	4 lb.	\$2.65

Lakeside Saw No. L 100

\$2.70 26-in.

84C22—Lakeside Hand Saws, No. L 100. With Skew Back. Extra refined spring steel. Patent ground and tempered. Thin back. Hand-hammered. Hand-filed and set. Ready for use. Skew back. Carved applewood handle. Brass screws. Can be depended upon for fast, smooth cutting on interior finish. Give size, kind and point wanted.

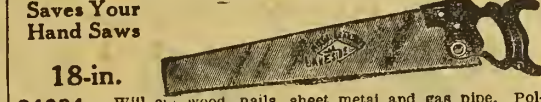
Size	22-in. Panel	24-in. Hand	26-in. Hand	28-in. Rip
Points to inch	9, 10, 11, 12	8, 9, 10	7, 8, 9, 10, 11, 12	5, 5 1/2, 6
Ship. wt., lbs.	3 1/4	4 1/4	4 1/4	4 1/4
Each	\$2.43	\$2.65	\$2.70	\$2.95

26-in. Lakeside Hand Saw No. L 30

\$3.35 Hollow Ground

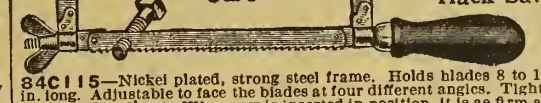
84C30—Lakeside Hand Saw to run without set. Narrow steel blade, 6 in. wide at the butt, 1 1/2 in. wide at the point, concave taper ground. Carved beech handle. Brass screws. Will run without set in any ordinary wood that is used for inside finishing. It is especially adapted for smooth cutting and where fine work and close joints are required. Ship. wt., about 3 lbs. Size, 26 in. blade, 8, 9, 10, 11, 12 points to an inch. Each. Give point wanted. **\$3.35**

Lakeside Nail Cutting Saw



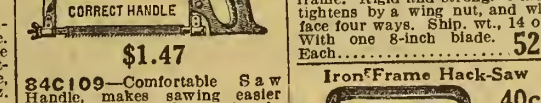
84C34—Will cut wood, nails, sheet metal and gas pipe. Polished steel blade. Applewood handle, brass screws. It can be filed, but does not require setting as it is taper concave ground. A desirable addition to any carpenter's kit of tools. Ship. wt., 3 lbs.; length of blade, 18 in. Each. **\$2.15**

Lakeside Nail Cutting Saw



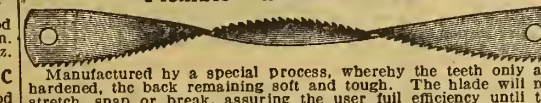
84C115—Nickel plated, strong steel frame. Holds blades 8 to 12 in. long. Adjustable to face the blades at four different angles. Tightens with thumb nut. When saw is inserted in position, it is as firm as a solid frame. Shipping weight, 1 pound. With one 8-in. blade. Each. **62c**

Extra Heavy Hack-Saw



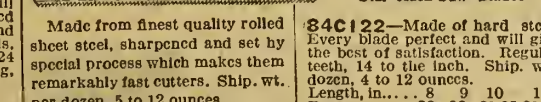
84C109—Comfortable Saw Handle, makes sawing easier. More accurate and lessens breakage of blades. Heavy, adjustable nickel-plated steel frame 4 1/2 in. deep. Holds blades 8 to 12 in. Blades tightened by wing nut. Will face four ways. Ship. wt., 1 1/4 lbs. With one 8-in. blade. Each. **\$1.47**

Standard Hack-Saw



84C100—Nickel-plated (steel) frame. Rigid and strong. Blade tightens by a wing nut, and will face four ways. Ship. wt., 1 1/4 lbs. With one 8-in. blade. Each. **52c**

Iron Frame Hack-Saw



84C112—Japanned iron frame, wood handle. The blade can be faced four ways. Ship. wt., 12 oz. With one 8-in. blade. Each. **40c**

Flexible Hack-Saw Blades

Manufactured by a special process, whereby the teeth only are hardened, the back remaining soft and tough. The blade will not stretch, snap or break, assuring the user full efficiency until the teeth are worn dull. Ship. wt., per dozen, 5 to 12 oz.

84C120—Regular teeth, 14 to the inch. For iron or steel.	8	9	10	12
Length, in.	8	9	10	12
Dozen	73c	79c	90c	\$1.00
Each	7c	8c	9c	10c

84C121—Fins teeth, 24 to the inch. For brass or tubing.

Length, in.	8	9	10	12
Dozen	80c	90c	\$1.05	\$1.20
Each	8c	9c	10c	11c

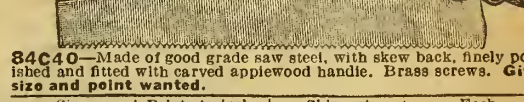
84C123—Length, 12 inches; width, 3/8 inch. Shipping wt., dozen, 18 ounces. **\$1.49**

Give kind, size and point wanted

Size	20-in. Panel	22-in. Panel	24-in. Hand
Points to inch	10, 11, 12	8, 9, 10, 11, 12	8, 9, 10, 11, 12
Shipping weight, lbs.	3 1/2	3 1/2	3 1/2
Each	\$2.45	\$2.69	\$2.72

Size	26-in. Hand	28-in. Rip
Points to inch	6, 7, 8, 9, 10, 11, 12	5, 5 1/2, 6
Shipping wt., lbs.	3 1/2	4
Each	\$2.79	\$2.98

Standard Saws



84C40—Made of good grade saw steel with skew back, finely polished and fitted with carved applewood handle. Brass screws. Give size and point wanted.

Size	Points to inch	Ship. wt.	Each
18-in. Panel	10	3 lb.	\$0.98
22-in. Panel	10	3 1/4 lb.	1.28
22-in. Rip	6	3 1/4 lb.	1.28
26-in. Hand	9, 10	4 lb.	1.58

Mitre Box Saw



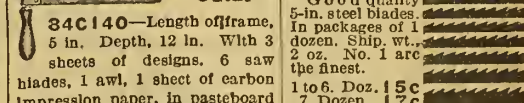
84C54—Extra heavy back. Applewood handle, brass screws, polished steel blade. Hand filed and set, ready for use. A perfect saw for close fitting. Length, 28 in. Width, 5 in. Shipping wt., 7 1/4 lbs. Each. **\$5.15**

Lakeside Back Saw

84C50—A fine stiff saw for accurate work. Extra spring steel, hand hammered with a stiff steel back, applewood handle, brass screws. Hand filed and set, ready for use.

Size	10	12	14	16
Ship. wt., lbs.	3/4	1 1/4	1 1/2	1 3/4
Each	\$1.95	\$2.35	\$2.65	\$2.72

Ball Bearing Coping Saw



84C130—Handle and blade revolve, or can be held perfectly rigid. Depth, 4 1/2 in. hardwood handle. Ship. wt., 12 oz. With three blades, 6 1/2 in. Ship. wt., per doz. blades, 3 oz. Each. **\$1.99**

Deep Bracket Saw Blades

84C132—Extra blades. Dozen. **.60**

Deep Bracket Saw and Outfit

84C142—Good quality 5-in. steel blades. In packages of 1 dozen. Ship. wt., 2 oz. No. 1 are the finest.

1 to 6. Doz. 15c
7. Dozen. 17c
8. Dozen. 18c
9. Dozen. 19c
10. Dozen. 20c

Saw Handle Screws

84C90—High grade screws with clean cut threads for any style hand saw. Diam. of cap, 1/2 in. Ship. wt., per dozen, 8 oz. Each. **5c**

84C91—Diam. of cap, 3/8 in. Ship. wt., per dozen, 8 oz. Each. **5c**

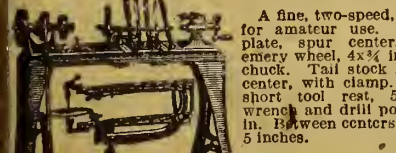
84C92—Diam. of cap, 1 in. Ship. wt., per dozen, 12 oz. Each. **10c**

Millers Falls Star Scroll Saw

184C172—Genuine Millers Falls Saw. Heavy drive wheel. Two balance wheels, one with an emery rim, give steadiness to the motion. Arms have a free and easy action and are adjusted so that they keep parallel with each other. With patent dust blower.

The frame is japanned and table is nickel-plated. Made of good materials and is sure to please. With 12 saw blades, 1 sheet of designs and 3 drill points. Ship. wt., boxed, about 70 lbs. Each. **\$15.35**

Millers Falls Goodell Lathe



A fine, two-speed, iron frame lathe for amateur use. With 2-in. face plate, spur center, screw center, emery wheel, 4 x 3/4 in., and steel drill chuck. Tail stock has a screw-feed center, with clamp. With long and short tool rest, 5 turning tools, wrench and drill points. Length, 24 in. 14-wheeler centers, 13 1/2 in. Swings, 5 inches.

184C175—With Scroll Saw, as illustrated, having table and blower and 12 saw blades. Ship. wt., 78 pounds. Each. **\$28.60**

184C174—Without Scroll Saw. Ship. wt., 70 lbs. Each. **\$27.10**

Goodell-Pratt Hack-Saw Blades

Made from finest quality rolled sheet steel, sharpened and set by special process which makes them remarkably fast cutters. Ship. wt., per dozen, 5 to 12 ounces.

84C124—Regular teeth. 14 to inch. For iron and steel.

Length, in.	8	9	10	12
Dozen	90c	95c	99c	\$1.30
Each	9c	10c	11c	12c

Star Hack-Saw Blades

84C122—Made of hard steel. Every blade perfect and will give the best of satisfaction. Regular teeth, 14 to the inch. Ship. wt., dozen, 4 to 12 ounces.

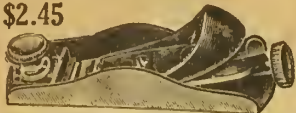
Length, in.	8	9	10	12
Dozen	80c	90c	\$1.05	\$1.20
Each	8c	9c	10c	11c

Heavy Blade for Power Saws.

84C123—Length, 12 inches; width, 3/8 inch. Shipping wt., dozen, 18 ounces. **\$1.49**

Lakeside Low Angle Block Planes

\$2.45



84C558—Lakeside No. 85. Japanned trimmings. Length, 6 inches. Cutter is fixed at a low angle, so it will work smoothly across grain, without chattering. Has all improved adjustments. Cutter, 1 1/2 in. Ship wt., 2 1/2 lbs. Each..... **\$2.45**

Double End Block Plane



\$1.70

84C574—Lakeside No. 137. Japanned finish. Length 8 inches. With two cutter seats. Reversing the position of the steel cutter, it can be used to plane close up into corners. Width, cutter, 1 1/2 in. Ship. wt., 2 1/2 lbs. Each..... **\$1.70**

Lakeside Block Plane

\$1.65



84C578—Lakeside No. 227. Japanned finish. Length, 7 in. Steel cutter has screw adjustment. Width, cutter, 1 1/2 in. Ship. wt., 2 1/2 lbs. Each..... **\$1.65**

Genuine "Gage" Self Setting Plane



A popular high-grade plane with rigid self-setting cutter that will not chatter. Easily adjusted for fine or coarse work. Made of seasoned beech wood, with an iron throat, adjustable for wear. Shipping wt., 4 1/2 to 7 lbs.
84C502—Size 2. Length, 10 in. Cutter, 1 1/2 in. Each..... **\$3.85**
84C503—Size 3. Length, 10 in. Cutter, 2 in. Ship. wt., 4 1/2 lbs. Each..... **\$4.20**
84C504—Size 9. Length, 14 in. Cutter, 2 in. Each..... **4.55**
84C505—Size 14. Length, 18 in. Cutter, 2 1/2 in. Each..... **5.20**
84C506—Size 17. Length, 22 in. Cutter, 2 1/2 in. Each..... **5.55**

Lakeside Wood Planes with Iron Tops



Same adjustments and cutters as Lakeside Iron Planes, only with Wood bottom.
 Smooth Plane Style No. 35, has a wood handle.
84C510—Style 24. Length, 8 in. Cutter, 2 in. Wt., 3 1/2 lbs. Each..... **\$2.75**
84C511—Style 35. Length, 8 1/2 in. Cutter, 2 in. Wt., 4 1/2 lbs. Each..... **\$3.50**
84C512—Style 26. Length, 15 in. Cutter, 2 in. Wt., 4 1/2 lbs. Each..... **\$3.15**
84C514—Style 28. Length, 18 in. Cutter, 2 1/2 in. Wt., 6 1/2 lbs. Each..... **\$3.85**
84C515—Style 31. Length, 24 in. Cutter, 2 1/2 in. Wt., 7 1/2 lbs. Each..... **\$4.15**

Stanley Dado Plane

\$3.85 Up

84C662—Stanley No. 39. Japanned iron frame. Cutter set on skew. Length, 8 in. With steel cutters. Ship. wt., 3 1/2 lbs. Size, in. 1/2 3/4 1 Each. \$3.85 54.20 54.40 54.55
84C663—Extra steel cutter for above, 3/4, 1/2, or 1 in. Sblp. wt., 4oz. Each..... **39c**

Stanley Circular Plane

\$7.90

84C642—The steel face is flexible and by means of knob at end of stock, concave or convex surfaces can be worked as easily as straight ones. Width of steel cutter, 1 1/2 in. Ship. wt., 4 1/2 lbs. Each..... **\$7.90**

Lakeside Tonguing and Grooving Plane



Iron body. Two separate steel cutters. Fence acts as guide for grooving.
84C668—For 3/4 to 1 1/2 boards. Each..... **\$4.90**
84C669—For 3/4 to 3/2 boards. Each..... **\$4.90**

Stanley Carriage Plane

84C650— Length, 9 in. Cutter, 2 1/2 in. Sblp weight, 4 1/2 lbs. Each..... **\$5.75**
84C651— Length, 13 in. Cutter, 2 1/2 in. Sblp. wt., 5 1/2 lbs. Each..... **\$6.90**

Bench Stop

84C391— Instantly adjusted. Reversible head. Made of steel. Nicely finished. Ship. wt., 1lb. **79c**

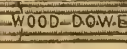
Stanley Doweling Jig

84C386— For quickly and accurately boring at end of stock. Held in edge, end or surface of work. Capacity up to 3 in. Also a good bit guide for mortising. With five steel guides, length 1 1/2 in. One each, 3/4, 1/2, 3/8, 1/4, 1/8 in. With depth gauge. Made entirely of metal. Nickel-plated. Sblp. wt., 1 1/2 lbs. Each..... **\$2.65**

Bench Stop

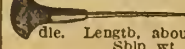
84C390— Attached to carpenter's bench for holding boards while planing, etc. Screw adjusting. Reversible steel plate may be raised up to 1 1/2 in. Ship. wt., 12 oz. Each..... **76c**

Wood Dowels



84C387— In bundles of 20. Length 18 inches. Ship. wt., about 1 lb. per bundle. Diam. in. 1/4 3/8 1/2 3/4 1 Each. 25c 28c 33c 35c 39c

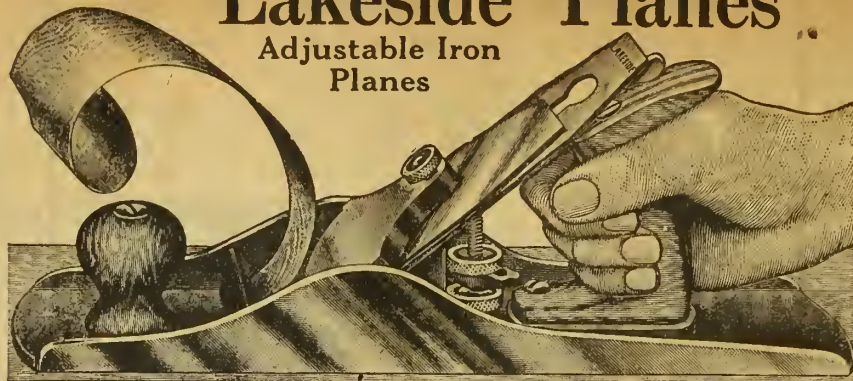
Socket Scratch Awl



84C2305 Steel blade, hardwood handle. Length, about 6 in. Sblp. wt., 4 oz. Each **25c**

Lakeside Planes

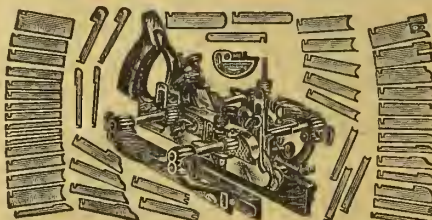
Adjustable Iron Planes



Lakeside Planes are of the very highest grade, with bottoms and sides accurately ground and polished, guaranteed true. Cutters are made heavy to prevent chattering when planing rough timber or knots and accurately tempered to hold their keen edge and sharpen easily on an oil stone or grinder. Improved thumb nut adjustment in rear, raises or lowers the cutter without removing it from its place. The lever shown under cutter moves it parallel with face of plane. Frame is of heavy Japanned iron, polished sides and bottom with a strong iron cap. Handle and knob choice grained hardwood, rosewood finish. We list both grooved and smooth bottom.

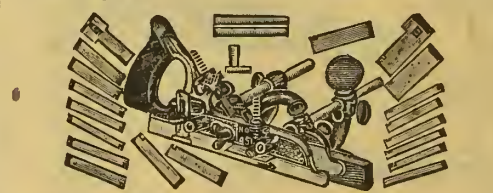
Style of Plane	Length In.	Width Cutter	Ship. Wt. Lbs.	Smooth Bottom	Each	Grooved Bottom	Each
Smooth No. 2	7	1 1/2	3 1/4	84C440	\$3.45		
Smooth No. 3	8 1/2	1 1/2	4 1/4	84C441	3.65		
Smooth No. 4	9	2	4 1/2	84C442	3.95		
Smooth No. 4 1/2	10	2 1/2	6	84C443	4.60	84C451	\$4.30
Jack No. 5	14	2 1/2	6	84C444	4.65	84C452	4.95
Jack No. 5A	14 1/2	2 1/2	7 1/4	84C445	5.20	84C453	5.50
Fore No. 6	18	2 1/2	8 1/4	84C446	6.80	84C454	7.25
Jointer No. 7	22	2 1/2	9 1/4	84C447	6.80	84C455	7.25
Jointer No. 8	24	2 1/2	10 1/4	84C448	8.00	84C456	8.60

Stanley's No. 55 Universal Plane



84C702—Stanley's No. 55 all metal parts, iron nickel-plated, handle and fences of selected hardwood—52 cutters. **\$30.10** Ship. wt., 15 1/2 lbs. Set.....
 This plane takes the place of a full assortment of so-called fancy planes. Practically any style of molding can be made. The body of the plane is equipped with guides, adjustments, screws, stops, gauges and everything necessary to correctly guide and safeguard your work. 52 cutters included in set with book of instructions.

Stanley's No. 45 Combination Plane



84C695—Stanley No. 45. Combines seven tools in one. Fitted with an adjustable fence, a depth gauge, and spurs. Each plane is accompanied by seven beading tools (1/2, 3/8, 1/2, 5/8, 3/4, 7/8 and 1 in.); ten plow and dado bits (1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 1 in.); a slitting blade; a tonguing tool, 1/2 in.; a sash tool, 1 1/2 in. and Fillister Cutter, 1 1/2 in. Sblp. wt., 9 1/2 lbs. Nickel-plated finish. Complete directions. Set (with 21 tools)..... **\$15.25**

Stanley Combination Plane No. 50, with 15 Cutters

\$9.18

84C672—Made of iron. Nickel-plated with 15 tool steel cutters. Plane 9 1/2 in. long. Combined Beading, matching Dado, and Plow plane. Consists of a main stock with a spur and depth gauge. A sliding section with spur and fence with a 5-in. adjustment. Complete with 7 plow and dado bits, 1/4, 3/8, 1/2, 5/8, 3/4, 1/2 and 1 in. Beading cutters, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 and 1 in. matching cutters. Sblp. wt., 5 lbs. Set complete..... **\$9.18**

Stanley's Traut Adjustable Plow No. 46

84C665—Dado and Fillister Plane. Frame is nickel-plated iron. Tool steel cutters. Length, 10 in. Sblp. wt., 6 lbs. **\$10.50** Set.....
 Set consists of a main stock and sliding section. Adjustable fence and guide with depth gauge, also with spurs for working across grain. Eight plow and dado bits, 1/4, 3/8, 1/2, 5/8, 3/4 and 1 1/2 in. and 1 1/2 in. Fillister cutter; slitting tool; 1/2 in. tonguing tool. Sblp. wt., 2 lbs.
84C666—Extra steel cutters. Set of 11 pieces. **\$3.65**

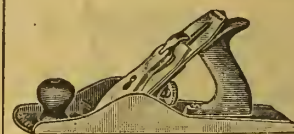
Stanley Scrub Plane

Single steel cutter. Adapted for roughing down work before using a jack or other plane. **84C652—** Length, 9 1/2 in. Width, cutter, 1 1/2 in. Ship. wt., 3 1/4 lbs. Each..... **\$2.35**
84C653— Length, 10 1/2 in. Width, cutter, 1 1/2 in. Sblp. wt., 3 1/2 lbs. Each..... **\$3.20**

Stanley Side Rabbet Plane

For side rabbeting and trimming dados, moldings and grooves. Iron, nickel-plated finish. Ship. wt., 20 oz. **84C687—** Right hand. Each..... **\$2.10**
84C688— Left hand. Each..... **2.10**

Stanley-Bailey Iron Planes
Smooth or Grooved Bottom



Stanley Rule and Level Co.

Best quality steel cutters, adjustable endwise and sidewise. Smooth or grooved bottom.

Style of Plane	Length In.	Width Cutter	Av. Ship. Wt. Lbs.	Smooth Bottom		Grooved Bottom	
				No.	Each	No.	Each
Smooth No. 2	7	1 1/2	3 1/4	84C480	\$4.10	84C490	\$4.60
Smooth No. 3	8 1/2	1 1/2	4 1/2	84C481	4.25	84C491	5.00
Smooth No. 4	9	2	5	84C482	4.70	84C492	5.50
Smooth No. 4 1/2	10	2 1/2	6	84C483	5.40	84C493	6.25
Jack No. 5	14	2 1/2	6	84C484	5.40	84C494	6.25
Jack No. 5 1/2	15	2 1/2	7 1/2	84C485	6.05	84C494	6.80
Fore No. 6	18	2 1/2	8 1/4	84C486	6.93	84C495	7.40
Jointer No. 7	22	2 1/2	9 1/2	84C487	7.89	84C496	8.40
Jointer No. 8	24	2 1/2	10 1/4	84C488	9.40	84C497	10.10

Stanley Bed Rock Planes
Smooth Bottom

Stanley Rule and Level Co.

A high-grade tool for fine work on all woods. English steel cutters, adjustable sidewise and endwise. With Smooth Bottom.



Style of Plane	Length In.	Width Cutter	Av. Ship. Wt. Lbs.	Number	Each
Smooth No. 604	9	1 1/2	5	84C471	5.20
Jack No. 605	14	2	6	84C472	6.00
Jack No. 605 1/2	15	2 1/2	7 1/2	84C473	6.50
Fore No. 606	18	2 1/2	8	84C474	7.60
Jointer No. 607	22	2 1/2	9	84C475	8.80
Jointer No. 608	24	2 1/2	11	84C476	10.30

Stanley Rabbet Plane

84C659 Stanley No. 190 Rabbet Plane. Length 8 in. Width 1 1/2 in. Steel cutter. Sblp. wt., 3 1/2 lbs. Each..... **\$3.15**

Stanley Rabbet Plane and Fillister **84C655** Stanley No. 78 Iron Plane. Length 8 1/2 in. 1 1/2 in. Steel cutter. Ship. wt., 4 1/2 lbs. Each **\$3.55**

Bull-Nose Rabbet Plane **84C685—** For planing into corners. Length, 4 in. Width of steel cutter, 1 in. Adjustable throat. Ship. wt., 1 1/2 lbs. Each..... **75c**

Buckeye Self Setting Plane



Grooved Bottom
Cap and bit can be removed in an instant and dropped back into place together, as bit will cut exactly the same thickness shaving as before.

Length In.	Cutter In.	Sblp. wt. lbs.	Number	Each
9 1/2	2	3 1/2	84C457	\$3.90
14	2	3 1/2	84C458	4.50
18	2 1/2	5	84C459	5.30

Stanley Router Planes

\$3.45 **\$4.35**

No. 680 Closed Throat **No. 681 Open Throat**
 For smoothing the bottom of groove, other depressions parallel with surface of work, also to rout out mortises for sash frame pulleys, etc. Made of iron nickel-plated with 2 tool steel cutters, 1/2 and 3/8 in. Hardware. Length, 7 1/2 in. Ship. wt., about 3 1/2 lbs.
84C680— Closed throat. Set..... **\$3.45**
84C681— Open throat. Set..... **4.35**

Gauge for Iron Planes

84C710— Ready clamped to any iron plane to accurately plane bevvels of any angle. Ship. wt., 2 lbs. Each..... **\$1.35**

84C714— Stanley Gauge for Iron Planes. For accurately planing bevvels between 30 and 90 degrees. Ship. wt., 2 1/2 lbs. Each..... **\$2.25**

Gauge for Wood Planes

84C712— Will fit any wood plane. Either bevveling or joining made quickly and accurately a completed. Ship. wt., 2 lbs. Each..... **\$1.10**

Thousands of Satisfied Customers Use Our Chisels

59c to \$1.29

Lakeside

Extra Quality, Bevel Edge Socket Firmer Chisels. A chisel that will please the most critical mechanic.

Blades made from the finest tool steel, tempered by a patent process. This assures a perfect cutting edge. Are finely finished in every detail. Full size 1-inch blades, accurately beveled edges and ground sharp ready to use. Handles are selected white hickory with leather tips.

Prices for Separate Chisels

84C810—Lakeside Bevel Edge Socket Firmer Chisels as described. Ship. weight, 6 to 26 ounces.						
Size, inches.....	1/8	1/4	3/8	1/2	5/8	3/4
Each.....	59c	65c	73c	79c	82c	84c
Size, inches.....	1 1/8	1 1/2	1 3/4	1 7/8	2	2 1/4
Each.....	93c	95c	\$1.05	\$1.13	\$1.22	\$1.29

Lakeside Short Chisels

84C814—Preferred by many to the regular long blades. Bevel edges. Ground sharp. Leather top. Hickory handles. Lgth. of blade, about 4 1/2 in. Ship. wt., 4 to 20 oz.

Size, in.....	1 1/2	2	2 1/2	3	3 1/2	4
Each.....	65c	77c	83c	90c	1.15	1.25

84C815—Set of Six Chisels. Ship. wt., per set, 3 1/2 lbs. **\$5.45**

Chisel Set

84C880—Set of 6, Socket Chisels with beveled edges. Short blades, about 1/2 in., and leather tipped handles. One 1/2 in., 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 in. Ship. wt., 4 lbs. **\$6.55**

Hard Wood Chisel Handles

84C862—For socket framing chisels. W 1 1/2 in. heavy iron ferrule tip. Ship. wt., 4 oz. **8c**

84C864—For socket firmer chisels. Leather tipped. Ship. wt., 4 oz. **15c**

84C863—For angled chisels. Leather tipped. Brass ferrule. Ship. wt., 5 oz. **19c**

84C865—For socket framing chisels. Leather tipped. Ship. wt., 5 oz. **17c**

Lakeside Floor Scraper

84C724—For scraping wood floor surfaces and general woodwork. Hardwood handle; iron socket. With 3-in. steel blade. Length, 14 inches. Ship. wt., 2 1/2 lbs. **\$1.19**

Stanley No. 82 Cabinet Scraper

84C729—For scraping and smoothing woodwork. Length, 14 1/2 inches. Outer, 3 in. Ship. wt., 2 1/2 lbs. **\$1.47**

Cabinet Scraper

84C726—For scraping and smoothing woodwork. Japanned iron frame. Length, 11 inches. Blade 2 1/4 inches. Ship. wt., 2 pounds. **\$1.35**

Extra Quality Scraper

84C735—For scraping wood surfaces. Finest crucible steel polished. Edges ground true and square. Size 3x6 in. Ship. wt., 4 oz. **40c**

84C734—Polished saw steel assorted sizes up to 6 in. long. Ship. wt., 4 oz. **12c**

Rapid Floor Scraper

84C740—Has a special tool steel knife and handle adjustable to different heights. Rubber-tired wheels prevent scratching. Width, 6 in. The knife extends across entire width to get close to the wall or base board into corners. Ship. wt., 130 pounds. **\$13.85**

84C741—Extra knives. Ship. wt., 10 oz. **75c**

Lakeside Socket Framing Chisels

84C822—Heavy and strong. Crucible steel blades, length about 8 in. Carefully tempered, and well finished. Hickory handle, iron ferrule. Ship. wt. range from 3/8 to 2 1/4 lbs.

Size, in.....	3/8	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4
Each.....	\$0.83	\$0.85	\$0.92	\$1.01	\$1.10	\$1.20	\$1.33	\$1.47	\$1.75

Handled Firmer Chisels

84C840—Lakeside steel blade with tang. Tempered and polished, ground sharp. With hickory handle. Length, blade, 3 1/2 to 5 1/2 in. Ship. wt., 4 to 18 oz.

Size, in.....	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4
Each.....	47c	49c	58c	59c	63c	69c	75c					

Wood Carving Set

84C892—With 6 high-grade tools, steel blades, length about 2 1/2 in. Polished, hardwood handles. A popular set that will help you to do light work satisfactorily. Neat wood box. Ship. wt., 1 lb. **\$3.42**

Carpenters' Slick

84C830—Extensively used by ship carpenters. Length, about 10 in., complete with polished hardwood handle. Ship. wt., 4 1/2 to 7 lbs.

Width, blade, in.....	2 1/2	3	3 1/4	4
Each.....	\$3.90	\$4.45	\$5.30	\$6.25

Sand Paper

84C2400—Flint or Sand Paper. The No. 00 is the finest. Full size sheets, 9x11 in. Ship. wt., per quire 1 to 3 lbs.

No. Grit	Half Ream (240 Sheets)	Quire (24 Sheets)
00	\$3.35	38c
0	3.40	39c
1/2	3.50	40c
1	3.70	42c
1 1/2	4.00	45c
2	4.45	52c
2 1/2	6.30	68c
3	7.15	76c

Emery Cloth

84C2405—24 sheets to a quire. No. 00 is the finest. Ship. wt. per quire range 1 1/2 to 3 lbs. Sheets, 9x11 in.

No. Grit	Quire 24 Sheets	Sheets
00	\$2.35	9c
0	2.45	10c
1/2	2.50	10c
1	2.60	12c
1 1/2	2.80	14c
2	3.17	14c

Sand Paper and Emery Cloth

84C2402—An assorted package of best flint, sand paper and emery cloth. Ten sheets in all, size, 9x11 in. Ship. wt., 12 oz. **39c**

Stanley Adjustable Scraper Plane

84C645—For scraping veneers or cabinet work, paint, glue, etc. Length, 9 inches. Width, 2 1/2 in. Ship. wt., 5 lbs. **\$4.59**

84C646—Extra steel cutter. **40c**

84C647—Extra cutter for toothing (22, 28 or 32 teeth per inch). Give Style) Each **59c**

Lakeside Bevel Edge Chisels

84C811—Six Lakeside Bevel Edge Chisels. One each 1/4, 3/8, 1/2, 3/4, 1, 1 1/4 and 2 in. Blades are forged from finest tool steel. Correctly tempered and well finished. Handles are selected white hickory, with leather tips. Full size 6 in. blades ground sharp. Full size plain box. Ship. wt., 5 lbs. **\$5.25**

84C812—Twelve Lakeside Bevel Edge Chisels. One each, 1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, and 2 in. Ship. wt., 8 1/2 lbs. **\$10.45**

Stanley Chisel Set

84C818—Stanley No. 110—Blades of finest tool steel, 4 1/2 inches long. Carefully finished, perfectly tempered. Will take a keen edge and hold it. Sizes, are 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 inches. Handles are finely finished hardwood. Tang projects through handle and is finished with a polished steel cap. Furnished in strong brown canvas roll with pockets, flaps and straps. Ship. wt., 4 lbs. A very desirable set. **\$8.60**

Razor Blade Drawing Knife

84C895—Forged from crucible steel finely tempered and polished. Has hardwood handles with tangs extending through and securely riveted over a steel cap.

Length, blade inches.....	8	10	12
Ship. wt., lbs.....	1 1/2	1 3/4	2
Each.....	\$1.60	\$1.87	\$2.15

Perfect Handle Drawing Knife

84C896—Made from a solid piece of crucible steel, drop forged and fitted with the patent Perfect handles of water-proofed hardwood. The blade is solid steel, can be ground and used clear to the back.

Length, blade, in.....	8	10	12
Ship. wt., lbs.....	2	2 1/4	2 1/2
Each.....	\$2.20	\$2.49	\$2.79

Lakeside Drawing Knife

84C898—The arms run through the handles and are riveted on the ends. Will not pull off. Best tool steel, finely finished. Hardwood folding handles. Held rigid with thumb nut. Shipping weight, 1 1/2 to 2 pounds.

Size, inches.....	8	10	12
Each.....	\$2.65	\$2.95	\$3.25

Knob Handle Draw Shave

84C912—Draw shave with palm fitting knob handles of close grained hardwood. Polished steel blade, 4-inch. A convenient tool for the carpenter or householder.

Ship. wt., 15 oz. Each.....	75c
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Lakeside Socket Framing Chisels

84C825—Beveled edges, Best quality steel, finely tempered and finished. Fast cutters. Hickory handle, iron ferrule. Length, blade, about 8 in. Ship. wt., 1 to 2 lbs.

Size, in.....	1 1/4	1 1/2	1 3/4	2
Each.....	\$1.48	\$1.53	\$1.58	\$1.68
Size, in.....	1 1/4	1 1/2	1 3/4	2
Each.....	\$2.09	\$2.19	\$2.34	\$2.49

Outside Bevel Firmer Gouges

84C841—Lakeside gouges with tang, length of blade about 4 inches. Tempered, polished, and sharpened. Hickory handles. Ship. wt., 5 to 10 oz.

Size, in.....	1 1/4	1 1/2	1 3/4	2
Each.....	65c	72c	75c	77c
Size, in.....	1 1/4	1 1/2	1 3/4	2
Each.....	65c	72c	75c	77c

Professional Wood Carving Set

84C893—Contains 13 extra quality steel tools. Length of blade, 3/4 to 4 1/2 in. Sharpened ready for use. Polished hardwood handles. Packed in fine oak case with spring holder for each tool. This set can be put to a great number of uses. Ship. wt., 4 lbs. **\$11.95**

Hollow Leather Punch

84C2242—For cutting round holes in leather, rubber, cardboard, heavy cloth, etc. Four revolving tools, assorted sizes. Cast steel, polished. Length, about 8 in. Ship. wt., 1 lb. **\$1.34**

Six-Tube Spring Punch

84C2243—Six steel tubes, assorted sizes. Length, about 9 in. For cutting round holes in leather, rubber, cardboard, heavy cloth, etc. Forged steel handle. Ship. wt., 1 1/2 lbs. **\$1.47**

Bernard Leather Punch

84C2252—Extra tubes (to screw), Nos. 1 to 6. Ship. wt., 3 oz. Lgth., 3/8 in. State size. Each..... **25c**

Spoke Shave

84C900—Steel cutter, 2 1/2 in. Japanned iron frame. Raised handles. Shipping weight, 12 oz. **40c**

84C903—Japanned iron frame, two steel cutters, convex and straight. Ship. wt., 12 oz. **60c**

84C905—Beechwood handle brass set screws. Steel cutter, 2 1/4 in. Ship. wt., 9 oz. **\$1.28**

84C908—Goodell Steel Shave will work in smaller circles than any other. Hardwood handles. Either can be removed to work in cramped places. Ship. wt., 10 oz. **\$1.42**

Adjustable Spoke Pointer

With graduated adjustable shank. Steel cutter. Japanned iron body. Ship. wt., 1 1/2 lbs.

84C1210—Size, 1. Diameter, 2 1/2 inches. Length, 4 1/2 inches. 98c
84C1211—Size, 2. Diameter, 2 1/4 inches. Ea \$1.25

Lakeside Corner Chisels

84C828—High-grade steel blades, length, about 8 in., with socket handle. With hickory handle, iron ferrule. A reliable, well made tool for finishing out corners smoothly.

Size, in.....	3/4	1
Ship. wt., lbs.....	1 1/2	2
Each.....	\$2.85	\$3.20

Chisel Set

84C878—Set of 12 C. E. Jennings' Socket Firmer Chisels with bevel edge. One each, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2 in. Selected white hickory handles, leather tipped. Ship. wt., 12 lbs. **\$14.25**

Lakeside Plain Edge Chisel

Lakeside Standard Socket Firmer Chisels. Made from fine crucible tool steel, tempered by an improved process finished in the best possible manner. Thousands in use and giving perfect satisfaction. With selected white hickory handle. Full size 6-in. blade. Ground sharp.

84C804—Lakeside Socket Firmer Chisels as described above. Ship. wt., 5 to 25 oz.						
Size, in.....	1/4	3/8	1/2	3/4	1	1 1/4
Each.....	48c	50c	54c	58c	60c	63c
Size, in.....	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/4
Each.....	67c	69c	77c	84c	92c	96c

Chisel Grinder

84C866—For holding chisel or plane irons to the grindstone at the correct angle. Ship. wt., 1 1/2 lbs. **\$1.49**

Carpenters' Pincers

84C2235—Forged steel. Extra quality. Polished jaws. Combines nail puller, screwdriver and tack claw. Ship. wt., 10 to 22 oz. (Give size.)

Size, in.....	6	8	10	12
Each.....	48c	60c	72c	85c

Tinners' Snips

84C2362—For cutting sheet metal—rope, wire, etc. Hide-grade. Blades laid with tempered cutlery steel. Forged steel, japanned handles. Size cut, 3 in. Length, 12 in. Ship. wt., **\$2.43**

2 lbs. Each..... **\$2.43**

Size, cut, 3 1/2 in. Length, 14 in. Ship. wt., 3 lbs. Each..... **\$2.82**

Handy Pocket Snip

84C2363—Size cut, 2 in. Length, 7 in. A new and popular size. Highest quality forged steel, with blades of extra tempered steel for cutting sheet metal, wire, etc. Attractively finished. Ship. wt., 12 oz. **98c**

Drop Forged Tinners' Shears

84C2365—Made of solid drop-forged steel, carefully tempered. A fine shear for cutting sheet metal. Size cut 3 in. Length, 12 in. Ship. wt., 2 lb. **\$1.23**

Circular Cutting Shears

84C2370—For cutting sheet metal, wire, etc., straight or curved work. Blades are straight, with sharp points; back is beveled to allow material to pass freely. Best forged steel. Size, 3-in. cut. Lgth., 12 1/2 in. Ship. wt., 2 lbs. **\$2.85**

METAL DRILLS and FILES



Straight Shank Twist Drills

For Metal Boring to Chucks made to hold Round Shanks

84C1060—Best tempered steel. For chucks made to hold round shanks. Shanks are the same diameter as the drill. (See our complete sets with stand shown below.) Ship. wt., 1 to 5 oz.

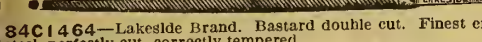
Diam. in.	1/16	3/32	1/8	5/32	3/16	7/32	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Length, in.	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2
Each.	10c	11c	11c	11c	11c	11c	12c	12c	12c	12c	12c	12c	12c
Diam. in.	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4
Length, in.	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/4	6 1/2
Each.	13c	15c	16c	18c	19c	21c	22c	24c	25c	28c	30c	32c	35c
Diam. in.	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2
Length, in.	4 1/4	4 3/4	5	5 1/4	5 1/2	5 3/4	6	6 1/4	6 1/2	6 3/4	7	7 1/4	7 1/2
Each.	24c	25c	28c	30c	32c	35c	38c	41c	44c	49c	54c	59c	64c
Diam. in.	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	5 1/4
Length, in.	5 1/4	5 3/4	6	6 1/4	6 1/2	6 3/4	7	7 1/4	7 1/2	7 3/4	8	8 1/4	8 1/2
Each.	41c	44c	49c	54c	59c	64c	69c	77c					

Lakeside Mill File



84C1460—Bastard Cut. Square edges. Lakeside brand. Finest crucible steel, perfectly cut, correctly tempered. Single Cut.					
Size, in.	4	5	6	8	10
Ship. wt., doz., lbs.	3 1/4	1 3/4	1 3/4	3 1/4	3 1/4
Each.	\$0.14	\$0.15	\$0.16	\$0.17	\$0.17
Dozen.	1.58	1.69	1.87	1.99	1.99
Size, in.	10	12	14	16	22
Ship. wt., doz., lbs.	6	10	14	22	22
Each.	\$0.25	\$0.33	\$0.48	\$0.65	\$0.65
Dozen.	2.88	3.90	5.55	7.55	7.55

Lakeside Round Bastard File



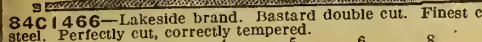
84C1464—Lakeside Brand. Bastard double cut. Finest crucible steel, perfectly cut, correctly tempered.					
Size, in.	4	5	6	8	10
Ship. wt., doz., lbs.	1 1/2	1 1/2	1 1/2	2 1/4	2 1/4
Each.	\$0.14	\$0.15	\$0.16	\$0.20	\$0.26
Dozen.	1.68	1.80	1.92	2.40	3.12

Lakeside Half Round Bastard File



84C1465—Lakeside brand. Bastard double cut. Finest crucible steel, perfectly cut, correctly tempered. Double Cut.					
Size, in.	6	8	10	12	12
Ship. wt., doz., lbs.	4	4	7 1/2	12	12
Each.	\$0.28	\$0.34	\$0.41	\$0.52	\$0.52
Dozen.	3.15	3.85	4.70	6.10	6.10

Lakeside Square Bastard File



84C1466—Lakeside brand. Bastard double cut. Finest crucible steel. Perfectly cut, correctly tempered.					
Size, in.	4	5	6	8	10
Ship. wt., doz., lbs.	1 1/2	1 1/2	1 1/2	2 1/4	2 1/4
Each.	\$0.19	\$0.22	\$0.25	\$0.34	\$0.43
Dozen.	2.15	2.40	2.90	3.90	4.90

Lakeside Horse Rasp



84C1488—High-grade crucible steel.			
Size	Ship. wt.	Each	Doz.
12 in.	25 oz.	36c	\$4.15
14 in.	30 oz.	50c	5.35
16 in.	34 oz.	66c	7.60

Heller Bros. Horse Rasp



84C1490—Special crucible steel.			
Size	Ship. wt.	Each	Doz.
12 in.	1 1/2 lbs.	42c	
14 in.	2 1/4 lbs.	59c	
16 in.	2 3/4 lbs.	77c	

Lakeside Slim Horse Rasp



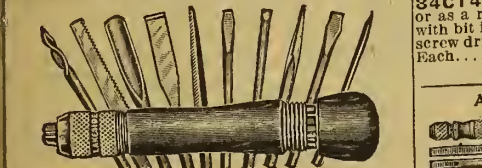
84C1489—Finest steel, carefully tempered. Length, 18 in. Ship. wt., each, 3 lbs. Each.	73c
Dozen.	\$8.58

Lakeside Tanged Horse Rasp



84C1491—Regular Pattern. Finest steel, carefully tempered. Sure to please.			
Size	Ship. wt.	Each	Doz.
12 in.	12 in.	14 in.	
Ship. wt., doz., lbs.	1 1/2	2	
Each.	48c	65c	
84C1493—Slim Pattern. Size 16 in. Ship. wt., 2 1/4 lbs. Each.		83c	

Lakeside Quality Tool Chest



84C1334—Hollow handle set of 10 high-grade tools, made with shanks to fit into the strong steel chuck. Handle of close grained rosewood finish, hardwood, hollowed to hold tools when not in use. One each, gimlet, saw, gouge, chisel, file, wide and narrow, screwdriver bit, leather punch, bradawl and wood reamer. Average length of tools, 4 inches. Handle, 7 1/2 inches. Ship. wt., 22 oz.	\$1.99
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Tool Set



84C1330—Polished hardwood rosewood finish handle. Contains 10 tools as illustrated. Lgh. of handle, 5 1/2 in. Ship. wt., 9 oz.	\$1.39
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Pocket Screw Driver



84C1437—Tempered steel, 1 1/2 in. blade. Hardwood handle. Length, 3 1/2 in. Ship. wt., 3 oz.	27c
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\$2.48 Goodell-Pratt Automatic Screw Driver With 3 Blades



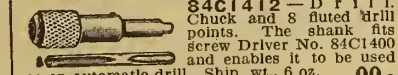
84C1400—Goodell-Pratt. Style 111. A strong, practical tool. For right or left hand work automatically or as a ratchet or a solid screw driver. Mechanism is simple, efficient and durable. Length, extended, with bit in place, 18 in. Length, closed, with bit removed, 10 inches. Complete with three polished screw driver bits. A handsome, well finished fast working tool. Ship. wt., 1 1/2 lbs. Each. \$2.48 (For Drill Attachment See No. 84C1412.)

Automatic Spiral Screw Driver



84C1402—Millers Falls Style 41. Spiral grooves are one deeper than the other to prevent wear. Adjustable right, left or stationary. Length, extended, 20 in. Three bits, 3 in. long, two double end, giving five points in all. Steel, with hardwood handle. Ship. wt., 27 oz. Each.	\$3.45
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Screw Driver-Drill Attachment



84C1412—Drill Chuck and 8 fluted drill points. The shank fits screw driver No. 84C1400 and enables it to be used as an automatic drill. Ship. wt., 6 oz. Each.	99c
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Ratchet Screw Drivers

84C1448—Goodell-Pratt make. Ratchet action is changed from right to left or to rigid by turning knurled ferrule. Tempered steel blades, polished hardwood handle. Ship. wt., 8 to 16 ounces.	
Blade, in.	2 4 5 6 8 10
Total lgh., in.	4 1/2 5 1/2 6 1/2 8 1/2 10 1/2 14 1/2
Each.	75c 98c \$1.00 1.15 1.25 1.48

Round Shank Metal Drills

Best quality twist drills for blacksmith and power machines. Accurately ground to exact size, fast cutting, tough and durable. Carefully inspected. Drills up to 1/2 in. are 4 1/2 in. long, and drills larger than 1/2 in. are 6 in. long. Ship. wt., 2 to 16 oz. Made with either 1/2 or 3/8 in. round shank.

84C1055—Width 1/2 in. shank.					
Size, in.	1/8	3/32	1/4	5/32	3/16
Each.	33c	35c	38c	42c	46c
Size, in.	3/8	1/2	5/8	3/4	7/8
Each.	61c	65c	68c	72c	76c
Size, in.	1	1 1/8	1 1/4	1 1/2	1 3/4
Each.	\$1.12	1.14	1.22	1.29	1.37
Size, in.	2	2 1/8	2 1/4	2 1/2	2 3/4
Each.	\$1.52	1.60	1.67	1.75	1.83
84C1056—With 3/8 in. shank.					
Size, in.	1/8	3/32	1/4	5/32	3/16
Each.	38c	42c	46c	54c	55c
Size, in.	3/8	1/2	5/8	3/4	7/8
Each.	68c	72c	76c	80c	87c
Size, in.	1	1 1/8	1 1/4	1 1/2	1 3/4
Each.	\$1.12	1.14	1.22	1.29	1.37
Size, in.	2	2 1/8	2 1/4	2 1/2	2 3/4
Each.	\$1.52	1.60	1.67	1.75	1.83

Machinists' Round Shank Twist Drill Sets

84C1062—Set of 29 Drills with finely finished Metal Stand. With holes numbered corresponding to drills. Sizes of drills from 1/16 in. to 1/2 in. inclusive, by 64ths. Length, 2 1/2 to 6 1/2 in. Ship. wt., 4 1/2 lbs. Set.	\$11.95
84C1064—Set of 60 drills with numbered metal stand. Sizes from No. 1 to 60 wire gauge. Ship. wt., 4 lbs. Set.	\$10.75

Lakeside Mill File—One Round Edge



84C1461—Lakeside brand Bastard cut, single round edge. Finest crucible steel, perfectly cut, correctly tempered. Single Cut.					
Size, in.	6	8	10	12	14
Ship. wt., doz., lbs.	1 1/2	1 1/2	2 1/4	2 1/4	2 1/4
Each.	\$0.19	\$0.22	\$0.25	\$0.28	\$0.32
Dozen.	2.00	2.50	3.00	3.30	3.80
Size, in.	10	12	14	16	22
Ship. wt., doz., lbs.	7	10	15	22	22
Each.	\$0.29	0.38	0.53	0.65	0.75
Dozen.	3.25	4.35	6.15	7.80	9.00

Slim Taper Saw Files

84C1480—Single cut on three sides. Finest steel, perfectly cut.					
Length, in.	3 in.	4 in.	5 in.	6 in.	7 in.
Ship. wt. doz.	5 oz.	7 oz.	8 oz.	10 oz.	13 oz.
Dozen.	\$1.05	\$1.20	\$1.25	\$1.35	\$1.55
Each.	.10	.11	.12	.13	.14

Regular Taper Saw Files

84C1478—Single cut on three sides. Finest steel, perfectly cut and correctly tempered.					
Length, in.	3 in.	4 in.	5 in.	6 in.	7 in.
Ship. wt. doz.	1 lb.	1 1/4	1 1/2	2 1/4	4 lbs.
Dozen.	\$1.10	\$1.15	\$1.40	\$1.80	\$2.28
Each.	.10	.11	.12	.18	.21

Extra Slim Taper Saw Files

84C1481—Single cut three sides.					
Lgh. Ship. wt. doz.	Dozen	Each			
4 in.	4 oz.	\$1.15	11c	7 in.	17 oz.
5 in.	8 oz.	1.25	12c	8 in.	25 oz.
6 in.	4 oz.	1.65	15c	9 in.	35 oz.
				10 in.	41 oz.
					\$1.80
					2.00
					2.30
					2.60

Lakeside Cant Saw Files

84C1472—Single cut. Finest crucible steel, perfectly cut and tempered.					
Length	Ship. wt.	Dozen	Each		
6 in.	2 1/2 lbs.	\$2.92	28c		
8 in.	4 1/2 lbs.	3.55	33c		
10 in.	7 lbs.	4.65	42c		

Lakeside Pit Saw Files

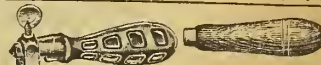
84C1474—Semi-circular shape. Single cut on both sides.					
Length	Ship. wt.	Dozen	Each		
6 in.	2 1/2 lbs.	\$3.40	33c		
8 in.	4 1/2 lbs.	3.98	39c		

Handy Auger Bit File

84C1485—For filing all sizes auger bits without filing the screw and lip away. Extra Quality Steel. Length, about 7 in. Ship. wt., each 1 oz.	\$0.18
Dozen.	2.05

Colton's Steel File Cleaner

84C1504—Steel bristles and steel picker. Length, 7 1/2 in. Ship. wt., 10 oz. Each.	49c
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Iron File and Tool Handle	Soft Wood File Handles
84C1500—Iron japanned. Thumb screw holds a file or other small tool. Length, 5 in. Ship. wt., 9 oz. Each.	84C1495—Metal ferrule. Assorted. Ship. wt., doz., 1 lb. Each.
12c	4c
	Dozen. 42c



Steel Clad File Handles	84C1494—Steel ferrule. Holds file perfectly solid. Ship. wt., ea., 5 to 9 oz.
For Files, in.	Lgh. in.
4 to 5	4
6 to 8	4 1/2
10 to 12	5
14 to 16	5 1/2
	7c
	10c
	12c
	14c

Standard Screw Drivers

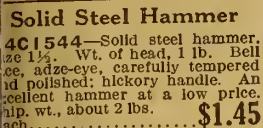
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Guaranteed Lakeside Tools

Lakeside tools are the highest grade forged from finest crucible steel carefully tempered and tested. The designs are the result of careful study of requirements and preference of critical workmen. Correctly proportioned, and will give you the service you are entitled to.



Lakeside Bell Face Hammer
Forged from crucible steel, correctly tempered, perfect taper claw. Extra quality hickory handle. Ship. wt., about 2 lbs.
4C1528—Size 1½. Wt., of head, 1 lb. Each.....\$1.73



Solid Steel Hammer
4C1544—Solid steel hammer, size 1½. Wt. of head, 1 lb. Bell eye, adze-eye, carefully tempered and polished; hickory handle. An excellent hammer at a low price. Ship. wt., about 2 lbs. Each.....\$1.45



Lakeside Plain Face Nail Hammer
Forged crucible steel. Ship. wt., about 1½ lbs.
4C1524—Size 1; wt. of head, about 1½ lbs. Each.....\$1.73
4C1525—Size 1½; wt. of head, about 1 lb. Each.....\$1.68



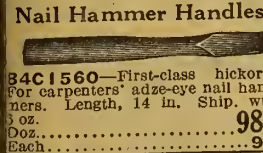
Solid Steel Hammer Plain Face
Steel adze-eye nail hammer. Polished finish with hickory handle. A good substantial nail hammer at moderate price. Ship. wt., about 1½ lbs.
4C1540—Size, 1 head, 1½ lbs. Each.....\$1.47
4C1541—Size, 1½ head, 1 lb. Each.....\$1.40



Stanley Nail Hammers
Stanley No. 12. Crucible steel, all polished with bell face. Claws rip and hold nails firmly. Best hickory handle. Ship. wt., about 1½ lbs.
4C1559—Wt. of head, 1½ lbs. Each.....\$1.68
4C1561—Wt. of head, 16 oz. Each.....\$1.73



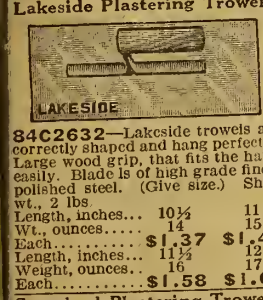
Lakeside Ripping Hammer
4C1530—Nail hammer. Lakeside Bell Face. High-grade forged steel. Polished finish with straight claw for ripping. Best hickory handle. Wt. of head, 1 lb. Ship. wt., about 1½ lbs. Each.....\$1.77



Nail Hammer Handles
4C1560—First-class hickory. For carpenters' adze-eye nail hammers. Length, 14 in. Ship. wt., 2 lbs. Doz.....98c Each.....9c



Brick Hammers
4C2663—For breaking, cleaning and laying bricks. Forged steel, black finish. Length of head, about 7 in. Ship. wt., 2 lbs. Price.....\$1.44



Lakeside Plastering Trowels
4C2632—Lakeside trowels are correctly shaped and hang perfectly. Large wood grip, that fits the hand easily. Blade is of high grade finely polished steel. (Give size.) Ship. wt., 2 lbs.
Length, inches.....10½ 11
Wt., ounces.....14 15
Each.....\$1.37 \$1.49
Length, inches.....11½ 12
Wt., ounces.....16 17
Each.....\$1.58 \$1.67



Standard Plastering Trowels
4C2634—Good grade steel, finely finished. Ship. wt., 2 lbs.
Length, inches.....10 11 12
Weight, ounces.....15 18 20
Each.....87c 90c 98c



Brick Chisel
4C2660—Forged Tool Steel for cutting brick. Width, 4 inches. Ship. wt., 2 lbs. Weight, 1½ lbs. Each.....79c



Highly Polished and Nickel Plated.

\$2.38

"LAKESIDE" HAMMER

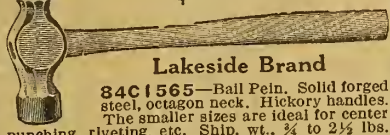
Nickel Plated Finish

Guaranteed to pull any size nail or brad with or without head that is within the capacity of the claw. Hammer has the proper hang and proper curve to the claw. Claws will grip the most stubborn nail. A good hammer is the cheapest in the end. Carefully fitted with extra quality hickory handle wedged in so it cannot come out. One of the finest hammers made. Ship. wt., about 2 lbs.

4C1523—Size, 1½, octagon head, nickel-plated. Wt., of head, 1 lb. Each.....\$2.48
4C1520—Size, 1, octagon head, nickel-plated. Wt. of head, 1½ lbs. Each.....\$2.38

Machinists' Ball Pein Hammer

\$1.19 up



Lakeside Brand
4C1565—Ball Pein. Solid forged steel, octagon neck. Hickory handles. The smaller sizes are ideal for center punching, riveting, etc. Ship. wt., ¾ to 2½ lbs. Polished face and ball.
Size.....3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Head, oz.....3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
Each.....\$1.19 \$1.23 \$1.27 \$1.36 \$1.47 \$1.57 \$1.67

Machinists' Hammer Handles

4C1566—Clear hickory. Length, 18 in. Ship. wt., each, 8 oz. Doz.....\$1.25 Each.....12c

Machinists' Perfect Hammers

\$1.10

4C1568—Drop forged steel in one piece with a waterproof wood handle pocketed in and securely riveted. A valuable addition to the mechanic's or automobilist's tool kit. Total length, 10 in. Diameter of face, 1 in. Weight, with handle, 18 oz. Ship. wt., 1½ lbs. Each.....\$1.10

Riveting Hammer

4C1570—Correctly shaped for riveting. Handy for driving brads, tacks, etc. Forged steel head, tempered and finely polished. Fine hickory handles. Ship. wt., 1 to 2½ lbs.
Size.....1 2 3
Head, oz.....7 8 10
Each.....\$1.18 \$1.22 \$1.45

Riveting Hammer Handles

4C1571—Turned hickory, well finished. Length, 15 in. Ship. wt., 5 oz. Dozen.....\$1.10 Each.....10c

Plow or Engineer's Hammer

\$1.47

4C1574—Lakeside Brand. For heavy work on iron, steel and all kinds of metal. Made with cross pein for riveting. Solid forged steel head correctly tempered, smooth polished finish. With strong hickory handle. Ship. wt., 2 and 3 lbs.
Size 1. Wt. of head, 1 lb. 2 oz. Each.....\$1.47
Size 2. Wt. of head, 2 lbs. Each.....1.55

Tuck Pointing Tool

4C2654—For pointing mortar. Face, ¾, ¾, ¾, ¾, ¾ or ¾ inch. Ship. wt., 6 oz. (Give size) each.....44c

Brick Jointer

4C2656—Steel round on one end and square on the other. Length, 7½ in. Ship. wt., 6 oz. Each.....55c

Wood Hawk

4C2647—Selected Cedar stock with reinforced dovetailed crosspiece. Detachable handle. Size, 13½x13½ in. Ship. wt., 2 lbs. Each.....\$1.24

Masons' Line

4C2670—Size, 4½ in. Diam. ½ in. Solid braided line. Does not kink. In hanks of 48 ft. Ship. wt., 4 oz. One hank.....58c

Chalk Lines

4C2667—Ball of 100 ft. Ship. wt., 6 oz. One ball.....25c

Fibre Head Mallet

Head of tough fibre with metal bands. Handles screw in. Head, 5½ in. long.
4C1610—Diam., abt. 2½ in. Wt., 1½ lbs. Ship. wt., 2 lbs. Each.....\$1.23
4C1612—Diam., abt. 3 in. Wt., 2½ lbs. Ship. wt., 2½ lbs. Each.....\$1.49

Square Wood Mallet

4C1613—Hickory Head, abt. 2¾x3¼ in. Wt., 1½ lbs. Ship. wt., 2½ lbs. Each.....68c

Round Wood Mallet

4C1618—Solid Hickory Head about 3¾ in. Wt., 2½ lbs. Each.....69c

Magnetic Tack Hammer

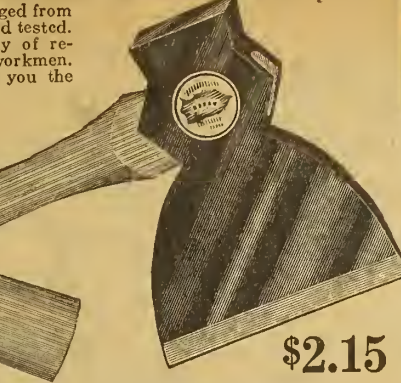
4C1600—Point magnetized to hold tacks, brads, pins, etc., thus driving without holding difficult places. Extra quality. Polished tempered steel. Ship. wt., 8 oz. Each.....89c

Adze Handles

4C1766—Made of selected young growth hickory. Lgh., 34 in. Ship. wt., 1½ lbs. Each.....49c

Axe Handle Wedges

4C1770—Lgh., 2½ in. Ship. wt., per doz., 1½ lbs. Doz.....54c Each.....5c



"LAKESIDE" BROAD HATCHET

Rust Resisting Black Finish

4C1650—Best forged crucible steel bit holds its keen edge. Large polished hammer head. Most popular pattern hatchet for mechanics' use. Smooth black finish. Perfect hang, correct grip. Extra quality white hickory handle. Ship. wt., 3 to 4 lbs.

Size	Weight of Head	Width Bit	Each
2	1 lb 12 oz.	4½ in.	\$2.15
3	2 lb. 2 oz.	5 in.	2.49
4	2 lb. 8 oz.	5½ in.	2.79

Lakeside Lath Hatchet

Extra quality solid steel lath hatchets. Thin blades, full grip, handles. Ship. wt., abt. 2 lbs.
4C1662—Square checkered head. Bit, 2½ in. Each.....\$2.67
4C1664—Round Pole, smooth head. Bit, 2 in. Each.....\$2.25

Standard Lath Hatchet

4C1668—Forged steel. Smooth black finish. Hickory handle. Ship. wt., abt. 2 lbs. Size 1. Width, 2½ in. Wt. head, 10 oz. Each.....\$1.23

Ship Adze

4C1725—Used by ship carpenters for chipping heavy timber. Refined steel bit, keen edge with spur head. Black finish. Width, 4½ in. Wt., 4 lbs. Each.....\$3.15

Assst. Sand Paper and Emery Cloth

4C2402—Package of best flint, sand paper and emery cloth. Ten sheets in all. size, 9x11 in. Ship. wt., 12 oz. Package.....39c

Sand Paper

4C2400—Size 9x11 in. Ship. wt., 1 to 3 lbs. No. grit 00 0 ½ 1 1½ 2 2½ 3 24 Shis. 38c 39c 40c 44c 52c 59c 68c 76c

Emery Cloth

4C2405—Size 9x11 in. Ship. wt., 1 to 3 lbs. No. grit 00 0 ½ 1 1½ 2 2½ Sheet 9c 10c 11c 12c 12c 13c 14c

Lakeside Claw Hatchet

4C1648—Forged crucible steel, smooth polished and bronze finish. Best hickory handle. Ship. wt., about 2½ to 3½ lbs.
Size 1. Width of bit, 3½ in. Wt. of head, 1½ lbs. Each.....\$1.76
Size 2. Width of bit, 4 in. Wt. of head, 1½ lbs. Each.....\$1.82

Lakeside Shingling Hatchet

Smooth Black Finish
4C1640—Extra forged steel. Polished and bronzed finish. Hickory handles. Ship. wt., 1½ to 2½ lbs.
Size 1. Width, bit, 3½ in. Wt. head, 17 oz. Each.....\$1.55
Size 2. Width, bit, 4 in. Wt. head, 1½ lbs. Each.....\$1.63

Lakeside Half Hatchet

4C1658—Extra crucible steel. Polished and bronzed finish with hickory handle. Ship. wt., about 2 lbs.
Size 2. Width of bit, 3½ in. Wt. of head, 1 lb. 2 oz. Each.....\$1.69
Size 3. Width of bit, 4 in. Wt. of head, 1 lb. 13 oz. Each.....\$1.75

Lakeside Half Hatchet

4C1656—Haines pattern, adze eye, round head, solid steel. Thin blade, full polished hickory handle. Ship. wt., about 2½ lbs.
Size 1. Width of bit, 3½ in. Wt. of head, 14 oz. Each.....\$2.25

Lakeside Flooring Hatchet

4C1652—For laying floors etc. Wide, flat hammer head. Forged. Smooth black finish. Hickory handle. Ship. wt., about 3 lbs. (Give size.)
Size 1. Width of bit, 3½ in. Each.....\$2.25
Size 2. Width of bit, 4½ in. Each.....\$2.49

Hatchet Handles

4C1675—Turned hickory handle. Ship. wt., 2 lbs. Length, 13 in. Each.....10c
4C1676—Length, 15 in. Each.....14c
4C1677—Length, 17 in. Each.....16c

Steel Center Groover

4C2690—Steel center rib increases durability and cutting qualities. Nickel plated iron. Curved ends. Length, 6 in. Ship. wt., 1½ pounds. Each.....65c

Sidewalk Groovers

4C2680—Curved Ends. Nickel-plated iron. Size, 5½x2 in. Ship. wt., 1½ lbs. Each.....54c

Sidewalk Groovers

4C2682—Makes wide groove Size, 9x3 in. Ship. wt., 2 lbs. Each.....75c

Sidewalk Groovers

4C2685—Nickel-plated iron. Straight at one end, for running groove into sharp corner. Size, about 6x3 inches. Ship. wt., 1½ lbs. Each.....55c

Cement Roughing Rollers

4C2702—Nicely finished. Size, 3½ x 10 in. With handle. Ship. wt., 11 lbs. Each.....\$4.23

Lakeside Quality Axes Recommended by Good Woodsmen

Easy Chop Axes
Western Pattern

\$2.52

84C1689—Lakeside Easy Chop Axe, Western pattern. Square head. Width of bit, about 5 in. Refined steel, carefully tempered with keen cutting bit, that holds its edge, smooth black finish. Ship. wt., 4 to 6 lbs. Weight Each
3 lbs. **\$1.75**
3½ lbs. **1.80**
4 lbs. **1.85**
4½ lbs. **1.90**



Lakeside Special Axes

Our Lakeside Special Axe is a tool which will please and satisfy the most critical woodsman. A top notch quality axe in every respect. Made of high-grade forged steel, accurately shaped, carefully tempered, and finished in a handsome jet black finish. Flint edge, hand honed, ready for use, accurately fitted with selected best quality white hickory handles. Octagon shape. Width of bit, 4½ inches.

184C1679—Single Bit with finest grade hickory handle. Ship. wt., about 5 to 7 lbs. Wt. of head, lbs. 3 3½ 4 4½
Each... **\$2.52 \$2.59 \$2.65 \$2.69**
84C1680—Single Bit, without handle. Ship. wt., about 4 to 6 lbs. 3 3½ 4 4½
Each... **\$1.90 \$1.95 \$1.99 \$2.10**

184C1681—Double bit with finest grade octagon handle. Ship. wt., about 6 to 7 lbs. Wt. head, lbs. 3 3½ 4 4½
Each... **\$2.95 \$3.15 \$3.25**
84C1682—Double bit without handle. Ship. wt., 5 to 6 lbs. 3 3½ 4 4½
Each... **\$2.55 \$2.60 \$2.65**

\$2.95

Easy Chop Axes
Michigan Pattern

84C1690—Michigan pattern. Refined steel carefully tempered. Natural black finish. Keen edge. Width of bit, 5 in. Ship. wt., 4½ to 6 lbs. Weight Each
3½ lbs. **\$1.75**
4 lbs. **1.80**
4½ lbs. **1.85**



Lakeside Easy Chop Axes \$2.15 up

Wisconsin Pattern
Made of extra quality refined steel carefully tempered with keen cutting blades. Natural black finish. Handled axes are accurately fitted with best quality white hickory oval handles. Width of bit about 4 inches.

184C1693—Ship. wt., about 7 lbs. Wt. of head, lbs. 3 3½ 4 4½
Each... **\$2.15 \$2.20 \$2.25 \$2.30**
84C1694—Ship. wt., about 6 lbs. Wt. of head, lbs. 3 3½ 4 4½
Each... **\$1.80 \$1.85 \$1.90 \$1.95**
184C1695—Ship. wt., about 7 lbs. Wt. of head, lbs. 3 3½ 4 4½
Each... **\$2.35 \$2.40 \$2.45 \$2.50**
84C1696—Ship. wt., about 6 lbs. Wt. of head, lbs. 3 3½ 4 4½
Each... **\$2.43 \$2.47 \$2.52**

Lakeside Easy Chop Boy's Axe

184C1710—Easy Chop Boy's Axes. Made from refined steel. Same superior quality and workmanship as found in our full size axes. Polished and bronzed finish. Fitted with first quality 26 in. hickory handles. Weight, with handle, 3½ lbs. Ship. wt., about 4 lbs. Each... **\$1.48**

Oval Hickory Axe Handles

184C1752—Turned No. 1 Hickory. Length, 36 in. Ship. wt., each, 1½ lbs. Each... **40c**

Double Bit Axe Handle

184C1758—Turned oval hickory. No. 1 grade. Length, 36 in. Ship. wt., each, 1½ lbs. Each... **42c**



Extra Gummer Cutters

Mixer's Saw Gummer 184C290—Mixer's Self-Feed Automatic Saw Gummer, for circular saws, mill saws and large cross-cut saws. It is adjustable, will cut the teeth at any desired angle, and has a positive automatic self-feed. We include with each machine steel arbor and three steel cutters: one each, ¾, ½ and 1 in. one cutter grinder and a wrench. Ship. wt., 26 lbs. Price, complete... **\$26.15**
84C291—Extra cutters for Mixer's Gummer cutters. Sizes ¾ and ½ have ¾ in. hole. The larger sizes have 1½ inch hole, which is the standard size for our regular arbor, as sent with the gummer unless otherwise ordered. Ship. wt., 2 to 7 oz. Size, in. 50c 55c 60c 70c
Each... **30c 90c \$1.00 \$1.25**

Saw File

84C268—For regulating and evening up circular saw teeth after they have been set. Size, 7x4 in. Ship. wt., 2 lbs. Price, complete with one file... **\$1.25**
84C269—Extra files: ½ x 4½ in. Thickness. Size, in. Ship. wt., 12 oz. Each... **58c**

Saw Swages for Circular Saws

84C280—Forged Crucible Steel for spreading the points of saw teeth. Size 1 for gauge 5 to 10. Each... **\$3.98**
Size 2 for gauge 9 to 12. Each... **\$3.27**
Size 3 for gauge 10 to 14. Each... **\$2.54**

Combination Saw Tool

84C274—Saw set, jointer, raker gauge, side dresser and set gauge; for cross-cut saws, iron frame. Use 8-in. mill file. File not included. Ship. wt., 15 oz. Each... **\$1.19**

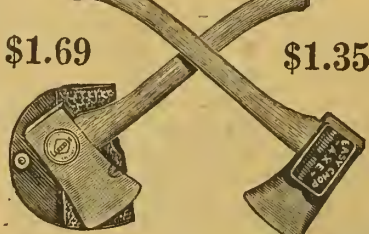
Poat's Saw Tool

84C276—Permits perfect accuracy in jointing teeth squarely and to equal lengths. Iron frame with reversible steel file. Lgh., 5 in. Ship. wt., 1 lb. Each... **65c**

Saw Jointer

84C276—Permits perfect accuracy in jointing teeth squarely and to equal lengths. Iron frame with reversible steel file. Lgh., 5 in. Ship. wt., 1 lb. Each... **65c**

Hunters' Axes



Hunters' Standard Axe 84C1667—Widely used by hunters and in boys' military training camps. Solid forged steel head. Attractively finished. Width of blade, about 3 in. With nail pulling slot. Fitted with 13-in. well-formed attractively stained hickory handle. Complete with neat leather case for blade. Ship. wt., 2½ lbs. Each... **\$1.69**
Lakeside Hunters' Axe 84C1672—Extra steel, with steel poll. Polished and bronzed finish. A popular axe with the hunter, and an excellent size and weight for use about house as well as in camp. Fitted with 14-in. hickory handle. Width of bit, 2½ in. Weight, with handle 1½ lbs. Ship. wt., 2½ lbs. Each... **\$1.35**

Lakeside Single Bit Axe Handle

184C1750—Made of extra select second growth hickory, shaved, octagon shape. Length, 36 in. Ship. wt., each, 1½ lbs. Each... **64c**

Lakeside Double Bit Axe Handle

184C1756—Made of extra select second growth hickory, and shaved. Length, 36 in. Ship. wt., each, 2 lbs. Each... **64c**

Octagon Shape

184C1750—Made of extra select second growth hickory, shaved, octagon shape. Length, 36 in. Ship. wt., each, 1½ lbs. Each... **64c**

Octagon Shape

184C1756—Made of extra select second growth hickory, and shaved. Length, 36 in. Ship. wt., each, 2 lbs. Each... **64c**

Lakeside Razor Blade Axe \$2.45 up



Our Famous Razor Blade Axe, Michigan pattern. High-Grade steel Full polished and etched. Has a thin, keen cutting edge. The handled axes are accurately fitted with excellent, octagon, second growth hickory handles.

Single Bit With Handle

184C1704—Fitted with high-grade octagon handle. Ship. wt., 7 lbs. Width of bit, about 5 in. Wt. of head, lbs. Each
3½ 4 4½
Each... **\$2.45 \$2.49 \$2.57**

Double Bit With Handle

184C1707—Fitted with high-grade octagon handle. (Give size.) Ship. wt., 7 lbs. Width of bit, about 5 in. Wt. of head, lbs. Each
4 4½
Each... **\$3.15 \$3.20**

Without Handle

84C1708—Axe head only, without handle. (Give size.) Ship. wt., about 6 lbs. Width of bit, about 5 in. Wt., lbs. 4 4½
Each... **\$2.50 \$2.60**

Lakeside Easy Chop Axes

Our Easy Chop Axe, Michigan pattern. Single bit. A strictly high-grade axe with a keen cutting edge. Refined steel, carefully tempered. Polished and bronzed finish.

184C1686—Fitted with extra quality oval white hickory handle. Width of bit, about 5 in. Ship. wt., about 7 lbs. Weight of head, lbs. 3 3½ 4 4½
Each... **\$2.15 \$2.20 \$2.25 \$2.29**

Blue Oak Axe Handles

184C1760—Oval, light, pattern, single bit. Well finished. Lgh., 36 in. Ship. wt., each, 1½ lbs. Each... **39c**

Saw Sets, Files and Clamps

Goodell-Prait Steel Mitre Box

Wrought Steel, with angular serrated bottom plate. Will not break. The arms can be instantly set and locked at any angle. Has graduated arc in front, with the various degrees plainly marked. Will take work 10½ in. wide at right angles, and 7½ in. at mitre. Total length of head, 21 in. Complete with a high-grade mitre saw.
184C366—With Saw 26 by 4 in. Ship. wt., 26 lbs. Each... **\$19.35**
184C367—With saw 28 by 5 in. Ship. wt., 30 lbs. Each... **\$21.15**
184C368—With saw 30 by 5 in. Ship. wt., 35 lbs. Each... **\$21.95**
184C369—With saw 30 by 6 in. Ship. wt., 35 lbs. Each... **\$23.75**

Stanley Mitre Box

184C370—Stanley's No. 358. These Boxes are compact, strong and durable and are quickly put together or taken apart for convenience in carrying. The entire frame is one solid casting, insuring great strength. The saw guide uprights are securely clamped and can be adjusted to counteract a saw that runs out of true, due to improper setting or filing. The edge of the base is graduated in degrees and the swivel arm can be set and automatically fastened at any degree desired. Stock guides hold all kinds of ordinary work, as well as irregular forms. Complete with 28x5 Mitre box Saw. Ship. wt., about 35 lbs. Each... **\$22.75**

Perfection Mitre Box

84C374—Enables you to correctly saw boards or moulding at any angle desired. Made of hardwood, with metal rod in arm which can easily be detached and folded to carry in tool chest. Can be set and rigidly held at any angle. Any saw may be used. Price does not include saw. Ship. wt., 8 lbs. Each... **\$3.25**

Saw Vises

For holding saws securely while sharpening or setting teeth. Made of japanned iron with clamps to fasten to bench. Vise can be pitched and held at any angle desired. Width of jaws, 9 in. Ship. wt., about 9 lbs. Each... **\$1.65**
84C343—Ball and socket adjustment. Each... **\$1.65**
84C342—With adjustable joint. Each... **\$1.45**

Lakeside Saw Filer

84C354-A combined saw clamp and filing guide, which makes accurate saw filing easy even for a novice, and is a great help to the expert mechanic. The clamps hold the saw firmly at any convenient angle. The guide holds the file in proper position so that all of the teeth are filed uniformly and accurately. The rubber faced jaws prevent noise and vibration. Width of jaws, 10½ in., with 16 in. steel guide bar. Complete with one file and several directions. Ship. weight, 11 lbs. Each... **\$4.45**

Saw Filing Guide

84C356—A good practical saw filer which can be adjusted to file at any angle, pitch or depth desired. The index is so fastened to the bar that when the saw is turned in the vise the same angle is obtained in filing the opposite side. Price is for guide and file only (vise is not included). Ship. wt., 2½ lbs. Each... **\$2.15**

Folding Saw Vise

84C349—For securely holding hand saws, while filing or setting teeth. Made entirely of wrought steel, quick acting lever clamp. Japanned and nickel finish. Width 12 in. Rubber inserted jaw prevents noise and vibration. Ship. wt., 3 lbs. Each... **\$1.40**

Saw Vises

Japanned iron saw clamp for holding hand saws while sharpening or setting teeth. Fastens on bench or board with screws. Iron lever tightens or releases the jaws. Width, jaws, about 9½ inches.
84C340—To fasten with cord. Each... **89c**
84C341—To fasten with clamp. Wt. 3½ lbs. Each... **\$1.30**

Whiting Saw Set

84C333—For setting circular, one and two man saws only, used with hammer. Forged steel, tempered and polished. Length, 3½ in. A popular tool at a low price. Ship. wt., 5 oz. Each... **68c**

Morrill's Saw Set

84C322—Morrill's Pattern Saw Set, Size 1. For hand saws. Full polished. Well made, and good value at our price. Length, 6¼ in. Ship. wt., 14 oz. Each... **58c**

Aiken's Pattern Saw Set

84C330—Aiken's Pattern cast steel Hammer Saw Set. Teeth are in plain view while being set. Set screw for gauging angle of set. Length, 3½ inches. Ship. wt., 12 ounces. Each... **\$1.23**

Morrill's Pattern Saw Set for Large Saws

84C326—Size 3, for single-tooth cross-cut and circular saws from 20 to 14 gauge. Ship. wt., 1½ lbs. Each... **\$1.95**
84C327—Size 4, for single-tooth or M-tooth cross-cut saws, 22 to 14 gauge. Ship. wt., 1½ lbs. Each... **\$2.15**
84C328—Size 5. Length, 15 in. For circular and other saws, 14 to 6 gauge. Ship. wt., 3½ lbs. Each... **\$2.69**

Stanley Saw Set

84C334—Convenient pistol grip. Adjustable graduated anvil with lock nut. Plunger and anvil are tempered steel. Ship. wt., 1½ lbs. Each... **\$2.10**

Stanley Saw Set

84C334—Convenient pistol grip. Adjustable graduated anvil with lock nut. Plunger and anvil are tempered steel. Ship. wt., 1½ lbs. Each... **\$2.10**

Lakeside Quality Saws



Eclipse Cordwood Saw

184C264—Made expressly for use on Cordwood or Pole Sawing Machines and on our Saw Mandrels. They are hammered to run properly at the usual speed of these machines. The improved special shaped teeth with large gullet makes these saws cut fast and hold their edges remarkably.

They are tempered to stand the hard outdoor severe weather service to which they are subjected. Made only in sizes listed below, or cross cut sawing.

Diam. in.	Guage	Shipping Weight	Size hole in center			
			1 1/4	1 3/8	1 1/2	1 5/8
20	13	9 1/4 lbs.	\$4.75	\$4.76	\$4.77	\$4.78
22	12	12 "	5.75	5.76	5.77	5.78
24	11	16 "	6.75	6.76	6.77	6.78
26	11	20 "	8.00	8.02	8.03	8.05
28	10	25 "	.....	.....	9.25	9.26
30	10	30 "	.....	.....	10.54	10.56

Lakeside Wide Champion Saw

184C203—Polished steel, taper round 14 gauge at teeth and 16 gauge back. (Without handles.)

Length, feet.....	5	5 1/2	6
Ship. wt., lbs.....	6 1/2	7	8 1/2
Each.....	\$3.35	\$4.35	\$4.75

Lakeside Arc Ground Tuttle Tooth Saw

184C205—Full arc ground with a uniform reduction in thickness from each end of the saw to the center, as well as from the teeth to the back. Cutting edge is 14 gauge, back 6 gauge, and center is 19 gauge. A fast cutting saw requiring but little set, and a great favorite with the expert woodsman. Polished crucible steel, finely tempered and finished. It and filed ready for use. (Prices do not include handles.)

Length, feet.....	5 1/2	6	6 1/2
Ship. weight, pounds.....	5 1/2	6 1/2	7 1/2
Each.....	\$5.65	\$6.25	\$7.80

Lakeside Diamond Tooth Saw

184C206—Polished steel, thin back, ground to a true taper, four gauges thinner on back than on cutting edge. A fast, easy-cutting saw. (Without handles.)

Length, feet.....	5	5 1/2	6
Shipping weight, pounds.....	4 1/2	6 1/4	7 1/2
Each.....	\$4.25	\$4.70	\$5.10

Lakeside Great American One-Man Saw

Skew Back

184C214—Polished steel blade. Great American Tooth, skew back, taper ground two gauges thinner on back than on tooth edge. (Prices include one supplementary handle)

Length, ft....	3	3 1/2	4	4 1/2
Ship. wt., lbs.	4	5	5 1/2	6 1/2
Each.....	\$2.45	\$2.85	\$3.30	\$3.70

Lakeside Perforated Lance Tooth Saw

Lance perforated tooth is the most popular style tooth for wide cross cut saws because this tooth cuts and clears easily in any kind of wood. LAKESIDE brand, made of high-grade polished steel. Thin back ground to a true taper.

Length, ft....	5	5 1/2	6	6 1/2
Each.....	\$4.50	\$4.95	\$5.40	\$5.85

Lakeside Pond Ice Saw

184C221—Extra quality polished steel blade. Prices complete with tiller handle, as illustrated. Width, tapers from 7 in. to 5 in. at the point. Ship. wt., 12 to 16 lbs. Length, 5 feet. Each.....\$7.40

Lakeside Hand Ice Saw

184C222—Polished steel blade. Extra quality. With hardwood handle. Length, inches.....30 Ship. wt., lbs.....2 1/2 Price, each.....\$1.85

Tested Steel Log Chains

Steel Log Chains and Hooks
Sizes given are the diameter of the rods from which chain is made. The safe working load is about one-half of the proof test shown below, while the breaking strain is about double the proof test. (Prices subject to market changes.)

184C6430—Cable log chain. Total length, 14 ft. Steel coil chain with swivel in center and heavy grab and round hook.	10 1/2	16 1/2	23	45
Shipping weights, lbs.....	10 1/2	16 1/2	23	45
Each.....	\$2.15	\$2.85	\$3.45	\$6.35

Steel Cable Chain

184C6432—Steel Cable Chain.

Size, in.....	3/8	1/2	5/8	3/4	7/8	1
Proof test, lbs....	700	1200	2500	3500	4800	6200
Ship. wt., lbs....	1/2	3/4	1 1/4	2	2 3/4	3 1/2
Price, per foot....	11c	17c	21c	28c	35c	37c

Wrought Link

184C6438—For connecting or repairing iron chain. Ship. wt. doz., 1/2 to 2 1/2 lbs.

For Chain, in.	Per Dozen
3/4	10c
1	12c
1 1/4	20c
1 1/2	30c

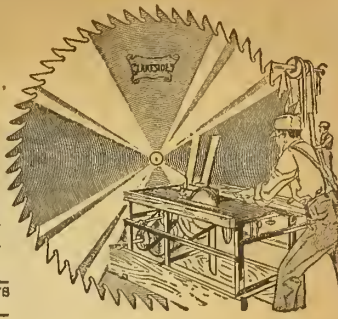
Lakeside High Speed Circular Saws

Extra quality. Prices are for saw set and sharpened ready for use. Be sure to give size of hole and style of saw wanted.

Lakeside Circular Saws are made from the best grade crucible Saw Steel, correctly tempered, smithed, blocked, set and hammered. Lakeside Saws are the product of expert sawyers of many years' experience in successful sawmaking, which enables them to correctly build each saw, to give you the service you are entitled to.

184C260—Circular Cross Cut Saws
184C261—Circular Rip Saw

Diam. Inches	Thickness Gauge	Size Hole Inches	Approx. Ship. Weight	Each
4	19	3/4	3 oz.	\$1.10
6	18	3/4	4 oz.	1.35
8	18	3/4	7 oz.	1.60
10	18	3/4	12 oz.	2.25
12	17	3/4	1 lb.	2.50
14	16	1	1 1/2 lb.	3.30
16	16	1	2 lb.	3.80
18	15	1 1/4	3 1/2 lb.	4.80
20	14	1 1/2	5 lb.	5.80
22	13	1 3/4	6 1/2 lb.	6.80
24	12	2	8 lb.	7.80
26	10	2 1/2	10 lb.	8.80
28	10	3	12 lb.	9.80
30	9	3 1/2	15 lb.	10.80
32	9	4	18 lb.	11.80
34	9	4 1/2	21 lb.	12.80
36	9	5	24 lb.	13.80



Saws listed can be furnished with any ordinary size hole at no extra charge. We carry in stock for immediate shipment, saws in standard sizes, as listed, but can supply special gauges as promptly as anyone. It usually takes from 10 to 30 days to make up special saws at the factory. Prices on saws larger than 36 in. and on inserted tooth saws named on application.

Lakeside Special Arc Ground One-Man Saw

Perforated Lance Tooth
184C219—Full arc ground. Has skew back. Fast cutting and requires but little set. Polished steel blade, ground to a uniform thickness at cutting edge, with a uniform reduction in thickness from the teeth to the back, as well as from the point to the handle. Cutting edge is 15 gauge; back is 17 gauge at point, tapering to 19 gauge at the handle. Large, comfortable handle.

Length, feet.....	3	3 1/2	4	4 1/2
Ship. wt., lbs.....	3 1/2	4 1/2	5	6 1/2
Each (with supplementary handle).....	\$3.45	\$4.10	\$4.60	\$5.20

Lakeside Champion One-Man Saw

184C211—Lakeside One-Man Saws with Champion Tooth, taper ground, two gauges thinner on back than on tooth edge. Polished steel. (Prices include one supplementary handle.)

Length ft....	3	3 1/2	4	4 1/2
Ship. wt., lbs.....	3 1/2	4 1/2	5	5
Each.....	\$2.35	\$2.75	\$3.15	\$3.55

Lakeside Narrow Champion Saw

184C201—Polished steel, set and filed ready for use. Width, 3 in. (Price without handles.)

Length, feet.....	5 1/2	6
Shipping weight, lbs.....	4	4 1/2
Each.....	\$2.25	\$2.50

Standard Buck Saw Complete

Polished Wide Blade. V Tooth Red Frame \$1.29
184C152—Frame of selected hardwood, painted red. Polished, wide blade of extra steel, finely tempered. Length, 30 in. Standard V tooth, set and sharpened. Ship. wt., 5 lbs.

Champion Tooth Buck Saw

184C146—Selected hardwood frame. Varnished natural finish. Improved tinrod. Champion tooth blade, 30 inches, extra quality spring tempered steel. Teeth set and sharpened ready for use. Ship. wt., 5 lbs. \$1.43

Buck-Saw Blade

184C153—Extra spring steel, patent ground and tempered, polished bright. Length, 30 in. Set and sharpened. Champion tooth. Fast, easy cutting. Ship. wt., 12 oz. Each.....97c

Buck-Saw Frame

184C156—Selected hardwood with double brace. Painted red and varnished. Rod or blade not included. Ship. wt., 3 lbs. Set.....58c

Buck-Saw Rod Extra Heavy

184C160—Heavily galvanized to prevent rusting. Substantial and durable. Length, 22 in. Ship. wt., 14 oz. Each.....27c

Circular Saw Mandrels

184C285—Of the latest and most improved pattern, pulley on end or in center. Be sure to specify which style. Heavy iron mountings. Steel shaft. Free running Babbitted Bearings.

Size	Diam. Pulley in.	Face Pulley in.	Lgth. Shaft in.	Diam. Shaft in.	Size Hole in Saw	Shipping Weight Lbs.	184C285 Pulley on End, Each	184C286 Pulley in Center, Each
0	2	3	16 1/2	3/8	3/4	14	\$4.95	\$5.95
1	2 1/2	3 1/2	16 1/2	1/2	1	18 1/2	5.90	7.90
2	3	4	19	3/4	1 1/4	21	7.90	9.90
3	3 1/2	4 1/2	21 1/2	1	1 3/4	31	10.30	12.35
4	4	5	24	1 1/4	2	38 1/2	12.35	15.40
5	4 1/2	5 1/2	26	1 3/4	2 1/4	39	14.35	17.40
6	5	6	28	2	2 3/4	45	15.35	18.40
7	5 1/2	6 1/2	30 1/2	2 1/4	3	30	16.20	19.40
8	6	7	32 1/2	2 3/4	3 1/2	60	19.44	22.40
9	7	8	37	3 1/4	4	70	22.44	25.40
10	8	9	41 1/2	4	5	96	25.40	28.40

Steel Wood Wedges

184C173A—Oregon pattern. Steel, oil finish. Lengths, 8 to 9 1/2 in. Ship. wt., 5 to 10 lbs.

Av. wt., lbs. Each	5	6	7
Price, each	\$0.56	\$0.84	\$0.98
Av. wt., lbs. Each	8	10	12
Price, each	\$1.12	\$1.24	\$1.36

Improved Saw Log Wedges

184C1733—For wedging large logs when sawing. Steel, oil finished. Ship. wt., 2 to 4 lbs.

Av. wt., lbs. Each	2 1/2	3
Price, each	49c	57c

Steel Wood Wedges

184C1732—For splitting and wedging timber. Narrow bit. Steel, oil finish. Av. lgh., 9 in. Ship. wt., 6 lbs.

Av. wt., lbs. Each	4	4 1/2	5
Price, each	46c	52c	58c

Wood Choppers' Mauls

184C1736—Oregon pattern. Forged steel, oil finish. With out handles. Av. lgh., 10 in. Ship. wt., 9 to 14 lbs.

Weight 8-10-12, Each	\$1.75	\$2.20	\$2.60
184C1737—Maul handles wt., 8 lbs. Each.....	39c		

Rules and Levels You Can Depend On for Accuracy

Starrett's Stair and Rafter Gauge

Used in connection with any carpenter's steel square and can be adjusted to any pitch or angle. For cutting in rafters, braces, stairs, etc. L-shaped steel $3\frac{1}{2} \times \frac{1}{2}$ inches. Nickel-plated. (Square not included.)

84C1905—Size, 18 in. Ship. wt., 18 oz. **\$1.78**
84C1906—Size, 28 in. Ship. wt., 24 oz. Each **\$2.38**

Stanley Try and Mitre Square

84C1903—Stanley's No. 21. Adjustable iron head, steel blade. White nickel finish. Length, 12 inches. Graduated in 8ths, 16ths and 32nds inches. Ship. wt., $1\frac{1}{2}$ lbs. Each **\$1.29**

Surveyors' Steel Tape

Takes the place of cumbersome chain. Polished blue steel ribbon correctly tempered. Width, $\frac{1}{4}$ inch. Thickness, .015 inch. Length, 100 feet, graduated each foot, first foot in $\frac{1}{16}$. Numbered with plain figures on a raised extra thickness of steel.

84C2030—With steel reel, and hardwood handle as shown. Ship. wt., $2\frac{1}{2}$ lbs. **\$8.95**
84C2031—Without reel. Ship. wt., $1\frac{1}{2}$ lbs. Each **\$5.97**

Surveyors Steel Tape \$74

84C2038—Steel Tapes, $\frac{1}{2}$ -inch wide in leather case. Nickel-plated trimmings. Designed for contractors, builders, masons, etc. Accurately marked in feet, in., and eighths of in.

Size Feet	Ship. wt., oz.	Each
25	10	\$4.74
50	20	5.68
75	26	6.62
100	24	5.72

Leather Case Tape

84C2041—Stitched leather case, heavy lined corded tape $\frac{1}{2}$ in. wide. Marked in feet and inches.

Size, ft.	50	75	100
Ship. wt., oz.	10	12	14
Each	\$2.62	\$2.94	\$3.23

Enameled Case Tapes

84C2042—Brass bound enameled case. Oiled linen tape, $\frac{1}{2}$ -in. wide. Marked in feet and in.

Size ft.	50	75	100
Ship. wt., oz.	8	10	12
Each	\$0.78	\$1.23	\$1.48

Steel Pocket Tape Line

84C2050—With spring and stop. Automatic release by pressing button. Divided into inches and 16ths. The 3-ft. size is very popular with dressmakers. Ship. wt., 5 oz.

Feet	Width	Each
3	$\frac{1}{2}$ in.	79c
	$\frac{3}{8}$ in.	99c

Improved T Bevel

84C1930—For gauging bevels and angles on woodwork. Nickel-plated Iron and steel. Lays flat. Best grade. Ship. wt., 10 to 18 ounces. Size, in., 6 8 Each **92c \$1.16**

Sliding T Bevel

84C1925—For gauging bevels and angles on woodwork. Steel blade hardwood handle, brass mounted. Recessed screw. Ship. wt., 6 to 12 oz. Sizes, in., 6 10 Each **69c 73c**

Fox Steel Combination Square

84C1920—All steel nickel plated. Accurate. Size, 10x7 inches. Shipping weight, 12 ounces. Each **83c**

Rosewood Marking Gauge

84C2322—Brass thumb screw and shoe. Oval bar steel points. Length, 6 in. Ship. wt., 10 oz. Each **\$1.43**

Boxwood Marking Gauge

84C2325—With brass screw and shoe. Length $8\frac{1}{2}$ in. Ship. wt., 8 oz. Each **68c**

Double Beam Gauge

84C2324—Beech wood Marking Gauge. Length, $8\frac{1}{2}$ in. Ship. wt., 8 oz. Each **17c**

Clapboard Gauge

84C2311—Two graduated steel beams, 4 and 8 in. Steel roller markers. Nickel-plated. Ship. wt., 1 lb. Each **\$1.32**

Clapboard Marker

84C2344—For quickly and accurately marking clapboards or siding. Steel with wood handle. Lgh., $8\frac{1}{2}$ in. Ship. wt., 18 oz. Each **65c**

Standard Steel Squares

(Illustration shows our No. 84C1875) Strictly high-grade, well finished and accurate. The "face" of a square is the side upon which the brand is stamped; the larger arm is the "body" and the shorter arm is the "tongue."

Shipping weights on squares: Wm 2 to 3 lbs.
84C1870—Steel Squares, No. 14. Polished. Size of body, 24x2 in.; size of tongue, 16x1 $\frac{1}{2}$ in. Spaced face $\frac{1}{2}$, $\frac{1}{4}$ in.; back, $\frac{1}{4}$ in. Essex Board Measure. Weight, 1 $\frac{1}{2}$ lbs. Each **\$1.82**
84C1871—Steel Square, No. 3. Polished. Size of body 24x2 in.; size of tongue, 16x1 $\frac{1}{2}$ in. Spaced face, $\frac{1}{16}$, $\frac{1}{8}$ in., back, $\frac{1}{2}$ in. Brass Measure and Essex's Board Measure. Weight, 2 $\frac{1}{2}$ lbs. Each **\$2.19**
84C1873—Steel Square, No. 3. Polished. Size of body 24x2 in.; size of tongue, 18x1 $\frac{1}{2}$. Same as 84C1871, except has 18-in. tongue. Weight, 2 $\frac{1}{2}$ lbs. Each **\$2.27**
84C1874—Steel Square, No. 3B. Blued. "A rich blue color, with enamel graduations, otherwise, the same description as No. 3, with 16x1 $\frac{1}{2}$ in. tongue. Weight, 2 $\frac{1}{2}$ lbs. Each **\$2.75**
84C1875—Steel Square, No. 100. Polished. Size of body 24x2 in.; size of tongue, 16x1 $\frac{1}{2}$ in. Spaced face, $\frac{1}{16}$, $\frac{1}{8}$ in.; back, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{16}$, $\frac{1}{8}$ in. Brass Measure. 8 square and Essex's Board Measure. Weight, 2 $\frac{1}{2}$ lbs. Each **\$2.54**
84C1879—Steel Square, No. 100C. Royal Copper Finish. Antirusting, with white enameled figures and graduations, otherwise the same description as No. 100. Weight, 2 $\frac{1}{2}$ lbs. Each **\$2.89**
84C1835—Steel Square, No. 12. Polished. Size of body, 12x1 $\frac{1}{2}$ in.; size of tongue, 8x1 in. Spaced face, $\frac{1}{16}$, $\frac{1}{8}$ in.; back $\frac{1}{2}$, $\frac{1}{4}$ in. Weight, $\frac{1}{2}$ lbs. Each **\$1.74**

Teaches You to Understand the Steel Square

84C1902—This outfit enables amateurs to perform any work with the square and even experienced carpenters find it very convenient. Consists of a 3-inch Safety Computing Dial, and Book of Clear Instructions contained in a handsome Leather Pocket Case. Ship. wt., 4 oz. **\$1.12**

Try and Mitre Square

84C1916—Polished hardwood handle, brass trimmings. Graduated steel blade. Ship. wt. 6 to 14 ounces. Size in, 4 6 Each **67c 83c**
 Size in, 7 9 Each **82c 1.12**

Try Square

84C1910—Polished hardwood handle, brass faced. Graduated blade. Ship. wt., 8 to 12 oz. Size, 4 6 in. **48c**
 Size, 6 in. **72c**
 Size, 7 9 in. **79c**

Combination Caliper Rule

84C1822—Boxwood Caliper Rule. Length 1 foot, arch joints, 4-fold spaced in 8ths, 10ths, 12ths and 16ths. Width, $\frac{1}{8}$ in. Ship. wt., 4 oz. Each **70c**

Caliper Rules

84C1818—Boxwood Caliper Rule. Square joint, 2-fold, spaced in 8ths, 10ths, 12ths and 16ths. Length, 6 in. Width, $\frac{1}{8}$ in. Ship. wt., 3 oz. Each **\$2.25**

Stanley Butt Gauge

84C2331—Stanley's No. 94. For door hanging and mortising. Nickel-plated with Steel markers. Length, 3 in. Ship. wt., 14 oz. Each **\$1.43**

Zigzag Flexible Folding Rule

Hardwood $\frac{1}{2}$ in. wide, metal tips with enameled finish, yellow or white. Folds are 6 in. long. Steel spring joints hold rule straight. Spaced 16ths inch.

Length, ft.	4	6	8
Ship. wt., oz.	5	7	9
Each	48c	72c	96c

Standard Log Rules

Second growth hickory, shaped by hand. Will retain their flexibility. To scale logs 8 to 20 ft. long. Figures are burned in. With 6-in. handle. Shipping weight, 1 to 2 pounds.

Length, inches	24	26	28	30
Ship. wt., lbs.	3	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4
Each (give size)	\$1.95	\$2.15	\$2.35	\$2.55

Solid Cherry Level

84C2064—A high-grade, first class level, made of polished cherry. Brass arch top plate, two side views, both ends are brass tipped. Proved level glasses. Adjustable.

Three-Ply Cherry Level

84C2062—Made of three pieces of seasoned cherry, glued together and will not warp. Brass arch top plate, two side views. Adjustable. Both ends are brass tipped.

Length, inches	26	28	30
Ship. wt., lbs.	3	3 $\frac{1}{2}$	3 $\frac{3}{4}$
Each (give size)	\$2.63	\$2.95	\$3.25

Wood Masons' Level

84C2072—One piece of selected Mexican mahogany. Adjustable. Brass bound corners—dovetailed into the wood. Brass top and end plates, full brass bound. Fine value. (Give size.)

Length, 26 in.	Ship. wt., 4 lbs.	\$4.25
Length, 28 in. <th>Ship. wt., 4 lbs.</th> <th>4.45</th>	Ship. wt., 4 lbs.	4.45
Length, 30 in. <th>Ship. wt., 4 1/2 lbs.</th> <th>4.75</th>	Ship. wt., 4 1/2 lbs.	4.75

Latest Improved Rafter Square

Everything worked out. Gives lengths of Common Rafters; Hip, Valley, Jack and Cripple Rafters; also all top, bottom and side cuts. Has a $1\frac{1}{2}$ -in. tongue, to conform to the substitution of 3x1 $\frac{1}{2}$ scantling for the 2x4. Patented table for Hip, Valley, Jack and Cripple Rafters and for common rafters. Table for the common polygon, and standard brace measure. Complete directions. Ship. wt., 2 1/2 lbs. Body, 24x2. Tongue, 16x1 $\frac{1}{2}$ in. Each **\$3.37**
84C1895—No. 500R Polished Steel. Spaced $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ in. Each **\$3.37**
84C1894—No. 500 CR Royal Copper Finish. Spaced, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$ in. Each **\$4.79**

Stanley Rafter Square

84C1896—No. R100B Blued Finish. Has Rafter, Brace, Octagon, Essex Board and 100ths measure. Marked $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{16}$ in. Body, 24x2. Tongue, 16x1 $\frac{1}{2}$. Wt., 2 lbs. Each **\$3.98**

Take Down Rafter Square \$4.23

Take-apart-Joint consists of a tapering dovetail tongue and groove, pulled tight by turning a small slotted cam. New Rafter Table shows 16 different measures for the following: Length of common rafter, per foot run length of Hip or Valley rafter, per foot run; difference in length of Jacks, 16 inch centers; difference in length of Jacks, 2 ft. centers; side cut of Jack, side cut of Hip or Valley rafter; side cut of

Full Brass-Bound 2-Ft. Boxwood Rules

84C1804—Factory No. 62. Width, 1 in. Length, 2 ft., 4-fold double Brass bound marked in 8ths, 10ths, 12ths, 16ths of in. Ship. wt., 5 oz. Each **82c**

Nearsite Rule

84C1812—Factory No. 7. Two ft. four-fold. Has extra large figures. Boxwood, width, $1\frac{1}{2}$ in., square joint, brass edge plates on hinge, marked in 8ths and 16ths. Ship. wt., 4 oz. Each **\$1.14**

Architects' Rule

84C1814—Factory No. 53 1/2. Has arch joints; 8ths, 10ths, 12ths and 16ths inches, with inside beveled edges and architects drafting scale. Width, 1 in. Length, 2 ft. Ship. wt., 4 ounces. Each **83c**

Two Foot Boxwood Rules

84C1800—Factory No. 68. Two ft. 4-fold, 1 in. wide, rounded joints, middle hinge plates; marked in 8ths and 16ths. Ship. wt., 4 oz. Each **19c**

Stanley Extension Rules

84C1845—Hard maple, 1 in. wide. Spaced in 8ths. Brass trimmed Sections secured by set screw. Ship. wt., 1 to 3 lbs. Size..... 2 to 4 ft. 3 to 6 ft. Each..... **98c \$1.19**
 Size..... 4 to 8 ft. 5 to 10 ft. Each..... **\$1.32 \$1.64**

Hickory Board Rule

84C1850—Log Rule, 36 in. Square head; Scribner's scale. Each **\$2.65**
84C1851—Same with Doyle Scale. Each **2.65**

Wood Level Sights

84C2124—To attach to wood levels for distance leveling. Ship. wt., 6 oz. One pair **\$1.28**

Iron Level Sights

84C2125—To attach to iron levels for distance leveling. Improved Level Sights. Ship. wt., 6 oz. Pair **\$1.29**

Level Glasses

84C2130—For wood or iron levels. Made of extra thick glass tubing. Ship. wt., 2 oz. (Give size) Each, in. 1 to 1 1/2 **7c**
 Each, in. 2 3 **9c**
 Each, in. 2 3 **11c**
 Each, in. 1 1/2 2 **9c**
 Each, in. 2 3 **11c**
 Each, in. 2 3 **14c**

Detachable Level

84C2122—Brass, with accurate 1 1/2-inch level glass. Attaches to square auger bit or rule by set-screw. Ship. wt., 4 oz. Each **49c**

Goodell-Pratt Iron Bench Level

84C2096—With double plumb, proved level glasses, milled faces, japanned body. Light, strong and accurate.

Length	Ship. wt.	Each
6 in.	1 lb.	\$1.75
18 in.	3 1/2 lbs.	3.62
24 in.	4 1/2 lbs.	4.10

Machinists' Iron Level

84C2094—Japanned iron with ground top and bottom, light, compact and strong. Double plumb.

Length	Ship. wt.	Each
18 in.	4 lbs.	\$3.55
24 in.	5 1/2 lbs.	4.25

Iron Plumb Bob

84C2135—Smooth nickel plated iron. Sharp point. Length, 2 1/2 in. Ship. wt., 8 oz. Each **27c**

Hexagon Plumb Bob

Solid steel, nickel plated. Sharp point. Brass top screw. Ship. wt., 1 and 1 1/2 pounds.

Length, 3 1/2 in.	Wt.	8 oz.	72c
Length, 3 3/4 in. <th>Wt.</th> <th>12 oz.</th> <th>89c</th>	Wt.	12 oz.	89c

Iron Pocket Level

84C2114—Fastens to a steel square or straight edge. Brass top plate. Length, 3 in. Ship. wt., 5 oz. **21c**

Nickel Pocket Level

84C2118—Carefully made and accurate. In neat hexagon tube, of nickelled brass with closed ends. Length, abt. 2 1/2 in. Ship. wt., 3 oz. Each **69c**

Brass Plumb Bob

84C2134—Polished solid brass. Steel point. Ship. wt., $\frac{1}{2}$ to 2 lbs.

Wt.	Lth.,	Each
8	4 1/2	\$1.65
5	6 1/2	2.95

Cherry Adjustable Level

84C2064—A high-grade, first class level, made of polished cherry. Brass arch top plate, two side views, both ends are brass tipped. Proved level glasses. Adjustable.

Solid Cherry Level

84C2060—Made of cherry, with brass top plate, two side views. Non-adjustable. Length, 28 in. Ship. wt., 3 lbs. Each **\$1.34**

One Piece Solid Mahogany Level

84C2072—One piece of selected Mexican mahogany. Adjustable. Brass bound corners—dovetailed into the wood. Brass top and end plates, full brass bound. Fine value. (Give size.)

Wood Level Sights

84C2124—To attach to wood levels for distance leveling. Ship. wt., 6 oz. One pair **\$1.28**

Use Superb Wall Board in place of lath and plaster.

Pliers and Other Popular Brands Machinists' Tools

Heavy Combination Plier



94c

Cutting Pliers



54c

84C2206—Forged high-grade tool steel. Polished wide jaws, lap joint. An extra heavy strong pattern, with wire cutter. (Give size.)

Size	Ship. wt.	Each
8 in.	16 oz.	\$0.94
10 in.	1 1/2 lbs.	1.16

84C2185—Steel jaws. An excellent wire cutter and flat nose plier. Nickel finish. Ship. wt., 8 oz. (Give size.)

Size, in.	Ship. wt.	Each
5	6	54c
6	7	75c



Lakeside Combination Pliers

Handiest Tool you ever owned. Drop forged steel. Combines gas pliers, wire cutter, wrench and screwdriver. Slip joint adjustable to take pipe 1/2 to 1 1/2 inch in the 6 inch size and from 1/4 to 1 1/4 in. pipe in 8 and 10 inch size.

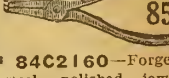
Size	Ship. wt.	Each
6 in.	10 oz.	48c
8 in.	12 oz.	68c
10 in.	18 oz.	78c
12 in.	24 oz.	98c

Combination Side Cutting Pliers



\$1.66

Flat Nose Pliers



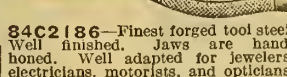
85c

Forged steel, tempered and tested. Flat nose, grooved for pipe. Three wire cutters—one on side. Polished jaws.

84C2203 —Length, 6 in. Ship. wt., 12 ounces. Each.	\$1.66
84C2204 —Length, 7 in. Ship. wt., 16 ounces. Each.	\$1.79

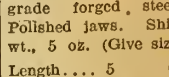
steel, polished jaws, Ship. wt., 5 and 8 oz. Length in. 5 6 Each... 85c 97c

Diagonal Cutting Pliers



\$1.67

Round Nose Pliers

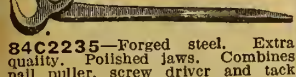


85c

84C2186—Finest forged tool steel. Well finished. Jaws are hand-honed. Well adapted for jewelers, electricians, motorists, and opticians. Length, inches. 5 6 Each... \$1.67 \$1.97

84C2161—High-grade forged, steel. Polished jaws. Ship. wt., 5 oz. (Give size.) Length... 5 6 Each... 85c 97c

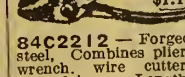
Carpenters' Pincers



84C2235—Forged steel. Extra quality. Polished jaws. Combines nail puller, screw driver and tack claw. Ship. wt., 10 to 22 oz. (Give size.)

Size, in.	Ship. wt.	Each
6	8	48c
8	10	60c
10	12	72c
12	15	85c

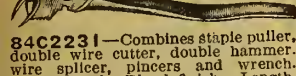
Combination Pliers



\$1.19

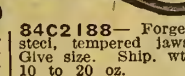
84C2212—Forged steel. Combines plier, wrench, wire cutter, screwdriver. Length, 7 in. Ship. wt., 12 oz. Each... \$1.19

Lakeside Forged Fence Plier



84C2231—Combines staple puller, double wire cutter, double hammer, wire splicer, pincers and wrench. Forged steel. Blued finish. Length, 10 inches. Ship. wt., 2 1/2 lbs. Each... \$1.72

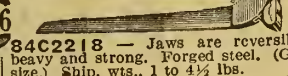
End Cutting Nippers



\$1.36

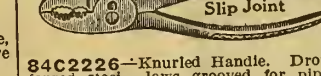
84C2188—Forged steel, tempered jaws. Give size. Ship. wt., 10 to 20 oz. Size in. 6 7 Each... \$1.36 \$1.60

Nettleton Cutting Nippers



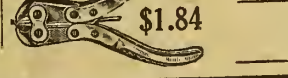
84C2218—Jaws are reversible, heavy and strong. Forged steel. (Give size.) Ship. wt., 1 to 4 1/2 lbs. Length... 8 10 12 14 Cuts... \$1.10 \$1.30 \$1.55 \$1.95

Combination Gas Pliers



84C2226—Knurled Handle. Drop forged steel. Jaws grooved for pipe with Wire Cutter. A high-grade tool that will stand up under the most severe usage. Length, 9 in. Ship. wt., 1 pound. Each... \$1.03

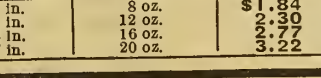
Compound End-Cut Nippers



\$1.84

84C2129—Extra jaws. Ship. wt., 3 oz. Pair... 38c 55c 65c 84c

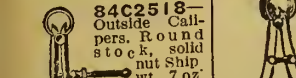
Slip Joint



84C2192—Very powerful. Crucible steel, nickel plated. Has open throat jaws. Knurled handle.

Size	Ship. wt.	Each
4 in.	8 oz.	\$1.84
5 in.	12 oz.	2.30
6 in.	16 oz.	2.77
7 in.	20 oz.	3.22

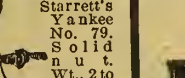
Starrett's Toolmaker's Calipers and Dividers



84C2518—Outside Callipers. Round stock, solid nut. Ship. wt., 7 oz.

Size In.	Each
3	\$1.42
4	1.71
5	1.72
6	1.99

Starrett's Calipers and Dividers



84C2490—Starrett's Yankee No. 79. Solid nut. Ship. wt., 10 to 12 oz.

Size In.	Each
3	\$0.81
4	.86
5	.94
6	.99
8	1.14

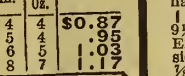
Starrett's Inside Callipers



84C2519—Inside Callipers. Round stock, solid nut. Ship. wt., 5 oz.

Size In.	Each
3	\$1.42
4	1.71
5	1.72
6	1.99

Starrett's Yankee No. 73. Solid nut.



84C2480—Starrett's Yankee No. 83 Dividers with solid nut.

Size In.	Ship. Wt.	Each
3	4	\$0.81
4	4	.86
5	5	.94
6	6	.99
8	9	1.28

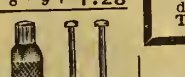
Starrett's Dividers



84C2517—Dividers. Round stock, solid nut. Ship. wt., 5 oz.

Size In.	Each
3	\$1.42
4	1.71
5	1.72
6	1.99

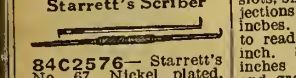
Starrett's Dividers



84C2517—Dividers. Round stock, solid nut. Ship. wt., 5 oz.

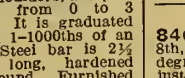
Size In.	Each
3	\$1.42
4	1.71
5	1.72
6	1.99

Starrett's Scriber



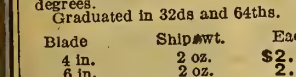
84C2576—Starrett's No. 67. Nickel plated, knurled body. Long and short tempered points. Length, with long point, 12 1/2 in. Ship. wt., 5 oz. Each... \$0.58c

Starrett's Scriber



84C2566—Goodell-Pratt, Style 31, depth gauge for depths of holes, slots, shoulders, and projections from 0 to 3 inches. It is graduated to read 1/1000ths of an inch. Steel bar is 2 3/4 inches long, hardened and ground. Furnished with three measuring rods. Ship. wt., 6 oz. Price... \$8.80

Starrett's Scriber



84C2565—Polished tempered steel. Adjustable to 30, 45 and 60 degrees. Graduated in 32ds and 64ths.

Blade	Ship. wt.	Each
4 in.	2 oz.	\$2.10
6 in.	2 oz.	2.32

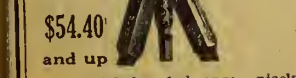
Starrett's Scriber



84C2565—Polished tempered steel. Adjustable to 30, 45 and 60 degrees. Graduated in 32ds and 64ths.

Blade	Ship. wt.	Each
4 in.	2 oz.	\$2.10
6 in.	2 oz.	2.32

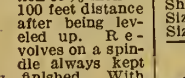
Telescope Drainage Level with Circle



184C1952—For farmers, ditchers, landscape gardeners, etc. Fine telescope, 11 1/2 in. long, magnifying 18 diameters. Graduated level vial, tells variation of 1/2 inch in 100 feet distance after being leveled up. Revolves on a spindle always kept level. Made of bronze, nicely finished. With tripod. In neat hardwood box. Ship. wt., 24 pounds. Each... \$54.40

184C1953—Level like above but with graduated horizontal circle reading to degrees, for turning angles. As illustrated. Ship. wt., 24 pounds. Each... \$59.65

Starrett's Narrow Rule



84C2552—Starrett's No. 330. Width 1/4 in. No. 18 ga. Tempered. Graduated 32nds and 64ths. Ship. wt., 2 oz. Each... 57c

84C2560—Starrett's No. 391. Spring tempered. Angles 60 degrees, graduated in 32ds, 24ths, 20ths and 14ths in. Length, 1 1/2 in. Ship. wt., 1 oz. Each... 47c

Machinists' Tool Chests



184C2806—Very desirable for taking small tools to and from work or to provide a secure place for keeping them on the workbench. Has secure lock with two flat keys. Removable cover, when unlocked, folds back and under bottom drawer out of the way. Made of solid oak, with attractive quarter-sawn finish. Two styles. Polished throughout or high grade leatherette covered on outside, resembling black seal grain leather. Nickel-plated corners and strong carrying handle. Polished brass knobs on drawers. Each drawer has felt lining.

184C2806—Polished Oak. Size, outside, 9 1/2 in. deep, 12 1/2 in. high, 20 in. long. Eight drawers. Size of largest drawer inside, 2 1/2 x 6 1/2 x 18 in. long; smallest drawer, 1/2 x 2 1/2 x 8 1/2 in. long. Ship. wt., 23 lbs. Each... \$16.90

184C2807—Same case as above, but black leatherette covered outside. \$17.65

184C2808—Polished Oak. Size outside, 8 in. deep, 10 1/2 in. high, 16 1/2 in. long. Six drawers. Size of largest drawer inside, 3 1/2 x 6 1/2 x 18 1/2 in. long; smallest drawer, 1 x 6 1/2 x 7 1/2 in. long. Ship. wt., 18 lbs. Each... \$15.75

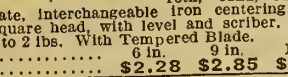
Machinists' Bench Tool Chests

Chests are of polished Red Gum or Hazelwood. Have Mahogany panels. Very attractive.

184C2802—Outside measurements, 24 in. long, 14 1/2 in. wide, 13 in. deep. Receptacle under lid, 21 x 11 1/2 x 3. First drawer, 20 x 10 x 1. Second drawer, 20 x 10 x 1 1/2. \$15.95

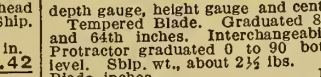
184C2804—Outside measurements, 30 in. long, 14 1/2 in. wide, 13 in. deep. Receptacle under lid, 27 x 11 1/2 x 3. First drawer, 26 x 10 x 1. Second drawer, 26 x 10 x 1 1/2. \$19.20

Starrett Combination Squares



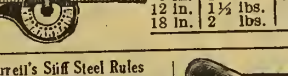
84C2522—A combination of try squares, depth gauge, mortise gauge, miter, centering gauge, and rule. Graduated 8th, 16th, 32nd, 64th in. Set... \$2.28 \$2.85 \$3.42

Goodell-Pratt's Combination Squares



84C2523—A combination of machinists adjustable try square, level rule, marking gauge, scriber, depth gauge, height gauge and center gauge. Tempered Blade. Graduated 8th, 16th, 32nd and 64th inches. Interchangeable iron heads. Protractor graduated 0 to 90 both ways; with level. Ship. wt., about 2 1/2 lbs. Blade, inches... 12 18 Set... \$7.05 \$8.15

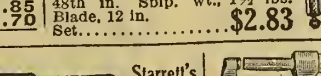
Starrett's Bevel Protractor



84C2534—Starrett's No. 12. Tempered rule, 18th, 32nd, 64th in. Give size. Graduated in degrees from 0 to 180. Right and left can be adjusted to accurately show any angle.

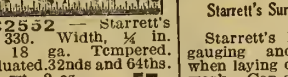
Size	Ship. Wt.	Each
9 in.	1 lb.	\$4.27
12 in.	1 1/2 lbs.	4.85
18 in.	2 lbs.	6.75

Goodell-Pratt Combination Square



84C1924—Goodell-Pratt No. 666. Tempered blade, graduated 8th, 12th, 32nd, 48th in. Sbbp. wt., 1 1/2 lbs. Blade, 12 in. Set... \$2.83

Starrett's Stiff Steel Rules



84C2550—Starrett's No. 300 graduated. 64ths 32nds, 16ths, 8ths. Ship. wt., 1 to 4 oz. Give size. Length, in. 3 4 6 12 Width, in. 5/8 3/4 1 Each... 47c 57c 76c \$1.42

Starrett's Surface and Scratch Gauge



Starrett's No. 52 for gauging and marking when laying out machine work. Can also be used as scratch gauge. \$2.28

84C2568—Starrett's No. 52A. Height, 8 in. Without extension, Ship. wt., 2 lbs. Each... \$2.28

84C2569—Starrett's No. 52C. Height, 12 in. With 6 in. extension. Ship. wt., 3 lbs. Each... \$3.72

Goodell-Pratt's Calipers and Dividers



84C2499—Mass. Tool Co. Quick-acting nut. Ship. wt., 2 to 10 oz.

Size In.	Ship. Wt.	Each
3	4	\$1.05
4	4	1.15
5	5	1.25
6	6	1.32
8	8	1.42

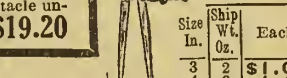
Thread Calipers



84C2504—Mass. Tool Co. Quick-acting nut. Ship. wt., 2 to 6 oz.

Size In.	Each
3	\$1.23
4	1.32
5	1.40

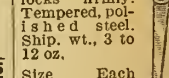
Starrett's Lock-Joint Calipers



84C2510—Starrett's No. 41. With adjustable point and improved arm joint.

Size In.	Ship. Wt.	Each
4	3	\$0.76
6	5	.95
8	7	1.14

Starrett's Lock-Joint Calipers



84C2510—Starrett's No. 41. With adjustable point and improved arm joint.

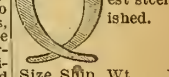
Size In.	Ship. Wt.	Each
4	3	\$0.76
6	5	.95
8	7	1.14

Starrett's Scriber



84C2516—Starrett's No. 85. Dividing with extra caliper legs. Size, 9 inch adjustable to 12 inches. Will scribe a 30-inch circle and caliper 14 inches outside and 16 inches inside. Ship. wt., 1 1/2 lbs. Each... \$3.14

Starrett's Scriber



84C2508—Starrett's No. 38. Sensitive adjustment. Finest steel polished.

Size	Ship. Wt.	Each
4 in.	4 oz.	\$1.05
6 in.	6 oz.	1.14
8 in.	10 oz.	1.42

Starrett's Scriber



Protect Your Home and Valuables With Good Locks

Description of Finishes

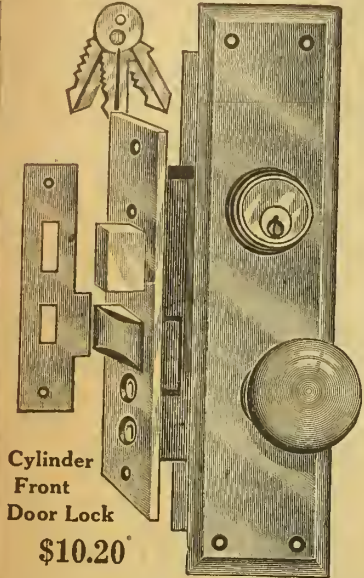
Solid Bronze Hardware.

- A Finish**—Polished Bronze, natural color, highly polished and lacquered.
C Finish—Polished Antique Copper, dark color, relieved by partial polish.
E Finish—Lemon Brass, rich brass color, dull satin finish; lacquered. (C and E finishes are the most popular)

Iron and Steel Hardware.

- G Finish**—German Bronzed, Lacquered brown color, not polished.
H Finish—Raised Surface polished bronze finish; sunk background black finish.
K Finish—Polished Bronze, Plate with bronze and highly polished and lacquered.
L Finish—Polished Antique Copper, Plated dark color, relieved by partial polish.
P Finish—Lemon Brass, Plated brass color, dull satin finish.

Royal Design Lock-Sets—Broad Beveled Edges

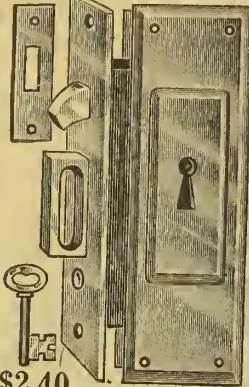


Cylinder Front Door Lock

\$10.20

Solid Bronze Trimmings.* Mortise Lock, 5 1/4 x 3 3/4 in. Heavy bronze bolts, front and side strike. One bronze cylinder and 3 flat keys, operating both bolts from outside. Large 2 1/2 x 2 1/4 in. knobs, swivel spindle. Outside escutcheons 10 1/4 x 3 1/4 in. Inside, 7 1/2 x 2 1/4 in., with bolt turn. With screws. Reversible. Ship. wt., 5 1/2 pounds.

84C2900—C finish. Each \$10.20
84C2901—E finish. Each 10.20



Sliding Door Locks

Set consists of Mortise Lock, 5 1/4 x 3 3/4 inch, one key, flat strike, two flush Escutcheons, 6x2 1/4 inches. With screws. Ship. wt., 1 1/2 pounds.

Double Door. Set has 4 Escutcheons. Ship. wt., 3 1/2 pounds.

84C2910—C finish. Single. \$3.60
84C2910—C finish. Double. \$5.10
84C2911—E finish. Single. \$3.60
84C2911—E finish. Double. \$5.10
84C2914—L finish. Single. \$2.40
84C2914—L finish. Double. \$3.55
84C2915—P finish. Single. \$2.40
84C2915—P finish. Double. \$3.55

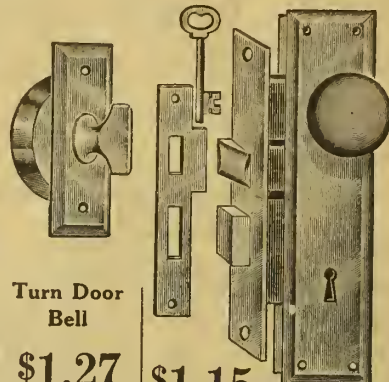


92c Each
Electric Push Button

Solid bronze front. Size, about 4x2 1/2 in. A decidedly handsome push button that will not rust.

Note detailed description of finish as above.

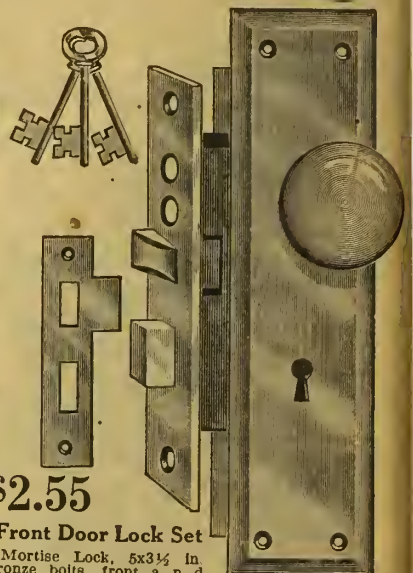
84C2918—C finish. Each 92c
84C2919—E finish. Each 92c



Turn Door Bell
\$1.27 Each

Solid bronze front, size 4x1 1/2 in. Has 3-inch nickel-plated gong. Furnished complete ready to attach. Ship. wt., about 1 lb.

84C2916—C finish. Each \$1.27
84C2917—E finish. Each \$1.27



\$1.15
Inside Door Lock

Set consists of Mortise Lock, 3 1/4 x 3 1/4 in.; 2 1/4 in. knob; 1 steel bit key; 2 long escutcheons, 7 1/2 x 2 1/4 in. With screws. Reversible. C and E finishes have non-rusting Solid Bronze Trimmings; while the L and P have plated steel. Shipping weight, 2 1/2 pounds.

Solid Bronze
84C2906—C finish. Price \$2.45
84C2907—E finish. Price \$2.45

Plated Steel
84C2908—L finish. Price \$1.15
84C2909—P finish. Price \$1.15

Front Door Lock Set
 Mortise Lock, 5x3 1/2 in. Bronze bolts, front and side strike. 2 1/4 in. knobs, swivel spindle. 3 steel bit keys which operate both bolts from outside and the lock bolt from inside. Outside Escutcheon, 10x3 in. Inside, 7x2 1/4 in. With screws. Reversible. C and E finishes have non-rusting Bronze Trimmings; L and P have plated steel. Ship. wt., 4 lbs.

84C2902—C finish. Each \$4.45
84C2903—E finish. Each 4.45
84C2904—L finish. Each 2.55
84C2905—P finish. Each 2.55



Mortise Door Knobs

With 7/8-in. spindle and japanned rose. No screws furnished. (Use 1/2 in. No. 6). Ship. wt., per pair 18 ounces.

84C3231—Brown. \$23c
84C3233—White Porcelain. Pair. \$24c
84C3235—Black Glazed. Pair. \$24c



Rim Door Knobs

With 5/8-in. spindle and japanned rose. No screws furnished. (Use 1/2 in. No. 6). Ship. wt., per pair, 1 lb.

84C3230—Brown. \$22c
84C3232—White Porcelain. Pair. \$23c
84C3234—Black Glazed. Pair. \$23c



Atractive Glass Door Knobs

84C3295—For use with mortise locks. Plain, 2 1/4 in. Colonial glass knobs. With 2-in. lemon brass door plates. With screws. Extensively used for bedroom doors. Ship. wt., 1 1/2 lbs. \$2.40



Extra Heavy Steel Latch

All wrought steel japanned. Handle, 11 in. Bar, 12 in. Ship. wt., 3 lbs. With 3 screws. Each. \$1.20



Steel Thumb Latch

2 3/4 each. All wrought steel, japanned. With screws. Ship. wt., 8 and 16 oz.

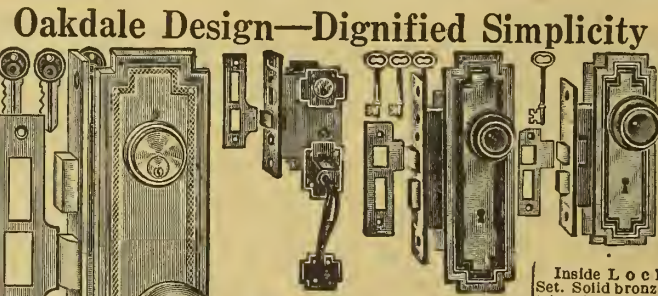
84C3278 Length, 5 1/2 in. \$23c
84C3279 Length, 7 1/2 in. \$33c



Heavy Latch

Extra heavy iron with oblique handle. Size of plate, 2 1/4 x 8 1/2 in. Ship. wt., 2 1/2 lbs.

84C3274 Japanned \$37c
84C3275—Antique Copper finish. Set \$3c



Oakdale Design—Dignified Simplicity

\$10.20

Cylinder Front Door Lock. Solid Bronze Trimmings. Mortise Lock, 5 1/4 x 3 1/4 in. Heavy reversible bronze bolts, front and side strike. Bronze Cylinder and 3 flat keys, operating both bolts from outside. Size, outside, when attached, 13 1/4 x 2 1/2 in. Inside escutcheon 10x3 1/4 in. With bolt turn. With screws. Ship. wt., 5 lbs.

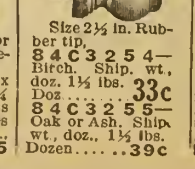
Solid Bronze
84C2850—C finish. \$10.20
84C2851—E finish. \$10.20



Mortise Knob Lock

Reversible Mortise Lock. Size, 3 1/2 x 3 1/2 in. Lock is reversible; three keys; two solid bronze handles and two solid bronze plates, size about 3x1 1/4 in. A fine looking durable set. Ship. wt., 6 lbs.

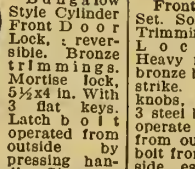
84C3214—Reversible Mortise Lock. Size, 3 1/2 x 3 1/2 in. Lock is reversible; three keys; two solid bronze handles and two solid bronze plates, size about 3x1 1/4 in. A fine looking durable set. Ship. wt., 6 lbs. \$11.20



Wood Base Knobs

Size 2 1/2 in. Rubber tip.

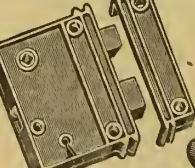
84C3254—Birch. Ship. wt., doz. 1 1/2 lbs. \$33c
84C3255—Oak or Ash. Ship. wt., doz. 1 1/2 lbs. \$39c



Bungalow Style Cylinder Lock

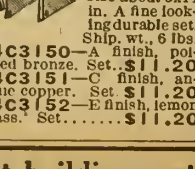
Reversible. Bronze trimmings. Mortise Lock, 5 1/4 x 4 in. With 3 flat keys. Latch bolt operated from outside by pressing handle. Size, outside, when attached, 13 1/4 x 2 1/2 in. Inside escutcheon 10x3 1/4 in. With bolt turn. With screws. Ship. wt., 3 1/2 lbs.

Solid Bronze
84C2854—C finish. Price \$4.45
84C2855—E finish. Price \$4.45



Economy Door Lock Set

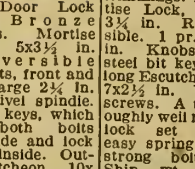
You often find use for this style of Lock. Reversible cast iron rim lock, 4 1/2 x 3 1/2 in. with jet black knobs, one key and keyhole plate. With screws. Complete Set in box. Ship. wt., 2 1/2 lbs. Set. \$2.42



Store Door Lock

Set comprises: One mortise cylinder lock, size, 5 1/4 x 3 3/4 in. A fine looking reversible; three keys; two solid bronze handles and two solid bronze plates, size about 3x1 1/4 in. A fine looking durable set. Ship. wt., 6 lbs.

84C3150—A finish, polished bronze. Set. \$11.20
84C3151—C finish, antique copper. Set. \$11.20
84C3152—E finish, lemon brass. Set. \$11.20



Front Door Lock

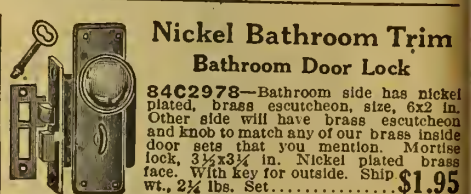
Solid Bronze Trimmings. Mortise Lock, 5 1/4 x 3 1/4 in. Heavy reversible bronze bolts, front and side strike. Large 2 1/4 in. knobs, swivel spindle. 3 steel bit keys, which operate both bolts from outside and lock bolt from inside. Outside escutcheon, 10x3 1/4 in. Inside, 7x2 1/4 in. With screws. Ship. wt., 3 1/2 lbs.

Solid Bronze
84C2857—C finish. Price \$2.45
84C2858—E finish. Price \$2.45



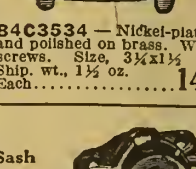
Plated Steel Lock

84C2859—L finish. Each \$1.15



Nickel Bathroom Trim

84C2978—Bathroom side has nickel plated, brass escutcheon, size, 6x2 in. Other side will have brass escutcheon and knob to match any of our brass inside door sets that you mention. Mortise lock, 3 1/4 x 3 1/4 in. Nickel plated brass face. With key for outside. Ship. wt., 2 1/2 lbs. Set. \$1.95



Door Bolt

84C3537—Nickel plated brass. With screws. Length of bolt, 3 1/4 in. Has 2 in. oval knob plate. Ship. wt., about 1/2 lb. Each 86c



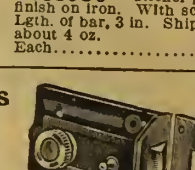
Drawer Pull

84C3534—Nickel-plated and polished on brass. With screws. Size, 3 1/4 x 1 1/2 in. Ship. wt., 1 1/2 oz. Each 14c



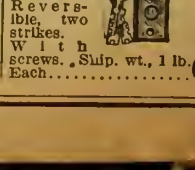
Cabinet Butts

84C3535—Nickel-plated. Polished. For medicine cabinets, etc. Loose pin. With screws. Ship. wt., 4 oz. Size, 2 1/2 x 3 1/4 in. Pair 42c 49c



Cupboard Turns

84C3533—Nickel-plated on brass. Polished. Size, 1 1/2 x 1 1/2 in. With screws. Ship. wt., about 4 oz. Each 58c

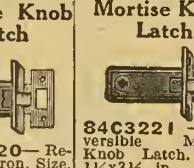


Sash Lift

84C3536—Nickel-plated finish on iron. With screws. Lgh. of bar, 3 in. Ship. wt., about 4 oz. Each 10c

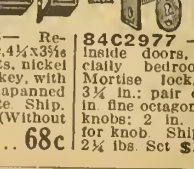
Rim Lock Wrought Steel

84C3185—Reversible Lock. Size, 4 1/2 x 3 1/2 in. Light, but very strong. Iron bolts. Tinned key. With keyhole plate and screws. Ship. wt., 1 lb. (Without knob) Each 56c



Mortise Knob Latch

84C3220—Reversible Iron. Size, 1 1/2 x 3 1/2 in. Iron front, bolt and strike. Cannot be used with key. Ship. wt., 8 oz. (Without knobs.) Each 23c



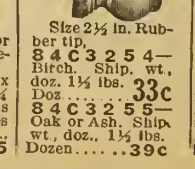
Rim Lock Wrought Steel

84C3186—Reversible. Size, 4 1/2 x 3 1/2 in. Iron bolts, nickel plated steel key, with screws. Japanned keyhole plate. Ship. wt., 13 oz. (Without knobs.) Each 68c



Mortise Knob Latch

84C3221—Reversible Mortise Knob Latch. Size, 1 1/4 x 3 1/4 in. Brass front and strike-plate; bronze bolt. Cannot be used with a key. Ship. wt., 8 oz. (Without knobs.) Each 39c



Inside Lock Set

84C2977—For inside doors, especially bedrooms. Mortise Lock, 3 1/4 x 3 1/4 in.; pair of 2 1/4 in. fine octagon glass knobs; 2 in. plates for knob. Ship. wt., 2 1/2 lbs. Set \$3.15



Store Door Lock

\$11.20
 Set comprises: One mortise cylinder lock, size, 5 1/4 x 3 3/4 in. A fine looking reversible; three keys; two solid bronze handles and two solid bronze plates, size about 3x1 1/4 in. A fine looking durable set. Ship. wt., 6 lbs.

84C3150—A finish, polished bronze. Set. \$11.20
84C3151—C finish, antique copper. Set. \$11.20
84C3152—E finish, lemon brass. Set. \$11.20



Store Door Lock

\$3.55 up
 Set comprises: One mortise lock, 4 1/2 x 3 1/2 in.; reversible; two handles, with plates about 3x1 1/4 in., and two flat keys. Ship. wt., 5 lbs.

84C3154—C finish, Antique copper. Price \$8.15
84C3155—E finish, Lemon on brass on bronze. Set. \$8.15
84C3158—L finish, Antique copper plated on steel. Set. \$3.55



Night Latches

84C3210—A high grade, secure latch. Keys all different. Japanned iron case. Size, 3 1/2 x 2 1/2 in. Brass knob and cylinder. For doors 1 1/2 x 2 1/2 in.; opening in or out; two strikes. With screws. Ship. wt., 1 1/2 lbs. Each \$2.40



Tubular Night Latch

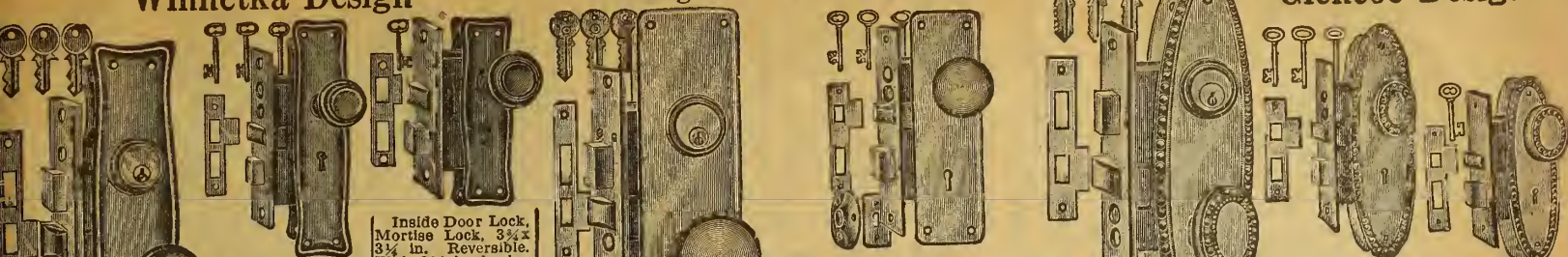
84C3208—Japanned iron case. Size, 2x3 in. Brass plated knob and cylinder. For doors 1 1/2 x 2 in. opening in or out, two strikes. With screws. Ship. wt., 1 lb. 69c

Miscellaneous Hardware That Will Serve Many Purposes

Winnetka Design

Rogers Park Design

Glencoe Design



\$10.20
 Cylinder Front Door Lock. Solid Bronze Trimmings. Mortise Lock, 5 1/2 x 3 1/4 in. Reversible. Heavy bronze bolts, front and strike. One bronze cylinder and 3 flat keys, operating both bolts from outside, and the lock bolt from inside. Outside Escutcheon, 10x3 in. Inside, 7 1/2 x 2 1/2 in. With turn screws. Ship. wt., 3 3/4 lbs.
\$2.55
 Front Door Lock Set. Mortise lock, 5x3 1/2 in. Heavy bronze reversible bolts, front and strike. 2 1/2 in. knobs, swivel spindle. 3 steel bit keys which operate both bolts from outside, and the lock bolt from inside. Outside Escutcheon, 10x3 in. Inside, 7 1/2 x 2 1/2 in. With turn screws. Ship. wt., 3 3/4 lbs.
Plated Steel
 84C2946-L finish. Each \$2.55
 84C2947-P finish. Each \$2.55
Solid Bronze
 84C2944-C finish. Each \$4.45
 84C2945-E finish. Each \$4.45

\$9.80
 Inside Door Lock, Mortise Lock, 3 1/2 x 3 1/4 in. Reversible. With 2 1/2 in. knobs. 1 steel bit key. 2 long Escutcheons, 7 1/2 x 2 1/2 in. With screws. C and E finish have Solid Bronze Trimmings, while L and P finish have plated steel trimmings. One of the finest and neatest designs made. Adapted for any kind of home or public building. Ship. wt., 2 lbs.
Solid Bronze
 84C2948-C finish. Each \$2.45
 84C2949-E finish. Each \$2.45
Plated Steel
 84C2950-L finish. Each \$1.15
 84C2951-P finish. Each \$1.15

\$2.20
 Front Door Lock Set. Mortise Lock, 5 1/2 x 3 1/4 in. Reversible. Heavy bronze reversible bolts, front and strike. 2 1/2 in. knobs, swivel spindle. 3 steel bit keys, which operate both bolts. Outside Escutcheon, 7 1/2 x 2 1/2 in. Inside, 1 1/2 x 1 in. Rose for knob. With screws. C, E and A finish are Solid Bronze while L finish is plated on steel. Ship. wt., about 3 lbs.
Plated Steel
 84C3010-C finish. Each \$2.25
 84C3011-E finish. Each \$2.25
 84C3012-A finish. Each \$2.25
84C3014-L finish. Each \$1.99
84C3015-L finish. Each \$1.10
 No. Finish Each
 84C3004 C \$4.10
 84C3005 B 4.10
 84C3006 A 4.10
 84C3008 L 2.20

\$10.20
 Cylinder Front Door Lock. Solid Bronze Trimmings. Lock, 5 1/2 x 3 1/4 in. 3 flat keys. Large 2 1/2 x 3 1/4 in. round knobs. Outside Escutcheon, 10 1/2 x 3 1/4 in. Inside, 7 1/2 x 2 1/2 in. With turn screws. Reversible. Ship. wt., 3 3/4 lbs.
84C2923-C finish. Each \$4.45
84C2925-E finish. Each \$4.45
84C2922-L finish. Each \$2.55
84C2924-P finish. Each \$2.55
84C2920-C finish. Each \$10.20
84C2921-E finish. Each \$10.20

Window Hardware

Sash Fasteners
 Plated Iron
 Ship. wt. doz., 3 1/2 lbs.
84C3330 - Brown, Plain bronzed iron. Dozen. **99c**
84C3332 - Antique copper finish. Dozen. **\$1.20**
84C3336 - Solid Brass. Antique copper finish. Ship. wt. doz., 7 oz. Ea. **\$0.54**
 Dozen. **5.70**

Steel Sash Fasteners
 Draws the top and bottom sash tightly together. Ship. wt. doz., 3 1/2 lbs.
84C3340-G Amber bronzed. Dozen. **87c**
84C3341-K Bronze plated natural color. Dozen. **92c**
84C3342-L Antique copper plated. Dozen. **92c**
84C3343-P Lemon brass plated. Dozen. **92c**

Casement Fasteners
 Reversible for right or left hand. Size, 1 1/2 x 1 1/2 in. With screws. Ship. wt., ea., 6 oz.
84C3372 - Polished antique copper finish (L). Each **\$0.24**
84C3374 - Dull lemon brass finish (P). Dozen. **\$0.24**
 Dozen. **2.55**

Transom Lifters
184C3310 - For transoms; binged at top, bottom or middle. Copper plated steel rods. Ship. wt. 2 to 4 lbs.
35c to 93c

Window Stop Adjusters
 Will not bend. Slotted concave brass washer permits close adjustment. With 1 in. plated screws to match. Ship. wt., dozen, 5 oz.
84C3400 - Polished Bronze finish. Dozen. **\$4.65**
84C3401 - Antique Copper finish. Dozen. **\$4.75**
 Dozen. **4.42**

Cremorne Bolt
 For French Windows and Doors
 Heavy plated knob and socket with 8 ft. of half oval plated steel rod any length. Bolt locks into sockets at top and bottom when knob is turned. Bronze plated. Ship. wt., about 3 lbs.
84C3384 - Pol. ant. copper finish. Set. **\$4.59**
84C3385 - Bright bronze plated. **\$4.59**
84C3386 - Lemon brass plated. Dozen. **\$4.59**

Cupboard Hardware

Cupboard Turns
Round Knobs
84C3466-L finish. Wrought steel. Antique copper finish. Size, about 2 1/2 x 2 1/2 in. With screws. Ship. wt., 6 oz. Each. **17c**

Cupboard Turns
Oval Knob
84C3470-L finish. Wrought steel, antique copper finish. Size, about 2 1/2 x 2 1/2 in. With screws. Ship. wt., 6 oz. Each. **18c**
84C3472-E finish. Lemon brass on solid bronze. Each. **69c**

Cupboard Catches
84C3460-L finish. Wrought steel, antique copper finish. Size, about 2 1/2 x 1 1/2 in. With screws. Ship. wt. 3 oz. Ea. **12c**

Cupboard Catches
84C3462-G brown finish. Iron with bronze plated knob. Size, about 3 1/2 in. With screws. Ship. wt., 4 oz. Each. **10c**

Steel Door Bolt
84C3524 - Polished brass, with securely bent staple. Without screws. Length, 4 in. Ship. wt. 12 oz. Each. **95c**

Cellar Bolts
84C3528 - Wrought steel, japanned. Without screws. Length, 2 1/2 in. Ship. wt., 4 oz. Dozen. **\$1.40**
 Each. **13c**

Drawer Pulls
Plated Steel
 Sbp. wt., dozen, 1 lb.
84C3505-L finish. Polished antique copper plated. Size, 3 1/2 x 1 1/2 in. Dozen. **55c**
84C3506-P finish. Dull lemon brass plated. Size, 3 1/2 x 1 1/2 in. With screws. Dozen. **55c**

Drawer Pulls
Solid Brass
 Sbp. wt., dozen, 1 lb.
84C3501-C finish. Polished antique copper. Size, 3 1/2 in. With screws. Dozen. **\$1.49**
84C3502-E finish. Dull Lemon Brass. Size, 3 1/2 in. With screws. Dozen. **\$1.49**

Door Bolts

Mortise Door Bolts
 With solid bronze knob and escutcheon. Length of bar, 2 1/2 in.
84C3516 - Polished bronze (A) finish. Ship. wt., 8 oz. Each. **42c**
84C3517 - Antique copper (C) finish. Ship. wt., 8 oz. Each. **42c**
84C3518 - Lemon brass finish. Each. **42c**

Steel Chain Bolts
 Wrought steel. Reversible. Length, 6 in. Bolt 1/2 inch. With 2 feet of chain, and screws. Ship. wt., 1 1/2 lbs. Japanned. Each. **83c**

Steel Chain Bolts
 Self latching. Bolt released by pulling chain. Regular and reverse strike. Ship. wt., 1 1/2 lbs. Black finish. **83c**
 6 in. **78c**
84C3559 - Polished antique copper. 6 in. **\$1.13**
 8 in. **\$1.49**

Steel Foot Bolts
 Locked by pressing with foot. Released by pressing with button. Ship. wt., 1 1/2 lbs.
84C3551 - Black finish. 6 in. each **73c**
 8 in. each **89c**
84C3552 - Polished antique copper. Pr. Ea. 6 in. **\$1.08**
 8 in. **\$1.18**

Steel Foot Bolts
 Plate, 6 in. long. Bolt, 1/2 in. With screws. Ship. wt., 1 1/2 lbs.
84C3546 - Japanned finish. Each. **78c**
84C3547 - Antique copper plated. Each. **89c**

Flush Bolts
84C3554 - Polished antique copper finish on iron. Size of plate, 1 1/2 x 3 1/2 in. with 12 in. bolt. For top or bottom of door. Has flush lever. (With screws) Ship. wt., 20 oz. Each. **98c**

Shelf Pins
84C4208 - Copper and Iron. To fit holes 1/4 in. Ship. wt. dozen. **10c**
 5 oz. Dozen. **10c**

Spring Sash Balances

\$1.95 Set
84C3571 - One size mortise fits all sizes of balances. Can be applied to old houses where weights cannot be used. Require no pocket or box frame. Steel tension spring and metal plate. Set consists of four balances, enough for two sash, or one complete window. Ship. wt. of set, 7 lbs. Give size.

Wt. of each sash glazed	Length of Tape, in.	Set of 4
4 to 5 lbs.	30	\$1.95
6 to 8 lbs.	30	2.10
8 to 9 lbs.	30	2.20
10 to 11 lbs.	46	2.55
12 to 13 lbs.	46	2.65
14 to 15 lbs.	46	2.75
16 to 17 lbs.	46	2.90
18 to 19 lbs.	46	3.10
22 to 23 lbs.	46	3.35

Cupboard Catches

84C3404 - Polished antique copper finish. Gross. **\$1.37**
84C3405 - Antique copper, dull sand finish. Gross. **\$1.46**
84C3407 - Brass, polished antique copper finish. Gross. **\$5.36**

Star Family Tool Set

\$8.35
184C2768 - Here is a bargain tool set. Contains 18 every day useful tools of standard quality - the most necessary assortment for use about the house and farm. With this set you can do all your odd jobs of carpenter work and easily save its cost in a short time. Packed in a plain box. Ship. wt., 1 1/2 lbs.
 Set contains one each of the following: Steel shingling hatchet; cold chisel, 1/2 in.; iron block plane; 8 in. bit brace; 1 in. chisel; 26 in. hand saw; 8 in. monkey wrench; 6 in. combination plier; steel try and miter square; 6 in. blade screw driver; 2 ft. rule. Also, 3 gimlet bits and 3 auger bits. Price, complete. **\$8.35**

Steel Sash Pulleys
84C3575 - All steel. Easily inserted. 2 in. wheel. Shipping weight, dozen, 2 lbs. Dozen. **85c**

Iron Sash Pulleys
84C3573 - Cast iron. With round ends. Polished. 2 in. wheel. Ship. wt., dozen, 5 lbs. Dozen. **98c**

Braided Cotton Sash Cord
EXTRA QUALITY
 Extra quality, long fibre cotton. In bundles of about 100 feet. Only sold in full bundles. It pays to buy the best. Prices subject to market changes. Will always bill at the very lowest price.
84C3587 - Size 7, diameter, 7/16 in. Ship. wt., about 1 1/2 lbs. Bundle. **\$1.93**
84C3588 - Size 8, diameter, 1/2 in. Ship. wt., about 2 1/2 lbs. Bundle. **\$2.73**
84C3589 - Size 10, diameter, 1 1/8 in. Ship. wt., about 3 lbs. Bundle. **\$3.28**

Hemp Sash Cord
84C3584 - Indian Hemp, cable laid. No. 7 Diameter, 7/16 in. Bundles of about 60 ft. Ship. wt., 1 1/2 lbs. A bundle. **65c**

Sash Lifts
84C3430 - Iron Polished antique copper plated. Length bar, 3 1/2 in. Ship. wt., 5 oz. Each. **79c**
84C3432 - Iron. Dull lemon brass plated. Each. **79c**
 Dozen. **79c**

Window Spring Bolts
84C3390 - Malleable iron, tinned, with tin case. Length, 3 3/8 inches. Ship. wt., doz., 1 lb. Dozen. **48c**

Hook Sash Lifts
 Beveled edge. Sbp. wt., dozen, 14 oz. Size, about 1 1/2 x 1 1/2 inches.
84C3420 - Antique copper (L) on steel. Dozen. **35c**
84C3422 - Dull lemon brass (P) on steel. Dozen. **35c**
84C3421 - Antique copper (C) on brass. Dozen. **\$1.15**

Sash Rollers
84C4420 - Japanned iron. Ship. wt., dozen, 1 to 2 lbs.

Diam. Roller about in.	Plate in.	Wt. Doz.	Doz.
3/8	1/2 x 1 1/2	8 oz.	29c
1/2	1 x 1 1/2	11 oz.	33c
3/4	1 1/2 x 1 1/2	21 oz.	43c
1	1 1/2 x 1 1/2	27 oz.	52c

Steel Door Buttons
84C3486 - Japanned Steel. (Not Iron). 1 1/2 in. Without screws. Ship. wt., gross, 3 1/2 lbs. Dozen. **9c**

Elbow Catches
84C3480 - For inside of china closet and cupboard doors. Japanned. Iron. Without screws. Sbp. wt., per dozen, 1 1/2 lbs. Dozen. **58c**

Plated Steel Pull
84C3265 - Antique copper finish. Size, 4 1/2 in. With screws. Ship. wt., each, 1 oz. Each. **5c**
 Dozen. **52c**

Star Family Tool Set
 Sbp. wt., dozen, 1 lb.
84C3501-C finish. Polished antique copper. Size, 3 1/2 in. With screws. Dozen. **\$1.49**
84C3502-E finish. Dull Lemon Brass. Size, 3 1/2 in. With screws. Dozen. **\$1.49**

The Practical and Most Economical Way to Buy Tools



Sterling Tool Chest \$27.95

Every householder should own one of these outfits. You can save many times its cost in the general repair work that it will enable you to do. The tools are of a standard grade that will give excellent and lasting service.

A well made chest, nicely finished with assortment of 36 standard tools. Inside dimensions length, 28 in., width, 14 in., and depth 9 1/2 in. Ship. wt., chest and tools complete 75 pounds.

One each of the following: wood jack plane; iron block plane; 22 in. hand-saw, Lakeside; 10 in. compass saw; 1 in., 3/4 inch, 1/2 in. and 1/4 in. chisels; 1 in. 3/4 in., 1/2 in., and 3/8 in. auger bits; screwdriver bit, hollow handle; 10 tools; 10 in. bit brace; 6 in. screwdriver; shingling hatchet; spoke shave; steel flat hammer; pocket level, 2 1/2 in.; 6 in. try square; marking gauge; flat cutting pliers; 6 in. compass; 8x2 in. oil stone; 2 ft. rule; carpenter's pencil; wrench, 8 in.; oil can; 6 in. flat file; 5 in. round file; 5 in. taper file; nail set; can glue; also, 2 gimlet bits and 3 file handles.

184C2770—Price, chest and tools complete. **\$27.95**

Empty Tool Chest.

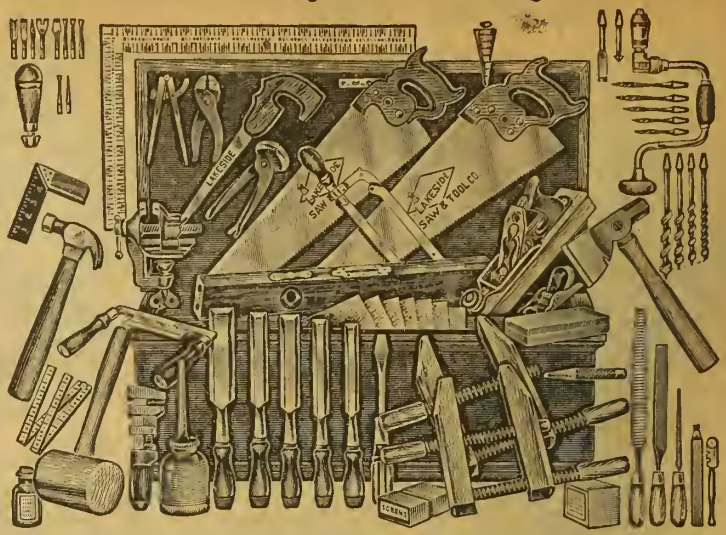
184C2771—Chest without tools. Ship. wt., 43 lbs. Each. **8.95**

A Complete Assortment of High Grade Tools That Will Always be Ready When You Want Them



Carpenters' Tool Case

184C2818 — Holds 28-in. saws and full size square. Hardwood, panel sides, brass lock, leather handle with rings for shoulder strap, metal clasp, metal corners and saw rack to hold four saws. Partitioned tray. Space in bottom. Outside measurements: Length, 34 1/2 in.; height, 17 in.; width, 6 in. Inside dimensions of tray: Length, 32 1/2 in.; height, 1 1/2 in.; width, 4 1/2 in. Ship. wt., 32 lbs. **\$12.25**



Defiance Tool Outfit—59 High Grade Tools with Chest \$44.40

Here's a fine chest of good tools that you'll be proud to own. Strictly high grade and intended for real hard use. Size of chest, length 31 1/2 in., width 16 in., depth 9 1/2 in., inside. Has sliding tray, lock and handles. Nicely finished. Ship. wt., 88 lbs. Set consists of the following:
 One each: Lakeside 24 in. hand saw, and rip saw; bench vise; 5 chisels 1/4, 3/8, 1/2, 3/4, 1 in.; 4 auger bits, 3/8, 1/2, 3/4, 1 in.; 5 gimlet bits; countersink bit; screwdriver bit; hollow handle awl and tools; ratchet bit brace, 10 in.; nail set; compass saw, 10 in.; wood bottom jack plane; flat cutting pliers, 6 in.; pair compasses, 6 in.; try square, 6 in.; wrench, 8 in.; carpenter's pencil; screwdriver, 6 in.; draw knife, 8 in.; half hatchet; steel hammer, heavy mallet; folding rule, plumb and level, 24 in.; iron block plane, 7 in.; 2 wood hand screws; taper file, 6 in.; 3 file handles; flat file, 8 in.; 10 in. cabinet rasp; steel square; iron plumb bob; nail pinners, emery oil stone, 6 in.; oil can; can glue. Asst. nails, asst. screws, asst. sand paper, hack saw, glass cutter.
 184C2778—Chest and Tools. Complete as described. **\$44.40**
 184C2779—Chest without tools. Ship. wt., 50 lbs. **9.60**

Door Checks and Accessories

Liquid Door Check and Spring

Quietly and automatically closes the door and keeps it under control. For right or left hand doors. Automatic regulating valve. Anti-freezing liquid oil. Gold bronze finish.
 84C3726—Size A. For light inside doors and screen doors. Ship. wt., 7 lbs. Each. **\$5.35**
 84C3727—Size B. For medium inside doors. Ship. wt., 9 lbs. Each. **\$6.95**
 84C3728—Size C. For heavy inside doors, and outside doors up to 2 ft. 8 in. by 1 1/2 in. Ship. wt., 11 lbs. Each. **\$8.25**
 84C3729—Size D. For heavy doors, up to 3 ft. by 7 ft. by 2 in. Ship. wt., 14 lbs. Each. **\$9.75**

Safety Door Chains

Wrought steel, plated finished. Door can be opened a few inches and still be safely locked against intruders. Size of plate, 6 1/2 x 1 1/2 inches. With screws. Ship. wt., 10 oz. **\$4.35**
 84C3531—L finish, antique copper plated. Each. **62c**
 84C3538—P finish. Full lemon brass plated. Each. **62c**

Parlor Door Hangers

Steel wheels with fibre tread, brass bushings. Track is notched and can be broken 6 and 12 in. from ends. With Hangers, Screws, Roller Guides, Stops and Track.
 184C3704—Single Door Set. With 8-ft. track. Ship. wt., 10 lbs. **\$3.52**
 184C3702—Double Door Sets. With 14-ft. track. Ship. wt., 20 lbs. Set. **\$6.40**

Rotary Door Bell

84C4718—Rings like an electric bell by simply turning the knob. Diameter of gong, 3 in.; nickel-plated steel. Complete with bronze turn and plate, polished antique copper finish, with square bar connecting bell with turn, which may be cut to length. Size of plate, 1 1/2 x 4 in. Ship. wt., 1 1/2 lbs. Each. **68c**

Push Button Door Bell

84C4710—Easily attached to the door casing. Needs no winding or battery. Diameter, about 4 in. Nickel plated, with polished solid bronze push button. Ship. wt., 2 lbs. Each. **\$1.29**

Rotary Door Bell

84C4715—Made of pure bell metal, with bronze metal turn and plate, all finished in antique copper. Rings like an electric bell by simply turning knob. Complete with square bar connecting bell with turn. Diam. of gong, about 3 1/2 in. Size of plate 1 1/2 x 3 1/2 in. Ship. wt., 1 1/2 lbs. Each. **\$1.23**

Ornamental Surface Hinge

Antique Copper Plated Steel. Ship. wt., pair, 4 oz. With Screws
 84C3650—Size, 3 1/2 x 1 1/2 in. One pair. **\$0.29**
 Doz. prs. **3.25**
 84C3652—Antique Copper plated steel. Size, 2 1/2 x 1 1/2 in. Ship. wt., 3 oz. One pair. **\$0.29**
 Doz. prs. **3.25**

Chest Hinges

84C3642—Wrought Steel. (Without screws.) Ship. wt., pr., 6 and 10 oz. Give size.
 Size, 1 1/2 in. 2 in. One pair. **\$0.15** **\$0.20**
 Dozen pairs. **1.49** **2.10**

Refrigerator Hinges

Without Offset
 84C3496—Wrought steel. Bronze plated. Size, 2 1/2 x 5 in. with screws. Ship. wt., pair, 1 lb. Pair. **42c**
 84C3490—Bronzed iron latch and plate for ice box doors. Size, 1 1/2 x 3 in. With screws. Ship. wt., complete, 10 oz. Each. **36c**

Refrigerator Latches

84C3490—Bronzed iron latch and plate for ice box doors. Size, 1 1/2 x 3 in. With screws. Ship. wt., complete, 10 oz. Each. **36c**

Door Hinges and Butts

Plated Steel Door Butts

Loose pin. Smooth surface. Two finishes. Both same price. With screws. Ship. wt., oz. per pair, 6, 10, 14, 22, 30
 84C3600—Antique Copper finish. **40c**
 84C3602—Lemon Brass finish. **40c**
 Size, 2x2 in. Per pair. **41c**
 Size, 2 1/2 x 2 1/2 in. Per pair. **42c**
 Size, 3x3 in. Per pair. **44c**
 Size, 3 1/2 x 3 1/2 in. Per pair. **44c**
 Size, 4x4 in. Per pair. **58c**

Half Surface Steel Butts

One half is screwed on surface of door. Reversible. With screws. Two finishes. Both same price.
 Order by these numbers.
 84C3614—Antique copper finish.
 84C3616—Lemon brass finish.

Size	Ship. Wt., Pair	One Pair
3 in.	20 oz.	54c
3 1/2 in.	28 oz.	59c
4 in.	36 oz.	79c

Half Surface Plated Steel Butts

Reversible with screws. Two finishes. Both same price.
 84C3618—Antique copper finish.
 84C3620—Lemon brass finish.

Size	Ship. Wt., Pair	One Pair
3 in.	16 oz.	60c
3 1/2 in.	22 oz.	67c
4 in.	30 oz.	83c

Plain Wrought Butts

84C3632—Wrought steel reversible butts, with plain surface. (Without screws.) Ship. wt., doz. pairs, 7 to 24 lbs. Give size.

Size Open	Size of Screws	One Pair	Doz. Pairs
3 x 2 1/2	No. 10	18c	\$1.96
3 x 3	No. 10	20c	2.15
3 1/2 x 3 1/2	No. 11	30c	3.15
4 x 4	No. 11	39c	3.90

Narrow Steel Butts

84C3636—Plain Wrought Steel Butts, fast joint. Without screws. Ship. wt., pr., 2 to 8 oz. Give size.
 Size, 1 1/2 x 1 1/2 in. Pair. **4c** **5c** **7c** **8c**
 Doz. prs. **38c** **47c** **64c** **74c**
 Size, 2 x 2 in. Pair. **9c** **10c** **11c** **12c**
 Doz. prs. **84c** **97c** **1.05** **1.35**

Wrought Brass Butts

84C3645—Brass Butts with fast joint. (Without screws.) (Price subject to market changes.)

Size Inches	Ship. Wt. Per Pair	One Pair	Dozen Pairs
1 1/2 x 3/4	3 oz.	5c	\$0.40
1 1/2 x 1/2	4 oz.	6c	.50
1 1/2 x 3/8	8 oz.	7c	.65
1 1/2 x 1/4	10 oz.	8c	.75
2 x 1 1/2	1 lb.	12c	1.25
2 x 3/4	1 1/2 lbs.	20c	2.30
2 x 1 1/4	3 lbs.	34c	4.05

Steel Blind Hinges

84C3850—For Wood buildings. Reversible. Set of 4 hinges, 2 latches complete with screws. Ship. wt., 1 lb. One set. **\$0.44**
 Dozen sets. **4.95**

Glass Push Plate

84C3178—Size about 2 1/2 x 10 inches. Clear plate glass with bevel edges. Screws included. A design that is simple but attractive. One that will harmonize well with any lock set. Does not tarnish like metal. Size, about 3x12 in. Ship. wt., about 6 ounces. Each. **72c**

Metal Push Plates

84C3172—Solid brass. Ant. copper plated. Each. **72c**
 84C3173—Solid brass. Lemon brass color. Each. **72c**
 84C3174—Solid brass, polished. Ea. **72c**
 84C3175—Stamped steel. Ant. copper plated. Each. **26c**

Eclipse Door Check

With detachable feet. Adjustable. For use with Eclipse spring. Lacquered brown.
 84C3722—For ordinary doors. Diam. of cylinder, 1 1/2 in. Ship. wt., 3 lbs. **\$2.65**
 84C3723—For heavy doors. Diam. of cylinder, 2 1/4 in. Ship. wt., 6 lbs. Each. **\$3.45**

Eclipse Door Spring

For right or left hand doors. Tension is adjustable. Lacquered brown. Directions included.
 84C3720—For inside or light outside doors. Ship. wt., 5 lbs. Each. **\$1.98**
 84C3721—For heavy outside doors. Ship. wt., 6 pounds. Each. **\$2.65**

Double-Acting Spring Hinges

84C3671—Swing both ways. Have adjustable covered tension springs. Easily applied and substantially constructed. Black japanned steel. (With screws.) Give size.

Size In.	Thickness of Door, Inches	Ship. Wt., Lbs.	One Pair
3	3/4 to 1	4	\$2.72
4	1 to 1 1/4	4 1/2	3.40
5	1 1/4 to 1 1/2	6	4.08
6	1 1/2 to 1 3/4	8	5.44

Floor Spring Hinge

Double acting. Ball bearing. Fitted into lower corner of door. Concealed by plate. With screws. Give size and finish. Ship. wt., 2 to 5 lbs.

For Doors Thickness Inches	84C3680 Japanned Each	84C3681 Br'ze Pl'd Each	84C3682 Cop'r Fin. Each
1 1/4 to 1 1/2	\$1.55	\$1.70	\$1.75
1 1/2 to 2	2.76	3.52	3.79

Mortise Floor Spring Hinge

Ball-bearing. Double acting. With screws. Ship. wt., 7 to 12 lbs. Give size and finish.

For Door Thickness Inches	84C3674 Black Fln. Cop'r Fin. Each	84C3676 Each
1 1/4 to 1 1/2	\$3.25	\$3.45
1 1/2 to 2	3.80	4.10
2 to 2 1/2	5.76	5.95

Automatic Door Holder

Locked and released by foot. Will not injure the floor. Length, 4 1/2 in.; bolt has 1 1/2 in. drop. Rubber tip. Ship. wt., 12 oz.
 84C3692—Amber bronzed. **60c**
 84C3693—Polished Antique copper L finish. Each. **35c**
 84C3694—Plated Lemon Brass. P finish. Each. **35c**

Door Hangers, Cupolas and Barn Hardware

Hinge Joint Barn Door Hangers

Heavy wrought steel with roller bearing wheels. Fits any size door track and length of run. Hinge joint makes the hanger flexible, prevents door from bending and jumping track when swung in or out, as it has a guard running under the rail holding the hangers in position.

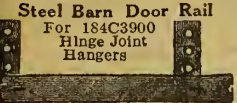


\$1.29 PAIR

- 84C3900**—Pair with necessary bolts (without Track). Order 184C3901 track. Ship. wt., 7 lbs. **\$1.29**
- 184C3902**—For 8-foot doors, complete set of hangers, 16 feet track and necessary bolts and screws. Ship. wt., about 25 lbs. **\$3.55**
- 184C3903**—For 10-foot doors, complete set of hangers, 20 feet track and necessary bolts and screws. Ship. wt., about 30 lbs. **\$4.25**
- 184C3913**—For 6-ft. doors, complete set of hangers, 12 ft. of track, and necessary bolts and screws. Ship. wt., about 17 lbs. **\$3.35**

Steel Barn Door Rail

For 184C3900 Hinge Joint Hangers



184C3901—Made of round edge steel. Size, 1 1/2 in. by 3/4 in. Steel brackets, countersunk for No. 12 screws. (Screws not included.)

Length, feet. 4 6 8 10
Ship. wt., lbs. 4 6 8 10
One length. 48c 69c 93c \$1.18

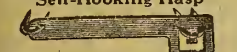
Barn Door Stay Roller **20c**

84C3930—Adjustable Hinge Joint Stay Roller. Will fit closely to the floor. Wrought steel, iron wheel. (Without screws.) Shipping weight, 14 oz. Each.

Barn Door Stay Roller **13c**

84C3936—Wrought shank iron wheel. Length, 7 in. Ship. wt., each, 12 oz. Each.

Self-Hooking Hasp



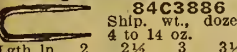
84C3864—Wrought steel. Length, 7 1/2 in. Ship. wt., each, 8 oz. Each, **12c**. Doz., **\$1.35**

Wrought Steel Staples **84C3886**

Ship. wt., dozen, 4 to 14 oz.

Lgth., in. 2 2 1/2 3 3 1/2
Dozen. 9c 12c 17c 20c

Hinge Hasps



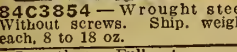
84C3854—Wrought steel. Without screws. Ship. weight, each, 8 to 18 oz.

Strap Length Inches	Full Length Inches	Each
3	6	9c
4 1/2	7 1/2	15c
8	12 1/2	22c
10	15 1/2	30c

Brass Security Hasp **84C3858**

Polished cast brass. Size, Length, 2 1/2 x 1 1/2 inches. Without screws. Ship. wt., 10 ounces. Each. **58c**

Steel Safety Hasp



When locked the screw heads are concealed.

Strap, 4 1/2 in. With screws. Length of each. **33c**

84C3857—Galvanized. **43c**

Safety Basket Hasp **84C3856**

Wrought steel, bronze plated. Length, 2 1/2 in. Width at closed, 3 3/4 x 1 1/2 inches. Without screws. Ship. wt., 10 ounces. Each. **58c**

84C4452 Heavy Steel Door Pull

Wrought steel, 2 1/2 in. ring and swivel on japanned iron plate drilled for screws. Ship. wt., each, 12 oz. (Without screws.) Each. **18c**


Barn Door Cast Pull



84C3940—Japanned. A good firm hand hold. Length, about 6 in., width about 1 1/2 in. Ship. weight, each, 2 oz. (Without screws.) Each. **7c**

84C3941—Nicely japanned. Length, 10 1/2 in., width at ends, 2 1/2 in. With screws. Ship. wt., each, 12 oz. Each. **54c**

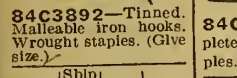
Safety Gate Hooks



84C3882—Tinned. Malleable iron hooks. Wrought staples. (Give size.)

Lgth.	Shp. Wt. Doz.	Ea.	Doz.
4 in.	2 1/2 lbs.	20c	\$2.25
6 in.	2 1/2 lbs.	30c	3.45

Heavy Hooks and Staples



84C3884—Complete with strong staples.

Size	Shp. Wt.	Ea.	Doz.
4 in.	3 oz.	3c	47c
6 in.	4 oz.	4c	63c

Hog or Poultry House Cupola

284C5095—Suitable for hog houses and poultry houses, garages, etc. Gives a building a finished ornamental appearance at a small cost, and at the same time the needed amount of good ventilation.

Made of heavy galvanized sheet steel. Well braced and securely constructed. Holes punched on four sides for connecting lightning rod to standard 3/4-inch galvanized rod in the center extending through the top with a nice acorn top piece, animal or rooster vane. Shipped taken down and nested. Securely crated. Ship. wts., 45, 65 and 85 lbs. Prices subject to market changes.

Shipped from factory, Chicago, Ill.

Size of Base	Diam. of Flue	Ht. Feet	Each
20 in.	12 in.	5	\$11.85
24 in.	16 in.	6	13.75
27 in.	18 in.	7	17.25

Harness Hooks



84C4314—Japanned cast iron. Length, about 8 in. Ship. wt., ea., 1 lb. Each. **\$0.19**

84C4316—Japanned wrought steel. Folds back when raised. Lgth. about 10 in. Ship. wt., 1 1/2 lbs. Each. **\$0.27**

Dozen. **\$2.99**

Length about 12 in. Ship. wt., 2 lbs. Each. **\$0.32**

Dozen. **3.45**

Improved Trolley Barn Door Hanger

84C3919—The latest and best hanger. Heavy wrought steel. Built for hard usage on heaviest doors. Has a hinged joint so door will not bind when swung out. A detachable door strap makes it easy to hang the door. Lateral adjustment to fit doors 1 1/2 to 2 1/2 in. thick. Easy running Roller Bearing Wheels. Heavy steel track and brackets. A pair consists of two hangers, two end brackets and one center bracket with bolts and screws. Ship. wt., pair, 10 lbs. **\$2.39**



84C3922—For 8-foot doors with 16 feet track, screw bolts brackets, etc. Ship. wt., about 33 lbs. Price, complete **\$8.05**

84C3924—For 10-foot doors with 20 feet track, screw bolts brackets, etc. Ship. wt., about 40 lbs. Price, complete. **\$9.65**

Complete With Track For 8-Foot Doors **\$8.05**

Storm Proof and Bird Proof

Steel Trolley Track

84C3920—Heavy wrought steel, without brackets. Give size.

Lgth., ft.	4	6	8	10
Shp. wt., lbs.	7	10	14	17
Each.	\$1.05	\$1.55	\$2.05	\$2.55


Steel Track Brackets

84C3921—Heavy wrought steel for single track. Attach about 3 ft. apart. Without screws. (Use 3/4-in lag screws.) Ship. wt., 1/2 lb. Each. **15c**

84C3927—Double track brackets. Without screws. Wt. 4 lbs. Each. **64c**

(Note: Single brackets are used, except when two tracks are hung side by side—in which case double brackets are used.)

Folding Garage Door Hanger



84C3928—Easy operating, Sliding Folding Garage Set. Can be used for 3, 4, 5 or 6 door combination. Just a slight push starts the doors in motion, which makes them fold and slide smoothly and easily on the inside of garage and out of the way.

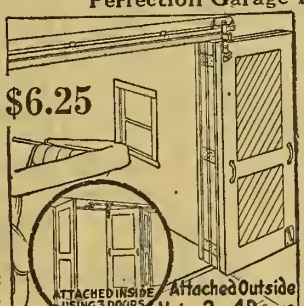
This set can be used on any opening up to 16 feet in width.

Made of heavy steel. Painted black.

Set consists of Ball Bearing swivel door hanger, 3 adjustable brackets with screws to attach. Ship. wt. set 12 lbs. Price. **\$4.95**

Note: Track Butts, Bolts, and handles not included. For Track, see 184C3920 on this page. Three-door combination requires one set and 4, 5 and 6 doors require two sets.

Perfection Garage Door Hanger



84C3923—Works inside or outside, right or left. Closes doors tightly. Regular set for two 4-ft. doors comprises, 1 pivoted sliding hanger, with anti-sag adjustment; 8-ft. track; 3 pair 4x4 butts; 2 door handles; 1 improved foot bolt; 1 top guide and closer. All japanned steel.

Bolts and screws included, except for track. Can be used with any number or size of doors. Ship. wt., with track, 30 pounds. Price, set complete for two 4-ft. doors including steel track. **\$6.25**

Attached Inside Using 3 Doors **\$6.25**

Attached Outside Using 2 or 4 Doors

Steel Barn Door Latch



84C3874—Combination Automatic Sliding or Swinging Door Latch. Attachment for lock. Latch throws back, leaving edge of door clear. Has inside latch and pull. Reversible, right or left. Length, 8 in. Ship. wt., 2 lbs. Each. **42c**

Sliding Door Latch



84C3937—Extra heavy steel. Also a splendid door bar staple. Length, about 8 in. Ship. wt., 1 lb. Each. **14c**

84C3875—Latch complete length, 10 in. Ship. wt., about 2 lbs. Price, each. **58c**

For any style swing or slide barn door, garages, hen houses, etc. Two handles may be operated from inside or outside. Extra staple to fasten door when open. Will fit left or right hand doors. Can be locked with padlock.

Large Barn Cupola

284C5097—Extra large, ornamental cupola.

Made of heavy galvanized steel. Edges are reinforced with 3/4-in. iron rods. Rain, snow or wind cannot get in. Cupola is screened with galvanized bird-proof netting. Base molding cut in four corners, strongly braced and riveted. Holes punched on four sides for connecting lightning rod to a 3/4-inch galvanized iron rod in the center extending through top with nice acorn top piece, large animal vane and ball on top. Suitable for barns from 30 to 60 feet long. For barns over 60 feet, use two cupolas. Shipped taken down and securely crated. Shipping wts., 180, 210 and 220 lbs.

Prices subject to market changes.

Shipped from factory, Chicago, Illinois.

Diam. of Vent. Flue	Base Moulding	Height Feet	Each
24 in.	46x46 in.	11	\$45.90
27 in.	49x49 in.	12	51.60
30 in.	54x54 in.	13	52.75

Revolving Chimney Top

84C5092—Produces a strong, regular draft under almost all conditions, and prevents down draft. The iron mountings are substantial, top is pivoted so as to revolve easily. Hood and vane are of heavy galvanized iron.

Diam. Base, in.	Shp. wt., lbs.	Each.
6	6	\$1.70
7	7	\$1.90
8	8	\$2.55

Barn Door Hangers

Heavy wrought steel. Wheels are roller bearing. Runs on track 184C3908.

84C3904—Medium size. 1. Width, 5 in. Length, 10 1/2 in. Diameter of wheel, 3 1/2 in. Ship. wt., pair, 6 lbs. Without bolts or screws. **98c**

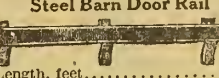
184C3911—For 8-foot doors, hangers, 16 feet track, necessary bolts and screws. Ship. wt., 25 lbs. Price, complete. **\$2.85**

84C3905—Large size. 2. Width, 6 in. Length, 12 in. Diameter of wheel, 4 in. Ship. wt., pair, 9 lbs. Price. **\$1.20**

184C3912—For 10-foot doors, hangers, 20 feet track necessary bolts and screws. Ship. wt. about 29 lbs. Price complete. **\$3.55**



Steel Barn Door Rail



Length, feet. 6 8 10
Shp. wt., lbs. 5 6 8
One length. 59c 78c 98c

For Track see No. 184C3908

Wrought steel black japanned. Wheels have steel axles and run in a slot the width of the hanger, reduces wear and makes them run easy.

84C3906—Size, 8x10 1/2 in. Ship. wt., pair, 9 lbs. Without bolts or screws. **\$1.49**

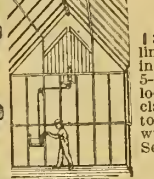
184C3909—For 8-foot doors, hangers, 16 ft. track and necessary bolts and screws. Ship. wt., about 29 lbs. **\$3.35**

84C3907—Size, 11 1/2 x 11 1/2 in. Ship. wt., pair, 11 lbs. Without bolts or screws. **\$1.87**

184C3910—For 10-foot doors, hangers, 20 feet track and all bolts and screws. Ship. wt., 35 lbs. Set. **\$4.35**



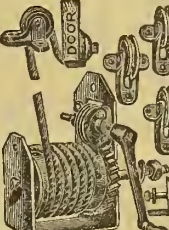
Convenient Barn Door Hoist



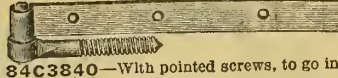
184C3945—For handling Vertical Sliding doors in hay lofts, etc. Strong 5-in. iron drum, self-locking, three pulleys; one clamp, for fastening cable to door. Japanned. Ship. wt., 28 lbs. **\$7.95**

Wire Cable

184C3946—For above hoist. Strong and durable. Size, 3/16 in. Ship. wt., per 100 ft., 12 1/2 lbs. Price subject to market changes. Foot **10c**



Heavy Wrought Screw Strap Hinge



84C3840—With pointed screws, to go in wood post. (Give size)

Length of strap inches	10	12	14
Ship. Wt., pair, 4 1/2, 5, 6 1/2 lbs.	\$0.40	\$0.50	\$0.70

Wrought T Hinges

Wrought Steel, Sizes below indicate length of the strap. Without screws.

Size in.	Width joint	Shp. wt., pair	Size screw	One pair
3	2 1/2	4 oz.	7	10c
4	2 1/2	5 oz.	7	11c
5	2 1/2	7 oz.	8	13c

84C3828—Light Pattern. **84C3830**—Extra heavy

Size in.	Width joint	Shp. wt., pair	Size screw	One pair
6	4 1/2	6	10	\$0.29
8	5 1/2	8	12	.48
10	7	10	14	.72
12	7 1/2	14	14	1.03

Corrugated Heavy T-Hinges

84C3832—Wrought Steel Corrugated T-Hinges. The corrugations at the joints greatly increase the strength and prevent binding on the pin. Sizes indicate length of the strap. Without screws. (Give size.)

Size in.	Width joint	Shp. wt., pair	Size screw	One pair
4	3 1/2	3 1/2 lb.	10	18c
5	4	4 lb.	10	30c
6	4 1/2	5 1/2 lbs.	12	49c
8	5 1/2	7 1/2 lbs.	14	74c
10	7	10 lbs.	14	74c

84C3846—Wrought steel latch malleable hinges. Fastened on surface. Ship. wt., set of 2 hinges, 1 latch and screws 2 lbs. With directions. Set. **77c**




Wrought Strap Hinges

Wrought Steel. Sizes given are one-half the total length of hinge when open. Without screws. (Give size.)

84C3820—Light Pattern.

Size in.	Width joint	Shp. wt., pair	Size screw	One pair
3	1 1/2	3 oz.	6	10c
4	1 1/2	5 oz.	7	12c
5	1 1/2	8 oz.	8	15c

84C3821—Heavy Pattern.

Size in.	Width joint	Shp. wt., pair	Size screw	One pair
4	1 1/2	10 oz.	9	15c
5	1 1/2	15 oz.	9	20c
6	2 1/2	1 1/2 lb.	10	25c
8	2 1/2	3 lb.	12	40c
10	3 1/2	3 1/2 lb.	12	60c


Standard Barn Cupola

284C5096—Large, attractive cupola. So constructed as to continually draw out foul air and replace it with fresh air without creating a draught. The barn is kept free from odors, and the air inside clean and wholesome.

Made of heavy galvanized steel, all bolts punched on four sides for connecting lightning rod to a standard 3/4-inch galvanized iron rod in the center extending through top with a nice acorn top piece, large animal vane and ball on top. Well made; will last a lifetime. Shipped taken down and nested. Securely crated. Ship. wts., 90, 110 and 135 lbs.

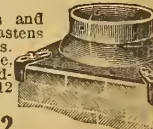
Prices subject to market changes. Shipped from factory, Chicago, Ill.

Size of Base	Diam. of Flue	Ht. Feet	Each
27x27 in.	18 in.	7	\$24.30
30x30 in.	20 in.	8	27.80
36x36 in.	24 in.	9	37.75



Cast Iron Chimney Cap

84C5093—Protects the bricks and lasts as long as the chimney. Fastens securely with malleable corner clamps. Diam. of collar, 7 in. Size of base, 12 1/2 x 16 1/2 in. Clamps can be adjusted to fit 4x3, 4x12, 8x3, or 8x12 in. flues. Ship. wt., 15 lbs. Each. **\$1.72**




Dependable Hardware at Prices that will Save You Money



Six Lever Lock
62c

84C3962—A good padlock that will give many years of satisfactory service. Wrought steel case and chain. Japanned Self-locking. Two keys. Width, 2 in. Ship. wt., 12 oz. Each..... 62c

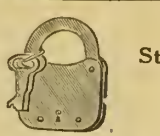


Brass Plated Padlock
37c

84C3955—Wrought steel. Width, 2 1/2 in. With two keys that fit in the pin in key hole. A neat, serviceable lock. Ship. wt., 8 oz. Each..... 37c



Strong Steel Padlock
84C3966—Wrought steel, Japanned. Self-locking. Two corrugated flat steel keys. Good secure mechanism. Width 2 in. Ship. wt., 10 oz. each..... 48c



Steel Padlock
23c

84C3950—Wrought steel case. Ebony black finish. Malleable self-locking shackle. Two flat steel keys. Width of lock, 2 in. Ship. wt., 4 oz. Each..... 23c

84C3952—Large, wrought steel. Ebony black finish. Brass inside works. Width, 2 1/2 in. Ship. wt., 8 oz. Each..... 37c



Keyless Click Padlock
\$1.69

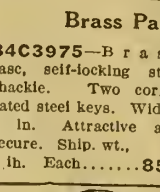
Width 1 1/2 in. Ship. wt., 7 oz. 84C3995—Each..... \$1.69
A lock that can be opened in the dark as easily as by sight by counting the clicks. No keys to lose. No tumblers, no rivets, no springs, no bolts, nothing to get out of order. Each lock carefully adjusted at factory to a combination that is on direction card sent with lock. Made of rust resisting material, practically dust and moisture proof.



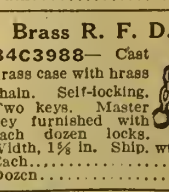
Solid Brass Padlock
84C3968—Extra heavy. All brass self-locking. Width, 2 in. With chain and two brass keys. Excellent for boats and in all exposed places. Nothing to rust. Ship. wt., 2 1/2 lb. Price..... 85c



Secure Cylinder Padlock
84C3983—Rust-resisting black finished heavy iron case with brass chain. Brass self-locking shackle. Two flat keys. A very serviceable and secure outdoor lock. Keys all different. Width, 2 in. (Ship. wt., 18 oz. Each..... \$1.98



Brass Padlock
84C3975—Brass case, self-locking steel shackle. Two corrugated steel keys. Width, 2 in. Attractive and secure. Ship. wt., 1 lb. Each..... 85c



Brass R. F. D. Padlock
84C3988—Cast brass case with brass chain. Self-locking. Two keys. Master key furnished with each dozen locks. Width, 1 1/2 in. Ship. wt., 6 oz. Each..... \$0.69 Dozen..... 7.80



Brass Face Box Locks
84C4010—1 1/2 x 1/2 in. Key pin, 1/2 in. from top. 1 key. Ship. wt., 2 oz. Each..... 16c



Chest Locks
84C4012—Brass face. Width, 1 1/2 in. Key pin, 1/2 in. from top. Each..... 37c
84C4013—Iron. Width, 2 in. Key pin, 1/2 in. from top. Each..... 35c
84C4014—Iron. Wd. 2 1/2 in. Key pin, 1/2 in. from top. Each..... 39c
84C4015—Brass. Width, 2 1/2 in. Key pin, 1/2 in. from top. Each..... 48c



Brass Chest Locks
84C4018—Brass. Width, 2 in. For 3/4 in. wood. Two keys. Ship. wt., 4 oz. Each..... \$1.14
84C4019—Brass. Width, 2 1/2 in. For 3/4 in. wood. One key. Ship. wt., 5 oz. Each..... \$1.47



Brass Face Chest Locks
84C4023—Width, 3 in. Key pin, 1 1/2 in. from top. One key. Ship. wt., 5 oz. Each..... 79c



Chest Locks
84C4026—Iron. Self-locking. One key. Brass escutcheon. 3 1/2 in. wide, 2 1/2 in. deep. Ship. wt., 8 oz. \$1.08



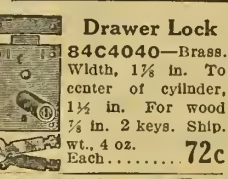
Drawer Lock
84C4035—Iron. Width 2 in. Key pin 1/2 in. from top. Each..... 56c
84C4036—A 1 1/2 in. brass. Width, 2 1/2 in. Key pin, 1/2 in. from top. Each..... 89c



Drawer Lock
For 3/4 in. wood. To center of cylinder. 1 key. Two keys. Ship. wt., 3 oz. Each..... 44c
84C4039—Brass. Width, 2 in. Ea. 76c



Mortise Lock
84C4048—Iron. Size, 2 1/2 x 1 1/2 in. Key pin, 1/2 in. from top. 1 key. Ship. wt., 3 oz. Each..... 22c



Drawer Lock
84C4040—Brass. Width, 1 1/2 in. To center of cylinder, 1 1/2 in. For wood 3/4 in. 2 keys. Ship. wt., 4 oz. Each..... 72c



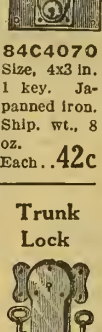
Cupboard Locks
84C4045—Iron. 2 1/2 in. wide. 1 1/2 in. deep. Ship. wt., 2 oz. Each..... 13c
84C4054—Size, 2x1 in. Each..... 10c
84C4055—Size, 2 1/2 x 1 1/2 in. Each..... 12c
84C4056—Size, 3x1 1/2 in. Each..... 14c



Wardrobe Locks
For right or left hand doors. Ship. wt., 3 oz. Each..... 10c
84C4061—Brass. Size, 2 1/2 x 1 1/2 in. Two keys. For wood 3/4, 1 or 1 1/2 in. (Give size.) Ship. wt., 4 oz. Each..... \$1.14



Trunk Lock
84C4070—Size, 4x3 in. 1 key. Japanned iron. Ship. wt., 8 oz. Each..... 42c



Trunk Lock
84C4072—Solid brass. Size closed, 6 1/2 x 1 1/2 in. 2 keys. Ship. wt., 14 oz. Ea. \$1.39



Chest Handle
84C4240—Japanned. Without screws. Size, 3 1/2 in. handle. Ship. wt., 1 lb. Pair..... 27c
84C4241—Size, 4 in. Ship. wt., 1 1/2 lbs. Pair..... 32c



Chest Handle
84C4242—Japanned. Heavy steel. Neater and stronger than cast iron. Ship. wt., 12 oz. 84C4247—Japanned. Width of handle, 4 in. (Without screws.) Pair 37c
84C4248—Polished Antique Copper finish. Width of handle, 3 1/2 in. (With screws.) Pair 32c
84C4249—Polished Antique Copper Finish. Width of handle, 4 in. (With screws.) Pair 48c



Chest Handle
84C4245—Japanned, shaped handle. Length, 4 1/2 in. (With screws.) Ship. wt., 1 1/2 lbs. Pair..... 57c



Trap Door Ring
84C4255—Steel. Japanned. Plate, 3 1/2 x 3 1/2 in. With screws. Ship. wt., 10 oz. Each..... 27c



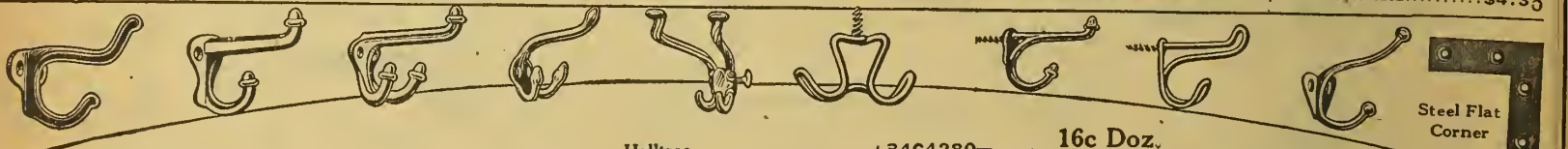
Polished Brass Box Corners
84C4215—Size, 1 1/2 x 1 1/2 in. Ship. wt., doz. 8 oz. Pkg. of 4..... 78c



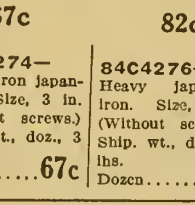
Polished Brass Box Corners
84C4216—A popular shape. Covers all three sides equally. Medium wt., Size, 1 1/2 x 1 1/2 in. Ship. wt., doz., 10 oz. With screws. Pkg. of 4..... 83c



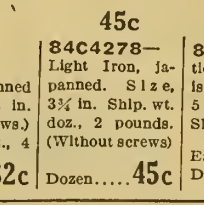
Polished Brass Box Corners
84C4217—Size, 2 1/2 x 2 1/2 in. Extra heavy brass. Ship. wt., dozen, 2 lbs. With screws. Each..... 34c Dozen..... \$3.90



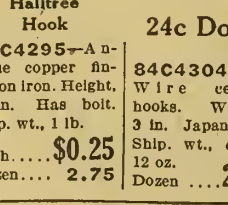

Halltree Hook
84C4270—Japanned iron. No screws. Ship. wt., doz., 2 lbs. Dozen..... 62c
84C4271—Bronze plated. 3 in. With screws. Ship. wt., doz., 2 lbs. Dozen..... 79c



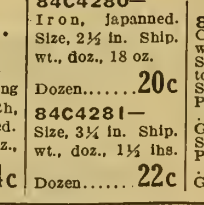
Halltree Hook
84C4274—Heavy iron japanned. Size, 3 in. (Without screws.) Ship. wt., doz., 3 lbs. Dozen..... 67c



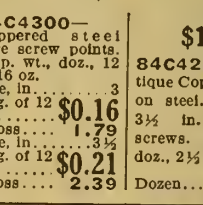
Halltree Hook
84C4276—Heavy japanned iron. Size, 3 in. (Without screws.) Ship. wt., doz., 4 lbs. Dozen..... 82c



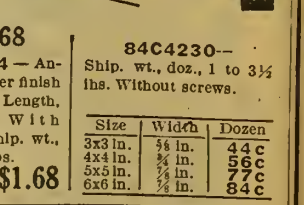
Halltree Hook
84C4278—Light iron, japanned. Size, 3 1/2 in. Ship. wt. doz., 2 pounds. (Without screws) Dozen..... 45c



Halltree Hook
84C4295—Antique copper finish on iron. Height, 5 in. Has bolt. Ship. wt., 1 lb. Each..... \$0.25 Dozen..... 2.75



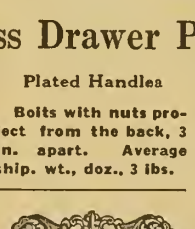
Halltree Hook
84C4304—Wire ceiling hooks. Width, 3 in. Japanned. Ship. wt., doz., 12 oz. Dozen..... 24c



Halltree Hook
84C4280—Iron, japanned. Size, 2 1/2 in. Ship. wt., doz., 18 oz. Dozen..... 20c
84C4281—Size, 3 1/2 in. Ship. wt., doz., 1 1/2 lbs. Dozen..... 22c
84C4300—Coppered steel wire screw points. Ship. wt., doz., 12 to 16 oz. Size, in. Pkg. of 12 \$0.16 Gross..... \$1.79
84C4284—Antique Copper finish on steel. Length, 3 1/2 in. With screws. Ship. wt., doz., 2 1/2 lbs. Dozen..... \$1.68



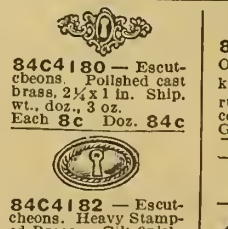
Plated Handles
84C4112—Polished cast brass. Size, 4x 2 1/2 inches. Each..... \$0.15 Dozen..... 1.62



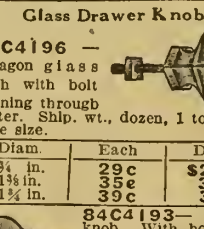
Plated Handles
84C4104—Polished cast brass. 4 1/2 x 1 1/2 in. Each..... \$0.38 Dozen..... 3.72



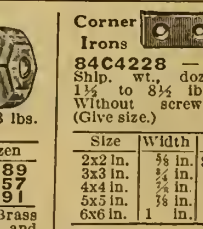
Plated Handles
84C4140—Stamped Brass. Gilt finish. Size, 4 1/2 x 2 in. Per pkg. of 4..... 36c
84C4120—Stamped Brass. Gilt finish. Size, 4x1 1/2 in. Per pkg. of 4..... 29c



Plated Handles
84C4180—Escutcheons. Polished cast brass. 2 1/2 x 1 in. Ship. wt., doz., 3 oz. Each 8c Doz. 84c



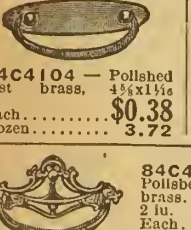
Plated Handles
84C4182—Escutcheons. Heavy Stamped Brass. Gilt finish. 1 3/4 x 1 1/2 in. Ship. wt., doz., 4 oz. Each 8c Dozen..... 84c



Plated Handles
84C4186—Stamped Brass. Gilt finish. Ship. wt., doz., 3 oz. 1c Pkg. of 12. 12c 14c



Plated Handles
84C4198—Cast Brass. Gilt finish. With bolt. Ship. wt., dozen, 1 lb. Diam. in. 1 1/2 1 1/2 Doz. \$1.18 1.55 1.92 Each. 42c 15c 19c



Plated Handles
84C4110—Polished cast brass. Size, 4 1/2 x 2 in. Each..... \$0.23 Dozen..... 2.38



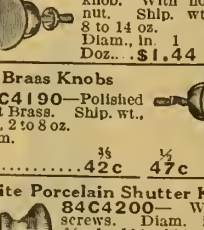
Plated Handles
84C4130—Stamped Brass. Gilt finish. Size 4 1/2 x 1 1/2 in. Per pkg. of 4..... 32c



Plated Handles
84C4198—Cast Brass. Gilt finish. With bolt. Ship. wt., dozen, 1 lb. Diam. in. 1 1/2 1 1/2 Doz. \$1.18 1.55 1.92 Each. 42c 15c 19c



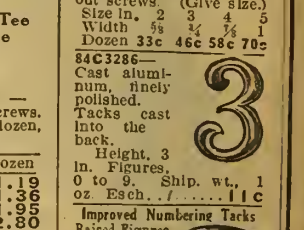
Plated Handles
84C4170—Polished cast brass. Width, 1 1/2 in. Ship. wt., doz., 2 lbs. Dozen..... \$2.35



Plated Handles
84C4190—Polished Cast Brass. Ship. wt., doz., 2 to 8 oz. Diam. in. 1 1/2 1 1/2 1 1/2 Doz..... 42c 47c 64c



Plated Handles
84C4200—White Porcelain Shutter Knobs. With 1/2 in. screws. Diam. in. 3/4 1 1/4 1 1/2 Ship. wt., oz. 2, 2, 4, 7, 9 Per pkg. of 4 10c 12c 13c 18c 22c



Plated Handles
84C4203—Mahogany finished. Pkg. of 4. 17c 20c 25c



Combination Lock
84C4154—Black enamel wood drop handle. With brass escutcheon. Per Pkg. of four..... 64c



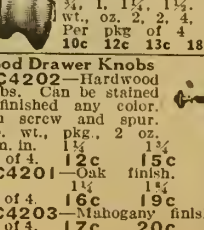
Combination Lock
84C4158—Width 2 in. Ship. wt., 3 oz. Price, per pair..... 24c
84C4159—Width, 3 1/2 in. Ship. wt., 4 oz. Price, per pair..... 33c



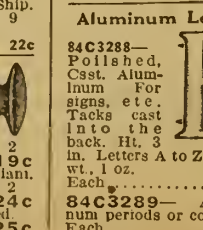
Combination Lock
84C4164—Handle and Escutcheon. Length, 4 1/2 in. Polished brass. With brass pins. Each..... 17c



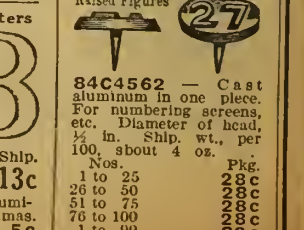
Combination Lock
84C4170—Polished cast brass. Width, 1 1/2 in. Ship. wt., doz., 2 lbs. Dozen..... \$2.35



Combination Lock
84C4190—Polished Cast Brass. Ship. wt., doz., 2 to 8 oz. Diam. in. 1 1/2 1 1/2 1 1/2 Doz..... 42c 47c 64c



Combination Lock
84C4200—White Porcelain Shutter Knobs. With 1/2 in. screws. Diam. in. 3/4 1 1/4 1 1/2 Ship. wt., oz. 2, 2, 4, 7, 9 Per pkg. of 4 10c 12c 13c 18c 22c



Combination Lock
84C4203—Mahogany finished. Pkg. of 4. 17c 20c 25c

Miscellaneous Items Every Household Should Have

Steel Shelf Brackets

84C4350—Japanned wrought steel. Convenient for putting up secure shelves or bracing over-2 load ones. Ship. wt. pair, 1/2 to 2 lbs. Screws not included.

Size, In.	Pair	Doz. Pairs
4x5	13c	\$1.50
5x7	19c	2.25
6x8	24c	2.85
7x9	29c	3.45
8x10	35c	4.10
10x12	48c	5.40

Folding Steel Brackets

84C4354—Wrought steel japanned. Locks automatically when lifted up and folds down against the wall when not in use. Fine for the kitchen, pantry or store room. (Screws not included.) Give size.

Size, In.	Ship. Wt.	Pair
8x8	1 1/2 lbs.	\$0.95
12x12	3 lbs.	2.40
16x16	4 1/2 lbs.	2.37

Wire Hooks and Eyes

Wire Screw Hooks
84C4495—Ship wt., doz., 1 to 16 oz. (Give size.)

Length	Pkg.	Doz.
1 1/2 in.	6c	
2 in.	8c	
2 1/2 in.	10c	
3 in.	11c	
3 1/2 in.	19c	

84C4504—Heavy pattern. Ship. wt., doz., 2 to 8 oz. (Give size.)

Length	Pkg.	Doz.
1 1/2 in.	6c	
1 3/4 in.	9c	
2 in.	10c	
2 1/2 in.	14c	

Wire Screw Eyes
84C4502—Light pattern. Ship. wt., doz., 1 to 4 oz. (Give size.)

Length	Per Doz.
1/2 in.	4c
3/4 in.	5c
1 in.	5c
1 1/4 in.	6c
1 1/2 in.	6c
1 3/4 in.	7c
2 in.	7c
2 1/4 in.	8c
2 1/2 in.	8c

Brass Cup Hooks

84C4500—For china cabinets, etc. Ship. wt., doz., 1 to 3 oz.

Size	Pack. of Doz.
3/4 in.	16c
1 in.	18c
1 1/4 in.	21c

Flower Pot Brackets

84C4358—Bronzed iron. Length of arm, 5 in.; diam. of dish, 4 in. Ship. wt., 12 oz. Dozen, \$0.29. Each, 3.10

84C4362—Bronzed heavy iron for two pots. 11-in. arm. Ship. wt., 3 lbs. Each, 69c

84C4360

—Bronzed iron, 5 1/2 in. arm.; diam. of dish, 4 1/2 in. Ship. wt., 1 1/2 lbs. Each, 39c

Spool Wire

Spools, half lb. (No. 16 gauge is 3/16 in. in diam.) No. 22 gauge is 1/8 in. in diam.) Ship. wt., 12 oz. (Give size.)

84C4570—Annealed Steel Wire.

Gauge	16	18	20	22	24
Spool	18c	19c	20c	22c	24c

84C4571—Tinned Steel Wire.

Gauge	16	18	20	22	24
Spool	22c	25c	27c	28c	29c

84C4572—Soft Copper Wire.

Gauge	16	18	20	22
Spool	39c	42c	44c	47c

84C4573—Brass Spring Wire.

Gauge	16	18	20	22
Spool	42c	44c	46c	52c

Wire Stall Guards

84C5668—Heavy steel wire, 2 1/2 in. diam. mesh. With 1 in. channel iron frame. Screw holes in bottom and top. Painted dark green. Ship. wt., 24, 26 and 28 lbs.

Length	Height	Each
6 ft.	25 in.	\$2.95
6 1/2 ft.	25 in.	3.10
7 ft.	25 in.	3.25

Center Hay Rack

84C5666—For Center Stall. Heavy wrought steel. Size, about 33 in. wide, 24 in. high, 18 in. deep. Ship. wt., 35 lbs. Each, \$4.95

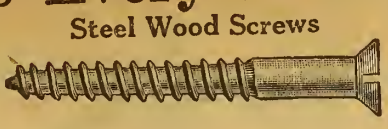
Stock Feed Boxes

Square Feed Box
84C5662—Heavy cast iron. Painted black. 18 in. length, 12 in. depth, 8 1/2 in. ship. wt., 33 lbs. \$3.20

Corner Feed Box
84C5660—Heavy cast iron. Flat flange top prevents waste. Painted black. Size, 15x15 in. Depth, 8 1/2 in. Ship. wt., 26 lbs. \$2.85

84C5661—Heavy cast iron. With roll flange. Painted black. Size, 15x15 inches. Depth, 8 1/2 in. Ship. wt., 23 lbs. \$3.10

We handle first quality wood screws only. Accurately made with good, strong flat heads and sharp gimlet points.



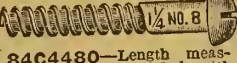
We cannot sell less than a gross of screws at the gross price. Prices subject to market changes

Bright Flat Head Steel Screws

Length, in. and size No.	1/2-1	3/4-2	1-2	1 1/4-3	1 1/2-4	1 3/4-5	2-6	2 1/4-7	2 1/2-8	3-9	3 1/4-10	3 1/2-11	4-12	4 1/4-13	4 1/2-14	5-15	5 1/4-16	5 1/2-17	6-18	6 1/4-19	6 1/2-20	7-21	7 1/4-22	7 1/2-23	8-24	8 1/4-25	8 1/2-26	9-27	9 1/4-28	9 1/2-29	10-30	10 1/4-31	10 1/2-32	11-33	11 1/4-34	11 1/2-35	12-36	12 1/4-37	12 1/2-38	13-39	13 1/4-40	13 1/2-41	14-42	14 1/4-43	14 1/2-44	15-45	15 1/4-46	15 1/2-47	16-48	16 1/4-49	16 1/2-50							
3 doz. pkg.	18	19	19	19	20	21	22	22	23	23	24	25	26	26	27	28	28	29	29	30	30	31	32	32	33	34	34	35	35	36	36	37	38	38	39	39	40	40	41	41	42	42	43	43	44	44	45	45	46	46	47	47	48	48	49	49	50	50
per gross.	18	19	19	19	20	21	22	22	23	23	24	25	26	26	27	28	28	29	29	30	30	31	32	32	33	34	34	35	35	36	36	37	38	38	39	39	40	40	41	41	42	42	43	43	44	44	45	45	46	46	47	47	48	48	49	49	50	50

(State size wanted)

Round Head Iron Blued Screws



84C4480—Length measured under head. Made with full round head, blued finish. (Give size.) Ship. wt., 3 to 50 oz.

Assorted Screws

84C4490—One Gross Flat Head Wood Screws Three dozen each; 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2. A splendid assortment. Ship. wt. 20 oz. Per Pkg. 39c

Assorted Small Nails and Screws

84C4492—One pound assorted tacks—shoe, trunk, basket and hob nails, 1 lb. assorted, round, flat, oval head, nickled, brass and blued wood screws. A tack or screw for every purpose. Big money's worth. Ship. wt., 36 oz. Package, 49c

25 Lbs. Assorted Nails
84C8210—Assorted wire nails from 2d. to 40d. Net weight, 25 pounds. A very useful assortment for the shop or home. All bright new stock. Ship. wt., 28 lbs. Package, \$1.45

Flat Head Brass Screws



84C4482—Made of solid brass. The size of the screw is the same as illustration of iron screws, shown above. Prices subject to market changes. Ship. wt., 2 oz. to 2 lbs. (Give size.)

Length	No.	Gross	Pkg. Doz.
1/2 in.	2	\$0.05	6c
3/4 in.	3	.06	6c
1 in.	4	.07	6c
1 1/4 in.	5	.08	6c
1 1/2 in.	6	.09	6c
1 3/4 in.	7	.10	6c
2 in.	8	.11	6c
2 1/4 in.	9	.12	6c
2 1/2 in.	10	.13	6c
2 3/4 in.	11	.14	6c
3 in.	12	.15	6c
3 1/4 in.	13	.16	6c
3 1/2 in.	14	.17	6c
3 3/4 in.	15	.18	6c
4 in.	16	.19	6c
4 1/4 in.	17	.20	6c
4 1/2 in.	18	.21	6c
4 3/4 in.	19	.22	6c
5 in.	20	.23	6c
5 1/4 in.	21	.24	6c
5 1/2 in.	22	.25	6c
5 3/4 in.	23	.26	6c
6 in.	24	.27	6c
6 1/4 in.	25	.28	6c
6 1/2 in.	26	.29	6c
6 3/4 in.	27	.30	6c
7 in.	28	.31	6c
7 1/4 in.	29	.32	6c
7 1/2 in.	30	.33	6c
7 3/4 in.	31	.34	6c
8 in.	32	.35	6c
8 1/4 in.	33	.36	6c
8 1/2 in.	34	.37	6c
8 3/4 in.	35	.38	6c
9 in.	36	.39	6c
9 1/4 in.	37	.40	6c
9 1/2 in.	38	.41	6c
9 3/4 in.	39	.42	6c
10 in.	40	.43	6c
10 1/4 in.	41	.44	6c
10 1/2 in.	42	.45	6c
10 3/4 in.	43	.46	6c
11 in.	44	.47	6c
11 1/4 in.	45	.48	6c
11 1/2 in.	46	.49	6c
11 3/4 in.	47	.50	6c
12 in.	48	.51	6c
12 1/4 in.	49	.52	6c
12 1/2 in.	50	.53	6c

Easy Running Ball Casters

84C4370—Brass plated. Diam. of ball, 3/4 in. Ship. wt., 6 oz. Set of four, 74c

84C4371—Diam. of ball, 1 1/4 in. Ship. wt., 1 lb. Set of four, 83c

84C4374—Diam. ball, 1 3/4 in. Ship. wt., 1 lb. Set of four, 78c

Ball Bearing Chest Caster
Wood wheel. For refrigerators, desks, etc. Without screws. Use sizes 8, 10 and 12. Ship. wt., 12 to 26 oz.

84C4384—Diam. wheel, 1 in. plate, 1 1/4 in. Set of 4, 28c

84C4385—Diam. wheel, 1 1/4 in. plate, 1 1/2 in. Set of 4, 38c

84C4386—Diam. wheel, 1 1/2 in. plate, 1 3/4 in. Set of 4, 49c

Ball Bearing Bed Caster
Wood wheels. Expansion spring sockets. Fit iron and brass beds. Ship. wt., 12 to 27 oz.

84C4389—Diam. wheel, 1 in. for opening 3/4 in. Set of 4, 27c

84C4390—Diam. wheel, 1 1/4 in. for opening 1/2 in. Set of 4, 37c

84C4391—Diam. wheel, 1 1/2 in. for opening 1 in. Set of 4, 53c

Ball Bearing Felt Wheel Caster
Prevents Marring Floors.

84C4378—A high-grade caster for good furniture. Wheels are compressed pure wool felt, will not scratch the floor. Run easily and quietly. Size of sockets, 5/8, 3/4 in. Ship. wt., set, about 20 oz.

Diam. wheel, 1 1/4 in. Set of 4, \$1.17

Diam. wheel, 1 1/2 in. Set of 4, 1.59

Diam. wheel, 1 3/4 in. Set of 4, 1.97

Standard Furniture Caster

Hardwood wheels. With steel grip-neck socket, 3/4 x 1 1/4 in. Ship. wt., 8 to 16 oz.

84C4392—Hardwood wheel 1 1/4 in. Set of 4, 1.4c

84C4393—Hardwood wheel 1 1/2 in. Set of 4, 1.7c

84C4394—Lignum vitae wheel, 1 1/4 in. Set of 4, 23c

84C4395—Lignum vitae wheel, 1 1/2 in. Set of 4, 33c

Ball Bearing Furniture Caster

84C4381—Wood wheel, Grip-neck sockets, 3/4 x 1 1/4 in. long. Ship. wt., 13 1/2 to 22 oz.

Diam. wheel, 1 in. Set of 4, 32c

Diam. wheel, 1 1/4 in. Set of 4, 36c

Diam. wheel, 1 1/2 in. Set of 4, 49c

Rigid Truck Caster

84C4410—Japanned iron, made strong and durable. Diam. wheel, 2 1/4 in. Ship. wt., each 1 1/2 lbs. Each, \$0.42

Dozen, \$4.62

Diameter wheel, 2 1/2 in. Ship. wt., each 2 1/2 lbs. Each, \$0.55

Dozen, 6.25

Domes of Silence Casters

84C4402—Hardened, polished steel, nickel-plated. Size 3/4 in. is commonly used for chairs. Ship. wt., 2 to 4 oz. (Give size.)

Diam. in. 1/2 3/4 1 1/4 1 1/2 1 3/4 2

Set of 4... 9c 9c 9c 9c 13c

Cushion Felt Weather Strips

84C4754—All felt; securely stitched. For doors and windows. Excludes cold, wind, snow and dust. Simple to apply. Ship. wt., 50 ft., 12 to 18 oz.

Width, inch 2 1/2 3 3 1/2 4 4 1/2 5

50-ft. roll... 1.45 1.60 1.90

Rubber Weather Strip

84C4750—Cloth insertion. For windows and doors. Ship. wt., 50 ft., 1 to 2 lbs.

Width	Roll 50 Ft.	Roll 25 Ft.
3/4 in.	\$1.35	\$0.70
1 in.	1.45	.75
1 1/4 in.	1.85	.95
1 1/2 in.	2.25	1.15

Rubber Weather Strip Zinc Back

84C4758—Gray rubber weather strip. With cloth insertion and creased zinc back. In rolls 100 feet long. Ship. wt., 4 1/2 to 5 lbs. Width, 1 1/2 in. Full roll, \$2.55

Width, 3/4 in. Full roll, 3.40

Wood-Felt Weather Strip

84C4755—Width, 3/4 in. for windows. Ship. wt., 5 lbs. For bundle, \$2.69

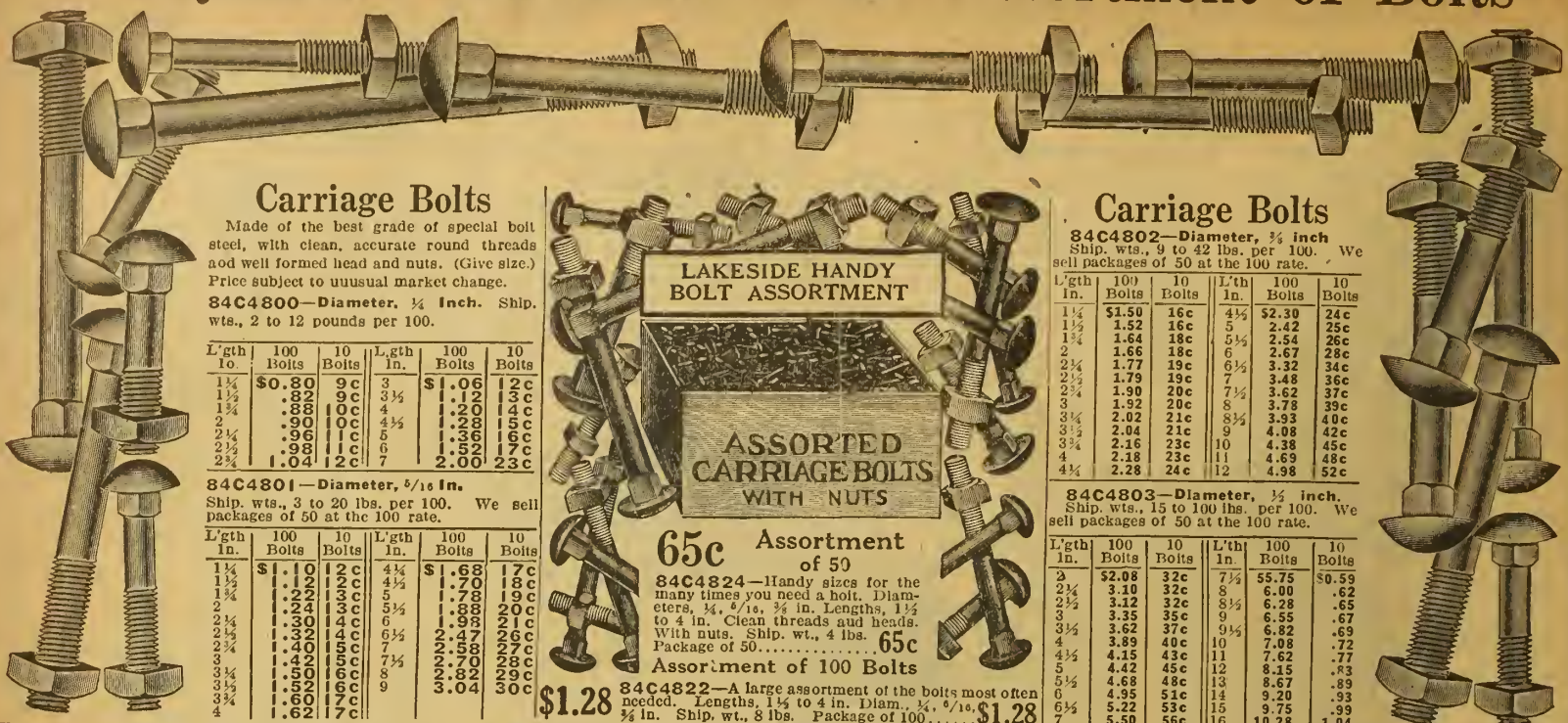
84C4756—Width, 1 1/4 in. for doors. Ship. wt., 8 lbs. Per bundle, \$5.28

Stained wood molding with thick felt. Put up in bundle of 14 pieces, 7 ft. lengths, total 98 feet with nails. We cannot break bundles. Easy to apply, saves fuel, and prevents draughts.

Rubber Insertion Storm Threshold

84C4760—Has enough elasticity to preserve a close fit at bottom of door and exclude rain, snow and drafts. Hardwood, with center of sheet rubber. Can be sawed to desired length. Length, 36 in. Ship. wt., 2 lbs. Each, \$1.10

Every Home Should Have An Assortment of Bolts



Carriage Bolts

Made of the best grade of special bolt steel, with clean, accurate round threads and well formed head and nuts. (Give size.) Price subject to unusual market change.

84C4800—Diameter, $\frac{1}{2}$ Inch. Ship. wts., 2 to 12 pounds per 100.

L'gth In.	100 Bolts	10 Bolts	L'gth In.	100 Bolts	10 Bolts
1	\$0.80	9c	3	\$1.06	2c
1 $\frac{1}{2}$	.88	9c	3 $\frac{1}{2}$	1.12	2c
1 $\frac{3}{4}$	.90	9c	4	1.20	2c
2	.96	9c	4 $\frac{1}{2}$	1.28	2c
2 $\frac{1}{2}$	1.04	9c	5	1.36	2c
3	1.12	9c	5 $\frac{1}{2}$	1.44	2c
3 $\frac{1}{2}$	1.20	9c	6	1.52	2c
4	1.28	9c	7	1.60	2c

84C4801—Diameter, $\frac{5}{16}$ In. Ship. wts., 3 to 20 lbs. per 100. We sell packages of 50 at the 100 rate.

L'gth In.	100 Bolts	10 Bolts	L'gth In.	100 Bolts	10 Bolts
1	\$1.10	12c	4 $\frac{1}{2}$	\$1.68	17c
1 $\frac{1}{2}$	1.20	12c	5	1.78	19c
1 $\frac{3}{4}$	1.30	12c	5 $\frac{1}{2}$	1.88	20c
2	1.40	12c	6	1.98	21c
2 $\frac{1}{2}$	1.50	12c	6 $\frac{1}{2}$	2.08	22c
3	1.60	12c	7	2.18	23c
3 $\frac{1}{2}$	1.70	12c	7 $\frac{1}{2}$	2.28	24c
4	1.80	12c	8	2.38	25c

LAKESIDE HANDY BOLT ASSORTMENT

ASSORTED CARRIAGE BOLTS WITH NUTS

65c Assortment of 50

84C4824—Handy sizes for the many times you need a bolt. Diameters, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ in. Lengths, $1\frac{1}{2}$ to 4 in. Clean threads and heads. With nuts. Ship. wt., 4 lbs. Package of 50..... **65c**

Assortment of 100 Bolts

84C4822—A large assortment of the bolts most often needed. Lengths, $1\frac{1}{2}$ to 4 in. Diam., $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ in. Ship. wt., 8 lbs. Package of 100..... **\$1.28**

Carriage Bolts

84C4802—Diameter, $\frac{3}{8}$ inch. Ship. wts., 9 to 42 lbs. per 100. We sell packages of 50 at the 100 rate.

L'gth In.	100 Bolts	10 Bolts	L'gth In.	100 Bolts	10 Bolts
1 $\frac{1}{2}$	\$1.50	16c	4 $\frac{1}{2}$	\$2.30	24c
1 $\frac{3}{4}$	1.52	16c	5	2.42	25c
2	1.64	18c	5 $\frac{1}{2}$	2.54	26c
2 $\frac{1}{2}$	1.76	19c	6	2.67	28c
2 $\frac{3}{4}$	1.79	19c	6 $\frac{1}{2}$	3.32	34c
3	1.90	20c	7	3.48	36c
3 $\frac{1}{2}$	2.02	21c	7 $\frac{1}{2}$	3.62	37c
4	2.16	23c	8	3.78	39c
4 $\frac{1}{2}$	2.30	24c	8 $\frac{1}{2}$	3.93	40c
5	2.44	25c	9	4.08	42c
5 $\frac{1}{2}$	2.58	26c	9 $\frac{1}{2}$	4.23	43c
6	2.72	27c	10	4.38	44c
6 $\frac{1}{2}$	2.86	28c	10 $\frac{1}{2}$	4.53	45c
7	3.00	29c	11	4.68	46c
7 $\frac{1}{2}$	3.14	30c	11 $\frac{1}{2}$	4.83	47c
8	3.28	31c	12	4.98	48c
8 $\frac{1}{2}$	3.42	32c	12 $\frac{1}{2}$	5.13	49c

84C4803—Diameter, $\frac{1}{2}$ inch. Ship. wts., 15 to 100 lbs. per 100. We sell packages of 50 at the 100 rate.

L'gth In.	100 Bolts	10 Bolts	L'gth In.	100 Bolts	10 Bolts
2	\$2.08	32c	7 $\frac{1}{2}$	\$5.75	\$0.59
2 $\frac{1}{2}$	3.10	32c	8	6.00	.62
3	4.12	32c	8 $\frac{1}{2}$	6.25	.65
3 $\frac{1}{2}$	5.14	35c	9	6.50	.67
4	6.16	37c	9 $\frac{1}{2}$	6.75	.69
4 $\frac{1}{2}$	7.18	40c	10	7.00	.72
5	8.20	43c	11	7.25	.74
5 $\frac{1}{2}$	9.22	46c	11 $\frac{1}{2}$	7.50	.76
6	10.24	49c	12	7.75	.78
6 $\frac{1}{2}$	11.26	52c	12 $\frac{1}{2}$	8.00	.80
7	12.28	55c	13	8.25	.82

Round Head Stove Bolts

(Prices subject to market changes.) Ship. wts., per 100 1 $\frac{1}{2}$ to 5 lbs.

84C4816 Diam. $\frac{3}{16}$ inch.			84C4817 Diam. $\frac{1}{4}$ inch.		
L'gth In.	100 Bolts	Dozen Bolts	L'gth In.	100 Bolts	Dozen Bolts
1	38c	6c	1	54c	8c
1 $\frac{1}{2}$	40c	6c	1 $\frac{1}{2}$	56c	8c
1 $\frac{3}{4}$	42c	6c	1 $\frac{3}{4}$	58c	8c
2	44c	6c	2	60c	8c
2 $\frac{1}{2}$	46c	6c	2 $\frac{1}{2}$	62c	8c
3	48c	6c	3	64c	8c
3 $\frac{1}{2}$	50c	6c	3 $\frac{1}{2}$	66c	8c
4	52c	6c	4	68c	8c
4 $\frac{1}{2}$	54c	6c	4 $\frac{1}{2}$	70c	8c
5	56c	6c	5	72c	8c
5 $\frac{1}{2}$	58c	6c	5 $\frac{1}{2}$	74c	8c
6	60c	6c	6	76c	8c
6 $\frac{1}{2}$	62c	6c	6 $\frac{1}{2}$	78c	8c
7	64c	6c	7	80c	8c
7 $\frac{1}{2}$	66c	6c	7 $\frac{1}{2}$	82c	8c
8	68c	6c	8	84c	8c

Flat Head Stove Bolts

(Prices subject to market changes.) Ship. wt., per 100, 1 to 5 lbs.

84C4818 Diam. $\frac{3}{16}$ inch.			84C4819 Diam. $\frac{1}{4}$ inch.		
L'gth In.	100 Bolts	Dozen Bolts	L'gth In.	100 Bolts	Dozen Bolts
1	38c	6c	1	56c	8c
1 $\frac{1}{2}$	40c	6c	1 $\frac{1}{2}$	58c	8c
1 $\frac{3}{4}$	42c	6c	1 $\frac{3}{4}$	60c	8c
2	44c	6c	2	62c	8c
2 $\frac{1}{2}$	46c	6c	2 $\frac{1}{2}$	64c	8c
3	48c	6c	3	66c	8c
3 $\frac{1}{2}$	50c	6c	3 $\frac{1}{2}$	68c	8c
4	52c	6c	4	70c	8c
4 $\frac{1}{2}$	54c	6c	4 $\frac{1}{2}$	72c	8c
5	56c	6c	5	74c	8c
5 $\frac{1}{2}$	58c	6c	5 $\frac{1}{2}$	76c	8c
6	60c	6c	6	78c	8c
6 $\frac{1}{2}$	62c	6c	6 $\frac{1}{2}$	80c	8c
7	64c	6c	7	82c	8c
7 $\frac{1}{2}$	66c	6c	7 $\frac{1}{2}$	84c	8c
8	68c	6c	8	86c	8c

Assorted Steel Stove Bolts

84C4820—Flat Heads—10 each, $\frac{3}{16}$ x $\frac{1}{4}$ and 1 in.; 10 each, $\frac{1}{2}$ x $\frac{1}{4}$ and 1 in.; 10 each, $\frac{3}{8}$ x $\frac{1}{4}$ and 1 in.; 10 each, $\frac{1}{2}$ x $\frac{1}{2}$ and 1 in.; 10 each, $\frac{3}{4}$ x $\frac{1}{2}$ and 1 in. Total of 100 bolts. Clean threads. Ship. wt., 1 lb. Price..... **64c**

Square Nut Bolts

Fits carriage and machine bolts. Standard threads, or Blank without threads. (Prices subject to market changes.) Ship. wt., 18 oz.

Size Diam. of Bolts	Average Nuts in Pound	84C4840 Threaded Pkg. 1 lb.	84C4841 Blank Pkg. 1 lb.
$\frac{1}{4}$ in.	66	9c	6c
$\frac{5}{16}$ in.	48	7c	4c
$\frac{3}{8}$ in.	27	4c	1c
$\frac{7}{16}$ in.	18	3c	1c
$\frac{1}{2}$ in.	10	1c	1c
$\frac{5}{8}$ in.	6	1c	1c
$\frac{3}{4}$ in.	4	9c	1c

Wrought Iron Washers

84C4844—Wrought iron washers to fit all ordinary bolts. (Prices subject to change.) See also assorted package on this page.

For Bolt Size, In.	Av. Washers in Pound	Pkg. One Pound	For Bolt Size, In.	Av. Washers in Pound	Pkg. One Pound
$\frac{3}{16}$	350	17c	$\frac{5}{8}$	12	10c
$\frac{1}{4}$	150	14c	$\frac{3}{4}$	10	10c
$\frac{5}{16}$	100	12c	$\frac{7}{8}$	7	9c
$\frac{3}{8}$	60	10c	1	6	9c
$\frac{1}{2}$	24	10c	1 $\frac{1}{2}$	4	9c

Assorted Wrought Washers

For bolts, sizes, $\frac{3}{16}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ inch. **84C4845**—Pkg. of 2 $\frac{1}{2}$ lbs. **30c**
84C4846—Pkg. of 5 lbs. **59c**

Light Turn Buckle

84C4853—Wrought steel Hook and Eye, diam., $\frac{1}{4}$ in., wrought lock nuts. Cast iron swivel $\frac{3}{16}$ x $\frac{3}{16}$. Length, open, 9 $\frac{1}{2}$ inches. Closed, 7 $\frac{1}{2}$ inches. Plain finish. Ship. wt., $\frac{3}{4}$ lb. Each..... **28c**

Hook and Eye Turn Buckles

(Galvanized) **84C4834**—Wrought steel, galvanized to prevent rust. Ship. wts., 1 to 5 $\frac{1}{2}$ lbs. Opens 3 to 4 $\frac{1}{2}$ in. Give size.

Diam. Threads	Length Closed	Each	Diam. Rod	Length Closed	Ship. Wt. Lbs.	Each
$\frac{3}{8}$ in.	8 $\frac{1}{2}$ in.	\$0.54	$\frac{3}{8}$ in.	16 $\frac{1}{2}$ in.	1	\$0.48
$\frac{1}{2}$ in.	9 $\frac{1}{2}$ in.	.72	$\frac{1}{2}$ in.	17	1 $\frac{1}{2}$	.48
$\frac{5}{8}$ in.	10 $\frac{1}{2}$ in.	.94	$\frac{5}{8}$ in.	17 $\frac{1}{2}$	2	.53
$\frac{3}{4}$ in.	13 $\frac{1}{2}$ in.	1.10	$\frac{3}{4}$ in.	18	2 $\frac{1}{2}$	.60
$\frac{7}{8}$ in.	18 $\frac{1}{2}$ in.	1.60	$\frac{7}{8}$ in.	18 $\frac{1}{2}$	4 $\frac{1}{2}$	.80
1 in.	20 $\frac{1}{2}$ in.	2.30	1 in.	18 $\frac{1}{2}$	6	.95

Heavy Turn Buckle

84C4832—Wrought steel. With short right and left hand threaded stub ends. Opens 4 to 6 in. Give size.

Machine Bolts

Machine bolts do not have a square shoulder like carriage bolts, but are round all the way up to the head. Made with clean threads, perfectly formed square heads and nuts. (Prices subject to market changes.)

84C4806—Diameter $\frac{1}{4}$ inch. Ship. wts., 4 to 14 lbs. per 100. We sell packages of 50 at the 100 rate.			84C4807—Diameter, $\frac{5}{16}$ inch. Ship. wts., 4 to 18 lbs. per 100. 50 at 100 rate.		
L'gth In.	100 Bolts	10 Bolts	L'gth In.	100 Bolts	10 Bolts
1 $\frac{1}{2}$	1.19	13c	3 $\frac{1}{2}$	1.42	16c
2	1.30	14c	4	1.50	17c
2 $\frac{1}{2}$	1.41	14c	4 $\frac{1}{2}$	1.60	18c
3	1.52	14c	5	1.68	19c
3 $\frac{1}{2}$	1.63	15c	5 $\frac{1}{2}$	1.78	20c

84C4808—Diameter, $\frac{3}{8}$ inch. Ship. wts., 7 to 32 lbs. per 100. We sell packages of 50 at the 100 rate.

84C4809—Diameter, $\frac{1}{2}$ inch. Ship. wts., 10 to 130 lbs. per 100. 50 at 100 rate.		
L'gth In.	100 Bolts	10 Bolts
2	\$3.15	33c
2 $\frac{1}{2}$	3.38	35c
3	3.60	37c
3 $\frac{1}{2}$	3.84	40c
4	4.06	42c
4 $\frac{1}{2}$	4.28	44c
5	4.50	46c
5 $\frac{1}{2}$	4.72	48c
6	4.94	50c

Assorted Machine Bolts

84C4826—Fifty Bolts. Ten sizes. Diam., $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ in. Lengths, 2 to 5 in. Ship. wt., 5 lbs. Package of 50..... **82c**

Improved Bolt Clippers

184C7040—Bolt Clippers: solid, tempered steel jaws. Adjustable to take up wear. Rubber humpers between the handles to avoid jar on the hands and wrists. **\$1.45** Up

Length, inches	12	18	24	30	36
Will Cut, inches	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$
Shipping weight, pounds	1.45	2.95	5.45	8.85	12.35
Each	\$1.45	\$2.95	\$4.25	\$5.85	\$7.45

Handy Rivet Setter For Rivets with Burrs
84C4890—Sizes, 8, 9 or 10. For setting burrs of copper rivets of same number. Forged steel. Ship. wt., 10 ounces. (Give size.) Each..... **17c**

Take No Chances—Buy a Steel Safe

Will Resist Fire and Burglars

A special cement filling between the walls solidifies them and makes them fire-resisting. Many of our safes have gone through very severe fires with contents in perfect condition.

Safes are shipped fresh and bright, direct from factory, and are finished and decorated after order is received. This usually causes a delay of 15 to 30 days, but shipment is made at the earliest possible moment. We guarantee delivery in perfect condition.

NOTE: We put your name on safe in gold letters without extra charge when so ordered. (Our name does not appear.)



Strong, Scientific Construction

The walls of our Safes are made of one continuous, heavy steel plate, electrically welded to heavy steel front and back. This gives remarkable strength as well as attractive appearance, and eliminates separate angles and easily-broken rivets.

Front doors are massive and strong. Heavy hinges, with pickled tips. Secure bolts and tenon and groove arrangement hold the door securely in place even if the hinges should be knocked off.

Non-pickable Yale Combination Lock on door. Positively cannot be opened by anyone not knowing the combination. Cabinet work and drawers are genuine oak, nicely finished.

Heavy Wall Steel Safe, Two Sizes

Your name in gold letters over door if so ordered.

Description	Number 284C4900	Number 284C4901
Height, outside.....	23 in.	26 1/4 in.
Height, inside.....	12 3/4 in.	13 3/4 in.
Width, outside.....	13 1/2 in.	16 3/4 in.
Width, inside.....	8 3/4 in.	9 3/4 in.
Depth, outside.....	18 in.	21 1/2 in.
Depth, inside.....	10 1/4 in.	12 in.
Iron cash box.....	5x4 in.	5x5 in.
Wood drawer.....	4x3 in.	5x3 in.
Pigeon hole.....	4x3 1/4 in.	5x4 1/4 in.
Book space.....	11 1/2 x 4 in.	12 3/4 x 3 3/4 in.
Ship. wt.....	215 lbs.	275 lbs.
Each.....	\$44.90	\$50.85

Shipped from factory in Ohio.

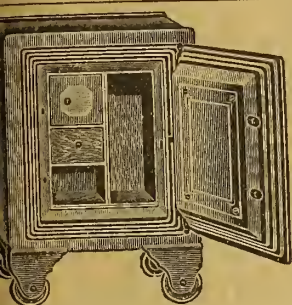
Standard Steel Safe

Interior Arrangement

Steel Cash box, 5x5 inches. Two keys.
Wood Drawer, 5x3 inches.
Pigeon Hole, 6x5 inches.
Book Space, 14 1/2 x 5 1/2 inches.
Shipping weight, 350 pounds.

Shipped from factory in Ohio. **\$57.30**
284C4912—Price.....
A fine roomy safe, at a very low price. Your name in gold letters over door if so ordered.

Dimensions	Outside	Inside
Height.....	26 1/4 in.	15 1/4 in.
Width.....	16 3/4 in.	11 in.
Depth.....	21 1/2 in.	12 in.

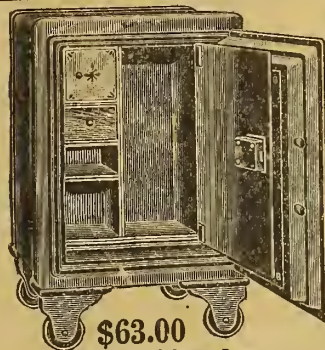


Standard Steel Safe, Four Sizes

A very popular style for home or office use.

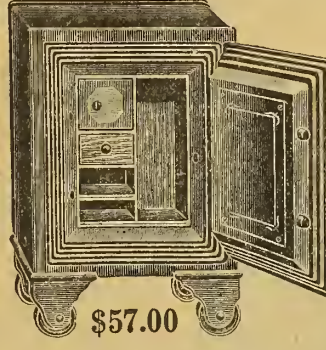
Description	Number 284C4920	Number 284C4921	Number 284C4922	Number 284C4923
Ht., outside.....	28 1/4 in.	30 3/4 in.	32 3/4 in.	37 in.
Ht., inside.....	17 1/2 in.	18 1/2 in.	20 1/2 in.	22 1/4 in.
Width, out.....	18 in.	20 in.	23 in.	25 1/4 in.
Width, in.....	12 1/2 in.	13 3/4 in.	16 3/4 in.	17 3/4 in.
Depth, out.....	22 in.	23 in.	25 in.	27 in.
Depth, in.....	12 in.	12 in.	14 in.	16 in.
Iron box.....	5x5 in.	5x5 in.	5x5 in.	5x5 in.
Wood drawer.....	5x3 in.	5x3 in.	5x3 in.	5x3 in.
Pigeon hole.....	5x3 in.	5x3 in.	5x3 in.	5x3 in.
Pigeonhole.....	5x5 in.	5x6 3/4 in.	5x7 3/4 in.	5x10 1/4 in.
Book space.....	17x6 3/4 in.	18 1/2 x 8 in.	20x10 1/2 in.	22x12 in.
Ship. wt.....	380 lbs.	505 lbs.	705 lbs.	890 lbs.
Each.....	\$63.00	\$72.00	\$84.00	\$96.00

Shipped from factory in Ohio.



\$63.00

With Steel Inner Door



\$57.00

Heavy Wall Steel Safe, Three Sizes

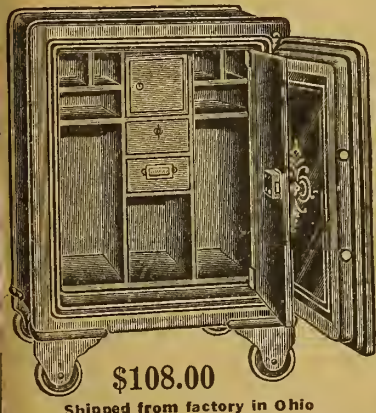
Your name in gold letters over door if so ordered.

Description	Number 284C4902	Number 284C4904	Number 284C4906
Height, outside.....	28 1/4 in.	30 3/4 in.	32 3/4 in.
Height, inside.....	15 1/2 in.	17 1/4 in.	18 3/4 in.
Width, outside.....	18 in.	20 in.	23 in.
Width, inside.....	10 1/2 in.	12 in.	14 1/4 in.
Depth, outside.....	22 in.	22 1/2 in.	25 in.
Depth, inside.....	12 in.	12 in.	13 in.
Iron cash box.....	5x5 in.	5x4 in.	5x5 in.
Wood drawer.....	5x3 in.	5x3 in.	5x3 in.
Pigeon hole.....	5x3 in.	5x3 in.	5x3 in.
Pigeon hole.....	5x3 in.	5x4 1/4 in.	5x5 1/4 in.
Book space.....	5x15 in.	17x6 3/4 in.	18x8 3/4 in.
Ship. wt.....	435 lbs.	565 lbs.	795 lbs.
Each.....	\$57.00	\$66.00	\$75.00

With an Extra Inside Steel Door

Number.....	284C4903	284C4905	284C4907
Each.....	\$63.00	\$75.00	\$84.00

Shipped from factory in Ohio



\$108.00

Shipped from factory in Ohio

Roomy Standard Steel Safe

With Steel Inner Door

284C4918—
Price..... \$108.00

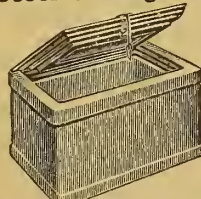
A well constructed safe that will give good service. Your name in gold letters over door if so ordered.

Dimensions	Outside	Inside
Height.....	39 1/2 in.	25 1/2 in.
Width.....	26 in.	20 in.
Depth.....	28 3/4 in.	16 in.

Interior Arrangement

Iron Cash Box, 6x6 inches.
4 Pigeon Holes, 3x2 3/4 inches.
2 Wood Drawers, 6 1/2 x 3 inches.
2 Pigeon Holes, 6 1/2 x 2 3/4 inches.
1 Pigeon Hole, 6 1/2 x 1 1/2 inches.
2 Book Spaces, 6 1/2 x 19 inches.
Shipping weight, 1,000 lbs.

Steel Strong Box



184C4930—Excellent for safely keeping deeds, money and valuables of all kinds. Gives a feeling of security worth much.

Heavy steel and iron. With double walls filled with cement. Painted black and nicely ornamented. Furnished with mortise cylinder lock and two keys. Dimensions: Outside, 13 1/2 x 9 1/2 x 8 1/2 in. high. Inside, 10x6x6 1/4 in. Ship. wt., about 65 lbs. **\$13.50** Each.....
Shipped from Chicago

Heavy Wall Steel Safe

With Steel Inner Door

284C4910—
Price..... \$96.00

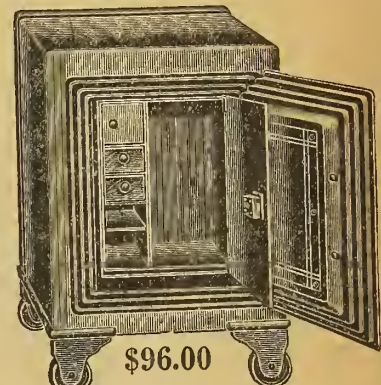
A popular size for the average home or office.

Your name in gold letters over door if so ordered.

Dimensions	Outside	Inside
Height.....	37 in.	20 in.
Width.....	25 1/4 in.	15 in.
Depth.....	27 in.	14 in.

Interior Arrangement

Iron Cash Box, 5x5 inches.
2 Wood Drawers, 5x3 inches.
Pigeon Hole, 5x3 inches.
Pigeon Hole, 5x4 1/2 inches.
Book Space, 19 1/2 x 9 1/2 inches.
Shipping weight, 1,010 lbs.



\$96.00

Shipped from factory in Ohio

Lightning Rod Systems of Proven Quality

Every part strictly first-class, and of most modern, approved construction. Uprights, 5 feet high, strongly made. Main upright consists of three-legged, galvanized steel brace for attaching to roof. Brace holds strong heavy copper tube, with tee at lower end, for attaching cable; and seamless copper point at top, with silvered tip.

Our extra heavy 32-inch copper cable, diameter 3/8 in. (we furnish purest copper obtainable), carries safely most powerful discharge. Copper clips and Copper Nails included with cable. They should be fastened directly to the building about every 3 feet without insulation.

Place uprights on highest points of building, beside chimneys, on top of cupolas, gables, etc., not over 20 ft. apart, at least three on every building.

An easy way to get correct measurement is to run stout cord on or near roof, gutters, cornices, etc., then down on opposite end of building. Pull out string and measure adding enough to make all bends full rounding (not sharp) and add 10 feet for each end grounded in the earth.



\$1.70 and \$1.95
Plain Upright

Complete upright with 5-foot copper tube and tee clamp for cable, silvered tip and galvanized brace.
84C4958—With glass ball, opal, blue, ruby, or color wanted. Ship. wt., about 10 lbs. **\$1.95**
84C4959—Without ball. Each **1.70**

Extra Heavy Genuine Copper Cable

32 Wires, 98-99% Pure Copper.



184C4950—Full size heavy 3/8 inch cable. Has ample capacity for the heaviest stroke of lightning. Gives effective protection at lowest cost. Lasts longer than the average building. Price includes copper clips and copper nails to fasten cable directly to your building. Ship. wt., about 25 lbs. per 100 ft. Per foot (subject to market changes) with clips and nails..... **12c**

Animal Vane Upright



84C4962—Complete upright with 5-foot copper tube and tee clamp for cable, silvered tip and galvanized brace. Has handsome gilt animal figure (horse, cow or rooster). State which. Give color of ornamental ball wanted. Ship. wt., about 10 lbs. **\$3.45** Each.....
84C4964—Used beside chimneys, where 5-ft. uprights are not high enough, to reach about 1 1/2 ft. over top. Copper tube with cable clamp and silvered tip. With eyebolt for attaching. Ship. wt., 5 lbs. Lgth., ft..... 6 \$1.65 8 \$2.15 10 \$2.50 Each.....



\$2.75
Arrow Vane Upright
84C4960—Complete upright with 5-ft. copper tube and tee clamp for cable, silvered tip and galvanized brace. Has handsome Arrow Vane and Ornamental Glass Ball—Opal, blue, ruby, silver or gold. Give color wanted. Ship. wt., about 10 lbs. **\$2.75** Each.....

Branch Cable Connector

84C4952—Solid Brass prongs hook over the main cable where desired and fasten by hammering shut. Branch cable clamped by a screw. Ship. wt., 3 oz. Each..... **15c**

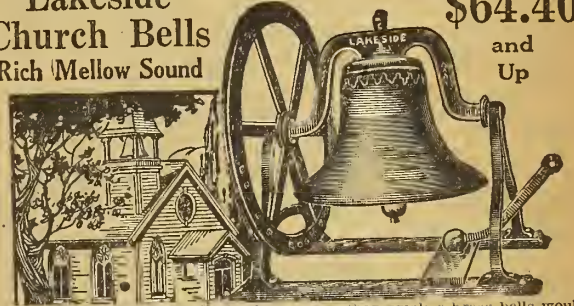
Straight Cable Connector

84C4953—Solid Brass. Two screws clamp the two ends of cable to be joined. Ship. wt., about 2 oz. Each..... **14c**

Lakeside Church Bells

Rich Mellow Sound

\$64.40



Large, clear-sounding bells for less money than smaller brass bells would cost. Made of special composition metal, producing a clear, mellow sound. The larger the bell, the deeper and richer the tone which constantly improves as the bell ages.

We will replace free any Lakeside Bell that may break within 5 years. Thousands in use giving perfect satisfaction. Lakeside Church Bells produce a clear, deep, mellow tone that can be heard a great distance, and are complete with tolling hammer. For strength, carrying power, and durability they are unequalled. Lakeside School and Factory Bells are of the same high quality as our Church Bells but do not have a tolling hammer and are particularly designed for schools, courthouses, and small churches.

Prices are for bells complete with wood sills and iron wheels. Sizes over 36 in. have wood wheels. Fitted with smooth, easy running bearings.

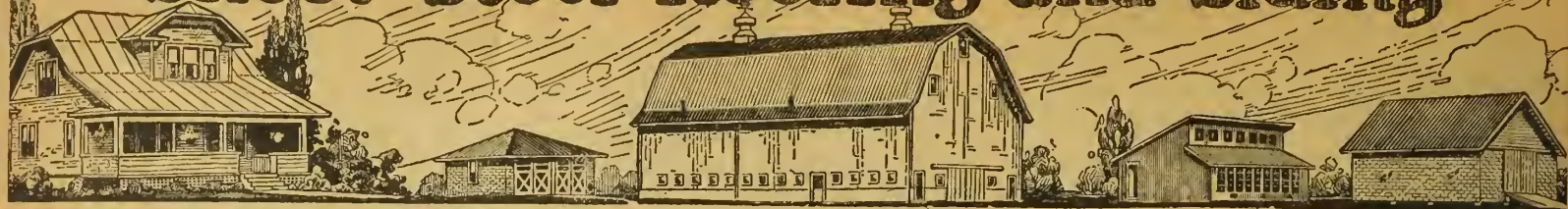
Lakeside Church Bells		
284C4648—Church Bells (With Tolling Hammer)		
Diameter of Bell	Approximate Ship. Wt.	Each
30 in.	560 lbs.	\$ 64.40
32 in.	690 lbs.	89.25
36 in.	850 lbs.	81.90
38 in.	850 lbs.	100.60
40 in.	1000 lbs.	112.35
42 in.	1200 lbs.	135.10
44 in.	1550 lbs.	181.00
48 in.	1950 lbs.	229.80
284C4645—School or Factory Bells (No Tolling Hammer)		
Approx. Dia. of Bell	Approx. Ship. Wt. Complete	Each
20 in.	160 lbs.	\$16.95
22 in.	200 lbs.	21.00
24 in.	250 lbs.	25.70
26 in.	350 lbs.	36.60
28 in.	425 lbs.	48.70

Shipped from Factory in Ohio.

Our Church Bells have a far reaching mellow tone.

★ ★ Montgomery Ward & Co Chicago

Sheet Steel Roofing and Siding



Prices on this page are subject to market changes

Corrugated Steel Roofing

Can be applied direct to studding or over sheathing or old shingles. It makes an effective, economical and fire resisting cover. Especially popular for barns, garages, grain sheds, etc. Easy to apply. A hammer and tinners shears are the only tools needed.

Made of open heart sheet-steel. The 2 1/2 in. corrugated sheets are 26 in. wide and the 1 1/2 in. are 25 in. wide (both have a covering width of 24 in. when lapped one corrugation.) The painted roofing has a coat of red mineral paint (on both sides), but should receive an additional coat after being laid. Galvanized roofing should also be painted, as this adds to its durability. When ordering by the square, be sure to add enough for the side and laps, and give length of sheets wanted.

Prices quoted are for roofing only and do not include paint or nails. You will find this material listed below. Order 1 pound mineral paint and one pound 1 1/4 in. barbed nails for each square of roofing. Made in two thicknesses, heavy 26 gauge and Standard 24 gauge. A square of roofing equals 100 square feet of material. (Side and end laps not included.)

Painted Roofing, 2 1/2 in. Corrugations Sheets are 26 in. wide		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C4980—No. 28 ga.	.....	\$0.88	\$1.06	\$1.25	\$1.41	\$1.59	\$1.78	68 lbs.	\$7.95
284C4981—No. 26 ga.	.....	1.03	1.25	1.50	1.70	1.90	2.10	82 lbs.	9.60
Painted Roofing, 1 1/2 in. Corrugations Sheets are 25 in. wide		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C4983—No. 28 ga.	.....	\$0.90	\$1.08	\$1.28	\$1.44	\$1.62	\$1.80	71 lbs.	\$8.30
284C4984—No. 26 ga.	.....	1.08	1.30	1.52	1.73	1.95	2.17	85 lbs.	9.95
Galvanized Roofing, 2 1/2 in. Corrugations Sheets are 26 in. wide		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C4986—Standard ga.	.....	\$1.06	\$1.27	\$1.48	\$1.68	\$1.91	\$2.12	77 lbs.	\$9.65
284C4987—No. 26 ga.	.....	1.35	1.62	1.90	2.17	2.44	2.72	98 lbs.	12.25
Galvanized Roofing 1 1/2 in. Corrugations Sheets are 25 in. wide		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C4989—Standard ga.	.....	\$1.12	\$1.35	\$1.57	\$1.80	\$2.04	\$2.26	78 lbs.	\$10.15
284C4990—No. 26 ga.	.....	1.40	1.70	1.98	2.25	2.54	2.82	102 lbs.	12.80

Shipped from Mill in Central Ohio.

V-Crimped Steel Roofing

Made of open heart sheet-steel, in sheets with a V-criimp at both edges, or with crimp in center and on both edges. Can be laid over sheathing, old shingles or direct to rafters. For any roof with a pitch of 2 in. or more to the foot. Sheets cover 24 in. after lapping one crimp over the other. Should be nailed through the wooden V-strips listed below. The roofing is painted red and should have an additional coat of mineral paint after being laid. Galvanized roofing, should also be painted as this adds to its durability.

Prices Quoted Below Are for Roofing Only

It requires 1 pound mineral paint, 50 lineal feet wood strips and 2 pounds 1 1/4 in. nails for each square of V-crimped roofing. One pound mineral paint, 100 lineal feet strips and 2 pounds nails for each square 3 V-crimped roofing. Made in two thicknesses, Heavy 26 gauge and Standard gauge. A square of V-crimped roofing equals 100 square feet of material (end laps not included.)

Painted Two V-Crimp Roofing		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C4994—No. 28 ga.	.....	\$0.89	\$1.08	\$1.26	\$1.44	\$1.62	\$1.80	69 lbs.	\$8.05
284C4995—No. 26 ga.	.....	1.10	1.27	1.48	1.68	1.90	2.12	82 lbs.	9.50
Painted Three V-Crimp Roofing		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C4997—No. 28 ga.	.....	\$0.91	\$1.09	\$1.28	\$1.45	\$1.64	\$1.82	70 lbs.	\$8.20
284C4998—No. 26 ga.	.....	1.12	1.37	1.60	1.82	2.05	2.28	84 lbs.	9.80
Galvanized Two V-Crimp Roofing		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C5000—Standard ga.	.....	\$1.08	\$1.30	\$1.52	\$1.73	\$1.95	\$2.17	78 lbs.	\$9.75
284C5001—No. 26 ga.	.....	1.35	1.63	1.91	2.18	2.45	2.72	98 lbs.	12.30
Galvanized Three V-Crimp Roofing		Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Per 9-ft. Sheet	Per 10-ft. Sheet	Shp. Wt. Sq. Ft.	Price Per 100 Sq. Ft.
284C5003—Standard ga.	.....	\$1.10	\$1.34	\$1.56	\$1.78	\$2.00	\$2.24	78 lbs.	\$10.00
284C5004—No. 26 ga.	.....	1.40	1.68	1.98	2.25	2.54	2.82	100 lbs.	12.70
284C5005—Wood V-Strips for V-Crimped Roofing. Requires 50 ft. for a square of two-V roofing; 100 feet for three-V roofing. Price, per 100 lineal feet.	.....	95c							

Shipped from Mill in Central Ohio.

Galvanized Batten Strip

184C5030—Widely used for filling the cracks between boards on barns, etc. and on wallboard in place of wood strips. Makes barns and granaries weather and vermin proof.

Will not warp, split or draw away from boards. Width, 2 in. Grooved in middle to expand and contract with boards. Made of galvanized sheet steel punched for nails. In bundles of 25 pieces. Prices subject to change.

Length, feet....	6	7	8	9	10
Shp. wt., lbs....	25	32	35	40	45
Bundles.....	\$3.35	\$3.95	\$4.50	\$5.10	\$5.65

Beaded Steel Ceilings and Sidings

Made of annealed sheet steel, standard gauge. Painted both sides with red mineral paint. With small beads or corrugations 3/4-inch deep 3/4-inch wide and 3 inches from center to center, running lengthwise. Width of sheets, from center to center of the outside beads, 24 inches. Can be furnished any length from 5 to 10 feet. When ordering allow for end lap and specify length sheets wanted.

284C5010—Price per 100 square feet \$8.70

Shp. wt., 69 lbs. per 100 sq. ft.

Lgth. sheet, ft.	5	6	7	8	9	10
Per sheet.....	97c	\$1.17	\$1.37	\$1.56	\$1.75	\$1.95

Shipped from mill in Central Ohio.

Sheet Zinc Roofing

Made of pure sheet zinc, resists fire, rust and weather and will last as long as the building. Zinc roofing has been extensively used in Europe for over one hundred years, and we are now able to supply you with this high quality, durable roofing material at a price but little in excess of a heavy galvanized steel roofing. It will outlast any steel or iron roofing, needs no paint, care or attention, and if old metal.

Corrugated Zinc Roofing

The 2 1/2 in. corrugated roofing is 26 in. wide, and the 1 1/2 corrugated is 25 in. wide, and both have a covering width of 24 in. where lapped at corrugation.

2 1/2 in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Shp. Wt. Square	Price, 100 Sq. Ft.
284C5016—No. 9	\$1.38	\$1.66	\$1.94	\$2.21	73 lbs.	\$12.75
284C5017—No. 10	1.54	1.85	2.16	2.48	81 lbs.	14.20
1 1/2 in. Corrugations	Per 5-ft. Sheet	Per 6-ft. Sheet	Per 7-ft. Sheet	Per 8-ft. Sheet	Shp. Wt. Square	Price, 100 Sq. Ft.
284C5018—No. 9	\$1.40	\$1.67	\$1.95	\$2.22	76 lbs.	\$13.30
284C5019—No. 10	1.56	1.86	2.17	2.47	84 lbs.	14.70

Shipped from Mill in Central Ohio. Prices subject to change.

Painted Valley Tin

Made of good grade of tin plate in a continuous strip locked and soldered. In rolls of 25 ft. and 50 ft. (Painted on one side.) (Price subject to market changes.)

Number	Width In.	Wt. lbs.	50-ft. Roll	25-ft. Roll
184C5064	7	16	\$2.80	\$1.45
184C5065	14	32	5.60	2.85
184C5066	20	40	7.90	4.00
184C5067	28	60	11.00	5.60



1. C. tin plate, (0.0125-in. thick) locked and soldered. Painted on under side. Width of strip, 20 in. Length, 120 ft. Sold only in rolls containing 200 sq ft. Shp. wt., 107 pounds. Roll (Subject to market changes)..... \$15.80

Continuous Hip Shingles

184C5048—Standard 28-gauge galvanized steel. In 5 ft. lengths. Total width, 5 in. Shp. wt., about 2 lbs. per length. Price, per Length..... 32c

Flat Ridge Roll

For any flat surface roofing, or for corrugated iron by using wood strips. Standard gauge, galvanized steel. Lengths, 10 ft. Wood strips not included.

Number	Width In.	Shp. wt. lbs.	Each
184C5040	2	4 1/2	\$0.78
184C5041	2 1/2	5	.90
184C5042	3 1/2	7 1/2	1.20



Galvanized Valley

Galv. Sheet steel. Joined together. Width 14 in. Sold in full rolls. (Prices subject to market changes.) Standard No. 28 Gauge.

184C5070—Per 25 ft. Roll, wt., 18 lbs. Price..... \$3.40

Per 60 ft. Roll, wt., 36 lbs. Price..... 6.75

Extra Heavy, No. 26 Gauge.

184C5071—per 25 ft. Roll wt., 20 lbs. Price..... \$3.75

Per 60 ft. Roll, wt., 40 lbs. Price..... 7.45

Sheet Zinc

184C5025—Regular smooth sheet zinc. 26 Gauge. Sheets, 36x34 in. Shp. wt., about 14 lbs. Price..... \$1.40

Half sheet, 36x12 in. Price..... 2.75

Full sheet, 36x34 in. Price subject to market changes.

Ornamental Hip Shingles

One to each course.

184C5050—Galv. Size, 4x9 in. Shp. wt., 25 lbs. pack. 100 shingles. Price..... \$3.60—50 shingles..... \$1.85

Galvanized Sheet Steel

184C5022—Smooth, galv. sheets. Size, 25x36 in. Prices subject to change.

Gauge.....	24	26	28
Sheets, Bundle.....	7	9	10
Shp. wt., lbs.....	22	17	15
Price, per sheet \$	2.35	1.90	1.70
Price, Bundle.....	16.25	16.95	16.70



Galvanized sheet steel corners, have correct pitch. Punched for nails. Shp. wt., 10 lbs. per 100 corners.

184C5034—Outside corners. \$1.60

For 6-in. siding, per 100..... 1.80

184C5035—Inside corners. \$1.60

For 4-in. siding, per 100..... 1.80

For 6-in. siding, per 100..... 1.80

Galvanized Finial

184C5052—Stamped galvanized steel. Height 9 in. To finish off ends of ridge roll. Shp. wt., about 1 lb. Each..... 57c

Black Sheet Steel

184C5020—Smooth, black sheets. Size, 24x101 in. Prices subject to change.

Gauge No.....	24	26	28
Sheets, Bundle.....	9	12	14
Shp. wt., lbs.....	18	13	11
Price per sheet.....	\$ 1.60	\$ 1.15	\$ 0.92
Price per bundle.....	13.70	13.75	12.95

Barbed Roofing Nails

For Sheet Metal Roofing and Siding. Shp. wt., 5-lb. package, 6 lbs. Prices subject to change.

184C5090—Length, 3/4 in. for siding..... 15c

184C5091—Length, 1 in. for roll and cap roofing..... 14c

184C5092—Length, 1 1/4 in. for corrugated and V-crimped roofing. Package, 5 lbs..... 95c

Lead Roofing Washers

184C5095—To go under the nail head. Avoids leak around the nail hole. Recommended for corrugated roofing. About 325 washers in 1 pound and it requires 1/2 lb. for each square. (Prices subject to change.) Package, 1 lb..... 20c Package, 5 lbs..... 95c

Metal Ceilings—Fire Retarding—Easy to Clean

For Home and Office

Our Metal Ceilings are made of Steel; the designs represent the result of years of careful study and experience. The embossing is deep and clear. Each Plate, Cornice or Moulding, down to the smallest fitting, is produced with the finished ceiling in mind. The plates are all re-squared after stamping. The Beads are re-pressed on dies made of tool steel and are true to size and shape. They go together properly; no raw edges or gapping seams. The Corner Mitres are made of one piece as are the corners for the border, and are molded fillers. All of these features improve the finished appearance of the completed ceiling.



284C5100

Metal Ceilings are Fire Proof, Dust Proof, Sanitary and Economical. They are adapted for use in Churches, Halls, Lodge Rooms, Theatres, Hotels, Restaurants, and Private Homes, eliminating all danger of falling plaster. They cannot crack or fall off; they last a lifetime, and a fresh coat of paint changes the entire appearance.

Metal Ceilings are easy to apply. With each order we furnish complete directions and a regular detailed drawing, showing where each piece belongs. A small amount of fitting, such as around chimneys, and corners must, of course, be done right on the job by the person doing the work. All our prices include wood-brackets for Cornice and Over-Head Ceiling Nails. Furring Strips not included. Painted light gray color on both sides.

In ordering Metal Ceilings, be sure to send a rough pen or pencil sketch of the Room, showing size, shape, and location of off-sets. Metal Ceilings, carefully packed for shipment, weight, about 65 lbs. per 100 sq. ft. Shipped from Northern Illinois or Eastern Ohio.

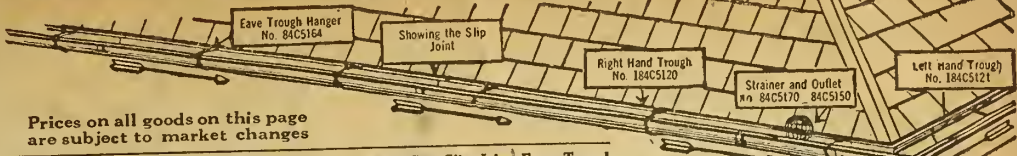
284C5100—Steel Ceiling, center design plate only. Per 100 sq. feet.....	\$7.50
284C5101—Cornice moulding, as shown. Per foot.....	.08
284C5102—Mitres (Corner sections). Each.....	.35
All prices subject to change. Send sketch of your rooms and write us for complete estimate.	
284C5104—Steel ceiling, center design plate only, per 100 sq. ft.....	8.50
284C5105—Filler (design as shown next to cornice), per 100 sq. ft.....	8.50
284C5106—Cornice moulding (as shown). Per foot.....	.11
284C5107—Mitres (corner section). Each.....	.45
All prices subject to change. Send sketch of your rooms and write us for complete estimate.	



Watertight, Durable Eave Troughs—Easy to Put Up

The Slip Joint Makes It Easy
 The Slip Joint makes it easy for any man to put up this Trough. Simply push it together. No Tinner needed. Makes a neat, tight job and requires no soldering at the joint. Always state whether right or left hand trough is wanted, or send sketch showing position of outlets, etc. **Please Note:**—Prices on this page are subject to market changes. If prices should decline, we will refund you the difference when your order is received.

Half Round Slip Joint Eave Trough
 Made of best grade galvanized Sheet Steel in 10 ft. lengths without a seam. One end of each length is made with a slip-joint which is quickly put together and requires no soldering.



Prices on all goods on this page are subject to market changes

Galvanized Eave Trough Standard 28 Gauge

Size, in. (inside width at top)	3 1/2	4	5	6
Ship. wt., per length, lbs.	4 1/2	5	6 1/2	7 1/2
Per 10-ft. length	64c	70c	83c	99c

184C5120—Right Hand.
 184C5121—Left Hand.

Extra Heavy 26 Gauge Eave Trough

Size, in. (inside width at top)	3 1/2	4	5	6
Ship. wt., per length, lbs.	5	5 1/2	7 1/2	9 1/2
0-ft. length	84c	92c	\$1.04	\$1.20

184C5122—Right Hand.
 184C5123—Left Hand.

Galvanized Eave Trough Corners Ex. Heavy 26 Gauge. Slip Joint

Size, in. (inside width at top)	3 1/2	4	5	6
Ship. wt., oz.	14	16	19	22
Each	28c	30c	35c	40c

84C5148—Inside Bead
 84C5149—Outside Bead

Wire Eave Trough Hangers

Size, in.	3 1/2	4	5	6
Ship. Wt.	19 oz.	20 oz.	26 oz.	30 oz.
Doz.	30c	35c	40c	50c

84C5164—For attaching eave trough to roof. Made of heavy galvanized wire.

Galvanized Drop Outlet

Trough	Outlet	Each
3 1/2 in.	2 in.	20c
4 in.	2 1/2 in.	22c
5 in.	3 in.	25c
6 in.	4 in.	29c

Conductor Pipe Hooks

Size	Ship. Wt.	Doz.	Dozen
2 in.	2 lbs.	2	\$0.58
3 in.	2 1/2 lbs.	2	.75
4 in.	3 lbs.	2	1.10
5 in.	4 1/2 lbs.	2	1.50

84C5163—Malleable iron, galvanized.

Hinged Conductor Hooks

Size, in.	2	3	4	5	6
Dozen	95c	\$1.20	\$1.65	\$2.50	\$4.00

84C5169—To fasten corrugated conductor pipe on wood buildings. Malleable iron, tinned. Ship. wt., 2 to 5 oz.

Corrugated Conductor Pipe

Galvanized steel, corrugated to allow for expansion and contraction and will not burst, even if full of ice. We suggest that you use 2-inch conductor pipe with 3 1/2 and 4-inch eave trough. Use 3-inch pipe for 5-inch trough and 4 or 5-inch pipe for 6-inch trough. Strongly made of best galvanized steel. Allow 2 1/2 inches on each length for joint.

Standard 28 Gauge Conductor Pipe

Size, in.	2	3	4	5
Ship. wt., lbs.	5	6	8	10
Per 10-ft.	72c	85c	\$1.12	\$1.40

184C5132—This is the grade commonly used, but for long service we recommend the extra heavy grade.

Galvanized Round Corrugated Elbows

For conductor pipe. Three different angles at same price. Made of galv. steel. (Give No. and Size.)

Size, in.	2	3	4	5
Ship. wt., oz.	6	8	11	20
Each	18c	20c	38c	78c

84C5140 84C5141 84C5142
 45 deg. 60 deg. 75 deg.

Corrugated Shoes

84C5143—For bottom end of conductor pipe. Made of galvanized steel. Give size.

Size, in.	2	3	4	5
Ship. wt., oz.	7	8	14	23
Each	26c	30c	48c	96c

Conductor Pipe Cut-off

84C5174—Has safety spring to turn water from one pipe to another. Heavy galvanized steel.

Size	Ship. Wt.	Each
2 in.	1 lb.	\$0.55
3 in.	1 1/2 lbs.	.58
4 in.	2 lbs.	.80
5 in.	2 1/2 lbs.	1.48

Galvanized Funnel

84C5172—Size means diameter of lower outlet. Heavy galvanized steel.

Size	Shipping Weight	Each
2 in.	12 oz.	29c
3 in.	18 oz.	36c
4 in.	20 oz.	48c

Drop Outlet Strainer

84C5170—Galv. wire. Ship. wt., 4 to 12 oz. each.

Size, in.	2	3
Each	10c	13c
Size, in.	4	5
Each	21c	26c

Blow Torches Gasoline Furnaces Soldering Material

Wide Girt Slip Joint Eave Trough

Galvanized steel, No. 28 gauge, with slip joints. In 10-ft. lengths. Fits under the shingles near the eaves. Allow 2 1/2 in. on each length for the joint.

184C5124—Right Hand.
 184C5125—Left Hand.

Width of girth, 14 in. Has roll 3 in. high. Flat surface, 9 in. wide. Ship. wt., 8 lbs. Price \$1.78

Galvanized Spout Ends

Right or left hand. Illustration shows right hand. Ship. wt., 10 to 12 ounces.

84C5159—Girth, 14 in. Outlet, 2 in. Each. 34c

Galvanized Slip Ends

Right or left hand. Illustration shows left hand. Illustration shows left hand. Shipping weight, 14 to 19 ounces.

84C5158—1 1/4 in. c b girth. Each. 33c

O-G Box Eave Trough

EXTRA HEAVY

84C5128—A fine finish for the eaves of the roof. Extra heavy, 26 gauge galvanized steel. In 10-ft. lengths; allow 2 1/2 in. for joints. No slip-joints. Depth, front 5 in.; width, 3 1/2 in. Ship. wt., 10 lbs. Per 10-foot length \$1.70

Hangers for O-G Trough

84C5166—Length about 12 in.; width, 1 in. Heavy No. 16 gauge galvanized steel; punched for nails. Ship. wt., doz., 88c

O-G Eave Trough Corners

84C5161—Extra heavy No. 26 galvanized steel. Require soldering to trough ends. Depth, front, 5 in. width, 3 1/2 in. Ship. wt., 1 lb. Each. \$1.10

O-G Trough Ends

84C5160—For O.G. box trough. Require soldering to trough-ends. Extra heavy No. 26 galv. steel. Ship. wt., 1/2 lb. Each. 30c

Charcoal Rainwater Filter

Keeps your cistern clean. Removable top-strainer. Lower compartment to be filled with charcoal. A great purifier.

84C5180—For 3-in. Conductor Pipe. Diam. 12 in.; height, 30 in. Requires 15 lbs. charcoal. Ship. wt., 20 lbs. Each. \$7.60

84C5181—For 4-in. Conductor Pipe. Diam. 16 in.; height, 30 in. Requires 20 lbs. charcoal. Ship. wt., 24 lbs. Each. \$9.60

84C5183—Charcoal, 20-lb. bag. Price. 65c

84C5184—Charcoal, 15-lb. bag. Price. 45c

Gasoline Auto Torch

84C5224—Brass body, flat oval shape for use in narrow places. Powerful burner. Folding support on bottom prevents tipping over. Fitted with soldering iron holder. Pump is contained in the handle. Capacity, 1 pint; height over all, 9 in. Ship. wt., about 4 lbs. Each. \$7.95

Gasoline Torch and Sprayer

84C5222—Burner gives hot flame. Separate nozzle throws fine stream of gasoline for cleaning machinery, destroying bed bugs, etc. Well made and finely finished. Capacity, 1 quart. Height 9 in. Ship. wt., about 5 1/2 pounds. \$6.85

Double Jet Gasoline Brazing Torch

84C5226—Generates intense heat of about 3,000 degrees (Fahrenheit). Will produce large or a small, pointed flame. Fine for brazing, tempering, etc. Capable of doing work heretofore deemed impossible with a blow torch. Made of heavy brass and bronze. Pump is in handle. Capacity of tank, 1 quart. Height over all, 9 in. Ship. wt., about 4 lbs. With directions. \$8.90

Kerosene Torch

84C5228—A reliable kerosene torch, gives a hot blast up to 3,000 degrees Fahrenheit. Does not carbonize. Blast is not affected by wind or cold. Quart size, steel body, nickel-plated. Ship. wt., about 4 lbs. Price. \$8.95

Genuine Babbitt Metal

84C5202—Pure tin, copper and antimony. For all classes of work. Weight, per bar, about 4 1/2 lbs. Ship. wt., 6 lbs. Pound. 95c

No. 1 Babbitt Metal

84C5203—For all light, fast running machinery, etc. Weight, per bar, about 6 lbs. Ship. wt., 7 lbs. Pound. 19c

No. 3 Babbitt Metal

84C5204—For pulleys, shafting, etc. Weight, per bar, about 5 1/2 lbs. Ship. wt., 6 1/2 lbs. Pound. 16c

Bar Lead

84C5195—Put up in bars of about 4 oz. Ship. wt., per pound, 13 oz. Pound. 13c

Magnolia Babbitt Metal

84C5201—Adapted to high and low speed machinery. Weight, per bar, about 6 1/2 lbs. Ship. wt., 8 lbs. Per pound. 45c

Lakeside Babbitt Metal

84C5200—Suitable for either light or heavy bearings—will not cut or heat journals. Weight, per bar, 5 lbs. Ship. wt., 7 lbs. 30c

PIG LEAD

84C5196—Plumber's Pig Lead Bars, 6 1/2 lbs. Ship. wt., about 8 lbs. Pound. 12c

Bar Tin

84C5193—Genuine new, pure tin. Bars weigh about 1 1/2 lbs. Ship. wt., 2 lbs. Bars. \$1.30

Iron Melting Ladles

84C5206—For melting babbitt metals, lead, etc. Give size. Diam., in. 3 4 5 Ship. wt., lbs. 1 1/2 3 Each 24c 36c 49c

Standard Gasoline Blow Torch

Pint Size \$5.75

Polished brass body; special bronze burner and improved air pump. Gives intensely hot blue flame. Easily regulated and indispensable for paint burning, soldering, thawing out of pipes. Removable solder-iron holder. Every torch is tested. The 1-quart size is most popular.

84C5220—Capacity, 1 pint. Height, 7 in. Ship. wt., 3 lbs. 0c. Each. \$5.75

84C5221—Capacity, 1 quart. Height, 9 in. Ship. wt., 4 lbs. Each. \$6.45

Handy Soldering Set

84C5215—Small soldering copper, scraper, box resin and piece of solder in paper box. Useful but has smaller capacity than the other sets. Ship. wt., 12 oz. 38c

Gem Soldering Set

84C5217—Soldering copper, scraper, and bar of solder and box of resin in wood box. Often pays for itself on one home repair job. Ship. wt., 1 1/4 lbs. Set. \$1.10

Soldering Salts

One of the cleanest and most effective soldering fluxes made. Dissolved in water, and applied with brush. Causes solder to flow readily, and insures tight joints or seams. Non-corrosive, and will not injure bands. With directions. 34C5210—In 1/2-lb. bottle. Ship. wt., 1 1/2 lbs. Each. 34c

84C5211—In 1-lb. bottle. Ship. wt., 3 lbs. Each. 58c

Gasoline Furnace

84C5232—Produces a very hot flame. Has shield to hold melting pot. Melting pot not included. With heavy galvanized iron gas-line tank. Rubber pressure bulb. Small castings are malleable iron and brass. Burner is extra heavy copper pipe. Consumption, 1 pint of gasoline per hour. Height over all, 17 1/2 in. Diameter, 8 1/2 in. Ship. wt., about 10 lbs. Each. \$8.70

Wire Solder

84C5192—Half and half, tin and lead. Diameter about 1/4 in. Ship. wt., per lb. 18 oz. Price subject to change. Pound. 55c

Tinners' Solder

84C5190—Made of pure tin and lead. Guaranteed 50% pure tin and 50% pure lead. Bars weigh about 1 1/2 lbs. Ship. wt., 2 lbs. Price, per bar (about 1 1/2 lbs.) subject to change. 85c

Small Gasoline Torch

84C5230—Handy for small work or repair jobs. Gives hot flame, about half the size of our larger torches. Brass body. Quickly started with a match. Operates without a pump. Total height, 6 1/2 in. Diameter, 1 1/4 in. Ship. wt., 8 oz. Each. \$1.88

Combination Gasoline Furnace

84C5234—With steel gasoline tank painted. Removable hood. Burner can be swung in any position. Produces a hot flame. Will heat a pot of lead and a pair of soldering coppers at the same time. Burner is not affected by wind or weather. Well made and durable. Capacity 3 quarts. Height over all, 12 in. Diameter, 8 1/2 in. Ship. wt., about 12 pounds. Each. \$14.80

Ajax Fencing is Known the World Over for Its Strength

The Wires and Knot That Make Ajax Famous

No. 12 1/2
SIZE OF INTERMEDIATE LINE AND STAY WIRES

No. 9 1/2
SIZE OF LINE WIRES AT TOP AND BOTTOM

Ajax fence is built on simple and correct principles. It stands stiff, erect and firm. It combines strength and durability. The upright stay wires, being the same size as the line wires, give you a real-stiff-stay fence. Will always stand up erect; can be built with fewer posts than other styles.

In the design of our Ajax fence we avoid all sharp bends and twists in the line and stay wires. The upright stays are in one piece, no twisting around the line wires, and are fastened with our Ajax circular knot. This knot never lets go; the more you stretch the fence the tighter it grips. It holds every wire firmly; each wire in the fence stands an even share of the strain.

There's a reason why Ajax Fencing lasts longer than ordinary fencing, and will give you better service. The wire used in it is of basic open-hearth steel, tough, springy and of great strength. And open-hearth steel resists rust and decay better than steel made by any other process, because it readily absorbs and holds good coat of galvanizing, therefore we use it entirely. We do not use the common soft wire which soon rusts, stretches out of shape and is never satisfactory.

All wires are heavily galvanized with a good coating of zinc spelter, to prevent rust. Line wires are coiled, to allow for expansion and contraction from temperature changes. The cost of posts and labor is the same whether you stretch a light-weight, cheap fencing or a good, substantial fence like our Ajax. It is economy to use Ajax Fencing.

29c Rod Ajax Sheep and Hog Fence 43c Rod

Galvanized tough steel wire, often used with barbed wire at the top. Top and bottom wires, heavy No. 9 1/2 gauge, stays and intermediate line wires, No. 12 1/2 gauge.

Catalog Number	Ht. In.	No. of Line Wires	Mesh			Upright Stays Apart	Wt. Lbs. 100 Rods	Price Per Bale			
			At Bottom	Top	Wid.			Height	10 Rods	20 Rods	30 Rods
284C5250	20	6	3 in.	5 in.	12 in.	450	\$2.90	\$5.80	\$8.70	\$11.60	
284C5251	20	6	3 in.	5 in.	6 1/2 in.	550	3.60	7.20	10.80	14.40	
284C5252	26	7	3 in.	6 in.	12 in.	550	3.60	7.20	10.80	14.40	
284C5253	26	7	3 in.	6 in.	6 1/2 in.	650	4.30	8.60	12.90	17.20	

41c Rod Ajax Stock Fence 65c Rod

Galvanized tough steel wire. Top and bottom wires, heavy No. 9 1/2 gauge; stay and intermediate line wires, No. 12 1/2 gauge.

Catalog Number	Ht. In.	No. of Line Wires	Mesh			Upright Stays Apart	Wt. Lbs. 100 Rods	Price Per Bale			
			At Bottom	Top	Wid.			Height	10 Rods	20 Rods	30 Rods
284C5254	32	8	3 in.	6 in.	12 in.	620	\$4.10	\$8.20	\$12.30	\$16.40	
284C5255	32	8	3 in.	6 in.	6 1/2 in.	765	5.10	10.20	15.30	20.40	
284C5260	42	9	3 in.	7 in.	12 in.	700	4.50	9.00	13.50	18.00	
284C5261	42	9	3 in.	7 in.	6 1/2 in.	870	5.80	11.60	17.40	23.20	
284C5262	50	10	3 in.	8 in.	12 in.	775	5.00	10.00	15.00	20.00	
284C5263	50	10	3 in.	8 in.	6 1/2 in.	970	6.50	13.00	19.50	26.00	

Shipped from Factory in Northern Illinois

Ajax Combination Poultry and Stock Fence

Strong enough for stock and with close meshes that will turn small chickens. Top and bottom wires, No. 9 1/2 gauge. Stays and intermediate line wires, No. 12 1/2 gauge.

Catalog Number	Ht. In.	No. of Line Wires	Mesh			Upright Stays Apart	Wt. Lbs. 100 Rods	Price Per Bale		
			At Bottom	Top	Wid.			Height	10 Rods	20 Rods
284C5270	46	14	1 1/2 in.	8 in.	8 in.	8	1125	\$7.30	\$14.60	\$21.90
284C5271	58	16	1 1/2 in.	8 in.	8 in.	8	1275	8.30	16.60	24.90

Ajax Special Poultry Fence

Tough drawn galvanized steel wire same as our regular Ajax fence, but somewhat lighter. An excellent enclosure at a small expense. Will outlast ordinary poultry netting. Tops and bottom wires No. 11 gauge, stays and intermediate line wire, No. 14 gauge.

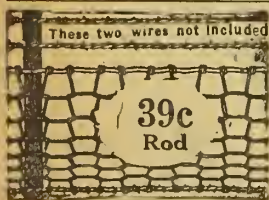
Catalog Number	Ht. In.	No. of Line Wires	Mesh			Upright Stays Apart	Wt. Lbs. 100 Rods	Price			
			At Bottom	Top	Wid.			Height	5 Rods	10 Rods	20 Rods	30 Rods
284C5275	46	14	1 1/2 in.	8 in.	8 in.	8	750	\$2.60	\$5.20	\$10.40	\$15.60
284C5276	58	16	1 1/2 in.	8 in.	8 in.	8	875	3.05	6.10	12.20	18.30

Ajax Extra Heavy Fencing

Made of extra strong galvanized wire. One of the strongest and most durable fences made. It is made entirely of heavy No. 9 1/2 gauge wire (about 5/16-inches thick).

Catalog Number	Ht. In.	No. of Line Wires	Mesh			Upright Stays Apart	Wt. Lbs. 100 Rods	Price Per Bale			
			At Bottom	Top	Wid.			Height	20 Rods	30 Rods	40 Rods
284C5280	45	8	5 in.	8 in.	8 in.	16	1050	\$13.80	\$20.70	\$27.60	
284C5281	50	10	3 in.	8 in.	8 in.	12	1400	18.00	27.00	36.00	
284C5282	50	10	3 in.	8 in.	8 in.	8	1700	22.00	33.00	44.00	

Shipped from Factory in Northern Illinois.



Barbed Bottom Hog Fence

With two point barbed bottom wires. Galvanized Tough open hearth steel wire. Standard grade. Top wires No. 10, stays, and line wires No. 13; stay wires 6 in. apart, height of two bottom meshes, 3 in. widening to 6 in. at top.

39c Rod

Bales of 20 and 40 rods.

- 284C5310—Height, 26 in. Ship. wt., 100 rods— 39c
- 525 lbs. Per rod.
- 284C5311—Height, 32 in. Ship. wt., 100 rods, 600 lbs. Per rod. 46c
- Medium grade made same as above with top wires No. 11, stays and line wires No. 14.
- 284C5312—Height 26 in. Ship. wt., 100 rods, 425 lbs. Per rod. 34c
- 284C5313—Height 32 in. Ship. wt., 100 rods, 500 lbs. Per rod. 39c

Shipped promptly from stock at Chicago, or Factory, Central Indiana.

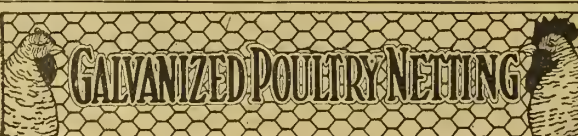


Perfect Poultry Fence

Open-hearth steel wire, heavily galvanized. Continuous stays 4 1/2 inches apart, firmly interlocked with line wires so they will not spread. No top or baseboard necessary. No buckling between posts.

46c Rod

- Top and bottom wires, No. 14; line and stay wires, No. 18. Spaced 1 1/2 in. apart at bottom, widening to 4 1/2 in. at top. In 10, 15 or 20-rod bales. Prices subject to market changes.
- 284C5300—Height, 48 in. With 20 line wires. Ship. wt., rod, 3 1/2 lbs. Rod. 46c
- 284C5301—Height, 60 in. With 23 line wires. Ship. wt., rod, 4 1/2 lbs. Rod. 52c
- 284C5302—Height, 72 in. With 26 line wires. Ship. wt., rod, 5 lbs. Rod. 57c



\$1.42 Per Up Bale Standard Diamond Mesh Poultry Netting

Tough steel galvanized wire with heavy top and bottom wires. Will stretch evenly, stand rigidly and will not sag or bulge. Well galvanized and rust-resisting. Sold only in full bales of 150 lineal feet. Prices subject to market changes.

- 284C5325—2-inch Mesh. The standard size most commonly used. Made of No. 19 galvanized wire.
- Height, in. 12 18 24 30 36 42 48 60 72
- Ship. wt., Bales, lbs. 13 18 24 29 36 40 46 60 70
- Price. \$1.42 2.15 2.72 3.25 3.75 4.35 4.95 6.15 7.40
- 284C5326—1 1/2-inch Mesh. A popular medium mesh. Made of No. 19 galvanized wire.
- Height, in. 12 18 24 30 36 42 48 60 72
- Ship. wt., Bales, lbs. 16 21 25 30 40 45 55 69 80
- Price. \$2.15 3.15 4.00 4.65 5.40 6.35 7.20 9.00 10.80
- 284C5327—1-inch Mesh. Will keep the smallest chicks safely enclosed. Made of No. 20 galvanized wire. Prices are necessarily subject to market changes.
- Height, in. 12 18 24 30 36 48
- Ship. wt., lbs. 18 25 35 38 48 60
- Price. \$2.95 \$4.30 \$5.50 \$6.50 \$7.95 \$10.40

Galvanized Square Mesh Heavy Gauge Wire Cloth

284C5330—For window guards, fruit evaporators, screens, cages, etc. Mesh means number of openings to inch. We furnish as follows: No. 2 mesh, 19 gauge wire; No. 3, 21 gauge; No. 4, 23 gauge; No. 5, 24 gauge. Be sure to state mesh wanted. Prices subject to market changes. Ship. wt., 60 to 88 lbs.

No. of Mesh	Width In.	Rolls 100 ft.	Rolls 50 ft.	Running Foot!
2 and 3	24	\$12.50	\$6.45	14c
2 and 3	30	15.65	8.00	18c
2 and 3	36	18.75	9.75	21c
4 and 5	24	14.00	7.20	16c
4 and 5	30	17.00	9.00	20c
4 and 5	36	21.00	10.80	23c

Climax Economy Poultry Fence

284C5320—Closer mesh at bottom than any other square mesh fence, and will turn small chicks. Heavier than netting; needs no top and bottom boards to support it.

Made of No. 17 gauge galvanized wire fastened with secure tie; top and bottom wires are heavy No. 14 gauge. Close 1 1/2-in. bottom meshes, widening to 6 in. at the top on 72-in. size. Closed upright stays only 4 in. apart. 10 and 20-rod bales.

Height in.	Line Wires	Ship. wt., rod, lbs.	Rod
36	48	60	7c
20	23	25	2c
5	6	7	1c
51c	58c	74c	76c

Standard Poultry Fence

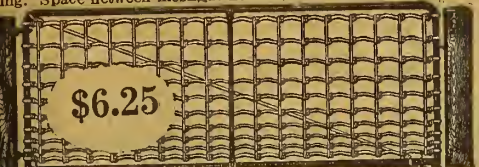
Top and bottom wires. No. 10 spring steel wire. Line wires and stays, No. 14. Height of lower meshes, 1 1/4 in., 5 1/4 in. at top. Stay wires 6 in. apart. In bales of 10, 15 or 20 rods.

- 284C5304—Height, 36 in. Fifteen line wires. Ship. wt., rod, 7 1/4 lbs. Rod. 57c
- 284C5305—Height, 48 in. Seventeen line wires. Ship. wt., rod, 8 1/4 lbs. Rod. 66c
- 284C5306—Height, 60 in. Nineteen line wires. Ship. wt., rod, 9 1/4 lbs. Rod. 72c

Beautify Your Grounds With Our Ornamental Fences

Steel Farm Gates

Tubular steel frame with an upright and a diagonal brace, making it strong and rigid; heavy galvanized square mesh wire. Space between mesh, at bottom, 3 in.; top, 8 in.



Heavy Farm Gate

Outside diameter of frame, 1 1/2 inches. Prices include latch and hinges for wood posts.

Height	Width	Ship. Wt.	Number	Each
54 in.	10 ft.	65 lbs.	284C5354	\$7.95
54 in.	12 ft.	69 lbs.	284C5355	8.90
54 in.	14 ft.	75 lbs.	284C5356	10.15

Shipped from factory in Northern Illinois

Medium Farm Gate

Outside diameter of frame, 1 1/2 in. Otherwise the same as above. Size of mesh, bottom, 2 3/4 in., top, 7 1/2 in.

Height	Width	Ship. Wt.	Number	Each
54 in.	10 ft.	55 lbs.	284C5357	\$6.25
54 in.	12 ft.	58 lbs.	284C5358	7.45

Shipped from factory in Northern Illinois.

Steel Poultry Gate

Painted frame of heavy tubular steel, 1 1/2 in. outside diameter. Galv. wire fabric, 14 gauge, close mesh, 1 1/2 in. at bottom, widening to 5 1/2 in. at top.

A neat, durable gate for the poultry yard; strong enough to turn cattle. Latch and hinges for wood posts included. Ship. wts., 20 and 24 lbs.

Article Number	Ht. In.	Width Ft.	Each
184C5350	48	3 1/2	\$2.95
184C5351	60	3 1/2	3.30

Shipped promptly from stock at Chicago.

Lawn Gates to Match Fencing Below



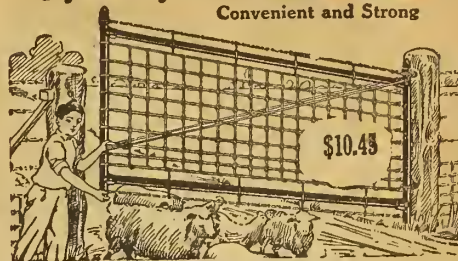
284C5385—Wrought iron ornamental top, 1 1/2-in. tubular steel frame, double acting hinges and latch. Set posts 3 1/2 in. further apart than width of gate. Ship. wt., about 30 lbs.

Height Fabric	Height Frame	Width	Each
36 in.	39 in.	3 ft.	\$3.80
42 in.	45 in.	3 ft.	3.90
48 in.	51 in.	3 ft.	4.10
36 in.	39 in.	3 1/2 ft.	4.25
42 in.	45 in.	3 1/2 ft.	4.20
48 in.	51 in.	3 1/2 ft.	4.40

Shipped from factory in Northern Illinois.

Ajax Adjustable Farm Gates

Convenient and Strong



Barbed Top and Bottom Wire

Easily raised at one end to clear snow drifts, or other obstructions. Heavy, 1 1/2-in. tubular steel frame, strong fittings, hinges and latch. Heavy gauge galv. wire fabric, with 6-in. stays. Space between mesh, bottom, 3 in.; top, 7 in. Prices include latch and hinges for wood posts. Complete, ready to hang.

Ht.	Width	Ship. Wt. lbs.	284C5360 Painted Frame	284C5361 Galv. Frame
54 in.	10 ft.	80	\$10.45	\$12.95
54 in.	12 ft.	90	11.75	14.15
54 in.	14 ft.	100	12.75	15.30
54 in.	16 ft.	110	13.65	16.45

Shipped from factory in Northern Illinois. With Ajax Fencing.

Tackle Block Wire Stretcher

284C5470—For smooth or barbed wire, and woven wire fencing. Self-locking at any point. Malleable iron. Makes good tackle block or rope stretcher. Holds 500 lbs. Complete, with about 15 ft. of 3/8-in. rope. Ship. wt., 5 lbs.

Each.....\$1.38

Lever Wire Stretcher

284C5474—Heavy malleable iron jaws. With socket for inserting handle. Grips securely either barbed or smooth wire. Ship. wt., 3 1/2 lbs. Lever or handle not included.

Each.....48c

Elwood Stretcher

184C5472—Wrought steel. With heavy double notched bar. Stands out from the post and remains in line with wire. Ship. wt., 5 lbs.

Each.....\$1.10

Ajax Fence Stretcher

184C5480—A powerful substantial stretcher for heavy field fence. Has 60-in. wood clamp bar with bolts, heavy chain and 5-ft. wood lever. Neatly painted. Ship. wt., 45 lbs.

Each.....\$6.75

Steel Fence Posts

284C5410—Heavy all steel fence posts, made of angle steel, size, 1 1/2 in. x 1 1/2 in. x 3/8 in. thick. Total length, 7 feet. They can be quickly driven into any kind of soil, and require no staples as they are formed with hooks or prongs on which the wire rests.

These hooks are close together so as to take woven wire fencing of any size mesh, and suitable for fencing any height up to 60 in. Painted with weather resisting black paint. Price subject to change. Approximate weight, each, 9 lbs.

Price, each.....58c

Shipped from factory in Northern Illinois. With Ajax Fencing

Ridgewood Lawn Fence

284C5381—Heavy No. 9 wire pickets, spaced 2 1/2 in. apart at top. Close spacing of 1 1/2 in. at bottom keeps small chickens out. The cable line wires are spaced about 6 in. apart and twisted around each picket, making a strong close mesh fence. Prices subject to change.

Height, in.....36 42 48

Cables.....7 8 9

Ship. wt., foot, lbs.....1 1/2 1 1/2 2

Foot.....14 1/2 c 16 1/2 c 18 1/2 c

Shipped from factory in Northern Illinois.

Fernwood Lawn Fence

284C5380—Heavy No. 9 wire pickets, spaced 3 in. apart and evenly corrugated. The cable line wires are twisted tightly around each picket, and spaced about 6 in. apart, except at top, where strength is most needed, they are only 2 1/2 in. apart. Prices subject to change.

Height, in.....36 42 48

Cables.....7 8 9

Ship. wt., foot, lbs.....1 1/2 1 1/2 1 1/2

Foot.....11 1/2 c 12 1/2 c 14 c

Shipped from factory in Northern Illinois.

Smooth Fence Wire

Open hearth steel wire, the best for this purpose. Prices given are for 100-lb. bundles. We do not break bundles. All prices are subject to market changes. (Give size.)

Gauge	Feet in 100 lbs.	284C5450 Plain	284C5451 Galvanized
8	1,425	\$4.40	\$5.10
9	1,725	4.40	5.10
10	2,075	4.45	5.15
12	3,425	4.55	5.25
14	5,900	4.75	5.45

Shipped from factory in Central Indiana.

Woven Wire Fence Stretcher

Powerful quick-acting and self-locking. 8-ft. chain and hooks, 62-in. wood clamp bars, and combination crank and finishing tool for stretching near post.

184C5482—Single stretcher. Ship. wt., 38 lbs. \$6.20

184C5483—Double stretcher, with two chains, tighteners and crank. Ship. wt., 70 lbs. \$11.50

Wire Grip

384C5476—Can be attached to any wire stretcher. For smooth or barbed wire. Heavy cast iron. Ship. wt., 1 lb.

Each.....39c

Fence Finishing Tool

384C5478—Easily stretches line wires around last post, which is always a difficult part of fence to staple. Made of malleable iron. Japanned finish. Length, 19 1/2 in. Ship. wt., 3 lbs.

Each.....98c

Eclipse 80-Rod Barbed Wire

A medium weight fence wire, preferred by many to the regular standard barbed wire. Easy to handle. Tough and elastic. Cable wires, No. 14. Put up on spools containing 80 rods. Ship. wt., spool, 56 to 58 lbs. Prices subject to market changes.

284C5440—Galvanized Hog Wire. Spool.....\$2.90

284C5441—Galv. Cattle Wire. Spool.....\$2.65

Shipped from factory in Northern Illinois.

Barbed Fence Wire

A perfect wire. Thoroughly annealed. We recommend the two-point single twist barbs, as shown above. Much neater than four-point barb, easier to handle, and just as effective. Two strands regular No. 12 wire. Ship. wt., rod, about 1 lb. Cattle wire has barbs about 5 in. apart. Hog wire has barbs about 3 in. apart. Prices subject to market changes.

Standard Galv. Two-point Barbed Wire

284C5420—Cattle wire. Reel of 100 lbs.....\$5.75

284C5421—Cattle wire. Spool of 80 rods.... 4.75

284C5422—Hog wire. Reel of 100 lbs..... 5.75

284C5423—Hog wire. Spool of 80 rods.... 5.15

Standard Galv. Four-point Barbed Wire

284C5426—Cattle wire. Spool of 80 rods.....\$5.00

284C5427—Hog wire. Spool of 80 rods..... 5.35

Shipped from factory in Northern Illinois.

Storm or Window Screen Hangers

384C3782—Wrought steel Japanned. With screws. Ship. weight, 2 1/2 lbs. Per Set (1 window).....\$0.10

Dozen Sets (12 windows).....1.15

Mortise Screen Door Latch

384C3770—For doors swinging in or out. Plated steel nob, escutcheon and latch, with screws. Two escutcheons 1 1/2 x 1 1/2 ins. Bronze plated.

Set.....78c

384C3771—Anti que copper plated.

Set.....78c

Combination Screen and Storm Door

One Door Frame Serves the Purpose of the Two.

No need to do the troublesome work of removing the screen door in the fall and attaching the storm door. This combination does away with all the work of putting unnecessary screen holes in the porch twice a year—because, it is the "Permanent" door. By merely taking out the removable screen and putting in the sash you have changed it from a screen to a storm door.

Held firmly in place by a patent metal lock, quickly and easily adjusted with a screw driver.

Costs little—is long lasting, the door once adjusted, stays fitted and doesn't have to be planed down or readjusted twice a year. Removable panels fit flush with door frame. Either door for you in a moment or two.

Door frame is made of selected white pine 1 1/2 in. thick, sanded and smoothed.

No amount of jarring can loosen the screen or storm sash. Just as solid as if built in. Plain white finish. Screen panel wired with fine 14 mesh galvanized wire cloth. Storm sash glazed with strong clear glass.

Prices subject to Market Change.

Use Our Galvanized Screening You'll Be Money Ahead If You Do Duro Galvanized Wire Screen

Guaranteed For Three Years

Note The Special Close Weave No. 14 Mesh

Screen the house with our "Duro" Electro-Galvanized wire screen and protect your family from the disease germs carried by flies. This is a Rust-resisting special wire cloth guaranteed by us for three years. Extra closely woven. 14 wires to the inch. (All ordinary screen has only 12). Attractive dull gray color. Remember, we replace free of charge any of our "Duro" galvanized wire screen that may prove defective within three years of purchase date, except in regions exposed to salt sea atmosphere. Store your screens in a dry place in winter, and they will give you many years of service. A coat of screen paint after a season or two will give further protection. Prices subject to Market Changes.

Width Inches	Ship. Wt. Per 50 Ft. Roll	184C5494 Per 50 Ft. Roll	Ship. Wt. Per 100 Ft. Roll	184C5495 Per 100 Ft. Roll	184C5496 Price Linear Ft.
24	12 1/2 lbs.	\$3.60	23 1/2 lbs.	\$7.15	8 c
26	12 1/2 lbs.	3.95	25 lbs.	7.80	8 1/2 c
28	13 1/2 lbs.	4.25	27 1/2 lbs.	8.40	9 c
30	14 1/2 lbs.	4.55	29 1/2 lbs.	9.00	9 1/2 c
32	16 lbs.	4.85	31 1/2 lbs.	10.25	10 c
36	18 1/2 lbs.	5.45	33 1/2 lbs.	10.80	11 c
42	20 1/2 lbs.	6.35	42 1/2 lbs.	12.60	14 c
48	24 lbs.	7.25	47 lbs.	14.40	15 c

Standard Black Painted Wire Screen

Thoroughly coated with high grade black paint, which will not crack or peel off. Standard weave, 12 wires to the inch. Will stretch evenly. Sold in rolls 50 or 100 feet long, or in any shorter length, by the foot. Prices subject to Market Changes.

Width In.	Ship. Wt. Per 100 Ft. Roll, Lbs.	184C5490 Per 50 Ft. Roll	184C5491 Per 100 Ft. Roll	184C5492 Linear Foot
24	19 1/2	\$2.50	\$4.90	5 1/2 c
26	21 1/2	2.70	5.30	6 c
28	22 1/2	2.90	5.70	6 1/2 c
30	24 1/2	3.10	6.15	7 c
32	25 1/2	3.30	6.55	7 1/2 c
34	26 1/2	3.50	6.95	8 c
36	28	3.70	7.35	8 1/2 c

Storm Door Check

384C3740—For screen and storm doors, light inside doors, toilet doors, etc. Closes the door quickly and without slamming. For right or left hand doors. Easily regulated. Antique Bronze Finish. Ship. wt., 5 lbs.

Each.....\$2.25

Hangers and Fasteners

384C3780—For storm windows and full length screen frames. Sash can be swung out from bottom, and held in position with side fasteners. Set is 1 pair top hangers and 2 side fasteners. With screws. Japanned steel. Ship. wt., set, 1 lb.

Set.....\$0.29

Dozen sets.....3.30

Use These Time Saving Tools for Your Garden and Lawn

Telephone Pruner Head



84C6002—Malleable steel with steel blade. With or without pole or rope. Ship. wt. 2 lbs. Each. **\$1.24**

84C6003—Extra blades. Shipping weight, 3 ounces. Each. **15c**

84C6004—Extra springs. Ship. wt., 2 oz. Each. **15c**

Long Tree Pruners



84C6000—Steel blade and head. Wood pole and lever. Pruning easily done while standing on the ground. Ship. wt., 2 1/2 lbs. Lgth., 6 ft. Ea. **\$1.32**

Each. **\$1.48**

Length, 10 ft. **\$1.55**

Length, 12 ft. **\$1.65**

84C6003—Extra Knives for above pruners. Ship. wt., 3 oz. Each. **\$0.15**



Strong Garden Barrow

84C5602—Very popular, well made barrow for all around use. Only first class material used. Legs made of strong angle steel. Sides are removable. Dash strongly braced. Handles are of proper distance apart to evenly balance the load.

Inside measurements of box, length, 28 in.; width at handles, 20 1/2 in.; width at wheels, 16 1/2 in.; depth 11 1/2 in. Well seasoned wood frame. Large 20x1 1/2 in. steel wheel with wide tire, and solid steel axle. All neatly painted, striped and varnished. Shipped flat, easily set up. Ship. wt., 49 lbs. Price, each **\$5.60**

\$1.40



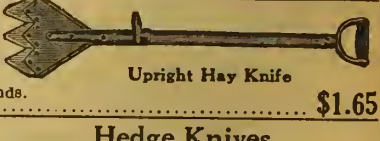
184C6082—Forged steel, polished edges, well made. Ship. wt., 5 lbs. Price, each **\$1.40**

\$2.30



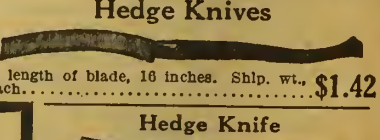
184C6080—Cutting edge is made in sections, riveted to strong metal back. Has toothed edge, which is always sharp. Is one of the easiest cutting knives made. Ship. wt., 6 lbs. Price, each **\$2.30**

\$1.65



184C6084—Blade made from the best tool steel. Has a draw cut, works easily and rapidly. Shipping weight, 5 pounds. Price, each **\$1.65**

\$1.42



184C6074—Forged steel blade with hickory handle, riveted through ferrule and shank; length of blade, 16 inches. Ship. wt., 4 1/2 lbs. Price, each **\$1.42**



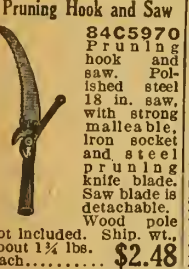
84C5950—Steel blade, iron handle and flat brass spring. Also used as sheep toe clippers. Length, 9 in. Ship. wt., 14 oz. Each. **54c**



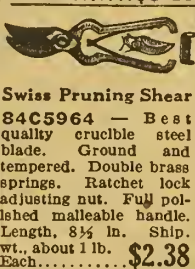
84C5958—Very popular with improved ratchet lock nut to take up wear. Polished steel blade iron handle. Lgth., 9 in. Ship. wt., 18 oz. Each. **\$1.15**



84C5996—Has a shear cut. Forged steel blades with iron ferrule. Will not come loose. Total length, 26 inches. Ship. wt., 3 1/2 lbs. Each. **\$1.58**



84C5970—Pruning hook and saw. Polished steel 18 in. saw, with strong malleable iron socket and steel pruning knife blade. Saw blade is detachable. Wood pole not included. Ship. wt., about 1 1/2 lbs. Each. **\$2.48**



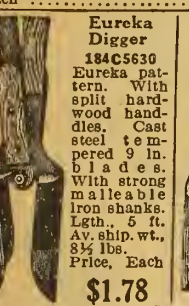
84C5964—Best quality crucible steel blade. Ground and tempered. Double brass springs. Ratchet lock adjusting nut. Fully polished malleable handle. Length, 8 1/2 in. Ship. wt., about 1 lb. Each. **\$2.38**



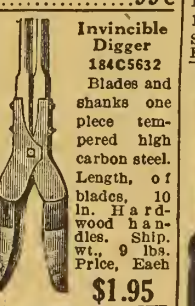
84C5994—Steel blades. Notched for cutting larger branches. Hardwood handles. Length, about 10 1/2 in. Ship. wt., 4 to 6 lbs. Blade, inches. **\$1.75** **\$2.15**



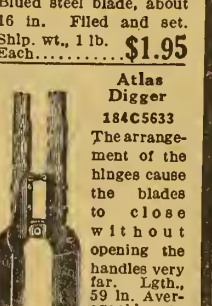
84C5990—Popular Buckeye pattern. Steel blades with 22 in. hardwood handle. Ship. wt., 3 pounds. Each. **\$1.48**



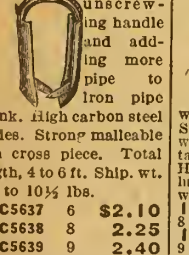
84C5975—Double Edge Pruning Saw. Extra refined spring steel, polished blade; length, 18 in.; beech handle. Handy for many purposes. Ship. wt., 3 lbs. Each. **99c**



84C5632—Blades and shanks one piece tempered high carbon steel. Length, of blades, 10 in. Hardwood handles. Ship. wt., 9 lbs. Price, Each **\$1.95**



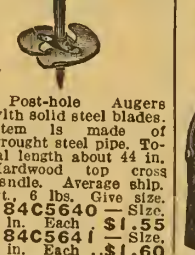
84C5633—The arrangement of the hinges cause the blades to close without opening the handles very far. Lgth., 59 in. Average ship. wt., 10 lbs. Price Each **\$1.98**



84C5637—6 **\$2.10**

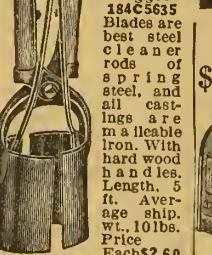
84C5638—8 **2.25**

84C5639—9 **2.40**

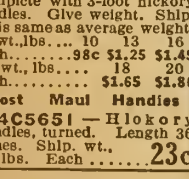


84C5640—Size 8 in. Each **\$1.55**

84C5641—Size 9 in. Each **\$1.60**



84C5635—Blades are best steel cleaner rods of spring steel, and all castings are in malleable iron. With hard wood handles. Length, 5 ft. Average ship. wt., 10 lbs. Price Each **\$2.60**



84C5650—Cast iron mauls, with taper eye. Handle cannot slip off. Complete with 3-foot hickory handles. Give weight. Ship. wt. is same as average weight. Av. wt., lbs. ... 10 **\$1.16**

Each. **98c** **\$1.45**

Av. wt., lbs. ... 18 **20**

Each. **\$1.65** **\$1.80**

Post Maul Handles

84C5651—Hickory Handles, turned. Length 36 inches. Ship. wt., 1 1/2 lbs. Each. **23c**



84C5654—Forged steel with tempered ends. For setting fence posts, cutting roots, prying out rocks. One end has sharpened blade. Lgth., about 5 1/2 ft.; width of blade, 3 in. Ship. wt., 18 lbs. Each. **\$1.98**



84C5657—Size, 8x8 in. average ship. wt., 17 lbs. **\$1.58**

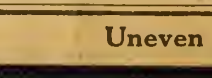
84C5658—Size 10x10 in. average ship. wt., 22 lbs. **\$1.80**



84C6048—Heavy steel plate with two adjustable steel hooks plated. Extra wide heavy leather wrist band, three straps and buckles. A very strong, heavy husker for hard use. Shipping weight, each 6 oz. Each. **53c**



84C6042—The slack is adjusted by means of clamp and nut, has sliding center sleeve. Shipping wt., each, 2 oz. Price, each **38c**



84C4726—Heavy sheet steel, dull black rust-resisting finish. Height, 11 1/2 in. Width, 6 in. Depth, 2 in. Covered letter slot. Self-locking door. Two flat keys. Spring clip for holding papers. Glass panel with card holder. Ship. wt., 2 lbs. Each. **98c**

Garden and Contractors' Wheelbarrows



84C5604—Selected seasoned hardwood, securely bolted and braced. Tight, well made tray. Full size. Depth at handles, 10 in.; width, 34 in.; length on top, 26 in. Steel wheel, diam., 16 in.; width, 1 1/2 inches. Shipped flat. Easily set up. Ship. wt., 37 lbs. Each. **\$3.45**



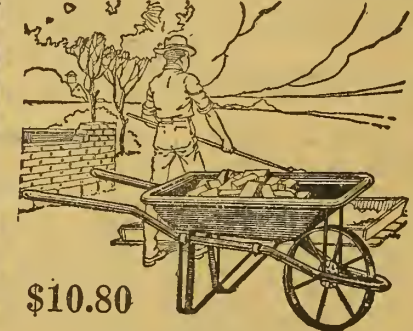
84C5605—Hardwood frame. Tray is made up of narrow, bent staves, which will not split like wide boards. Two steel bolts pass clear through each stave. Staves can be kept drawn tightly together so tray will keep its shape. Length of tray 33 in., width 27 in. Great-est depth 7 in. Steel wheel, shipped flat. Easily set up. Ship. wt., 40 lbs. Each. **\$3.60**



84C5600—A popular low-priced barrow. Hardwood frame steel-braced legs. Width of box at wheel, 16 1/2 in.; width at handles, 20 1/2 in.; depth 11 1/2 in., length inside, 28 in. Steel wheel, diameter, 20 in.; width, 1 1/2 in. Sides are removable, nicely painted. Shipped flat easily set up. Ship. wt., 46 pounds. Each. **\$4.75**



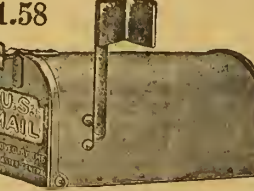
84C5606—A popular low-priced barrow. Hardwood frame steel-braced legs. Width of box at wheel, 16 1/2 in.; width at handles, 20 1/2 in.; depth 11 1/2 in., length inside, 28 in. Steel wheel, diameter, 20 in.; width, 1 1/2 in. Sides are removable, nicely painted. Shipped flat easily set up. Ship. wt., 46 pounds. Each. **\$4.75**



Heavy one-piece steel tray, with edges turned over a round bar. Greatest depth at the front end, throwing heaviest load on the wheel. Dumps forward. Handles of heavy steel tube, in one piece. Braces securely bolted. Will stand hardest usage. Steel wheel, 16x1 1/2 in. Made in three sizes. Well painted. Shipped flat, easily set up.

Art. No.	Cap. cu. ft.	Lgth. Tray	Width Top	Depth Front	Ship. wt.	Each
184C5607	3	32 in.	28 in.	7 in.	62 lbs.	10.80
184C5608	4	37 in.	29 in.	9 in.	65 lbs.	13.75
184C5609	6	43 in.	33 in.	12 in.	85 lbs.	15.45

R. F. D. Mail Box



84C4741—Made of heavy galvanized sheet steel. Size 18 1/2 in. long, 6 1/2 in. wide and 7 1/2 in. high. The only style mail box now allowed to be erected for R. F. D. Service. Handy coinholder and signal flag. Ship. wt., 10 lbs. Price **\$1.58**

Letter Door Plate



84C3290—Bronze plated on iron. Size, about 7x2 in. With screws; Ship. wt., 1 lb. Each. **75c**

84C6028—Flat, natural stone, octagon shape. Each. **10c**

84C6029—Oval Emery. Length, 10 inches. Ship. wt., 6 oz. Each. **12c**

Large Parcel Post Size



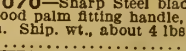
84C4743—Similar style, but larger and extra heavy construction. Especially desirable for packages, etc. Size, 23 1/2 in. long, 11 in. wide, 14 in. high. Ship. wt., 25 lbs. Each. **\$3.95**

Standard Corn Husker

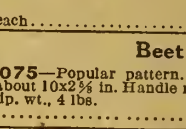


84C6040—Has concave hooks. Made entirely of steel, nickel-plated. Ship. wt., each, 1 1/2 oz. Right hand. Each. **12c**

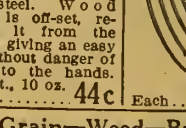
Louisiana Cane Knife



84C6070—Sharp Steel blade 14 1/2 in. long, 4 in. wide at point. Hardwood palm fitting handle, riveted through blade. Total length, 24 1/2 in. Ship. wt., about 4 lbs. Each. **95c**



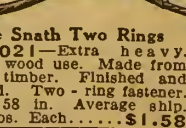
84C6075—With heavy forged steel blade, polished edge. Full size hickory handle. Length, about 36 in. Ship. wt., 4 lbs. Price, each **\$1.98**



84C6075—Popular pattern. Steel blade, about 10x2 1/2 in. Handle riveted on. Ship. wt., 4 lbs. Each. **48c**

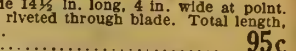


84C6024—Strictly first grade. With four fingers, wire braces, and ring fasteners. Complete with best quality 46-in. steel scythe. Average ship. wt., 12 lbs. Each. **\$4.60**



84C5985—High-grade steel. Wood handle is off-set, removing it from the ground, giving an easy grip without danger of injury to the hands. Ship. wt., 10 oz. Each. **44c**

Grain—Weed—Bush—Grass Scythes



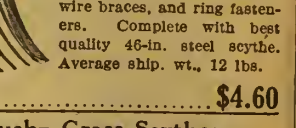
184C6010—Lakeside Scythe. Solid steel, black finish, with ground edges. Ship. wt., 3 lbs. Each. **\$1.75**

184C6016—Lakeside Weed Scythes. Solid steel. Black finish, ground edges. Ground Sharp. Ship. wt., 3 lbs. Each. **\$1.85**

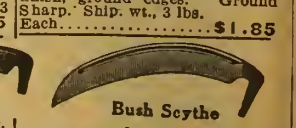


184C6012—Lakeside Scythe. Solid steel. Double ribbed. Very stiff, light weight scythe and a favorite. Natural black finish with ground edges. Ship. wt., 3 lbs. Each. **\$1.98**

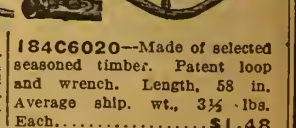
184C6018—Lakeside Bush Scythes. Solid steel. Black finish, with ground edges. Ground sharp. Ship. wt., 3 lbs. Each. **\$1.85**



84C6020—Made of selected seasoned timber. Patent loop and wrench. Length, 58 in. Average ship. wt., 3 1/2 lbs. Each. **\$1.48**



84C6021—Extra heavy. Bush or wood use. Made from selected timber. Finished and varnished. Two-ring fastener. Length, 58 in. Average ship. wt., 6 1/2 lbs. Each. **\$1.58**



84C6047—Heavy steel plate adjustable corrugated hook. Heavy leather with 3 straps and buckles. Ship. wt., each, 47c

84C6043—Has heavy steel hook and shield on tough muleskin leather. Wide wristband. Ship. wt., each, 4 oz. Price, each. **48c**

Work is Made Easier with Lakeside Tools

Drain Spade



Socket strap. Roundpoint. D handle. Concave blade. Hard steel blade. Black finish. Blades taper from 5 1/2 inches at step to 4 1/2 inches wide at point. Ship. wt., 4 1/2 to 5 1/2 lbs. Give size.
 184C5704—Length, 18 in. Each..... \$2.05
 184C5705—Length, 20 in. Each..... 2.15

Ditching and Tiling Spade



Solid forged steel Skeleton Spade. Especially adapted for mucky, sticky soil. Polished hard steel.
 184C5710—Size 6x15 in. Ship. wt., 5 lbs. Each..... \$2.85
 184C5711—Size, 6x20 in. Ship. wt., 5 1/2 lbs. Each..... \$2.90

Post Hole Spade



Socket strap. Square point. D handle. Concave blade. Hard steel blade. Black finish. Width blade 5 1/2 to 6 in. Ship. wt., 6 lbs. Give size.
 184C5706—Length, 18 in. Each..... \$2.10
 184C5707—Length, 20 in. Each..... 2.20

Adjustable Drain Cleaners



Adjustable handle locks firmly at any angle.
 184C5760—Blade, 4x15 inches. Ship. wt., 6 lbs. Each..... \$1.45
 184C5761—Blade, 5x15 in. Ship. wt., 6 lbs. Each..... 1.50
 184C5762—Blade, 6x15 in. Ship. wt., 6 1/2 lbs. Each..... 1.55

Long Handle Spade



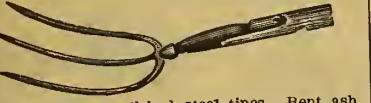
Socket Strap, Sq. Point
 184C5702—Socket strap. Square point. Blade, 7 1/2 x 12 in. Hard steel blade. Black finish. Ship. wt., 5 lbs. Each..... \$1.80

Diamond Pointed Spade



184C5703—Socket strap. Diamond point. D handle. Blade, 7 1/2 x 12 in. Hard steel blade. Black finish. Ship. wt., 5 lbs. Each..... \$2.05

Lakeside Extra Quality Hay Forks

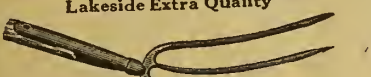


Three 12-inch polished steel tines. Bent ash handles, smoothly finished. Long strapped steel ferrule. Av. ship. wt., 3 lbs.
 184C5800—4 ft. handle. Each..... \$1.18
 184C5801—4 1/2 ft. handle. Each..... 1.20
 184C5802—5 ft. handle. Each..... 1.30
 184C5803—5 1/2 ft. handle. Each..... 1.40

Riverside Quality Standard Hay Forks

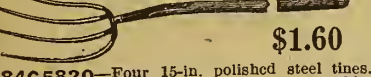
184C5805—Three tines. Length 11 1/2 inches. Handle, 5 feet. Each..... \$1.15

Four Tine Hay Forks



Lakeside Extra Quality
 Four polished steel tines; length 12 in. Bent handles. Strapped ferrules.
 Average ship. wt., 3 lbs.
 184C5815—4 1/2 ft. Handle. Each..... \$1.30
 184C5816—5 ft. Handle. Each..... 1.40
 184C5812—Standard quality Hay Fork. Length, 11 1/2 in., 5 ft. strapped ferrule. Ship. wt., 3 lbs. Each..... 1.20

Extra Quality Lakeside Header Forks



184C5820—Four 15-in. polished steel tines. Bent handles. Strapped ferrules. Average ship. wt., 4 lbs. 4 1/2 ft. Handle. Each..... \$1.60
 184C5821—5 ft. Handle. Each..... 1.70

Lakeside Extra Quality Barley Forks



184C5826—Four 18-in. tines. Bent handles. Strapped ferrules. With steel wire ball to prevent load from slipping off. Average ship. wt., 4 1/2 lbs. 5 ft. Handle. Each..... \$1.60
 184C5827—5 1/2 ft. Handle. Each..... 1.70

Lakeside Extra Quality Manure Forks



With 12-in. tines 4 1/2 ft. bent handle. Strapped ferrules. Av. Ship. wt., 4 lbs.
 184C5834—4 tine. Price Each..... \$1.35
 184C5835—5 tine. Price Each..... 1.60
 184C5836—6 tine. Price Each..... 1.80

Two Very Useful Additions to Your Supply of Tools



Hollow Back, D Handle. Full polished. A fine grain and coal scoop. Lgh. blade, 16 1/2 to 18 1/2 in. Ship. wt., 6 1/2 to 8 lbs.
 \$2.20

*Article No.	Size No.	Width of Blade, in.	Each
184C5690	6	13	\$2.20
184C5691	8	13 1/2	2.30
184C5692	10	14 1/2	2.40

Handy Vegetable Fork



Hard steel round tines with flattened tips. D handle. Strapped ferrule. Ship. wt., 6 1/2 to 8 1/2 lbs.
 184C5743—Tines, 8; width, 12 1/2 inches. Each..... \$2.15
 184C5744—Tines, 10; width, 15 in. Each..... 2.40
 184C5745—Tines, 12; width, 17 1/2 in. Each..... 2.50

Wire Vegetable Scoop



184C5750—A strong, well made scoop. For handling vegetables, fish, coke, coal, etc. Heavy steel wire. Size, about 15x17 in. Ship. wt., 6 lbs. Each..... \$2.35

Steel Grain Scoop

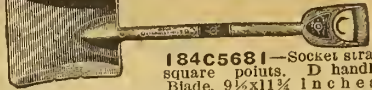
Sheet steel extra strong, light and durable. Will outwear several of the ordinary iron scoops.
 184C5754—Half bushel scoop. \$1.90
 Ship. wt., 8 1/2 lbs. Each.....
 184C5755—One bushel scoop. Ship. wt., 9 1/2 lbs. Each..... \$2.25

Galvanized Snow Shovel



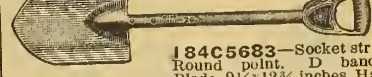
Corrugated galvanized steel blade with strong angle braces riveted on back. Hardwood handle with steel D. A strong light weight shovel, easy to handle. Length over all 5 ft. Ship. wt., 6 lbs.
 184C5734—Blade 17x15 1/2. Each..... \$1.55
 184C5735—Blade 21x16. Each..... 1.70

D Handle Shovels



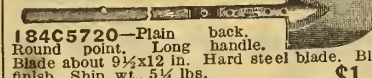
184C5681—Socket strap, square points. D handle. Blade, 9 1/2 x 11 1/2 inches. Hard steel blade. Black finish. Ship. wt., 5 lbs. Each..... \$1.88
 184C5680—Hollow back. Black finish. Ship. wt., 5 lbs. Each..... \$1.48

Round Point Shovel



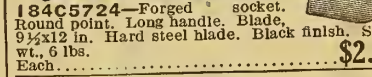
184C5683—Socket strap. Round point. D handle. Blade, 9 1/2 x 12 1/2 inches. Hard steel blade. Black finish. Ship. wt., 5 lbs. Each..... \$1.90
 184C5684—Hollow back. Black finish. Ship. wt., 5 lbs. Each..... \$1.58

Long Handle Shovel



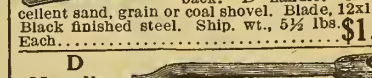
184C5720—Plain back. Round point. Long handle. Blade about 9 1/2 x 12 in. Hard steel blade. Black finish. Ship. wt., 5 1/2 lbs. Each..... \$1.85
 184C5721—Hollow back. Black finish. Ship. wt., 5 1/2 lbs. Each..... \$1.60

Solid Socket Shovel



184C5724—Forged socket. Round point. Long handle. Blade, 9 1/2 x 12 in. Hard steel blade. Black finish. Ship. wt., 6 lbs. Each..... \$2.15

Coal Shovel

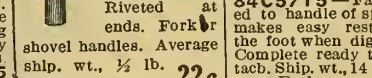


184C5688—Hollow back. D handle. An excellent sand, grain or coal shovel. Blade, 12x14 in. Black finished steel. Ship. wt., 5 1/2 lbs. \$1.80

D Handles

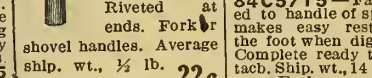
Shipping weight, each, 2 lbs.
 184C5780—Fits any D handle shovel. 62c
 184C5781—Fits any D handle spade. Ship. wt., 2 lbs. Each..... 60c
 184C5782—Fits any size scoop shovel. Ship. wt., 2 lbs. Each..... 64c

Malleable D Head



184C5786—Center pin extends through. Riveted at ends. Fits shovel handles. Average ship. wt., 1/2 lb. 22c

Spade Step



184C5715—Fastened to handle of spade, makes easy rest for the foot when digging. Complete ready to attach. Ship. wt., 14 oz. Each..... 16c

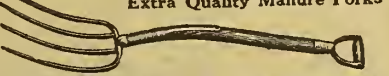


184C5730—A good general purpose shovel. Blade, 11 1/2 x 14 in. Black Finished Steel. Ship. wt., 5 lbs. Each..... \$1.10



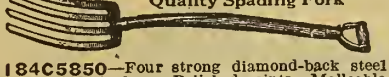
184C5732—Hollow back. Square point. Wood D handle. Blade, 9x14 in. Black finished steel. Ship. wt., 4 1/2 lbs. Each..... \$1.44

Lakeside Extra Quality Manure Forks



184C5844—With 12 in. polished steel tines. Malleable D handles. Strapped ferrules. Average ship. wt., 4 lbs. 4 Tines. Each..... \$1.40
 184C5845—5 Tines. Each..... 1.60
 184C5846—6 Tines. Each..... 1.80

Riverside Standard Quality Spading Fork

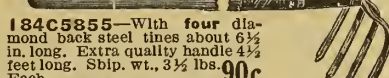


184C5850—Four strong diamond-back steel tines. 11 1/2 inches. Polished points. Malleable D handle. Strapped ferrule. Average ship. wt., 4 pounds. Each..... \$1.20

Lakeside Extra Quality Spading Fork

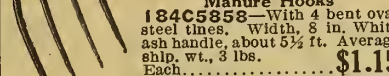
184C5852—With four heavy diamond-back steel tines. 11 1/2 inches. Bent handle with steel D top. Strapped ferrule. A strong fork that will stand hard use. Av. ship. wt., 5 lbs. Each \$1.48

Lakeside Potato Hook



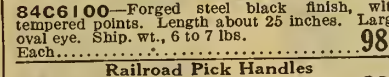
184C5855—With four diamond back steel tines about 6 1/2 in. long. Extra quality handle 4 1/2 feet long. Ship. wt., 3 1/2 lbs. 90c
 184C5856—With five oval steel tines, goose neck. Shank, Ship. wt., 3 1/2 lbs. Each \$1.12

Lakeside Manure Hooks



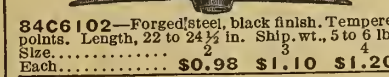
184C5858—With 4 bent oval steel tines. Width, 8 in. White ash handle, about 5 1/2 ft. Average ship. wt., 3 lbs. Each..... \$1.15

Railroad Picks



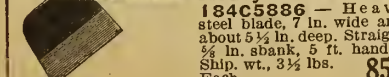
184C6100—Forged steel black finish, with tempered points. Length about 25 inches. Large oval eye. Ship. wt., 6 to 7 lbs. 98c
 184C6101—Length, 36 in. Ship. wt., 2 lbs. 38c

Drifting Picks



184C6102—Forged steel, black finish. Tempered points. Length, 22 to 24 1/2 in. Ship. wt., 5 to 6 lbs. Size..... \$0.98 \$1.10 \$1.20

Drifting Pick Handles



184C6103—Length 34 in. Ship. wt., 2 lbs. 38c

Heavy Garden Hoe



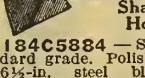
184C5886—Heavy steel blade, 7 in. wide and about 5 1/2 in. deep. Straight 1/2 in. shank, 5 ft. handle. Ship. wt., 3 1/2 lbs. Each..... 85c

LAKESIDE Garden Socket Hoe



Lakeside extra quality hoes with polished steel blade. Solid socket shank bolts handle securely. Hardwood handle. Lgh. about 4 1/2 ft. Shipping weight, 3 pounds.
 184C5880—Width, 6 1/2 90c
 184C5881—Width, 7 1/2 in. Each..... 92c

Garden Shank Hoe



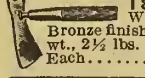
184C5884—Standard grade. Polished. 6 1/2-in. steel blade. Plain ferrule. Length, handle, about 4 1/2 ft. Ship. wt., 2 lbs. 78c

Garden Hoe



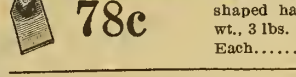
184C5888—Polished steel blade. Width, 6 1/2 in. Riveted to shank. Lgh., handle, 4 1/2 ft. Ship. wt., 2 1/2 lbs. 68c

Weeding Hoe



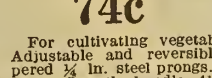
184C5894—Steel blades. Width, 3 1/2 in. Two prongs. Bronze finish. Length handle 4 1/2 ft. Ship. wt., 2 1/2 lbs. Each..... 42c

Garden Mattock



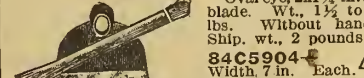
184C5890—Two steel blades, 1 1/2 and 3 in. wide. Malleable head. Special 4 1/2 ft. shaped handle. Ship. wt., 3 lbs. 78c

Adjustable Cultivator Hoe



For cultivating vegetable and flower gardens. Adjustable and reversible prongs. Spring tempered 1/2 in. steel prongs. Adjustable to straddle rows. Length, handle, 4 1/2 ft. Ship. wt., 2 1/2 and 3 lbs.
 184C5900—With 3 prongs. Each..... 74c
 184C5901—With 5 prongs. Each..... 98c

Forged Steel Planters' Hoes



Oval eye, 2x1 1/2 in. steel blade. Wt., 1 1/2 to 1 3/4 lbs. Without handles. Ship. wt., 2 pounds.
 184C5904—Each 48c
 184C5905—Width, 8 in. Each..... 54c

Handles

184C5907—Lgh., 5 ft. Ship. wt., 2 lbs. 48c
 184C5908—Lgh., 5 ft. Ship. wt., 2 lbs. 48c

Hazel Hoe



184C6110—Forged steel. Width, 6 in. about 3 1/2 in. Ship. wt., 3 1/2 lbs. 90c
 184C6111—Width, 6 1/2 in. Ship. wt., 3 1/2 lbs. 90c
 184C6112—Width, 7 in. Ship. wt., 3 1/2 lbs. 90c

Grub Hoe

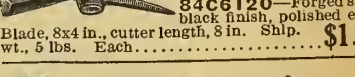


Forged steel, black finish, polished edge.
 184C6114—Width, 6 in. about 3 1/2 in. Ship. wt., 4 lbs. 90c
 184C6115—Width, about 3 1/2 in. Ship. wt., 4 1/2 lbs. 98c
 184C6116—Hickory handle, 36 in. Ship. wt., 2 lbs. Each..... 38c

Handles

184C6111—Hickory. Length 36 in. Ship. wt., 2 1/2 lbs. Each..... 38c

Pick Mattock



184C6120—Forged steel, black finish, polished edge. Blade, 8x4 in., cutter length, 8 in. Ship. wt., 5 lbs. Each..... \$1.20

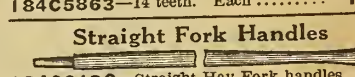
Steel Mattocks

Forged steel. Black finish. Polished sharpened edges. Without handles.
 184C6113—Long Cutter. Size of blade, about 8 1/2 x 4 1/2 inches. Ship. wt., 4 lbs. \$1.25
 184C6117—Short Cutter. Size of blade, about 8 1/2 x 4 1/2 inches. About 4 1/2 x 3 in. Cutter. \$1.20

Hickory Handles

184C6101—Length, 36 in. To fit mattocks. Ship. wt., about 2 lbs. Each..... 38c

Lakeside steel rake Forged Rakes



Forged from one piece of steel. With bow brace. Long handle. Attractive and durable. Ship. wt., 3 1/2 lbs. 98c
 184C5862—12 teeth. Each..... \$0.98
 184C5863—14 teeth. Each..... 1.10

Straight Fork Handles

184C6130—Straight Hay Fork handles. Give size.
 Length, ft..... 5 5 1/2 6
 Each..... 32c 40c 50c

Bent Fork Handle

Second growth ash. Ship. wt., each, 1 1/2 to 2 1/2 lbs.
 184C6132—Manure fork handles. Bent. Give size.
 Length, feet..... 4 4 1/2 5 3/4
 Each..... 30c 36c 48c
 184C6131—Bent hay fork handles. Give size.
 Lgh., ft..... 4 4 1/2 5 5 1/2
 Each..... 30c 32c 42c 48c

Steel Ferrules

184C6134—Ship. wt., dozen 3 lbs. \$1.95
 Doz..... 17c

Ferrule Caps

184C6135—For end of ferrules. Ship. wt., Doz. about 8 oz. 45c

WIRE ROPE

Wire Rope

184C6450—Standard Steel Wire Hoisting Rope. Six strands of nineteen wires each, laid around a hemp center. Breaking strain, about four times working load. (Prices subject to change.)
 Size, in. 3 3/4 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2
 Ship. wt. lbs. 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
 Safe load, tons 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2
 Price, foot 8 1/2 c 10 c 12 c 17 c
184C6452—Iron Wire Rope. A pliable rope for inside use.
 Size, in. 3 3/4 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2
 Price, foot 7 c 8 c 9 c
 Prices subject to change.

Wire Rope

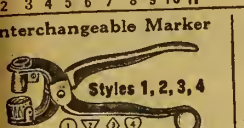


Thimble
84C6455—Accurately formed from wrought steel. Galvanized. Ship. wt., each, about 1 to 13 oz.
 For rope 3/4" 1" 1 1/4" 1 1/2" 1 3/4" 2" 2 1/4" 2 1/2" 2 3/4" 3" 3 1/4" 3 1/2" 3 3/4" 4" 4 1/4" 4 1/2" 4 3/4" 5" 5 1/4" 5 1/2" 5 3/4" 6" 6 1/4" 6 1/2" 6 3/4" 7" 7 1/4" 7 1/2" 7 3/4" 8" 8 1/4" 8 1/2" 8 3/4" 9" 9 1/4" 9 1/2" 9 3/4" 10" 10 1/4" 10 1/2" 10 3/4" 11" 11 1/4" 11 1/2" 11 3/4" 12" 12 1/4" 12 1/2" 12 3/4" 13" 13 1/4" 13 1/2" 13 3/4" 14" 14 1/4" 14 1/2" 14 3/4" 15" 15 1/4" 15 1/2" 15 3/4" 16" 16 1/4" 16 1/2" 16 3/4" 17" 17 1/4" 17 1/2" 17 3/4" 18" 18 1/4" 18 1/2" 18 3/4" 19" 19 1/4" 19 1/2" 19 3/4" 20" 20 1/4" 20 1/2" 20 3/4" 21" 21 1/4" 21 1/2" 21 3/4" 22" 22 1/4" 22 1/2" 22 3/4" 23" 23 1/4" 23 1/2" 23 3/4" 24" 24 1/4" 24 1/2" 24 3/4" 25" 25 1/4" 25 1/2" 25 3/4" 26" 26 1/4" 26 1/2" 26 3/4" 27" 27 1/4" 27 1/2" 27 3/4" 28" 28 1/4" 28 1/2" 28 3/4" 29" 29 1/4" 29 1/2" 29 3/4" 30" 30 1/4" 30 1/2" 30 3/4" 31" 31 1/4" 31 1/2" 31 3/4" 32" 32 1/4" 32 1/2" 32 3/4" 33" 33 1/4" 33 1/2" 33 3/4" 34" 34 1/4" 34 1/2" 34 3/4" 35" 35 1/4" 35 1/2" 35 3/4" 36" 36 1/4" 36 1/2" 36 3/4" 37" 37 1/4" 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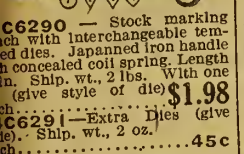
Practical Tools and Supplies for Owners of Live Stock



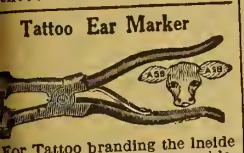
Cattle Marking Punch
84C6282—For marking ears. Dies are hollow and cut easily. Always mention number of die you want, as shown. Length 11 in. Ship. wt., 2 lbs. Illustrations are about one quarter actual size. Each (give No.)..... **\$2.25**



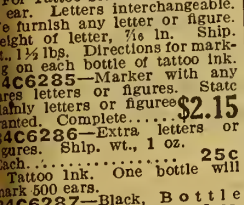
Interchangeable Marker
84C6290—Stock marking dies with interchangeable tempered dies. Japanned iron handle concealed coil spring. Length 1 1/2 in. Ship. wt., 2 lbs. With one die (give style of die)..... **\$1.98**
84C6291—Extra dies (give style)..... **25c**



Tattoo Ear Marker
84C6287—Black, Bottle contains 2 oz. Ship. wt., 6 oz. Each..... **\$0.45**
84C6288—Red, bottle..... **\$0.45**



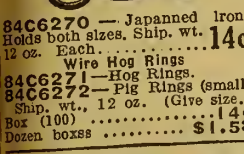
Cow Tail Holder
84C6343—Keeps tail off floor when lying down. A good protection when milking. Suspended with a cord from top of stall (Cord not included). Ship. wt., about 6 oz. Each..... **28c**



Cow Pokes
84C6350—Saves fences and stock. Made of steel. Painted. Adjustable in size. Hinged at the center. Ship. wt., 3 1/2 lbs. Each..... **55c**



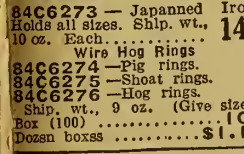
Heavy Copper Bull Ring
84C6334—Polished solid copper. Size, 3x3/4 in. Ship. wt., 4 oz. Each..... **44c**



Bull Rings
84C6330—Self Piercing Solid Copper. Size, 2 1/2 x 1/4 in. Superior to old styles rings. Ship. wt., 4 oz. Each..... **29c**
84C6332—Polished copper. Size, 2 1/2 x 3/4 in. Ship. wt., 3 oz. Each..... **25c**



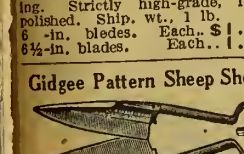
Hill's Hog Ringer
84C6273—Japanned Iron. Holds all sizes. Ship. wt., 10 oz. Each..... **14c**
84C6274—Wire Hog Rings.
84C6271—Hog Rings.
84C6272—Pig Rings (small) Ship. wt., 12 oz. (Give size). Box (100)..... **14c**
84C6276—Hog rings. Ship. wt., 9 oz. (Give size). Dozen boxes..... **\$1.12**



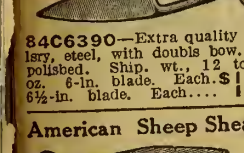
Separable Sheep Shears
84C6395—Best Cutlery Steel. Easily taken apart for sharpening. Strictly high-grade, full-polished. Ship. wt., 1 lb. 6 in. blades. Each..... **\$1.45**
84C6275—Shot rings. Ship. wt., 9 oz. (Give size). Dozen boxes..... **\$1.12**



Gidgee Pattern Sheep Shear
84C6390—Extra quality cutlery, steel, with double bow, full polished. Ship. wt., 12 to 14 oz. 6 in. blade. Each..... **\$1.20**



American Sheep Shears
84C6392—Straight Shears. Each..... **88c**
84C6393—Bent Shears. Each..... **88c**



Steel Flat Link Coil Chain
84C8532—Wrought Steel, bright finish. Ship. wt., 12 to 19 lbs. per 100 ft. (Give size).

Width of Link, in.	Per ft.
Size 0.....	5/8
Size 1.....	5/8
Size 2.....	3/4
Size 3.....	3/4



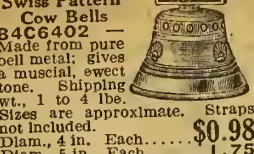
Iron Jack Chain
84C8535—Open formed links (not welded). Ship. wt. per doz. yds. 7, 8, 4 lbs. (Give size).

Width, in.	Per Dozen Yards.
1/2.....	75c
3/4.....	62c



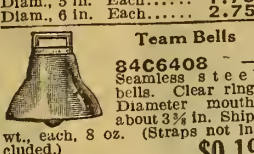
Brass Safely Formed Chain
84C8538—With solid links, strong and durable. For furnace chains, hanging baskets, heavy pictures, etc. Ship. wt., doz. yds., 9 oz. to 17 oz.

Size	Width	Pkg. 12 Yds.	Per Yd.
2-0	3/16 in.	\$1.45	14c
1	1/8 in.	1.80	16c
0	1/16 in.	2.25	20c



Swiss Pattern Cow Bells
84C6402—Made from pure bell metal; gives a musical, sweet tone. Shipping wt., 1 to 4 lbs. Sizes are approximate. Straps not included.

Diam.	Each	Dozen
4 in.	1.75	20.25
5 in.	2.75	33.00



Team Bells
84C6408—Seamless steel bells. Clear ring. Diameter mouth, about 3 1/2 in. Ship. wt., each, 8 oz. (Straps not included). Each..... **\$0.19**
84C6412—Cast bell metal. Polished. For harness bells, sheep bells, etc. (Give size).

Size	Mouth	Hgt.	Dozen	Each
0	5 1/2 x 3	7 1/2	\$10.80	92c
1	4 x 3	5 1/2	7.20	62c
2	3 1/2 x 2 1/2	5	5.40	47c
3	2 1/2 x 1 1/2	2 1/2	3.15	29c

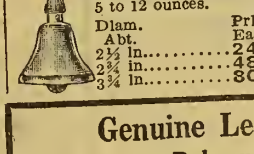


Sheep Bells
84C6405—Length, 1 1/2 inches. Mouth about 1 1/2 x 1 1/4. Ship. wt., each, 7 ounces. Each..... **42c**
84C6406—Length, 1 1/2 inches. Mouth, about 1 1/2 x 1 1/4 in. Ship. wt., each 10 oz. Each..... **\$0.49**
84C6410—Polished bell metal. Diam., about 1 1/2 in. Complete with strap. Ship. wt., 8 oz. Each..... **\$0.19**
84C6411—Polished bell metal. Diam., about 1 1/2 in. Complete with strap. Ship. wt., 8 oz. Each..... **\$0.19**



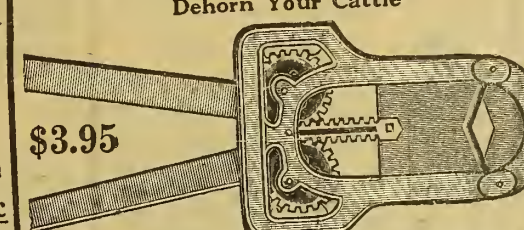
Hand Bell
84C6415—Fine bell metal. Ship. wt., 5 to 12 ounces.

Diam.	Price Each
2 1/2 in.	24c
3 in.	43c
3 1/2 in.	80c

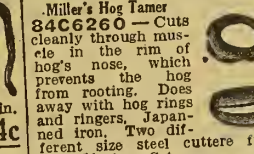


Hand Bell
84C6416—Swiss Chime. Ship. wt., 3/4 to 2 lbs.

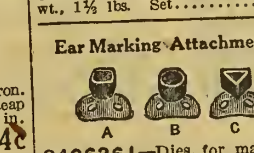
Diam.	Price Each
3 1/2 in.	\$1.95
3 in.	1.50
4 in.	2.63



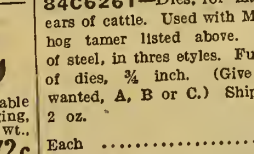
Genuine Leavitt Dehorners
Dehorn Your Cattle
MAKES COWS MORE PRODUCTIVE
 Heavy malleable iron head and handles. Keen edge, tempered steel knives. Cuts the horns fast and clean. Knives made so they cannot interlock or cut into each other. Length, about 38 inches.
84C6240—Large size. Opens 3 1/2 in. Ship. wt., 15 lbs. Each..... **\$4.95**
84C6241—Extra blades. Ship. wt., 2 lbs. Set of 2..... **.95**
84C6242—Medium size. Opens 3 1/2 in., which is large enough for ordinary cattle. Ship. wt., 13 1/2 lbs. Each..... **\$3.95**
84C6243—Extra blades. Ship. wt., 2 lbs. Set of 2..... **.85**



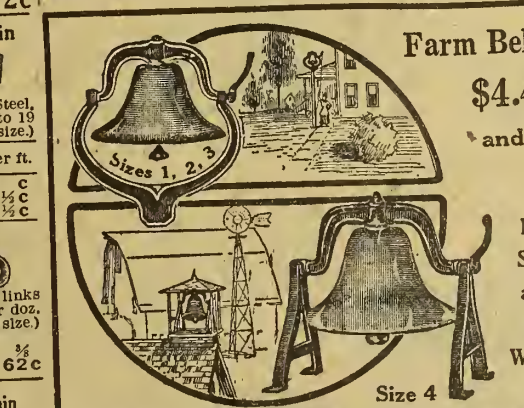
Miller's Hog Tamer
84C6260—Cuts cleanly through muscle in the rim of hog's nose, which prevents the hog from rooting. Does away with hog rings and ringers. Japanned iron. Two different size steel cutters furnished with each instrument. Ship. wt., 1 1/2 lbs. Set..... **\$1.10**



Ear Marking Attachments
84C6261—Dies, for marking ears of cattle. Used with Miller's hog tamer listed above. Made of steel, in three styles. Full size of dies, 3/4 inch. (Give style wanted, A, B or C.) Ship. wt., 2 oz. Each..... **38c**



Aluminum Ear Buttons
84C6295—Diameter, about 1/4 in. Clinch securely. We can place name and address (not to exceed 19 letters), on top, and number on lower side of button. State plainly name or address to be stamped. Notice—Stamped to order in 5 to 7 days.
 25 postpaid for..... **\$1.20**
 50 postpaid for..... **1.85**
 100 postpaid for..... **3.35**
84C6296—Punch-pliers for attaching buttons. Ship. wt., 11 oz. Each, Postpaid..... **95c**



Farm Bells
\$4.48 and up
 Full Size and Full Weight
 Made of a special alloy metal, with a loud clear tone that will not become harsh and can be heard for a long distance. Nicely finished in gold bronze. The frame is of heavy cast iron, neatly painted. Prices subject to market changes.
NOTE—Our Bells are Full Size and Full Weight.

Article Number	Mr. Size	Diam. In.	Av. Wt. Bell Only	Ship. Wt. comp. Lbs.	Each Comp.
84C4661	1	1 1/2	24	38	\$4.48
84C4662	2	1 1/2	34	50	5.60
84C4663	3	1 1/2	47	70	8.38
84C4664	4	1 1/2	78	105	10.85



Dehorning Saw
\$1.25
84C6254—Steel frame, iron handle. Tempered 10-in. steel blade. Nickel and japan finish. Each..... **\$1.25**
84C6255—Extra 10-inch steel blades. Ship. wt., per Dozen, about 8 oz. Each..... **\$0.14**
 Dozen..... **1.65**



Improved Keystone Dehorner
 With Leader and Rops.
84C6249—Made extra heavy with a taper rack, which gives knife its greatest power at the beginning of operation where it is most needed. Strong and powerful. Total length, 46 in. Blades, open, 3 1/2 in. Ship. wt., complete, 20 lbs. Complete, with cattle leader and rope, extra set of blades and screws..... **\$16.75**



Keystone Dehorner
 With Leader and Rops.
84C6247—Has two V-shaped steel blades, which come together, giving four cutting blades, easily clips any horn clean and smooth. Total length, 44 in.; blades, open, 3 1/2 in. Ship. wt., complete, 21 lbs. Complete, with leader and rope, extra blades and screws..... **\$14.75**

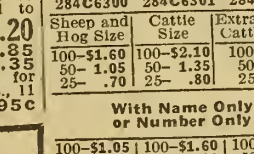


Improved Convex Dehorner
 With Leader and Rope.
84C6245—Consists of two castings and one steel cutting knife. Makes clean cut on any size or shape of horn. Has hardwood handles. Blade can be replaced if damaged. Total length, 40 in. Blades, open, 3 in. Ship. wt., 19 lbs. Complete, with leader and rope and one extra blade..... **\$11.50**

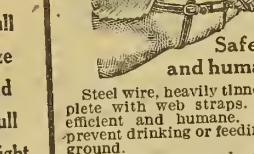


Metal Ear Labels
Prices Postpaid
 With letters or figures stamped on to order. Intended to attach to the animal's ear. Put on with our oval hole ear punch listed above. On the Sheep and Hog size we can stamp not to exceed 11 large letters; Cattle and Extra Large Cattle not to exceed 15 letters or figures. On Cattle sizes only, name and address can be put on if not exceeding 22 letters, small type. Notice—Write plainly, numbers or letters or name wanted. These labels being stamped to order, will cause a delay of 5 to 7 days. These prices include postage.
With Name and Number
84C6300 Sheep and Hog Size
84C6301 Cattle Size
84C6302 Extra Large Cattle Size

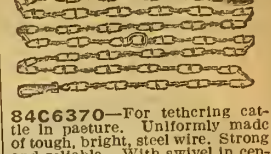
100-\$1.00	100-\$1.60	100-\$1.90
50-.80	50-1.10	50-1.35
25-.55	25-.65	25-.90



Aluminum Stock Marks
 Diameter, 1/2 in. Furnished with one two or three letters or figures, stamped on one side. Fastened with any of our hog rings. Give letters or figures wanted. Ship. wt., per 100, 1/2 lb.
84C6292—Per 100..... **95c**
84C6293—Per 50. Postpaid..... **55c**
 Mailed from factory near Chicago, Postage Paid.

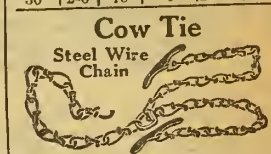


Wire Basket Weaners for Cows and Calves
 Safe and humane
 Steel wire, heavily tinned; complete with web straps. Simple efficient and humane. Do not prevent drinking or feeding of the ground.
 Impossible to suck or throw basket off nose. Practical, popular and low price. Give perfect satisfaction.
84C6320—Fits calves. Ship. wt., each, 9 oz. Each..... **\$0.43**
 Dozen..... **4.95**
84C6321—Fits 2-year olds. Ship. wt., each, 12 oz. Each..... **.50**
 Dozen..... **5.85**
84C6322—Fits cows. Ship. wt., each, 1 lb. Each..... **.58**
 Dozen..... **6.75** (Not Mailable)



Strong Tie Out Chains
84C6370—For tethering cattle in pasture. Uniformly made of tough, bright, steel wire. Strong and reliable. With swivel in center and ring and snap on the ends. (Give size).

Lgth. Ft.	Size	Wire gauge	Ship. wt. lbs.	Doz.	Ea.
20	2-0	10	4	57.20	62c
30	2-0	10	6	10.20	87c



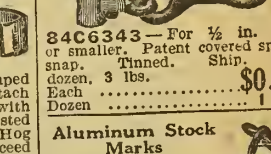
Cow Tie Steel Wire Chain
84C6360—Heavy. Two Toggles. Length, 4 feet. Hard steel perfect links. Ship. wt., each, 1 1/2 lbs. Each..... **\$0.34**
84C6361—Light. Two toggles. Length, 3 1/2 feet. Ship. wt., each 1 lb. Each..... **\$0.22**
 Dozen..... **2.35**



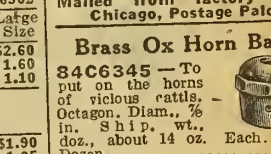
Cow Tie Welded Link Chain
84C6366—Bright welded steel links. Toggle and closed ring. Lgth., 4 ft. Ship. wt., each, 2 lbs. Each..... **\$0.36**
 Dozen..... **4.20**



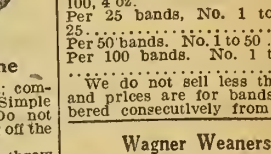
Cow Tie Welded Link Chain
84C6364—Bright welded steel links. Length, about 3 1/2 ft. Two toggles. Ship. wt., each, 1 1/2 lbs. Each..... **\$0.35**
 Dozen..... **3.90**



Bull Ring Snap
84C6342—Used with bull ring in leading vicious cattl. With three feet of chain. Any rake or hoe handle can be used. Ship. wt., 15 oz. Each (without handle)..... **88c**



Cattle Tie Iron
84C6343—For 1/2 in. ropes or smaller. Patent covered spring snap. Tinned. Ship. wt., dozen, 3 lbs. Each..... **\$0.16**
 Dozen..... **1.90**



Brass Ox Horn Ball
84C6345—On the horns of vicious cattl., 1/2 Octagon, Diam., 1/2 in. Ship. wt., doz., about 14 oz. Each..... **8c**
 Dozen..... **90c**



Poultry Leg Bands
 Genuine Aluminum
84C6310—Light in weight and will fit any size fowl. Bands numbered from one up. Ship. wt., per 100, 4 oz. Per 50 bands. No. 1 to 100..... **17c**
 Per 50 bands. No. 1 to 50..... **29c**
 Per 100 bands. No. 1 to 100..... **55c**
 We do not sell less than 25, and prices are for bands numbered consecutively from 1 up.

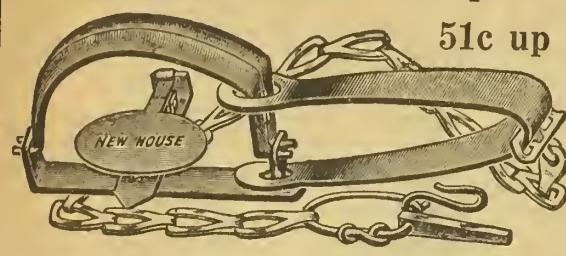
Wagner Weaners
 Heavily tinned metal. Permits the calf to graze, eat or drink, yet effectively prevents sucking of cow.
84C6326—Calf size. Ship. wt., 4 oz. Each..... **\$0.41**
 Dozen..... **4.80**
84C6327—Cow size. Ship. wt., 6 oz. Each..... **\$0.51**
 Dozen..... **5.95**



Easy money in Furs



Original Newhouse Traps



Made by Onelda Community, Limited. Springs are heat crucible steel thoroughly tested. Made of best material, strongly proportioned. The experienced trappers' choice. Branded Newhouse on the pan.

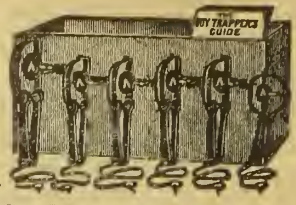
84C8000—Size 0. For gophers, rats and other vermin. Has a tight grip. Spread of jaws, 3 1/2 in. Ship. wt., per dozen, 8 1/2 pounds. **\$0.51** Each.

84C8001—Size 1. For skunks, weasels, rats, etc. Spread of jaws 4 inches. Shipping weight, dozen, 10 1/4 lbs. Each. **\$0.61**

84C8002—Size 1 1/2. For mink, woodchuck, skunk, etc. Spread of jaws, 4 1/2 in. Ship. wt., dozen, 14 1/2 lbs. Each. **\$0.91**

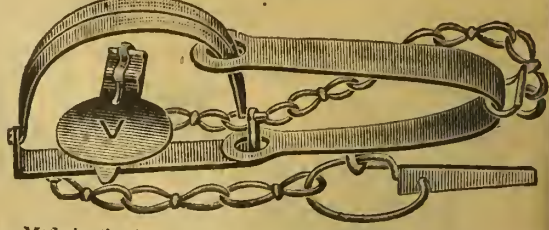
Dozen **\$9.97**

\$1.84 Boys' Trapping Outfit



84C8065—Boys, make some easy money. Wood case contains six Victor Traps, with book on baits, skinning, stretching, where to trap and where to sell furs. One No. 0; four No. 1; One No. 1 1/2 Trap. For muskrat, skunk, racoon, mink, opossum, weasel, gopher, etc. Ship. wt., 5 1/2 lbs. Price, complete. **\$1.84**

Victor Traps 19c up



Made by the Onelda Community, Limited. Lighter in weight than the Newhouse, but made in a first-class manner. Very popular with the farmer and trapper of small game. Branded with a V on the pan.

84C8050—Size 0. For gophers, rats, or other vermin. Has a tight grip. Spread of jaws, 3 1/2 inches. Ship. wt., dozen, 6 lbs. **\$0.19** Each.

84C8051—Size 1. For skunks, weasels, rats, etc. Spread of jaws 4 inches. Shipping weight, dozen, 8 lbs. **\$0.23** Each.

84C8052—Size 1 1/2. For mink, woodchuck, skunk, etc. Spread of jaws, 4 1/2 inches. Ship. wt., dozen, 12 pounds. **\$0.34** Dozen.

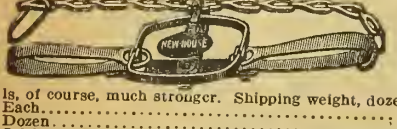


Newhouse Bear Traps

84C8008—Size 5 Especially for common black bear. Strong chain and swivel. Spread of toothed jaws, 11 1/2 in. Ship. wt., 22 lbs. **\$16.71** Each.

84C8013—Size 15. Jaws have 1/4-in. offset, which allows the spring to come up high, and hold securely. Spread of jaws, 11 1/2 in. Ship. wt., 23 lbs. With setting clamp and spring holder. **\$16.71** Each.

84C8010—Size 6. Strongest trap made. Spread of jaws, 16 inches. Ship. wt., 45 lbs. **\$37.69** Each.



Newhouse Traps

Sizes 2, 3, 4

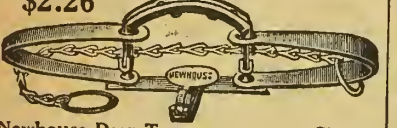
84C8003—Size 2. Called the Fox Trap. Spread of jaws, 4 1/2. Similar to No. 1 1/2, but having two springs. Shipping weight, dozen, 15 lbs. **\$1.35** Each.

84C8005—Size 3. Very powerful; will hold almost any game smaller than a bear. Spread of jaws 5 1/2 inches. Ship. wt., each, 3 1/2 lbs. **\$1.77** Dozen.

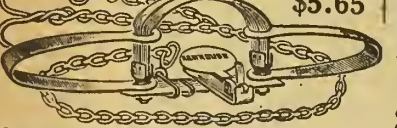
84C8006—Size 4. Especially for beaver. A favorite with trappers in the far west and Canada. Spread of jaws, 6 3/4 in. Ship. wt., each, 4 1/2 lbs. **\$1.80** Dozen.

84C8007—Size 5. Spread of jaws, 6 3/4 in. Ship. wt., each, 4 1/2 lbs. **\$2.12** Dozen.

84C8008—Size 6. Spread of jaws, 6 3/4 in. Ship. wt., each, 4 1/2 lbs. **\$2.33** Dozen.



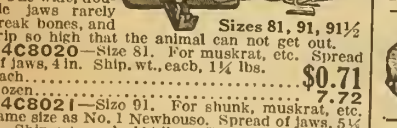
84C8012—Especially for deer. Jaws have an offset to prevent breaking the deer's leg. Teeth in jaws sufficiently close together to prevent the animal from drawing its hoofs out. Spread of jaws, 6 3/4 inches. Shipping weight, 4 1/2 lbs. Each. **\$2.26** Dozen.



84C8007—Especially for wolves. Extra heavy, 5-foot steel chain with swivel heavy snap and drag. Spread of jaws, 8 1/2 inches. Will hold 2000 lbs. Ship. wt., 9 lbs. Each. **\$5.65** Dozen.



84C8004—Used especially for catching otter on their slides. Sharp teeth pierce the animal's breast. Detachable raised pan-plate makes this a trap of general utility. Spread of jaws, 5 1/2 in. Shipping weight, each 3 pounds. **\$2.12** Dozen.



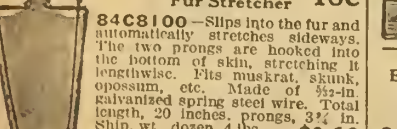
The wild, double jaws rarely break bones, and grip so high that the animal can not get out.

84C8020—Size 81. For muskrat, etc. Spread of jaws, 4 in. Ship. wt., each, 1 1/4 lbs. **\$0.71** Each.

84C8021—Size 91. For skunk, muskrat, etc. Same size as No. 1 Newhouse. Spread of jaws, 5 1/2 in. Ship. wt., each, 1 1/4 lbs. **\$0.77** Dozen.

84C8022—Size 91 1/2. For mink, woodchuck, etc. Same size as No. 1 1/2 Newhouse. Spread of jaws, 6 3/4 in. Shipping weight, each 2 lbs. **\$1.15** Each.

Dozen **\$12.57**



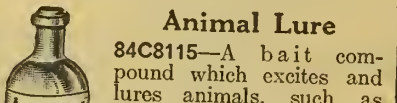
84C8100—Slips into the fur and automatically stretches sideways. The two prongs are hooked into the bottom of skin, stretching it lengthwise. Fits muskrat, skunk, opossum, etc. Made of 1/2-in. galvanized spring steel wire. Total length, 20 inches. Prongs, 3 1/4 in. Ship. wt., dozen, 4 lbs. **\$0.18** Each.

Dozen **\$1.98**



84C8110—Enables you to smoke out from their dens and catch many animals in a day during extreme cold weather. Smooth black iron. Size, 4x18 inches. With directions and smokeout powder. Shipping weight, 4 pounds. **\$2.25** Each.

84C8111—Smokeout Powder. Ship. wt., each, 18 ounces. Box. **\$0.25**



84C8115—A bait compound which excites and lures animals, such as skunk, mink, weasel, fox, wolf, wildcat, bear, marten, lynx, otter, racoon, opossum, etc. In 2-oz. bottles. Ship. wt., 4 ounces. Bottle. **35c**

Trappers Bait and Trail Scent

84C8120—All fur-bearing animals, excepting Muskrats, Beaver and Otter are lured by this scent. Can be successfully applied to traps and trails by any Amateur Trapper. Comes in handy Metal Tube—No waste. Guaranteed. Ship. wt., 8 oz. **44c**

Sure-Catch Rat Trap

84C8160—Strong Wire Rat Trap. Often filled in a single night. Made of coppered steel wire, with sheet steel ribs. Strong and substantial. Safety door. Size, 19x10 1/2x8 in. Ship. wt., 3 1/2 lbs. Each. **\$1.36**

Extension Trap Chains

You can instantly double the length of a trap chain, so that a trapped animal may be drowned with certainty or a drag given free play. For all sizes of traps. Quickly attached.

84C8105—Size 1. Length, 20 inches. Ship. wt., each, 6 oz. **\$0.11** Dozen.

84C8106—Size 4. Length, 26 1/2 in. Ship. wt., each, 10 oz. Each. **\$0.16** Dozen.

Stop Thief Wire Traps

84C8080—Size 1. For squirrels, rats, gophers and small animals. Made of hard steel wire. Light, yet strong. With chain. Ship. wt., 12 ounces. Each. **22c**

84C8081—Size 2. For mink, rabbits, rats, etc. Ship. wt., 1 lb. Each. **\$0.26** Dozen.

84C8082—Size 3. For raccoon, skunk, mink, etc. Ship. wt., each, 1 1/4 lbs. Each. **\$0.34** Dozen.

84C8083—Size 3 1/2. For skunk, raccoon, etc. Ship. wt., each, 1 1/4 lbs. Each. **\$0.47** Dozen.

Choker Mouse Trap

84C8155—Wood body, with four holes. Steel springs. Catches mice by the neck and kills instantly. Ship. wt., 8 oz. Each. **12c**

Flat Rat Trap

84C8154—Strongly made and very effective. Wood bottom, steel spring. Ship. wt., 12 oz. Each. **11c**

Flat Mouse Trap

84C8153—Well made and effective. Wood bottom and steel spring. Ship. wt., dozen, 1 lb. pkg. 2 traps 7c. Dozen. **35c**

End-of Mice Traps

84C8150—So cheap that you can throw mouse and trap away. Very sanitary. Ship. wt., package of ten, 8 oz. Package of 10 traps for only **16c**

Victor Traps

Sizes 2, 3, 4

84C8053—Size 2. For foxes. Spread of jaws, 4 1/2 in. Shipping weight, per dozen, 15 lbs. **\$0.41** Each.

84C8055—Size 3. For otter and similar game. Spread, 5 1/2 inches. Ship. wt., each, 2 1/2 lbs. Each. **\$0.71** Dozen.

84C8056—Size 4. For beaver, etc. Spread, 5 1/2 inches. Ship. wt., 3 lbs. Each. **\$0.91** Dozen.

New Victor Giant Trap

84C8058—Size 1 Giant Victor. Extra strong with jaws spread 4 1/2 inches, catches animal high up on leg. Equipped with lightning action spring and improved swivel at point where chain connects with spring. Has all latest Victor improvements. Ship. wt., dozen, 10 lbs. **\$0.29** Each.

Dozen **3.09**

Victor Traps

Sizes 91, 91 1/2

84C8060—Size 91. Spread of jaws, 4 1/2 in. Ship. wt., dozen, 10 lbs. **\$0.35** Each.

84C8061—Size 91 1/2. Spread of jaws, 5 1/2 in. Ship. wt., dozen, 12 lbs. Each. **\$0.50** Dozen.

Onelda Jump Traps

Made by Onelda Community, Ltd. Very popular with many trappers because light and easy to carry. Lie very flat—easily secreted. Jaws have wide meeting faces, not liable to break the animal's leg.

Sizes 0, 1, 1 1/2

84C8030—Size 0. For rats or gophers. Light and easy to carry. Jaws have full, wide meeting faces, not likely to break the animal's leg. Spread of jaws, 4 in. Ship. wt., each, 1 lb. **\$0.26** Dozen.

84C8031—Size 1. For muskrat, etc. Spread of jaws, 4 1/2 in. Ship. wt., 1 lb. Each. **\$0.31** Dozen.

84C8032—Size 1 1/2. For mink. Spread of jaws, 5 1/4 in. Ship. wt., 1 1/4 lbs. Each. **\$0.45** Dozen.

Kill 'em Wire Traps

84C8070—Size 1. Heavy steel wire. Readily concealed over holes or in runways. Length, 12 inches. Rings, 5 1/2 inches. Ship. wt., each, 1 1/4 lbs. **\$0.55** Dozen.

84C8072—Size 2. Length, 14 inches. Rings, 7 inches. Ship. wt., each 1 1/4 lbs. Each. **\$0.55** Dozen.

Newhouse Gopher Trap

84C8138—Carefully tempered spring makes the trap fast and powerful. Length, 5 1/2 in. Ring, 3 in. Ship. wt., each, 8 ounces. **\$0.24** Each.

Dozen **2.55**

Western Gopher Traps

84C8136—Especially for Pocket Gophers. Usually placed in the burrow. Wood box with steel springs and loop. Size, 6 1/2x3 1/2x3 inches. Ship. wt., each, 1 lb. **\$0.24** Each.

Dozen **2.55**

Jump Trap Setting Lever

84C8045—For setting all sizes of jump traps. Length 7 in. Ship. wt., 9 oz. Each. **22c**

Trap Setting Clamps

Sizes 4, 5, 6

Each. **31c** 4 **75c** 6 **\$1.23**

Be Your Own Blacksmith and Save Money

Climax Farm Repair Outfit



\$25.80

With this outfit you can do all your repair work that is necessary around your farm or ranch, and can keep your wagons and implements in shape and also shoe your horses. Outfit consists of the following tools: 1 Handy Lever Forge with 18-inch round hearth and 8-in. fan fitted with heavy pipe legs braced at the bottom and gives a strong blast; 1 Combination Anvil and Vise with jaws for holding pipe, chilled face and jaws, will open 5 inches, width of jaws, 3 in.; 1 Blacksmith's Horizontal Drill, has solid standard length 26 in., 1 1/2 in. diameter; 3 Twist Drills, 1/4, 3/8, 1/2 inch, for boring metal or wood; 1 Set Stock and Dies, cutting 1/16 to 3/4, 10, 12 and 16 threads, complete with 3 sets of dies and taper taps; 1 pair Blacksmith's Tongs; 1 Farrier's Knife; 1 pair Bolt Tongs length 20 inches, for 1/2-inch round iron; 1 Blacksmith's Hammer wt., 2 lbs; 1 pair Blacksmith's Pincers, length 14 inches; 1 Cold Chisel, steel 3/4 in. Shipping weight of complete set, about 150 lbs.

\$25.80

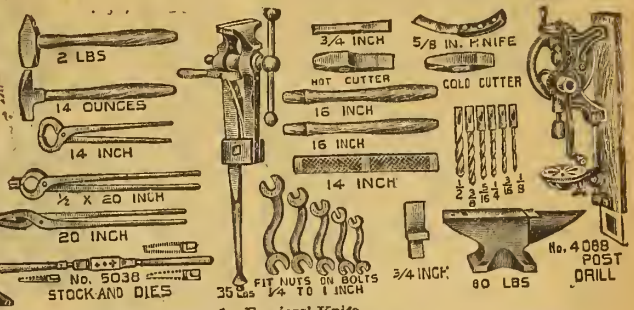
84C6460—Outfit complete.

Blacksmiths' Outfit \$62.00

An Ideal Outfit for the Farm or Blacksmith Shop



No. 2972 FORGE



Standard, first quality tools from our regular stock. Will enable you to do your own blacksmithing and repairing and will prove of much value on any farm or ranch. Outfit consists of:
 1 Lever Forge, with half hood, diameter of lever hearth 22 in., height, 54 in., with a perfect lever ratchet action; Fan case, 9 in. Wt., about 80 lbs.
 1 Cast Anvil, steel face. Wt., about 80 lbs.
 1 Champion Post Drill, 12-in. circle; self-feed.
 6 Twist Drills, with 1/2-in. round shank; one each 1/4, 3/8, 1/2, 5/8, 3/4 and 1 in.
 1 Blacksmith's Vise. Wt., about 35 lbs.
 1 Blacksmith's Stock and Dies, cutting 1/16 to 3/4 in. right hand, 10, 12 and 16 thread, with 3 sets of dies and 3 taper taps.

- 1 Farrier's Knife.
- 1 Hand Hammer, polished. Wt., about 2 lbs.
- 1 Pincers, 14 in.
- 1 Tongs, length, 20 in.
- 1 Hardie, to fit anvil.
- 1 Hot Cutter, 1 1/2 in. with handle.
- 1 Cold Cutter, 1 1/2 in. with handle.
- 1 3/4-in. hand cold chisel.
- 1 14-in. horse rasp.
- 5 Double end wrenches takes nuts from 1/4 to 1 inch
- 1 1/2-in. Bolt Tongs, 20 inch.
- 1-in. Farrier's hammer. Wt., about 14 oz.

84C6462—Outfit complete as Illustrated and described. Ship. wt., complete about 325 lbs. Price...\$62.00

Goodell-Pratt Lathe

184C6760 Goodell-Pratt Lathe. Carefully constructed, 24 in. long, with a swing of 7 in. and 12 in. between centers. Steel parts polished, body enameled. Has a milled bed. Hollow spindle with 3/8-inch hole. Fitted with No. 1 Morse taper. The tail stock is arranged for both screws and lever feed. Three-jawed chuck capacity 0 to 1 1/2 in. 1 spotted face plate and 1 saw arbor included. Diam. of pulley steps, 1 1/2, 2 1/2, 3 1/2 in. Weight about 32 lbs. Ship. wt., about 40 lbs. Each.....\$29.70

Counter Shaft

184C6761 For use with 184C6760 lathe. A treadle can be attached to automatic belt shifter. Diam. of tight and loose pulleys, 2 1/2 in. Diam. of cone pulleys, 1 1/2, 2 1/2, 3 1/2 in. on each of the respective steps. Shp. wt., 14 lbs. Each.....\$9.90

Turning Lathe Sets

184C6765—Heads on the Nos. 1 and 2 have steel spindles running in cast-iron bearings; centers are No. 1 Morse taper. The Nos. 3 and 4 have habbitted bearings; centers are No. 2 Morse taper. Each set consists of: 1 head stock, 1 tail stock, 2 tee rests, 1 rest socket, 1 face plate, 1 common center, 1 spur center, hand wheel rests, flanges and bolts for fastening to the bed.

Size	Swings, Inches	Speeds on Cone	Width of Bed	Ship. wt., lbs.	Set
1	6	2	1 1/2	18	\$14.40
2	8	3	1 1/2	35	19.35
3	11	3	1 1/2	80	51.00
4	13	4	1 1/2	118	51.00

Counter Shafts for Lathe Set

184C4297—To use with above Lathe Sets. Two to four steps on cone. Pulleys match pulleys on same size lathe sets. (Give size.) No. 1 No. 2 No. 3 No. 4
 Size..... 23 25 48 57
 Shp. wt., lbs..... \$8.10 \$9.90 \$14.40 \$17.45
 Each.....

Duck Nest Tuyere Iron

184C6574—Single Duck nest pattern. Cast iron. Without blast regulator. Total length, about 16 in. Total width, about 12 in. Ht., about 3 1/2 in. Shp. wt., 13 pounds. Each.....\$1.10

Sutton Tuyere Iron

184C6578—Tuyere iron and Fire Bowl. Cast iron. Large and heavy. Insures clean, bright fire. Will give satisfaction. Size of fire bowl, 13 1/2 x 11 1/2 in. Shp. wt., 42 lbs. Each.....\$4.45

Norton Tuyere Iron

184C6578—Made of heavy cast iron. The blast is regulated by turning the large rod. Ashes removed by pulling small rod. Levers and spring easily changed to right or left-hand side. Length, 28 in. 6 1/4 in. Shp. wt., 27 lbs. Each.....\$3.15

High Grade Tool Roll

84C2760—This handy outfit of high grade tools is especially selected to meet every requirement of the autoist in general repair work. Tool Kit containing 24 high-grade tools. Every tool first class in every respect. Packed in canvas roll as shown. Tools as follows:
 1 Perfect Handle Machinists' Hammer.
 1 Hand Punch, 10 in.
 1 Steel Monkey Wrench, 10 in.
 1 Sullison Pipe Wrench, 10 in.
 2 Perfect Handle Screwdrivers, 4 in. and 8 in.
 5 Drop Forged Steel Wrenches, taking from 1/8 to 1 in.
 1 Soldering Copper.
 1 Coil Solder.
 1 Flat Mill File, 8 in., with handle.
 1 Flat Mill File, 6 in., with handle.
 1 Prick Punch.
 1 Center Punch.
 1 Drop Forged Cold Chisel, 3/4 in.
 1 Drop Forged Cold Chisel, 1/2 in.
 Shipping weight, about 12 lbs. Price, complete.....\$9.80

Lakeside Combination Repair Outfit

A fine complete and compact combination of tools which will pay for itself in a short while on any farm. Makes it easy for you to make the "necessary stitch in time." Do your own smithing and repairing.

Outfit consists of:
 A Heavy Combination Anvil and Drill. The vise has 4 in. jaws, with extra pipe jaws, takes pipe up to 2 1/2 in. Anvil face is ground true with a 3/4 in. Hardie.
 Drill Attachment with three speeds: 1 to 1, 1 to 4, and 1 to 14, with chuck for 1/2 in. round shank drills. Drills to center of 10 in. circle.
 Emery Grinder with 6x1 in. fast cutting wheel.
 Blacksmith Forge, with heavy cast iron pan. Size, 12x14 in. by 2 1/2 in. deep, and easy acting blower.
 The Gear Case is removable, all the gears are wide-faced, accurately cut and machined, run quietly and easily and the same gears interchange either on the blower or on the drill and grinder.



\$23.95

The entire outfit is mounted on a heavy angle steel stand, well braced and rigid. Height to top of vise 3 ft. 2 in. Height to top of forge pan 1 ft. 11 in. Occupies a floor space of 12x16 in. Shipping weight about 180 lbs. A great combination outfit, thoroughly well made in every detail. Nothing cheap or shoddy about it, and we know it will please you. 184C6470—Lakeside Combination Outfit, complete as described above. Price.....\$23.95

Mole Tire Shrinker

184C6590—Size 1. Width of bed, 2 1/4 in. For light huggy tires. Shp. wt., 133 lbs. Each.....\$12.60
 184C6591—Size 2. Width of bed, 3 in. For medium work. Shp. wt., 210 lbs. Each.....\$18.90

Geared Tire Bender

184C6604—Bends a 4 1/2-in. tire or smaller to a circle 24 in. in diam. or larger. Length, about 25 inches. Width, about 8 inches. Height, about 12 inches. Shp. wt., 100 lbs. \$13.10
 184C6605—Bends a 6-inch tire or smaller to a circle 24 inches in diameter or larger. Length, about 25 inches. Width, about 9 inches. Height, 12 inches. Shp. wt., 115 lbs. Each.....\$13.95

Stoddard Tire Upsetter

One man can operate it. Will not kink tire. Short lever included.
 184C6595—Size 2. Will upset any tire up to 4 in. wide. Length 15 in. Width 15 in. Height, 18 in. Shp. wt., 245 lbs. Each.....\$21.95
 184C6596—Size 3. Special 4-in. machine. Loose jaws; will adjust for large and small circles, for upsetting axles from 1 in. to 1 1/4 in. sq. Length, 24 in. Width 19 in. Height, 20 1/2 in. Shp. wt., 300 lbs. Each.....\$27.50

Molders' Bellows

84C6570—Molders' bellows. Width, 10 in. Total length, 19 1/2 in. Shp. wt., 3 1/2 lbs. Each.....\$1.78

Braziron Outfit For Brazing Cast Iron

84C7154—For making many quick repairs on various machinery about farm and home. Also excellent for brazing aluminum. Outfit consists of 1 jar Braziron box flux, 1 package spelter, and full directions. Shp. wt., 2 1/2 lbs. Price.....\$1.20

Lakeside Welding Compound

84C7159—Product of our laboratories and one of the best made. Sticks at low heat and makes perfect weld on iron or steel. No sloughing or boiling off and no scale formed. Will give satisfaction. In handy 5-lb. cans. Shp. wt., 6 1/2 lbs. Can.....65c

Complete Mechanician Tool Kit

84C2762—In this outfit we have taken care to select a complete line of tools for every repair purpose generally required about the home garage. In it you will find many tools that will enable you to do satisfactory repair work that will soon save its cost. The tools are all of the best grade, which are appreciated by the expert mechanic as well as the novice. Heavy canvas roll containing 40 pieces as follows:
 5 Drop forged wrenches, openings from 1 1/2 to 2 in. One each: 10 in. pipe wrench; 9 in. monkey wrench; 5 in. bicycle wrench; 1/2 in. spark plug socket wrench; 6 in. combination pliers; 3 in. screwdriver; 5 in. square shank screw driver; 9 in. all-steel screwdriver; square file; 1/2 in. drift punch; 3/8 in. center punch; 1/2 in. cape chisel; 3/4 in. cold chisel; 1/2 in. cold chisel; 3 in. flat file; 2 1/2 in. carriage makers' clamp; spark plug brush; soldering torch; box solder paste; bundle wire solder; hex cotter pins; 1/8 and 3/32 in. points, solid punches; and 2 bundles copper wire. Shp. wt., 16 lbs. Price, complete.....\$17.60

Bar Iron

Weights and price on Round, Square and Flat Iron shown below are for Single Bars of 14 feet. Sold only in bars. We will always give you the benefit of the very lowest prices. Order by the bar, not by the pound. Shipping weights given are approximate and may vary slightly. Prices subject to market changes.

Size, in.	1/2	3/4	1	1 1/4	1 1/2	2
184C6480—Round Iron	9 1/2	10 1/2	11 1/2	12 1/2	13 1/2	14 1/2
Wt., lbs.	18c	26c	34c	44c	54c	64c
Bar.....	58c	66c	97c	\$1.29	\$1.67	\$2.05
184C6481—Square Iron	12	12	12	12	12	12
Wt., lbs.	34c	58c	85c	\$1.20	\$1.50	\$1.80
Bar.....	58c	66c	97c	\$1.29	\$1.67	\$2.05
184C6482—Flat Iron 1/2 in. thick	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Wt., lbs.	24c	27c	32c	37c	42c	47c
Bar.....	58c	66c	97c	\$1.29	\$1.67	\$2.05
184C6483—Flat Iron 3/8 in. thick	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Wt., lbs.	22c	26c	32c	37c	42c	47c
Bar.....	58c	66c	97c	\$1.29	\$1.67	\$2.05
184C6484—Flat Iron 1/4 in. thick	1	1	1	1	1	1
Wt., lbs.	20c	24c	28c	32c	36c	40c
Bar.....	58c	66c	97c	\$1.29	\$1.67	\$2.05
184C6485—Flat Iron 1/8 in. thick	3/4	3/4	3/4	3/4	3/4	3/4
Wt., lbs.	18c	22c	26c	30c	34c	38c
Bar.....	58c	66c	97c	\$1.29	\$1.67	\$2.05
184C6486—Flat Iron 1/16 in. thick	3/8	3/8	3/8	3/8	3/8	3/8
Wt., lbs.	16c	20c	24c	28c	32c	36c
Bar.....	58c	66c	97c	\$1.29	\$1.67	\$2.05

Special Round Edge Tire Iron

Easier to work than steel. Weights and prices are for full sets of four bars, consisting of two bars 12 1/2 ft. long, and two bars 13 1/2 ft. long. Sold only in full sets of four bars.

Size, in.	3/8 x 1/4	1/2 x 1/4	3/4 x 1/4	1 x 1/4
Wt., lbs.	40	45	55	103
Set.....	\$2.00	\$2.18	\$3.90	\$4.65
Size, in.	1 1/2 x 1/4	1 3/4 x 1/4	2 x 1/4	2 1/2 x 1/4
Wt., lbs.	137	160	180	210
Set.....	\$6.20	\$7.35	\$8.20	\$9.10

Braziron Outfit For Brazing Cast Iron

84C7154—For making many quick repairs on various machinery about farm and home. Also excellent for brazing aluminum. Outfit consists of 1 jar Braziron box flux, 1 package spelter, and full directions. Shp. wt., 2 1/2 lbs. Price.....\$1.20

Lakeside Welding Compound

84C7159—Product of our laboratories and one of the best made. Sticks at low heat and makes perfect weld on iron or steel. No sloughing or boiling off and no scale formed. Will give satisfaction. In handy 5-lb. cans. Shp. wt., 6 1/2 lbs. Can.....65c

Complete Mechanician Tool Kit

84C2762—In this outfit we have taken care to select a complete line of tools for every repair purpose generally required about the home garage. In it you will find many tools that will enable you to do satisfactory repair work that will soon save its cost. The tools are all of the best grade, which are appreciated by the expert mechanic as well as the novice. Heavy canvas roll containing 40 pieces as follows:
 5 Drop forged wrenches, openings from 1 1/2 to 2 in. One each: 10 in. pipe wrench; 9 in. monkey wrench; 5 in. bicycle wrench; 1/2 in. spark plug socket wrench; 6 in. combination pliers; 3 in. screwdriver; 5 in. square shank screw driver; 9 in. all-steel screwdriver; square file; 1/2 in. drift punch; 3/8 in. center punch; 1/2 in. cape chisel; 3/4 in. cold chisel; 1/2 in. cold chisel; 3 in. flat file; 2 1/2 in. carriage makers' clamp; spark plug brush; soldering torch; box solder paste; bundle wire solder; hex cotter pins; 1/8 and 3/32 in. points, solid punches; and 2 bundles copper wire. Shp. wt., 16 lbs. Price, complete.....\$17.60


Our saws are made of the finest steel—You can depend on them.

Champion Post Drills Are Smooth and Easy Running

Self-Feed Post Drill

184C6620—Champion, two-speed self-feed post drill. Speed ratios 1.7 to 1 and 1.17 to 1. Attach crank from one gear to another, changes speed. Takes work, diam., 15 in. height, 10 1/2 in. Drills holes up to 1 1/4 in. Has 1/2-in. Never-slip chuck. Spindle has easy-running ball thrust-bearing. Diam. 1 1/2 in.; run, 3 1/2 in. Bearings ground from solid metal. Smooth gears. Adjustable crank. Slotted table, adjustable vertically. Mounted on heavy board. (Without drills.) Total ht., 42 in. Ship. wt., 110 lbs. Each..... **\$14.95**

234C6620—Same as above shipped from warehouse, Saint Paul, Minn..... **\$15.45**



One Speed Post Drill

\$7.65

184C6622—Champion No. 92. Hand feed and one speed; ratio, 1.91 to 1. Takes work, diameter, 12 in.; height, 8 1/4 in. Drills holes up to 3/4 in. Has 1/2-in. Never-slip chuck. Spindle has ball-thrust bearing. Diam., 1/2 in., with a run of 3 in. All bearings are accurately ground from the solid metal (no Babbitt used), and need no adjustment. Adjustable crank. Smooth gears. Planed, slotted table, adjustable sidewise and vertically. Mounted on heavy board. (Without drills.) Total height, 36 in. Ship. wt., 55 lbs. Each..... **\$7.65**

Shipped from stock at Chicago..... **\$7.65**

Shipped from Saint Paul, Minn..... **7.95**

Shipped from Atlanta, Ga..... **8.20**




Self-Feed Post Drill

One Speed

184C6623—Champion No. 101 Adjustable Self-feed and one speed; ratio, 1.91 to 1. Takes work diam., 12 in.; ht., 8 1/4 in. Drills holes up to 3/4 in. Has 1/2-in. Never-slip chuck. Spindle has easy running bolt ball thrust-bearing. Diam., 1/2 in., with run of 3 in. All bearings accurately ground from solid metal (no Babbitt used) and need no adjustment. Adjustable crank. Smooth gears. Planed, slotted table, adjustable sidewise and vertically. Mounted on heavy board. (Without drills.) Total ht., 36 in. A good, durable machine at a low price. Ship. wt., 80 lbs. Each..... **\$11.60**

Shipped from Saint Paul, Minnesota..... **\$12.10**

Shipped from Atlanta, Georgia..... **\$12.45**



Self-Feed Post Drill

\$9.95

184C6628—Champion 102 drill. Takes work up to 12 inches diam., 8 inches high. Spindle is ball bearing, with up and down run of 3 inches. Automatic self feed. Never-slip chuck holds drill with regular 1/2-in. round shafts. Bearings ground from solid metal, accurate fit. Smooth gears. Adjustable crank. Adjustable slotted table. Drill is mounted on heavy board. Total height, 34 inches. Ship. wt., 65 lbs. Each..... **\$9.95**



Self-Feed Post Drill

Two Speeds

\$17.95

Champion No. B B. Adjustable Self-feed and Two speeds; ratios, 1.53 to 1 and .53 to 1. Takes work, diam., 16 in.; ht., 9 in. Drills holes up to 1 1/4 in. Has 1/2 in. Never slip chuck. Ball thrust-bearing. Diam., spindle, 1 1/2 in.; run, 3 in. All bearings ground from solid metal. Smooth gears. The low gear is not used in high speed, making this drill very easy running. Adjustable, slotted table. Mounted on heavy board. (Without drills.) Total height, 46 in. Each..... **\$17.95**

184C6630—With adj. hand crank; no pulleys. Ship. wt., 117 lbs. Each..... **\$17.95**

184C6631—With light and loose pulleys for power. Size 6x2 in. face. Speed, 250 R. P. M. Crank included. Ship. wt., 127 lbs. Each **\$21.75**



Drill Set to Fit Post Drills

\$13.45

Note

The convenient shipping points for the Northwest and Southern territory. Shipped from Warehouse in Saint Paul, Minn., Atlanta, Ga., or Chicago where it will save you freight.

Quick Shipment From a Warehouse Near You

Drill Set to Fit Post Drills

84C1058.....\$2.39

Sizes, 1/4, 5/16, 3/8, 1/2 in. Wt., 12 oz.

Four high grade, tempered steel Twist Drills. Made with 1/2 inch round shank, milled flat on one side. Fit post drills shown on this page. Each drill carefully tempered, tested and finished. Quality guaranteed. Will drill metal or wood.



Self-Feed Post Drill

Easy Running

Ball Thrust Bearing

\$13.45

184C6626—Champion No. 90, Adjustable self-feed, one speed; ratio, 1.53 to 1. Takes work, diameter, 14 1/2 inch; height, 10 1/2 inch. Drills holes up to 1 inch. Has 1/2-inch Never-slip chuck. Spindle has easy-running, ball-thrust bearings. Diameter 1 1/2 inches, with a run of 3 1/2 inches. Bearings accurately ground from the solid metal; no Babbitt used, and need no adjustment. Adjustable crank. Smooth gears. Planed slotted table, adjustable sidewise and vertically. Mounted on heavy board. Without drills. Total height, 43 inches. Ship. wt., 90 lbs. Shipped from Chicago. **\$13.45**

Price..... **\$13.85**

Shipped from Saint Paul, Minn..... **\$13.85**

Shipped from Atlanta, Ga..... **\$14.40**



Combination Post Drill

Two Speeds—Combined Lever and Self-Feed

Champion No. 97 Self-feed and wheel hand feed for quickly raising or lowering drill bit. Two speed ratios, 1.53 to 1 and .53 to 1. Takes work, diam. 16 1/2 in.; ht., 13 1/2 in. Drills holes up to 1 1/2 in. Never-slip chuck. Ball thrust-bearing. Diam. spindle, 1 1/2 in.; run, 5 1/2 in. Bearings ground from solid metal. Smooth gears. Adjustable slotted table. Mounted on heavy board. (Without drills.) Total ht., 50 in. **\$28.40**

184C6638 With tight and loose pulleys, for power. Size 6x2 in. face. Speed 250 R. P. M. Crank included. Ship. wt., 180 lbs. Each..... **\$28.40**

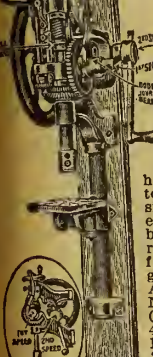
184C6639—With adjustable crank; no pulleys. Ship. wt., 170 lbs. Each..... **\$24.30**



Quick Return Post Drill

184C6634—Champion No. 96—Adjustable self-feed and very convenient Quick Return attachment which draws bit out of hole to the desired height and then unshifts. Two speeds; ratios, 1.53 to 1, and .53 to 1. Takes work, diam., 15 in.; height, 9 in. Drills holes up to 1 1/4 in. Has 1/2-in. Never-slip chuck. Spindle has easy-running, ball thrust-bearing. Diam., 1 1/2 in. run, 2 1/2 in. Bearings ground from solid metal. Smooth gears. Adjustable crank. Adjustable, slotted table. Mounted on heavy board. (Without drills.) Total height, 46 in. Ship. wt., 126 lbs. Each..... **\$22.50**

234C6634—Same as above shipped from warehouse Saint Paul, Minn. **\$22.95**




Drill Set to Fit Post Drills

84C1058.....\$2.39

Sizes, 1/4, 5/16, 3/8, 1/2 in. Wt., 12 oz.

Four high grade, tempered steel Twist Drills. Made with 1/2 inch round shank, milled flat on one side. Fit post drills shown on this page. Each drill carefully tempered, tested and finished. Quality guaranteed. Will drill metal or wood.

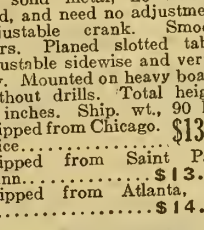


Blacksmiths' Bench Drill

184C6650—Heavy iron frame. Steel spindle. Length, 26 in.; height, 7 1/2 in. Chuck takes drill bits with standard taper square shank. Ship. wt., 22 lbs. Each..... **\$2.95**

Set of Twist Drills

84C6651—Taper square shanks to fit above drills. For metal or wood. One each, 1/4, 5/16, 3/8, 1/2 inch. Ship. wt., 12 oz. Set..... **\$1.87**



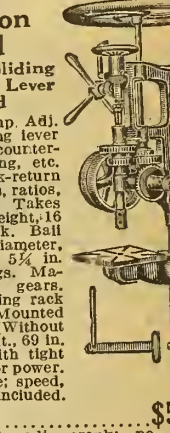
Combination Post Drill

Two Speeds by Sliding Gears Combined Lever and Self-Feed

Champion No. 7 Imp. Adj. Self-feed; quick-acting lever for reaming, counter-sinking, wood boring, etc. Serves also as quick-return for drill. Two speeds, ratios, 2.4 to 1 and .8 to 1. Takes work, diam. 21 in.; height, 16 in. Has 3/4-in. chuck. Ball thrust bearing. Diameter, spindle, 1 1/2 in.; run, 5 1/2 in. Solid ground bearings. Machine cut, covered gears. Table has quick-acting rack with wheel-holder. Mounted on heavy board. (Without drills.) Total height, 69 in. **\$59.40**

184C6644—With tight and loose pulleys, for power. Size, 11x2 1/2 in. face; speed, 80 R. P. M. Crank included. Ship. wt., 350 lbs. Each..... **\$59.40**

184C6645—With adj. crank; no pulleys. Ship. wt., 328 lbs. Each..... **\$54.00**

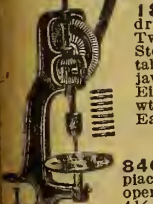


Bench Drill

184C6662—Goodell-Pratt drill. Iron frame, cut gear. Two easily shifted speeds. Steel feed screw. Adjustable table. Total ht., 18 in. Three jawed chuck, cap., 0 to 3/8 in. Eight fluted drill bits. Ship. wt., 18 lbs. Each..... **\$8.95**

Drill Vise

84C6663—Used in place of table. Jaws open 2 in. Ship. wt., 4 1/2 lbs. Each..... **\$2.40**



Champion Bench Drill

184C6675—Sensitive drill for light and rapid drilling. Belt driven. Cone pulleys for two speeds. Belt shifter. Adjustable spindle stop. End thrust ball-bearing iron frame. 3 jawed chuck holds drills up to 3/8 in. Tight and loose pulley, 4x1 1/2 in. Table, 8 in. diameter, swings 180 degrees horizontally. Speed of drive pulley, 550 R.P.M. Total height, 27 1/2 in. Ship. wt., 75 lbs. Each..... **\$29.85**



Bench Drill

184C6664—Solid iron frame, cut gear steel feed screw. Adjustable table. Total height, 15 in.; table to feed wheel, 13 in. Three-jawed chuck, cap., 0 to 1/4 in. 8 assorted fluted drills. Ship. wt., 12 lbs. Price..... **\$5.95**

84C6665—Used in place of table. Jaws open 1 1/2 in. Ship. wt., 2 lbs. Each..... **\$1.65**




Millers Falls Drill Press

184C6674—Double gears, extension handle, three-jawed chuck, taking round, shank drills up to 1/2 in. Bench clamp vise rest and frame all clamped to main standard, and fully adjustable. Total height, about 24 in. Vise hung off center so as to give variety of positions. Shipping wt., 28 lbs. Each..... **\$12.45**



Hoof or Cutting Nippers

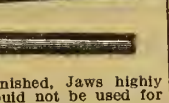
84C7008—Made of forged steel, finely finished. Jaws highly tempered and intended for cutting only. Should not be used for prying or twisting. Ship. wts., 1 1/4 to 3 pounds. Lgh., 10 in. Ea. **\$1.59** Lgh., 12 in. Ea. **\$1.98** Lgh., 14 in. Ea. **\$2.40**



Heller Bros. Cutting Nippers

84C7012—Made of the finest grade of crucible steel. Length Ship. Wt. Each
12 in. 2 lbs. \$2.10
14 in. 2 1/2 lbs. 2.64

84C6990—Cinch Tongs, made of tool steel. Length, 14 in. Ship. wt., 2 lbs. Each..... **\$2.10**



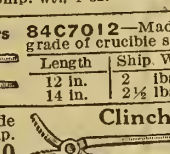
Cotter Pin Extractor

84C7082—Forged steel, oil finish. A very useful tool. Lgh., 7 in. Ship. wt., 4 oz. Each..... **14c**

Easy Hoof Trimmer


84C7015—Has a detachable knife, easily adjusted. Length, 12 in., opens 1 1/2 in.; cuts 1 in. Ship. wt., 3 lbs. Each..... **\$2.10**

84C7016—Extra knife for above. Ship. wt., 2 oz. Each..... **35c**



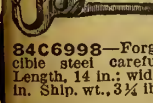
Blacksmiths' Pincers

84C6995—A substantial tool for hard every-day use. Forged steel, polished jaws. Full weight and correct shape. Excellent for mechanic or stable. Ship. wts., about 2 and 2 1/2 pounds. Length, 12 in. Each..... **84c** Length, 14 in. Each..... **95c**



Farriers' Pincers

84C6998—Forged from crucible steel carefully tempered. Length, 14 in.; width of jaws, 1 1/2 in. Ship. wt., 3 1/2 lbs. Each..... **\$1.68**



Hoof or Cutting Nippers

84C7000—Fine forged steel. Polished jaws. Extra quality. Length Ship. Wt. Each
12 in. 2 1/4 lbs. \$1.78
14 in. 2 3/4 lbs. 1.98



Blacksmiths' Leather Aprons

Prices subject to change. Ship. wt., 2 to 3 lbs.

84C7090—Split leather apron. Size, 35x34 in. Each..... **\$3.75**

84C7091—Muleskin Apron. Size, 25x34 in. Each..... **\$4.20**

84C7092—Split leather apron. Size, 27 1/2x38 in. Each..... **\$4.50**

84C7093—Muleskin apron. Size, 28x38 in. Each..... **\$5.25**



Blacksmiths' Bolt Tongs

84C6984—Forged Steel. Grooved jaws. Ship. wt., 2 1/2 to 4 1/2 lbs. (Give size)
For bolts in. 1/4 5/16 3/8 1/2
Length, in. 17 1/2 18 19 20
Each 74c 78c 88c 90c

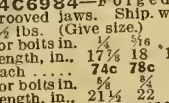
For bolts in. 5/8 1 1 1 1/2
Length, in. 21 22 24 24
Each..... **\$1.00 \$1.05 \$1.08 \$1.10**

Blacksmiths' Tongs

84C6980—Straight lip. Forged steel; one piece. Lengths are approximate. (Give size.) Length 20 in. Ship. wt., 3 lbs. **70c**


Each..... **70c**

Length, 22 in. Ship. wt., 3 1/2 lbs. Each..... **80c**



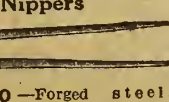
Genuine Heller Bros. Hoof Parers

84C7002—Highest grade crucible steel. Full polished. Length Ship. Wt. Each
12 in. 2 1/4 lbs. \$2.10
14 in. 3 lbs. 2.64



Hoof or Cutting Nippers

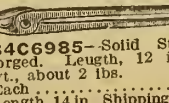
84C7010—Forged steel. Length, 14 in. Ship. wt., 2 1/2 lbs. Each..... **\$1.20**



Horseshoers' Tongs

84C6985—Solid Steel drop forged. Length, 12 in. Ship. wt., about 2 lbs. Each..... **58c**

Length, 14 in. Shipping wt., about 2 1/2 lbs. Each..... **62c**



Blacksmiths' Gad Tongs

84C6982—Solid forged steel. Length and weights are approximate. Length, 18 in. Ship. wt., 2 1/2 lbs. Each..... **72c**

Each..... **72c**

Length, 22 in. Ship. wt., 3 1/2 lbs. Each..... **\$1.10**



These High Grade Vises Are of Proven Worth

Lakeside Special Machinists' Vise **\$9.45**



This vise is unbreakable under ordinary usage. Made of high-grade malleable iron throughout, except the steel face on the jaws, steel screw and the handle. Screw and handle are solid forgings. Both jaws are faced with tool steel.

Article Number	Width Jaws	Jaws Open	Shp. Wt.	Each
184C6810	3 1/2 in.	5 in.	26 lbs.	\$ 9.45
184C6811	4 in.	6 in.	33 lbs.	10.75

Machinists' Vise



Full size, strong and substantial. Made of heavy iron. Tempered steel jaws, nicely polished. Strong steel screw with cut threads.

Solid Bottom

Article Number	Width Jaws	Jaws Open	Shp. Wt.	Each
184C6800	3 1/2 in.	4 in.	24 lb.	\$ 8.45
184C6801	4 in.	5 1/2 in.	30 lb.	9.55
184C6802	4 1/2 in.	6 in.	44 lb.	11.60
184C6803	5 in.	7 in.	55 lb.	14.95

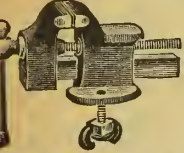
Swivel Bottom Vise



Made with a swivel bottom so the vise can be turned to convenient angles. Tempered steel jaws, nicely polished. Strong steel screw with cut threads.

Article Number	Width Jaws	Jaws Open	Shp. Wt.	Each
184C6805	3 1/2 in.	4 in.	30 lbs.	\$11.25
184C6806	4 in.	5 1/2 in.	38 lbs.	12.75
184C6807	4 1/2 in.	6 in.	54 lbs.	14.95
184C6808	5 in.	7 in.	66 lbs.	22.45

Swivel Bottom Vise



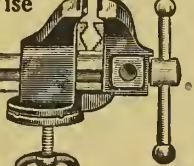
Steel faced jaws. Vise can be clamped at any convenient angle.

184C6814—Width of jaws, 2 1/2 in. Will open 3 in. Ship. wt., 14 lbs. Each.....\$3.70

184C6815—Width of jaws, 3 1/2 in. Will open 4 1/2 in. Ship. wt., 19 lbs. Each.....\$5.20

184C6816—Width of jaws, 4 in. Will open 6 in. Ship. wt., 30 lbs. Each.....\$8.25

Combination Pipe Vise



Made with a swivel base, can be turned and fastened at any convenient angle. Milled and tempered steel jaws for holding pipe. Front pipe jaw is reversible and when worn can be reversed and thus have a new jaw.

184C6890—Jaws, 3 in. Takes 1/2 to 1 1/2 inch pipe. Ship. wt., 20 lbs. Each.....\$10.20

184C6891—Jaws, 3 1/2 in. Takes 1/2 to 2-inch pipe. Ship. wt., 30 lbs. Each.....\$13.60

184C6892—Jaws, 4 in. Takes 1/2 to 3-inch pipe. Ship. wt., 40 lbs. Each.....\$18.70

Rubber Pads and Tips

84C7130—Rubber Hoof Pads with iron half shoes to fit. We include with each pad an iron tip to fit the front half of the hoof.

Note—Our prices are for two rubber pads and two iron tips.

Size	Outside Dimensions, Inches	Shp. Wt., Lbs.	Pair
2	5 x 5 1/2	3 1/2	\$0.88
3	5 1/2 x 5 1/2	4	.90
4	5 1/2 x 6 1/2	4 1/2	1.05
5	6 1/2 x 6 1/2	5	1.15
6	6 1/2 x 7	5 1/2	1.45

Drills for Screw Calks

84C7141—Tempered steel, with 1/2-inch round shank for blacksmith tap drills. (Give size.) Ship. wt., 3 to 3 oz.

Size Drill, in.	3/8	1/2	5/8	3/4	7/8
For Calks, in.	5/16	3/8	1/2	5/8	3/4
Each.....	53c	60c	69c	76c	84c

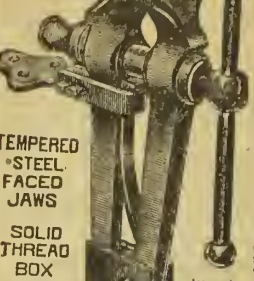
Taps for Screw Calks

84C7142—Tempered steel, with square head for regular tap wrench (Give size.) Ship. wt., 3 to 8 oz.

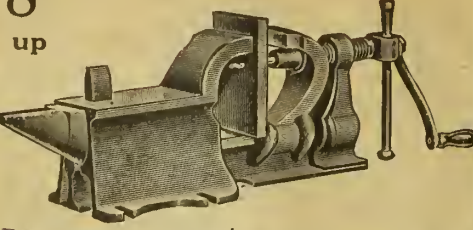
Size, in.	3/8	1/2	5/8	3/4	7/8
Each.....	43c	48c	56c	65c	72c

Blacksmith's Solid Box Vise Combination Vise and Drill Handy Anvil Vise


Blacksmith's Solid Box Vise **\$8.95 up**



Combination Vise and Drill **\$4.95**



Handy Anvil Vise **\$2.38**



TEMPERED STEEL FACED JAWS

SOLID THREAD BOX

DEEPLY THREADED STEEL SCREW

Heavy, properly proportioned, well made throughout. Solid thread Box, with Steel Screw. Threads are deep and accurately cut. Loose collars prevent binding. Steel-faced jaws, carefully hardened and tempered. Will stand most severe usage.

Note—The number stamped on the Vise corresponds to its approximate weight. Ship. Wt., same as size.

(Prices subject to market changes.)

No.	Size lbs.	Width of Jaw about	Each
184C6870	35	3 1/2 in.	\$ 8.95
184C6872	50	4 1/2 in.	10.35
184C6873	70	5 1/2 in.	13.50
184C6874	100	6 in.	19.75

Lakeside American Wrought Anvil for the Expert Blacksmith

\$16.95



184C6930—Forged from best and toughest iron welded at waist, and faced with finest quality high-grade tool steel, carefully welded on and will not loosen. Face is hard and true, and tempered by a process which prevents the edges from chipping, giving a hard surface without being brittle. Shape is latest improved design, graceful and practical, and each anvil rings clear and true as a bell.

Should this anvil break at the waist or its steel face become loose within one year from date of purchase, it will be replaced without charge.

We cannot always send exact weight, but will send the nearest we have to size wanted. Shipping weights are same as weights of anvils.

Prices subject to market changes.

Weight	70 lbs.	100 lbs.	125 lbs.	150 lbs.	200 lbs.
Price, each.....	\$16.95	\$24.00	\$30.00	\$36.00	\$48.00


Handy Shop Anvil Cast Body, Steel Face

184C6938—The face is one solid piece of tool steel, welded to cast iron body by a patent process. Will not loosen. Accurately ground and tempered. Fitted with hole for anvil tools. The end of the horn is made entirely of tough untempered steel and the top is covered with steel. An excellent, well-shaped anvil. (Give weight.)

Prices subject to market changes.

Wt., Lbs.	40	50	60	80	100
Each.....	\$7.85	\$8.95	\$9.75	\$12.00	\$14.95

\$7.85




Special Farm Anvils

184C6934—A solid cast anvil, made of fine iron. Properly proportioned and the face is smoothly ground and polished. Exactly what every farmer, mechanic and handy man wants. An excellent anvil for all ordinary shop and farm use, and a big bargain. Shipping weights are the same as the net weights.


Weight	50 lbs. Each	70 lbs. Each	100 lbs. Each
Price, each.....	\$4.20	\$5.90	\$8.40

\$4.20



Safety Horseshoe Calks

Steel Center Slipping Prevents **\$1.20 up**



84C7140—Will give perfect satisfaction on any shoe. Hard steel center, always sharp. Square shank, so they can be fastened or removed with an ordinary wrench. Sold only in boxes of 50 calks. (Give Size.) See 84C7141 and 84C7142 for drills and taps.

Size	Diam. threads	Fits Hole	Shp. wt.	Box of 50
A	3/8 in.	5/16 in.	1 1/4 lbs.	\$1.20
B	1/2 in.	3/8 in.	2 1/2 lbs.	1.25
C	5/8 in.	1/2 in.	3 1/2 lbs.	1.30
D	3/4 in.	5/8 in.	4 1/2 lbs.	1.35
E	7/8 in.	3/4 in.	4 3/4 lbs.	1.45

Bench Vise

Made with cast iron frame painted black. Hardened steel faced jaws. A good vise for light or medium work.

Article Number	Width Jaws	Shp. Wt.	Each
184C6820	2 1/2 in.	9 lbs.	\$2.20
184C6821	3 in.	15 lbs.	2.90
184C6822	4 in.	32 lbs.	5.70

Stanley Bench Vise

Stanley Vise. Extra quality. Finely fitted, finished.

184C6846—Jaws 1 1/2 in. Will open 1 1/2 in. Ship. wt., 4 lbs. Each.....\$1.00

184C6847—Jaws 2 in. Will open 2 1/2 in. Ship. wt., 4 1/2 lbs. Each.....\$2.00

Small Clamp Vise

Clamps on table. Sliding rear jaw. Cast iron. Japan finish.

84C6840—Width of jaws, 1 1/2 in. Opens 1 1/2 in. Ship. wt., 2 lbs. Each.....78c

84C6841—Width of jaws, 2 in. Opens 2 in. Ship. wt., 3 1/2 lbs. Each.....98c

Goodell-Pratt Vise

84C6848—Steel screw and two guide rods. Recessed jaws. Polished iron. Width, 2 in. Will open 2 1/2 in. Ship. wt., 4 lbs. Each.....\$2.00

Tight Grip Pipe Vises

184C6880—Strong light weight vise for holding pipe, rods, etc. Frame and base made of heavy malleable iron. Hardened steel jaws. Hinged joint on one side. Iron latch opens vise to remove or insert pipe and holds frame rigid when closed. Holds pipe up to 2 in. pipe. Ship. wt., 7 lbs. Price, each.....\$2.95

Heavy Malleable Pipe Vise

Quick action Vise for holding pipe, rods, etc. Frame and base made of heavy malleable iron. Hardened steel jaws. Holes in base to screw to bench or table.

184C6881—Size 1 Takes 1/2 to 3/4 pipe. Ship. wt., 14 lbs. Each.....\$4.20

184C6882—Size 2 Takes 3/4 to 1 1/2 pipe. Ship. wt., 16 lbs. Each.....\$6.20

Steel Toe Calks

Made of steel. Give shape and state if blunt or sharp. Calks are wanted. Shipping wt., 5-lb. pkg., 6 lbs. (Prices subject to market changes.)

Size	No. in	Width Inches	Pack's Pound
1	13	1/2	9 1/2 c
2	8	9/16	9 1/2 c
3	6	1 1/8	9 1/2 c
4	4	3/4	9 1/2 c
5	4	3/4	9 1/2 c

25-lb. box. (Give size).....\$2.30

"Lakeside" Horse Shoe Nails

84C7135—Extra Quality. Hot forged nails. Uniform shape and size. Correctly proportioned and tempered right. A fine, well finished, high-grade nail. Country brand. (Give size.)

Size, No.	5	6	7	8	9
Light, in.	2 1/4	2 1/2	2 3/4	2 3/4	2 3/4
Per Lb.	27c	24c	23c	22c	22c

Easy-Fit Horse Shoes

FRONT Summer Shoe **HIND Winter Shoe**

(Prices subject to market changes.)

Finished and shaped ready to apply. Toed, Heeled and Clipped and the shape is so perfect it is seldom necessary to change them. Made of a special process iron of a texture that will allow re-shaping without heating. Summer shoes not drilled for calks. Winter shoes drilled and tapped for screw calks. (Calks not included.) Order by number.

Size	Outside Length	Outside Width	Shp. wt. per Pair	Pair
1	5 1/2 in.	4 1/2 in.	2 lbs.	\$0.48
2	5 3/4 in.	4 3/4 in.	2 1/2 lbs.	.55
3	6 in.	4 1/2 in.	3 lbs.	.65
4	6 1/4 in.	5 in.	3 1/2 lbs.	.75
5	6 1/2 in.	5 1/4 in.	4 lbs.	.85
6	7 in.	6 in.	4 1/2 lbs.	.98

Horseshoers' Toe Knife

84C7020—Forged steel, oil finished. Length, 7 1/2 in. Ship. wt., 1 lb. Each.....82c

Farriers' Knives

84C7030—Wostenholm steel blade. Bone handle. Ship. wt., 6 oz. Each.....68c

84C7031—Heller Bros. Bone handle. Ship. wt., abt. 4 oz. Each.....70c

Horseshoers' Pritchel

84C7022—Forged steel 5/8-in. octagon. Length, about 10 in. Ship. wt., 1 pound. Each.....42c

Horseshoers' Buffer

84C7024—Forged steel oil finish. Ship. wt., 12 oz. Each.....83c

Standard Iron Horseshoes

Extra light weight, best quality, carefully made. Will work at any heat, from a cherry red to white or cold if necessary. Correctly shaped and can be fitted with the least possible labor. The creasing is accurate, and the punching is clear through and at a proper angle for the nails. Perfect in quality, workmanship and finish. Kegs listed below are 100 lbs. net. Ship. wt., 110 lbs. (Prices subject to market changes.)

Size	Price Per 100 lb. Keg	Front & Hind, 100 lb. Keg
1	\$7.50	\$7.50
2	7.25	7.25
3	7.25	7.25
4	7.25	7.25
5	7.25	7.25
6	7.25	7.25

Standard Light Horse Shoes

Ship. wt., per set for sizes 1 to 6, about 3 to 7 1/2 lbs. Ship. wt., per 100 lbs. keg about 140 lbs.

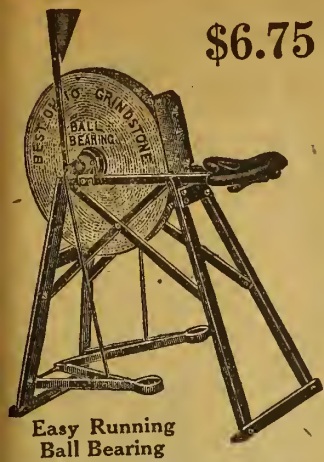
Size	Price Per 100 lb. Keg	Front & Hind, 100 lb. Keg
1	\$7.50	\$7.50
2	7.25	7.25
3	7.25	7.25
4	7.25	7.25
5	7.25	7.25
6	7.25	7.25

84C7114—Asst. front and hind, Nos. 2 and 3. Price, per 100 lbs. Keg, \$7.50

84C7115—Asst. front and hind, Nos. 3 and 4. Price, per 100 lbs. Keg, \$7.50

Well Sharpened Tool Saves Time and Labor

\$6.75



Easy Running Ball Bearing

Steel Frame Grindstone

84C6780—Steel Frame Grindstone with easy-running Ball-Bearings. Fitted with a smooth, heavy cast iron fan or trough. Has steel shaft with pulley. Size of pulley, 6 in. by 3 in. Best grade Ohio grindstone. Smooth, even grit. Diameter, about 20 in.; thickness, 2 in. Ship. wt., about 90 pounds. \$6.75

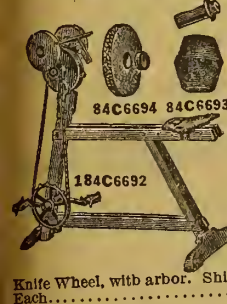
Steel Frame Power Grindstone \$15.65



Ball Bearing

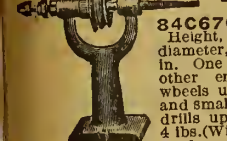
84C6784—A substantial machine with steel frame, easy running Ball Bearings and Heavy Cast Iron Fan or Trough. Has steel shaft with pulley. Size of pulley, 6 in. by 3 in. Best grade Ohio grindstone. Smooth, even grit. Diameter, about 22 in. and 2 1/2 in. thick. An excellent grinder for the farm or shop. Shipping wt., about 170 pounds. \$15.65

Emery Foot Grinders



84C6692—Hardwood frame. Enclosed cut gears. Ball bearing. Bicycle pedals, and steel drive chain. Two fast cutting wheels, one coarse, one fine. Size, 6 1/2 x 1 in. Ship. wt., 68 lbs. Each... \$23.95
84C6693—Saw Gunning Wheel. With Collar. Ship. wt., 1 1/2 lbs. Each... \$1.65
84C6694—Beveled Mower Knife Wheel, with arbor. Ship. wt., 3 lbs. Each... \$2.75

Polishing Head



84C6702—For round belt. Height, 8 in. Has 9 in. spindle; diameter between flanges, 3/4 in. One end has taper screw; other end will hold emery wheels up to 6 1/2 in. buffers, and small saws. Has chuck for drills up to 3/8 in. Ship. wt., 4 lbs. (Without wheels) \$2.95

\$13.95 Emery Grinder with Stand



Will run two wheels 6x1 in. thick. Steel arbor 10 in. long, 3/4 in. diameter in bearings and 1/2 in. diameter between flanges. Pulley, 1 1/2 x 1 1/2 in. face. Height to center of arbor, 5 in. 84C6710—Without Floor Stand. Ship. wt., 12 lbs. Each \$4.80
84C6711—With Stand. Height, 32 in. Ship. wt., 60 lbs. Each \$13.95

High Speed Tool Grinders

\$2.10 Up

Household Size

84C6680—Puts keen edge on knives, scissors, etc. Will fit easily into drawer or cupboard. Easy to clamp on table or sink. Wheel 4x3/4 in. Ship. wt., 5 lbs. Each \$2.10

Mechanic Size

84C6681—Will fit handily into tool chest, but is big enough for all tool-grinding required by mechanic who goes out on the job. Grinding wheel, 5x1 in. Ship. wt., 6 1/2 lbs. Each \$3.20



Easy to Keep Tools Sharp

Shop or Garage Size

84C6682—For work bench in repair shop or private garage. Mechanics like it for sharpening their tools. Grinding wheel, 6x1 inch. Ship. wt., 10 lbs. Each \$4.30

Factory Size

84C6683—A big, powerful grinder for Machine Shops, Lumber Camps, Ranches, etc. Large, yet smooth-running; heaviest grinding is easily handled. Grinding wheel, 7x1 in. Ship. wt., 13 1/2 lbs. Each \$5.75

Lakeside Emery Corundum Wheels

Made from best grades of pure corundum and emery. Note—Give diameter, thickness, size of hole, shape of face and purpose or class of work. We will select the wheel best adapted for your work.



84C8510 Square face wheels
84C8512 Round face wheels

Diam. Wheel Inches	Thickness of Wheels in Inches						Prices are Each
	1/4	1/2	3/4	1	1 1/4	1 1/2	
2	\$0.22	\$0.36	\$0.32	\$0.35			
3	28c	43c	42c	46c			
4	38c	53c	56c	70c			
5	53c	67c	1.02	1.20	\$1.37		
6	67c	1.02	1.51	1.82	\$2.14	\$2.42	\$3.00
8	94c	1.72	2.17	2.63	3.12	3.57	4.43
10		2.10	2.73	3.32	3.95	4.58	5.85

Blacksmith's Special Wheels

84C8515—Square Face. For all kinds of rough work on iron and steel castings, plows, agricultural implements, etc. Prices are each. Ship. wt., 12 to 45 lbs.



Diam. -er Inches	Thickness of wheel in Inches		
	1 1/4	1 1/2	2
8	\$2.14	\$2.42	\$3.00
10	3.12	3.58	4.48
12	3.95	4.58	5.85
14	4.98	5.78	7.42
16	6.15	7.18	9.28

Special Tool Grinding Wheel

84C8518—For edge tools. Will put a keen, smooth edge on any tool in short time. Ship. wt. 2 oz. to 15 lbs.



Diam. In.	Thickness—Inches			
	3/4	1	1 1/4	1 1/2
4	\$1.20	\$1.48		
6	2.18	2.55	2.92	
8	3.30	3.90	4.53	\$5.18
10	4.65	5.62	6.68	7.65

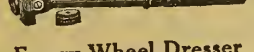


Special Saw Gunning Wheel

84C8520—Round face. Fast cutting wheel. Ship. wt., 1 to 12 lbs.

Dia. In.	Thickness—Inches			
	1/4	1/2	3/4	1
6	\$1.19	\$1.50	\$1.52	\$1.80
7	1.43	1.80	1.82	2.22
8	1.68	2.16	2.21	2.72
9	1.90	2.52	2.60	3.22
10	2.22	3.00	3.10	3.92
12	2.57	3.70	3.78	4.79

Emery Wheel Dresser



84C6745—Ship. wt., 2 lbs. With two sets of cutters. \$58c
84C6746—Extra—Cutters. Ship. wt., doz. sets, 1 1/4 lbs. Set, 7c; doz. Sets, \$80c



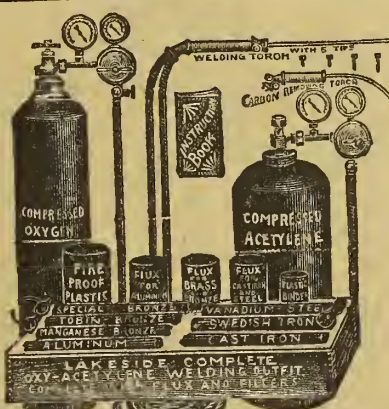
84C6748—Especially for large wheels or grindstones. Diam. cutters, 1 1/2 in. Ship. wt., 2 lbs. With two sets of cutters. Set, \$80c
84C6749—Extra cutters. Ship. wt., 2 oz. Set, \$10c

Cloth Buffing Wheels

84C6742—Unbleached Muslin, 18-ply. Ship. wt., 3 to 9 oz. Diam., in. 4 8 10 12 Each... 21c 40c 67c \$1.08 \$1.56

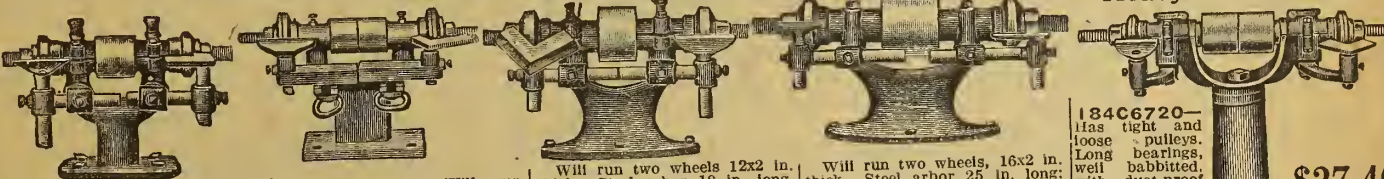
Oxy-Acetylene Welding Outfits

Anyone can, with little practice, accomplish results in welding that seem marvelous. Follow the Instruction Book furnished with each outfit. It takes only a few minutes for ordinary jobs and the gas consumed costs only about 1 to 5 cents per minute, according to the size of the tip used on the torch. Prices do not include the two tanks. You will require one of oxygen and one of acetylene gas and these you can easily obtain direct from the manufacturers. For oxygen gas we would refer you to the Lake Air Products Company, with main offices in New York, Chicago and San Francisco and numerous service stations. For acetylene gas, we would refer you to the Prest-O-Lite Company, with main offices in Indianapolis, Ind., and numerous service stations.



OXY-ACETYLENE OUTFITS
284C6550—This outfit contains: 1 Lakeside Welding Torch with 5 tips; 1 Lakeside Carbon Removing Torch; 1 Oxygen Regulator Valve with 50-lb. gauge; 1 Acetylene Regulator Valve with 30-lb. gauge; 1 3,000-lb. Oxygen gauge; 1 500-lb. Acetylene gauge; 2 12-ft. sections braided Special Acetylene hose with connections; 1 Assortment of Fluxes, and Hose with connections; 1 Radiator Wrench; 1 Filler Rods for various metals; 1 Radiator Wrench; 1 pair Imported Welders' Glasses; 1 complete Book of Instructions; 1 Packing Box with hinged cover. Ship. wt., 40 1/2 lbs. \$64.75
134C6551—This outfit contains: 1 Lakeside Welding Torch 5 tips; 1 Oxy. Reg. Valve with 50 lb. gauge; 1 Acety. Reg. Valve with 30-lb. gauge; 1 Reg. Wrench; 2 12-ft. lengths braided Special Hose; 1 pair Welders' Glasses; 1 Instruction Book; 1 Packing Box with hinged lid. Ship. wt., 25 lbs. Outfit, complete... \$47.00
84C6554—Will cut a thick steel bar in a few moments. Can also be used for quickly cutting sheet metal of all kinds. With 3 tips. Ship. wt., 3 lbs. Each \$28.00
LAKESIDE CAST IRON FLUX
84C6558—For welding cast iron and steel. Insures a uniform, close-grained weld. Ship. wt., per can, 22 oz. 1-lb. can. \$60c
LAKESIDE WELDING ROD
84C6560—Cast iron filler rods. Extra quality. Melts readily and flows smoothly. Length about 16 in. Size, inches... 3/16 1/4 3/8 Ship. wt., lb., 20 oz. 18c 16c 15c

Emery Grinding Machines for Power



84C6714—Will run wheels up to 12 by 1 1/4 in. thick. Steel arbor, 17 inches; 3/4-inch diameter. Tight and loose pulleys, 2 1/2 by 2-inch face. Adjustable bearings, with oil cups. Adjustable tool rest. Height, 10 inches. (We recommend 8 by 1 1/2 inch wheels.) Ship. wt., 31 lbs. wheels. Each \$11.40
Will run two wheels 12x2 in. thick. Steel arbor 18 in. long. 1 1/2 in. diameter in bearings, and 1 inch diameter between flanges. Pulley 3 1/2 x 3 inch face. Height to center of arbor, 8 in. Has two rests which can be set at any angle. 84C6715—Without Floor Stand. Ship. wt., 48 lbs. \$16.10
84C6716—With Stand. Hgt., 29 1/2 in. Ship. wt., 114 lbs. Each \$31.50
Will run two wheels, 16x2 in. thick. Steel arbor 25 in. long; diameter in bearings, 1 1/2 in.; diameter between flanges, 1 1/2 in. Height to center of arbor, 9 1/2 in. Pulley 4 1/2 x 3 in. face. Complete with adjustable rests. 84C6717—Without Floor Stand. Ship. wt., 88 lbs. \$28.35
84C6718—With Stand. Hgt., 28 1/2 in. Ship. wt., 183 lbs. Each \$51.30

Heavy Floor Grinder

84C6720—Has tight and loose pulleys. Long bearings. Well babitted with dust-proof collars. Adjustable rests. Will carry two wheels 12x2 in. or smaller. Height, arbor to floor, 33 inches. Length, arbor, 28 in. Diam. arbor between collars, 1 in. Size pulleys, 3 1/2 x 3 in. face. Ship. wt., about 105 lbs. Each \$27.40

Grindstone Fixtures

84C6790—Heavy cast iron, japanned, roller bearing.

Length	Ship. Wt.	For Stone	Set
15 in.	5 lbs.	50 lbs.	\$0.82
19 in.	5 1/2 lbs.	80 lbs.	.95
21 in.	6 1/2 lbs.	100 lbs.	1.15

Grindstone Fixture

84C6792—Very easy running. Steel axle, length, about 10 in. Takes stone up to 30x2 1/4 in. Has ball-bearing journals. With one crank treadle and one hand crank. Ship. wt., 6 lbs. \$1.12

Unmounted Grindstones

184C6788—Smooth, even grit, fast cutting. Weights given will vary somewhat. Price Subject to Market Changes.

Diam. about, In.	Ship. Wt. Lbs.	Each
16	40	\$1.15
18	50	1.45
20	60	1.80
22	80	2.40
24	100	2.95
26	120	3.60
28	150	4.45
30	200	5.95

Power Grindstone Shafts

Threaded steel shaft. Iron pulley and bearings. Heavy flanges hold stone rigid. Easy running and strong. Ship. wts., 10 and 20 lbs.

Article No.	Size Shaft, Inches	Size Pulley, Inches	Takes Stone up to	Each
184C6794	12x 3/4	7x1 1/2	4x24 in.	\$2.20
184C6795	18x1 1/4	8x3	4x36 in.	3.95

Counter Shafts

84C6704—Strong, well balanced, nicely finished. Steel shafts. Iron pulleys. Give size.

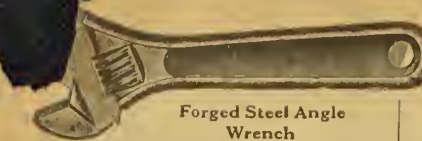
Size	1	2	3	4
Drive pulley	8x2	9x2 1/2	10x3 1/4	12x4
Other pulleys	3 3/4 x 1 1/2	4 1/2 x 2 1/4	4 1/2 x 3	5 1/2 x 3
Drop of Hanger	5 in.	6 1/2 in.	6 1/2 in.	8 in.
shaft	17 in.	21 in.	24 in.	26 in.
Diam. shaft	1 in.	1 in.	1 1/4 in.	1 1/4 in.
Ship. wt.	27 lbs.	41 lbs	50 lbs.	68 lbs.
Each	\$3.95	\$1.50	\$4.20	\$18.40

NOTE—When Ordering Emery Wheels for These Grinders be Sure to Mention Size of Hole Wanted.

Our "Ward Brand" overalls will stand the roughest wear.

Montgomery Ward Co. Chicago

Want a Dependable Wrench? You May Depend on These



Forged Steel Angle Wrench

84C7458—Excellent for the autoist, machinist or general use. Possesses all the advantages of a solid S wrench, as well as the convenience of an adjustable wrench. Gets into tight places and other spots that cannot be reached with the regular style wrenches. Angle head, thin jaws, fits hexagon and square nuts. Made of high grade tool steel. Adjusted by a knurled screw in frame.

Length, inches	6	8	10	12
Opens about	3/4	5/8	1 1/4	1 1/2
Ship. wt., lbs.	3/4	5/8	1 1/2	2 1/4
Each	\$0.82	\$1.05	\$1.28	\$1.38

Wrench and Thread Cleaner 84C7504—Forged steel. Will grip nuts, rods or pipe up to 1 in. outside diameter. Three dies in center for restoring damaged threads on bolts. Size, 3/8, 1/2 and 3/4 in. Length, 8 3/4 in. Ship. wt., 1 lb. Each **48c**

Always Ready Wrench 84C7506—Handy for pocket or bench. Drop forged steel. Plain finish.

Len., in.	Cap., in.	Ship. Wt.	Each
5	1/4 to 3/4	9 oz.	32c
6 1/2	3/4 to 1 1/4	14 oz.	44c

Handy Twin Wrench 84C7500—Very handy. Forged steel oil tempered. Holds pipe 1/2 to 3/4 in. Holds round iron 1/4 to 1 in. Length, 10 in. Ship. wt., 1 1/2 lbs. **65c**

Handy Wrenches 84C7498—Forged steel. Oil tempered. Holds round iron 1/4 to 1 1/4 in. Length, 7 in. Ship. wt., 1 lb. Each **38c**

Famous Trimo Pipe Wrench 84C7485—Drop forged steel handle and jaws. Remains adjusted until turned. We can supply renewal parts at any time.

Size, Open	Takes Pipe	Ship. Wt.	Each
6 in.	1/2 in.	3/4 lbs.	\$1.15
8 in.	3/4 in.	1 1/4 lbs.	1.30
10 in.	1 in.	2 lbs.	1.44
14 in.	1 1/2 in.	4 lbs.	2.00
18 in.	2 in.	5 1/2 lbs.	2.88
24 in.	2 1/2 in.	9 lbs.	4.20

"Perfect" Handle Wrench 84C7488—Entire bar from lower jaw to end of handle is one piece of drop forged steel. Waterproofed hardwood locked in handle, with two steel rivets.

Size open	8	10	14
Takes pipe to	3/4	1	1 1/2
Ship. wt., lbs.	1	1 1/4	3 3/4
Each	\$1.44	\$1.48	\$2.10
Size open	18	2	2 1/2
Takes pipe to	2	2 1/2	3
Ship. wt., lbs.	5 1/2	9	14
Each	\$2.98	\$4.50	

Genuine Bemis & Call Nut and Pipe Wrench 84C7450—Combination pipe and monkey wrench. Long nut, permits firm grip. Forged steel with wood handle. Ship. wt., 2 to 5 lbs.

Size	Takes Pipe	Each
10 in.	1/2 to 1 in.	\$2.48
12 in.	3/4 to 1 1/4	2.95
15 in.	1 to 1 1/2	3.95

Self-Adjusting Pipe Wrench 84C7490—A simple practical tool for pipe and fittings. Grips tightly any pipe within its capacity without adjustment. Made of forged steel. Black finish.

Trade Size	Takes Pipe In.	Ship. Wt.	Each
10 in.	3/4 to 1	1 1/2 lbs.	\$1.18
14 in.	1 to 1 1/2	2 1/2 lbs.	1.52
24 in.	1 1/2 to 2 1/2	6 3/4 lbs.	3.60

Brock's Pipe Wrench 84C7492—Forged steel, one piece, milled angle teeth jaws, quickly and firmly grips pipe. Flat link steel chain. Holds pipe, shafts, etc.

Length	Takes Pipe In.	Ship. Wt.	Each
20 in.	1/2 to 1 1/2	9 lbs.	\$3.25
27 in.	3/4 to 2 1/2	9 1/2 lbs.	4.75
37 in.	1 to 4	19 1/2 lbs.	6.75
44 in.	1 to 6	23 lbs.	8.70

Three Wheel Pipe Cutter 84C7540—Best Quality. Three wheels for quickly and easily cutting pipe and tubing. Wheels are best tool steel. Body and handle, malleable and wrought iron.

Ship. wt., lbs.	Each
3 1/2	\$2.68
5 1/2	\$3.60
9 1/2	\$5.95

One Wheel Pipe Cutter 84C7546—Cuts from 1/2 to 1 in. Ship. wt., 6 lbs. Each **\$2.10**

84C7549—Extra wheels, Each **.18**

84C7547—Cuts pipe, 3/4 to 2 in. Ship. wt., 7 1/2 lbs. Each. **\$3.15**

84C7549—Extra wheels, Each **.23**

For cutting pipe. Malleable iron shank and frame. Spun iron handle. One tool steel die to cut pipe and two rollers to smooth edges. When ordering extra wheels give number of cutter.

84C7546—Cuts pipe, 1/2 to 1 in. Ship. wt., 6 lbs. Each **\$2.10**

84C7549—Extra wheels, Each **.18**

84C7547—Cuts pipe, 3/4 to 2 in. Ship. wt., 7 1/2 lbs. Each. **\$3.15**

84C7549—Extra wheels, Each **.23**



Lakeside Forged Wrenches

84C7445—Forged from tool steel, case hardened jaws. Solid one-piece bar extends through to end of handle. Varnished hardwood grips riveted to handle with heavy iron rivets.

Size, inches	8	10	12	15	21
Shipping weight, pounds	1 3/4	2 1/4	3 3/4	5 1/2	10
Each	\$1.38	\$1.48	\$1.90	\$2.65	\$3.95



Steel Monkey Wrench

84C7440—Screw Wrench, with wrought-iron bar, head and screws, wood handle.

Size	Ship. Wt.	Each
8 in.	1 1/4 lbs.	\$0.79
10 in.	2 lbs.	.95
12 in.	2 1/2 lbs.	1.22
15 in.	4 1/2 lbs.	1.62



Perfect Handle Wrench

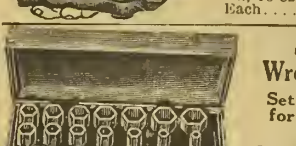
84C7442—The entire bar is drop forged from one piece of steel, fitted with the famous Perfect Handle of waterproofed wood. Made of the best material throughout.

Trade Size	Opens Abt.	Ship. Wt.	Each
8 in.	1 1/4 in.	1 1/2 lbs.	\$1.40
10 in.	1 3/4 in.	2 1/2 lbs.	1.70
12 in.	2 1/8 in.	3 1/2 lbs.	2.22
15 in.	2 3/4 in.	5 1/2 lbs.	2.95
21 in.	3 3/4 in.	11 lbs.	4.50



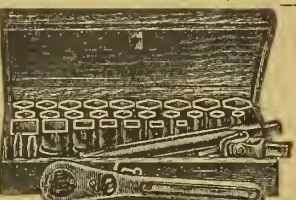
Hand Vise

84C6850—Holds taps, drills, wire, etc. Width of jaws, 1 1/4 in. Will open 1/2 in. Ship. wt., 16 oz. Each **57c**



Socket Wrench Set

Set Complete for Hexagon Nuts 84C7465—Contains 14 sizes of hexagon sockets from 1/32 to 1 1/4 in. openings, 1 regular T handle socket wrench. Ship. wt., 6 lbs. **\$3.75**



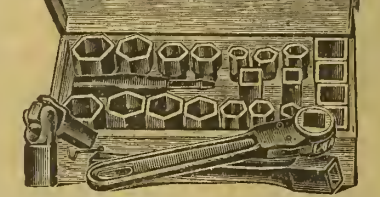
Socket Wrench Set in Wood Case

84C7466—For factory work; assembling and repair shops. Complete in wooden case. Sockets case-hardened pressed steel. Fit large variety of nuts and screws. Contains: 26 steel sockets, 19 sizes hexagon from 1/32 to 1 1/2 in., and 7 sizes square from 1/32 to 1 1/2 in. openings, 1 ratchet handle, length, 10 in., nickel-plated and hardened; 1 universal joint, 1 extension bar and 1 double end screwdriver. Ship. wt., 8 lbs. **\$8.25**

Socket Wrench Set 84C7468—Especially good for all styles of farm machinery, autos and general shop work. Heavy malleable iron, black finish. Set includes 1 ratchet handle, 9 in. long; 1 universal joint to reach cramped difficult places at any angle; 1 eight-inch extension 1 screw driver bit; 14 hexagon sockets to fit standard nuts ranging from 1/32 to 1 1/2 in. Hex. opening; six square sockets from 1/2 to 1 1/2 square opening. Hardwood case with compartment for each part. Ship. wt., about 10 lbs. Set complete **\$5.45**

Malleable Ratchet Wrench 84C7470—Length, 14 in. 6 sockets, fitting nuts, hex. or sq., on bolts, 3/8, 1/2, 3/4 in. Ship. wt., 5 lbs. Set **\$3.20**

84C7471—Length, 11 in. 10 sockets, for nuts on bolts, 1/4 to 3/4 in., hex. or sq. Ship. wt., 5 lbs. Set **\$2.95**



Stillson Pipe Wrench

84C7480—Stillson pipe wrenches popular for many years, with steamfitters, plumbers, automobilists, etc. A standard wrench, forged steel with tempered steel jaws. Always grips the pipe firmly without slipping, and without crushing. Releases its hold instantly.

Reversible Ratchet Socket Wrench Set convenient in places hard to reach with regular style wrench.

84C7470—Length, 14 in. 6 sockets, fitting nuts, hex. or sq., on bolts, 3/8, 1/2, 3/4 in. Ship. wt., 5 lbs. Set **\$3.20**

84C7471—Length, 11 in. 10 sockets, for nuts on bolts, 1/4 to 3/4 in., hex. or sq. Ship. wt., 5 lbs. Set **\$2.95**



84C7481—Sliding Jaws, Each **39c**

84C7482—Frames, Each **20c**

84C7483—Nuts, Each **9c**

Extra Parts for Stillson Wrenches. Shipping weight, 2 oz. to 3 lb.

For Wrench size, inches	6	8	10	14	18	24
84C7481—Sliding Jaws, Each	39c	42c	44c	59c	92c	\$1.18
84C7482—Frames, Each	20c	22c	26c	32c	39c	.49
84C7483—Nuts, Each	9c	12c	15c	22c	25c	.39

Armstrong Pattern Adjustable Pipe Stock and Dies

Armstrong Pattern. Adjustable dies to cut light or deep threads. A great advantage when threading pipe for worm fittings. Will do work quicker and with less exertion than other kinds of dies. Dies easily ground sharp on emery wheel or grindstone.

Cuts light or deep threads. Dies easily sharpened. Adjustable pipe stocks.

3/8, 7/8, 1, 1 1/8, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3, 3 1/2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100.

Size 2 Pipe Stock 84C7416—With 5 tempered steel 2-piece dies, cutting pipe threads 1/4 to 1 in., right-hand. Stock, 36 in. Ship. wt., 15 lbs. Set **\$8.70**

84C7417—Extra Pipe Dies 1/4 in. to 1 in. Ship. wt., 12 oz. (Give size.) Each **\$1.50**

84C7418—Bolt Dies for threading rods. Sizes, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1 in. (Give size.) **\$1.50**

84C7420—With 4 tempered steel, double-end, 2-piece dies, cutting pipe threads, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1 in., right-hand. Stock, 38 in. Ship. wt., 18 lbs. Set **\$10.25**

84C7421—Extra Dies. (Give size.) Each **\$2.60**

84C7423—With tempered steel 2-piece dies, cutting pipe threads, 1/4, 3/8, 1/2 and 2 in., right-hand. Stock, 54 in. Ship. wt., 26 lbs. Set **\$13.10**

84C7424—Extra Dies. Ship. wt., 2 1/2 lbs. (Give size.) Each **\$3.30**

Pipe Tool Set 84C7435—Often avoids the necessity of sending for a plumber or steam fitter, or shutting down a plant. In plain wooden box. Ship. wt., 35 lbs. Consists of the following high grade tools:

- 1 Pipe Stock No. 1, to thread 1/4, 3/8, 1/2, 5/8, 3/4, and 1 in. pipe.
- 1 Pipe Cutter, Three-wheel, No. 1 cuts 1/2 to 1 in. pipe.
- 1 Malleable Pipe Vise. Takes 1/2 to 2 in. pipe
- 1 Stillson Pipe Wrench, 10 in. Takes pipe 1/2 to 1 in.
- 1 Stillson Pipe Wrench 14 in. Takes pipe 3/4 to 1 1/2 in.
- 1 Steel Oil Can, copper plated.
- 1 Can Graphite Pipe Joint Cement.

Set **\$15.90**

Pipe Tool Set 84C7436—Will meet requirements of any ordinary shop. In plain wooden box. Ship. wt., 75 lbs. Consists of following tools all high grade:

- 1 Pipe Stock No. 1, to thread, 1/4, 3/8, 1/2, 5/8, 3/4, and 1 in. pipe.
- 1 Pipe Stock No. 2, to thread 1 1/2, 1 3/4 and 2 in. pipe.
- 1 Pipe Cutter, No. 2, three-wheel. Cuts 1/2 to 2 in. pipe.
- 1 Malleable Pipe Vise. Takes 1/2 to 3 1/2 in. pipe.
- 1 Stillson Pipe Wrench, 14 in. Takes pipe 3/4 to 1 1/2 in.
- 1 Stillson Pipe Wrench, 18 in. Takes pipe 1 to 2 in.
- 1 Steel Oil Can, copper plated.
- 1 Can Graphite Joint Cement.

Set **\$29.85**



Adjustable Wrench

84C7456—Easily and quickly adjusted. 6-inch takes any nut up to 3/4 inch and the 8-inch up to 1 inch. Malleable iron, with sliding and steel screw. Nicely finished and useful in many places inaccessible with the ordinary wrench. (Give size.)

Trade Size	Opens about	Ship. Weight	Each
6 in.	3/4 in.	3/4 lbs.	\$0.72
8 in.	1 in.	1 1/2 lbs.	1.08
10 in.	1 1/4 in.	2 lbs.	1.44
12 in.	1 3/4 in.	3 1/4 lbs.	1.80

Fine Steel S Wrench Set 84C7515—Set of 5 hand-milled steel wrenches with accurately milled opening. Lengths, from 6 1/2 to 10 1/2 in., with openings from 3/8 to 1 in. In handy canvas roll. Ship. wt., 3 lbs. **\$2.28**

Standard S Wrench Set 84C7516—Drop forged steel. Same sizes as above. Without the canvas roll. Set of 5 wrenches. **\$1.**

Thin S Wrenches 84C7520—Made of steel with thin bodies, easy to handle and light to carry in tool box. Takes nuts any size from 3/8 inch to 1 1/2 square. Set of 5 wrenches. Ship. wt., 2 lbs. **80c**

Double End Wrenches 84C7510—Drop forged steel, black finish.

Size	Length Inches	Size	Openings Inches	Ship. Weight	Each
21	3 1/4	3/16 and 1/32	4 oz.	1	
23	4	1/32 and 1/16	5 oz.	1	
25	4 1/2	1/16 and 1/8	6 oz.	1	
27	5 1/4	1/8 and 1/4	7 oz.	1	
29	6 1/2	1/4 and 3/8	8 oz.	1	
31	7 1/2	3/8 and 1/2	12 oz.	1	
33	8 1/2	1/2 and 3/4	16 oz.	1	
35	9 1/2	3/4 and 1 1/4	20 oz.	1	
37	11 1/2	1 1/4 and 1 1/2	2 1/2 lbs.	1	
39	13 1/2	1 1/2 and 1 3/4	3 1/2 lbs.	1	

Set of 5 Wrenches 84C7512—Lengths, 3 1/2 to 8 1/2 in., with openings 1/4 to 1 in. Ship. wt., of set, 1 1/4 lbs. **\$1.**

84C7513—Extra finish, with polished jaws. Set of 5 **\$1.**

84C7513—Semi-finished, mottled surface. Set of 5 **\$0.**

Roller Tube Expander 84C7550—For expanding the ends of boiler tubes. High grade steel boiler tube expands. Sizes indicate the outside diameter of the tube. (Not the inside diam.)

Size, in.	2 1/2	3	3 1/2	4 1/4	5
Ship. wt., lbs.	\$5.20	\$5.25	\$5.30	\$5.35	\$6

Size, in. 2 1/2 3 3 1/2 4 1/4 5

Ship. wt., lbs. 7 1/2 10 1/2 15 21

Each \$7.45 \$9.65 \$10.70 \$16

Standard Pipe Stock 84C7400—Steel and Dies Complete. For threading wrought pipe. Malleable iron stock, with hollow steel handles. Solid steel die finely tempered, require no adjustment, quick and easily interchanged for various size pipe. Clean true threads. No. 2 size has leader screw which is not necessary in smaller sizes. Pipe tap not included.

Dimensions of dies: No. 0—2x2x3/4 in. No. 1—2 1/4x2 1/4x3/4 in. No. 1 1/2 and 1 3/4—3x3x3/4 in. No. 2—4x4x3/4 in.

Size	Cuts Pipe, In.	Ship. wt., lbs.	Set
0	1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2	8	\$5.60
1	3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2	12	7.40
1 1/2	1, 1 1/4, 1 1/2, 1 3/4, 2	14 1/2	6.90
1 3/4	1 1/4, 1 1/2, 1 3/4, 2	15 1/2	6.90
2	1 1/2, 1 3/4, 2	24	10.50

Extra Dies and Guides 84C7401—Dies, 1 to 2 1/2 lbs.; guides, 4 to 10 c.

Fitting Stock No.	84C7401 Dies, Each	84C7402 Guides, Each
0	\$1.02	22c
1	1.16	30c
1 1/2	1.46	44c
1 3/4	1.50	48c
2	1.85	55c

Bull Dog Pipe Die 84C7412—The Oster Die Stock provides instant release of the dies without backing off.

The Dies are double taper, tempered steel, cutting a smooth, accurate thread. One set of dies cuts two sizes thread. The chuck has hardened steel jaws which center the pipe. (Pipe taps not included.)

Size	For Pipe, In.	Ship. Wt.	Each
101	1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2	12 lbs.	\$13.60
102	3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2	20 lbs.	17.80
103	1, 1 1/4, 1 1/2, 1 3/4, 2	28 lbs.	23.00
104	1 1/4, 1 1/2, 1 3/4, 2	30 lbs.	26.10
105	1 1/2, 2, 2 1/2, 3	65 lbs.	41.90

Easy Cutting—Accurate Threading Dies and Taps



Diamond Screw Plates
Cards Diamond Screw plates with round adjustable dies, plug taps and adjustable tap wrench. Complete in finished hardwood box.

84C7340—Set A with 5-in. stock. Cuts machine screw sizes, 4-36, 6-32, 8-32, 10-24, 12-24, 14-20. Tap wrench, length, 5 in. Has 6 dies and 6 taps. Ship. wt., about 1 lb. **\$6.75**

84C7342—Set B. Stock, length, 7 in. Tap wrench, length, 7 1/2 in. Has 6 dies and 6 taps. U. S. Standard threads, cutting as follows: #40 thread, #32 thread, #24 thread, #18 thread, #14 thread, #10 thread. Ship. wt., about 1 1/2 lbs. Set. **\$8.10**

84C7344—Set S. Stock, length, 7 in. Tap wrench, length, 7 1/2 in. Has 5 dies and 5 taps, cutting as follows: #72 thread, #40 thread, #24 thread, #18 thread, #14 thread. Ship. wt., about 1 1/2 lbs. Set. **\$7.65**



Card's Split Die Screw Plates
The dies are made in two parts, allowing a large range of sizes to be cut with one die. With taper taps. In a neat hardwood case. Dies and taps of special tool steel U. S. Standard threads.

84C7330—No. 2. Length, 1 1/2 in. 5 pair dies and 5 taps, cutting #4-20, #6-18, #8-16, #10-14, #12-13. Ship. wt., about 2 1/2 lbs. **\$8.95**

84C7331—No. 3D. Length, 1 1/2 in. 6 pair dies and 6 taps, cutting #4-20, #6-18, #8-16, #10-14, #12-13, #14-11. Ship. wt., about 4 1/2 lbs. **\$11.70**

84C7332—No. 4B. Length, 1 1/2 in. 7 dies and 7 taps, cutting #4-20, #6-18, #8-16, #10-14, #12-13, #14-11. Ship. wt., about 8 lbs. **\$16.65**



Champion Easy Screw Plates
In black leatherette rolls so they may be conveniently carried in auto tool boxes for roadside repairs. Furnished with adjustable dies, which make a perfect thread at a single cut. Plug taps and tap wrench.

184C7320—No. 115. S. A. E. (A. L. A. M. threads). Cuts 7 sizes as follows: #28, #16-24, #24, #16-20, #12-20, #10-18, #8-18 threads. Stock, 1 1/2 in. Ship. wt., 9 lbs. **\$17.65**

184C7321—No. 120. Especially adapted to Ford Model T Cars. Combination of S. A. E., U. S., and Machine Screw sizes. Cuts 16 sizes as follows: #28, #16-24, #12-20, #10-18, #8-18, #6-18, #4-20, #3-24, #2-28, #1-32, #1-20 threads and 1/4 in. pipe. Length of stock, 9 in. Ship. wt., 9 lbs. Set **\$20.95**

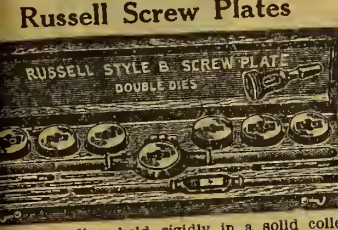


Card's Paragon Screw Plates
Adjustable square split dies. Beautifully mottled stocks, with hollow steel stocks, with taper taps and standard U. S. threads. With die stock and Horsefield adjustable tap wrench. In handsome wood case. Dies and taps of special tool steel.

184C7325—Set No. 502. Cuts 5 sizes as follows: #20, #16, #14, #12, #10 threads. 16 1/2 in. stock. Ship. wt., about 8 1/2 lbs. **\$16.65**

184C7326—Set No. 504. Cuts 7 sizes as follows: #20, #18, #16, #14, #12, #10, #8 threads. With 2 3/4 in. stock. Ship. wt., about 13 1/2 lbs. **\$24.75**

184C7327—Set No. 511. Cuts 9 sizes as follows: #20, #18, #16, #14, #12, #10, #8, #6, #4 threads. Has two die stocks, 16 and 30 in., and two adjustable tap wrenches. Ship. wt., 31 lbs. Set. **\$39.20**



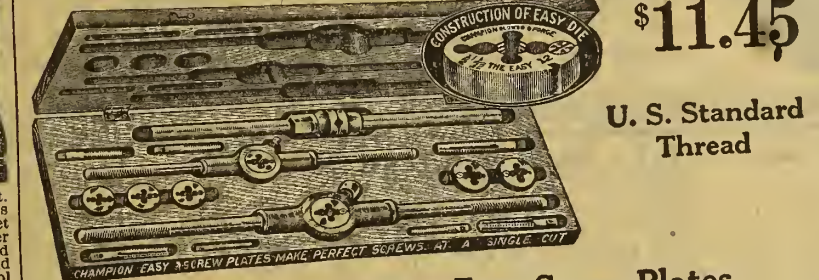
Russell Screw Plates
Two-piece dies, held rigidly in a solid collet. Adjustable by two set screws. Perfect threads in one cut. Zero marks on top of die and collet for perfect adjustment of each half. U. S. Standard dies and 2 3/4-in. collet. U. S. Standard die stock. With die stock, adjustable tap wrench, and brace holder. Dies and taps of special tool steel. In handsome wood case.

84C7310—Cuts 5 sizes: #20, #16, #14, #12, #10 threads. Ship. wt., about 1 1/2 lbs. **\$15.75**

84C7311—Cuts 5 sizes: #20, #16, #14, #12, #10 threads. Ship. wt., about 1 1/2 lbs. **\$19.35**

84C7312—Cuts 7 sizes: #20, #18, #16, #14, #12, #10, #8 threads. Ship. wt., about 16 lbs. **\$23.40**

84C7313—Cuts 9 sizes: #20, #18, #16, #14, #12, #10, #8, #6, #4 threads. Ship. wt., about 20 lbs. **\$35.80**



U. S. Standard Thread
Famous Champion Easy Screw Plates
Makes a perfect screw with a single cut. The dies are adjustable by means of a taper head screw, with a taper nut, making them perfectly rigid and solid. Material and workmanship are of the very best. Dies and taps of special tool steel, finely tempered. Complete in handsome wood box with taper taps. Each set has a Champion Adjustable Tap Wrench, with a square socket to fit the shank of each size tap in the set. Holds tap firmly and always in the center.

184C7301—No. 1B. Cuts 5 sizes as follows: #20, #16, #14, #12, #10, U. S. Standard threads. Length of stock, 16 in. Ship. wt., 7 1/2 lbs. **\$11.45**

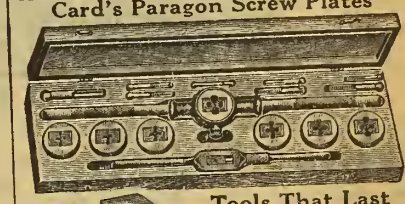
184C7302—No. 1 1/2 B. Cuts 5 sizes as follows: #20, #16, #14, #12, #10, U. S. Standard threads. Length of stock, 16 in. Ship. wt., 8 lbs. **\$11.90**

184C7304—No. 2B. Cuts 5 sizes as follows: #20, #16, #14, #12, #10, U. S. Standard threads. Has two stocks, one 15 1/2 in. and one 23 in. long. Shipping weight, 14 lbs. **\$15.25**

184C7305—No. 5B. Cuts 7 sizes as follows: #20, #18, #16, #14, #12, #10, #8 threads. With two stocks, sizes 16 and 23 in., and taper taps. U. S. Standard threads. Ship. wt., 16 lbs. **\$17.85**

184C7306—No. 7B. Cuts 9 sizes as follows: #20, #18, #16, #14, #12, #10, #8, #6, #4 threads. Has two stocks, one 16 in. and one 29 in. long. Ship. wt., 39 1/2 lbs. **\$26.35**

184C7307—No. 9B. Cuts 10 sizes as follows: #20, #18, #16, #14, #12, #10, #8, #6, #4, #3 threads. Has two stocks, one 16 1/2 in. and one 29 in. in length. Ship. wt., 40 lbs. **\$28.10**



Tools That Last a Lifetime
Adjustable square split dies. Beautifully mottled stocks, with hollow steel stocks, with taper taps and standard U. S. threads. With die stock and Horsefield adjustable tap wrench. In handsome wood case. Dies and taps of special tool steel.

184C7325—Set No. 502. Cuts 5 sizes as follows: #20, #16, #14, #12, #10 threads. 16 1/2 in. stock. Ship. wt., about 8 1/2 lbs. **\$16.65**

184C7326—Set No. 504. Cuts 7 sizes as follows: #20, #18, #16, #14, #12, #10, #8 threads. With 2 3/4 in. stock. Ship. wt., about 13 1/2 lbs. **\$24.75**

184C7327—Set No. 511. Cuts 9 sizes as follows: #20, #18, #16, #14, #12, #10, #8, #6, #4 threads. Has two die stocks, 16 and 30 in., and two adjustable tap wrenches. Ship. wt., 31 lbs. Set. **\$39.20**

Blacksmiths' Taper Taps
Extra quality steel. Easy cutting. Ship. wts., 1 to 14 oz. Always state number of threads to inch.

84C7364—Right hand threads only.

Size, in.	Threads to In.	Each
3/8	30, 32	\$0.28
1/2	24, 26	.29
5/8	18, 20, 24	.40
3/4	16, 18, 20	.44
7/8	14, 16, 18	.48
1	12, 14, 16	.56
1 1/8	10, 11, 12	.64
1 1/4	9, 10, 11	.76
1 1/2	8, 9, 10	.88
1 3/4	8	1.28
2	8	1.60

Easy Combination Auto and Repair Shop Screw Plate
184C7308—No. 11. With 10 dies and taps cutting both Standard U. S. threads and S. A. E. Automobile Standard threads. Cuts 5 sizes U. S. Standard: #20, #16, #14, #12, #10 threads, and 5 sizes S. A. E.: #28, #16-24, #12-20, #10-18 threads. Has one stock, length, 13 1/2 in. and an adjustable tap wrench. Complete in hardwood box with taps. A fine set for the garage or repair shop. Ship. wt., about 10 1/2 lbs. Set. **\$17.95**

Ford Auto Screw Plate
184C7338—Adapted to all of the moderate priced cars. Contains taps and dies for cutting threads on all the bolts and screws in the Ford and many other cars. Dies and taps of special tool steel. Cuts 7 sizes S. A. E. threads as follows: #28, #16-24, #12-20, #10-18, #8-16, #6-16, #4-20 threads and 1 1/2 in. tap wrench, seven plug hand taps, and seven 1 1/2 in. round adjustable dies with guides. In hardwood case. Ship. wt., about 9 1/2 lbs. Set. **\$14.40**

Machinists' Hand Taps
84C7365—Taper Tap.
84C7366—Plug Tap.

84C7367—Bottoming Tap. Exact sizes. All three styles at same price. Finest tempered steel. Patent relieved to facilitate cutting. Ship. wts., 1 to 14 oz. Always mention style wanted. (Right hand threads only.)

Size, in.	Threads to the Inch	Each
3/8	24, 32	\$0.23
1/2	20, 24, 32	.32
5/8	18, 20, 32	.35
3/4	16, 20, 32	.40
7/8	14, 24	.48
1	12, 13, 24	.56
1 1/8	11, 12	.66
1 1/4	10, 12	.76
1 1/2	9, 12	.88
1 3/4	8, 12	1.28
2	8	1.60

Blacksmith's Stocks and Dies
Our Blacksmith's Stocks and Dies are made by one of the oldest and best manufacturers in the country, and exactly as represented. The stocks are all full polished, nicely finished, and each set is packed complete in a box. The Dies and Taps are made from a high-grade special steel, all carefully hardened and tempered.

Please Note:—We can furnish these stocks and dies in Sizes, Threads and Assortments only as listed.

Article Number	Cuts to Inch	Threads to Inch Right Hand	Taps in Set	No. Dies in Set	Factory No.	Ship. Wt., Pounds	Per Set
84C7350	1/2 to 3/4	18, 24, 32	4	4	53	1 1/2	\$2.95
84C7351	3/4 to 1	16, 20, 24, 32	4	4	55	1 1/2	3.30
84C7352	1 to 1 1/8	16, 20, 26	6	3	41	3	3.90
84C7353	1 1/8 to 1 1/4	12, 14, 16	6	3	41C	3	3.90
84C7354	1 1/4 to 1 1/2	12, 14, 16	6	3	37C	4	5.10
84C7355	1 1/2 to 1 3/4	10, 12, 14, 16	4	4	32B	5	5.95
84C7356	1 3/4 to 2	10, 12, 16	3	3	23A	7 1/2	5.95
84C7357	2 to 2 1/4	8, 10, 12	3	3	60	5	7.80
84C7358	2 1/4 to 2 1/2	10, 12, 14, 18	4	4	19B	10	10.80
84C7359	2 1/2 to 2 3/4	8, 9, 10, 11	4	4			

Steel Wire Flue Brushes
84C7560—For cleaning boiler flues. Length, about 8 in. Ship. wt., 6 to 16 oz.

Note: Give the outside diameter of tube (not inside diam.). Boiler tubes always measured outside diam.

Size	Each	Size	Each
1 1/2	\$0.92	3	\$1.58
2	.95	3 1/2	1.83
2 1/2	1.18	4	2.10
3	1.31		

Engineer's Favorite Flue Scraper
84C7562—Quickly and easily cuts the scale from inside of boiler flues. Turning handle controls ends until they fit snugly. Give outside diam. of flue (not inside diam.). Ship. wt., 1 1/2 to 4 lbs.

Size	Each	Size	Each
1 1/2	\$1.20	2 1/2	\$2.00
1 3/4	1.25	3	2.40
2	1.35	3 1/2	2.40
2 1/2	1.60	4	3.20
3	1.85		

Heavy Wrecking Bar
A Handy Bar for Ripping Shingles, Opening Boxes, Pulling Nails, etc. and a powerful Strong wedge point at one end, and a powerful claw at other end. Forged from 1/2-in. octagon steel.

184C2386—Length, 24 in. A convenient size for the carpenter, plumber, teamster, etc. Ship. wt., 4 lbs. **48c**

184C2387—Length, 30 in. A large heavy tool for farmers, carpenters, etc. Ship. wt., 5 lbs. **53c**

Light Wrecking Bar
84C2389—Convenient for opening boxes, crates, etc. Forged from 1/2-in. octagon steel. Length, 12 in. Ship. wt., 1/2 lb. **33c**

End Burring Reamers
Extra quality steel. For reaming pipe. Bit brace shank.

84C7373—For pipe 1/2 to 1 in. Tapers from 1 1/4 in. to 1 in. at point. Length of flute, 1 1/2 in. Ship. wt., 8 oz. **\$1.20**

84C7379—For pipe 1/2 to 1 1/4 inch. Tapers from 1 1/2 in. to 1/2 in. at point. Length of flute, 2 1/4 in. Ship. wt., 10 oz. **\$1.45**

Stove Bolt Taps
84C7370

Size, in.	Thread	Each
1/4	24	24c
3/8	18	28c
1/2	16	30c
5/8	14	32c

Pipe Taps
84C7374—With standard pipe threads. Right hand. Best grade tool steel. Made in sizes to correspond with pipe measurements, that is, a 1/2 tap will thread a fitting or opening taking pipe measuring 1/2 in. inside diameter. Ship. weights range from 4 oz. to 4 1/2 lbs.

Size	Each	Size	Each
1/2	48c	3/4	57c
5/8	76c	1	95c
3/4	95c	1 1/4	\$1.32
1	1.15	1 1/2	1.32
1 1/4	1.32	1 3/4	1.45
1 1/2	1.45	2	1.75

Ratchet Tap Holder
84C7382—Excellent for hand use with small drills, taps, reamers, etc. Reversible ratchet. Two-jawed chuck holds 0 to 3/2 in. Polished steel, with polished hardwood handle. Length, about 5 in. Ship. wt., 6 oz. Each. **\$1.60**

Forged Steel Tap Wrench
Steel handles. Tempered steel jaws. For holding various size Taps. To adjust, turn knurled part of handle. Finely polished.

84C7390—Length, 11 in. For taps 1/2 to 1/2 in. Ship. wt., 1 lb. **\$2.40**

84C7391—Length, 15 in. For taps 3/4 to 3/4 in. Ship. wt., 2 lb. **\$2.95**

84C7392—Length, 20 in. For taps 1 to 1 in. Ship. wt., 3 1/2 lbs. **\$4.20**

Perfection Flue Cleaner
84C7564—Spring steel blades. Automatically clings tight to inside of boiler flue, quickly cutting away soot and scale. Self-sharpening. Ship. wt., 1 to 9 lbs. Give outside diam. of tube (not inside).

Size	Each	Size	Each
1 1/2	\$1.20	2 1/2	\$2.00
1 3/4	1.25	3	2.40
2	1.35	3 1/2	2.40
2 1/2	1.60	4	3.20
3	1.85		

Boiler Makers' Beading Tool
84C7556—For beading ends of boiler flues after they are expanded. Forged steel, tempered oil finish. Ship. wt., 1 1/2 lbs. **95c**

Stone Sledges
184C6220—Tempered steel, oil finish. Without handles. Ship. wt., 9 to 13 lbs.

Lbs.	8	10	12	14	16
Each	\$1.28	\$1.60	\$1.92	\$2.24	\$2.56

Sledge Handles
184C6221—Selected hickory. Lgth. 36 in. Ship. wt., 1 1/2 lbs. **34c**

Common Cold Chisels
84C7070—Standard Cold Chisel, forged from octagon steel. Oil finish. Lengths, average 6 to 9 in. Width may vary slightly.

Width, edge, in.	1/2	3/4	1
Diam. body, in.	3/8	1/2	5/8
Ship. wt., oz.	6	16	26
Each	14c	32c	48c

Lakeside Cold Chisels
84C7072—Lakeside High Grade Cold Chisels. Best quality octagon tool steel, finely tempered and nicely finished. Ground sharp. Length, av. 5 to 8 in.

Width, edge, in.	1/2	3/4	1
Diam. body, in.	3/8	1/2	5/8
Ship. wt., oz.	6	8	14
Each	24c	33c	64c

Sharp-En-Ezy Cold Chisels
84C7074—Forged steel, ground sharp and tempered. Has a narrow cutting bit, and the fluted handle affords an easy grip. Lgths, average 6 to 7 in.

Width, edge, in.	1/2	3/4	1
Diam. body, in.	3/8	1/2	5/8
Ship. wt., oz.	6	8	10
Each	18c	24c	35c

Sharp-En-Ezy Cape Chisels
84C7075—Drop forged tempered steel with fluted handle. Affording an easy grip. Length, about 6 1/2 in. (Give size.)

Width, edge, in.	1/2	3/4	1
Diam. body, in.	3/8	1/2	5/8
Ship. wt., oz.	6	8	10
Each	19c	25c	35c

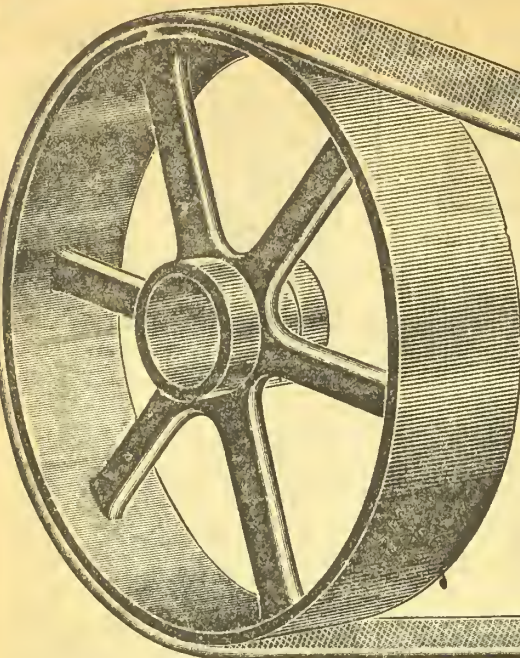
Sharp-En-Ezy Hand Pencils
84C7078—Drop forged steel tempered. Fluted handle, affords secure grip. Round points, with long taper; ground true and polished. Length, about 6 1/2 in.

Diam. point, in.	3/16	1/4	5/16
Diam. body, in.	3/8	1/2	5/8
Ship. wt., oz.	6	8	10
Each	19c	25c	35c

Round Hand Punch
84C7079—Made of octagon tool steel, oil finished points. Accurately ground and polished. Length about 10 inches.

Diam. point, in.	3/16	1/4	5/16
Diam. body, in.	3/8	1/2	5/8
Ship. wt., oz.	14	16	24
Each	28c	30c	35c

RUBBER, LEATHER AND CANVAS BELTING

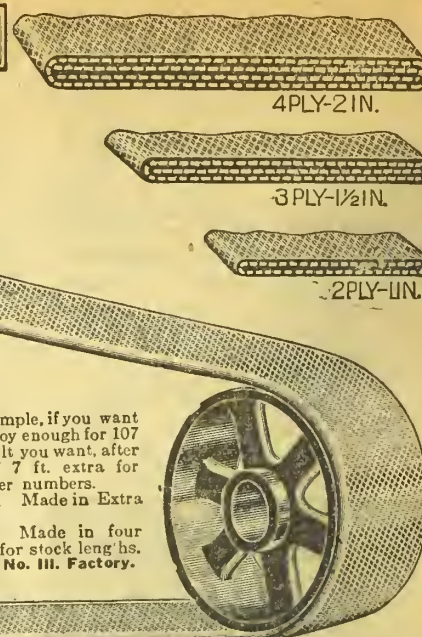


Rubber Belting

Three Good Grades
Standard Gauge. Our Standard grade is a very good quality, and gives good satisfaction on light farm machinery, etc.
Extra Standard. Our Extra Standard Belt is suitable for all kinds of hard service, and represents extra good value at our low price.
Red Man Friction. Our "Red Man" Friction four-ply Belt is the very highest grade. See full description below.

Special Endless Belts

Canvas and Rubber
 Made to order only and requires two or three weeks to make at the factory. Include the price of seven feet of the belt for the cost of making the lap. For example, if you want an endless belt 100 feet long, send money enough for 107 feet. Be sure to give the net length of belt you want, after being made endless, and allow price of 7 ft. extra for making the lap. Use the following order numbers.
284C7681—Endless Rubber Belts. Made in Extra Standard grade only.
284C7693—Endless Canvas Belts. Made in four or six-ply. See 184C7700 and 184C7702 for stock lengths.
Special Endless Belts are shipped from No. III. Factory.
 Below Subject to Market Changes



Standard Grade Rubber Belting

84C7680—2-Ply. Ship. wt., ft., 5 to 9 oz.					
Width, inches	1 1/4	1 1/2	1 3/4	2	2 1/4
Foot	8 1/2 c	11 1/2 c	13 1/2 c	17 c	21 c
Width, inches	2 1/2	3	3 1/2	4	4 1/2
Foot	21 c	24 c	28 c	30 c	34 c
84C7681—3-Ply. Ship. wt., ft., 8 to 18 oz.					
Width, inches	1 1/2	2	2 1/2	3	3 1/2
Foot	15 1/2 c	19 1/2 c	24 c	27 c	31 c
Width, inches	3	3 1/2	4	4 1/2	5
Foot	32 c	35 c	43 c	52 c	58 c
84C7682—4-Ply. Ship. wt., ft., 10 to 30 oz.					
Width, inches	3	3 1/2	4	4 1/2	5
Foot	33 c	38 c	41 c	46 c	52 c
Width, inches	5	6	7	8	9
Foot	52 c	60 c	71 c	77 c	86 c
Width, inches	8	9	10	12	14
Foot	86 c	96 c	\$1.15		

Extra Standard Grade Rubber Belting

84C7683—2-Ply. Ship. wt., ft., 5 to 10 oz.					
Width, inches	1 1/4	1 1/2	1 3/4	2	2 1/4
Foot	11 c	14 c	16 c	20 c	24 c
Width, inches	2 1/2	3	3 1/2	4	4 1/2
Foot	25 1/2 c	29 c	34 1/2 c	37 c	41 c
84C7684—3-Ply. Ship. wt., 8 to 20 oz.					
Width, inches	1 1/2	2	2 1/2	3	3 1/2
Foot	18 1/2 c	23 1/2 c	29 c	33 c	38 c
Width, inches	3	3 1/2	4	4 1/2	5
Foot	39 c	42 c	52 c	58 c	64 c
Width, inches	5	6	7	8	9
Foot	62 c	72 c	84 c	90 c	98 c
84C7685—4-Ply. Ship. wt., 12 to 36 oz.					
Width, inches	3	3 1/2	4	4 1/2	5
Foot	33 c	46 c	49 c	55 c	62 c
Width, inches	5	6	7	8	9
Foot	63 c	72 c	84 c	90 c	98 c
Width, inches	8	9	10	12	14
Foot	\$1.02	\$1.14	\$1.38		

Red Friction Surface Rubber Belting

Our "Red-Man" brand is the very highest grade of rubber belting. Use this belt for heavy duty, high speeds and on small diameter pulleys and you will get longer, better and more economical service than from any other kind of belting. The belting is red in color to distinguish it from ordinary belting and is sold with our full guarantee to give entire satisfaction under the most severe usage. It is constructed of a tough and closely woven cotton duck, with a high grade friction between the plies and a friction surface which absolutely takes hold of the pulleys with a full contact from edge to edge. The friction compound is forced into the fabric under great pressure, the plies will not separate, and all the undesirable stretch is taken out of the belt.
84C7694—Four-ply.
 Width, inches..... 2 3 4 5
 Weight, foot, about..... 2 oz. 6 oz. 7 oz. 8 oz.
 Price, foot..... 35 c 50 c 64 c 79 c
 Width, inches..... 6 7 8 10
 Weight, foot, about..... 10 oz. 12 oz. 14 oz. 16 oz.
 Price, foot..... 93 c \$1.08 \$1.16 \$1.47

Endless Canvas Thresher Belts

Made from strong, heavy cotton duck, saturated in vegetable oil and closely stitched in one piece under heavy tension, which thoroughly stretches the belt. Excellent red non-slipping surface. Not affected by water, heat, steam or atmospheric changes. Especially adapted for threshers, saw mills, stone quarries, and similar severe uses. It requires three feet to make the lap, therefore, each belt will measure just three feet short. For example, the actual net length of a 100-ft. belt will be 97 ft. We carry in stock for prompt shipment, the following standard lengths and sizes.

Prices subject to change.

184C7700—Four-Ply Belts.
 Ship. wt., per foot; 6 in., 11 oz.; 7 in., 12 oz.; 8 in., 14 oz.

Width	50-ft. Length	75-ft. Length	100-ft. Length	125-ft. Length	150-ft. Length
6 in.	\$34.20	\$49.80	\$66.00	\$81.60	\$101.00
7 in.	39.00	57.00	75.00	93.00	115.00
8 in.	43.80	64.20	84.60	105.00	125.40

184C7702—Five-Ply Belts.

Width	Ship. Wt. Foot	125-ft. Length	150-ft. Length	160-ft. Length
7 in.	14 oz.	\$116.40	\$138.60	
8 in.	16 oz.	130.80	156.60	\$166.20

Red Stitched Canvas Belting

High Grade—Full Weight.
 Our Stitched Canvas Belting is unaffected by atmospheric changes, uninjured by water or steam, and may be subjected to a degree of heat that would be ruinous to other kinds of belting. It is therefore the best belting for outdoor use and for damp or hot places. Made of long fibre cotton duck, carefully and closely stitched. Thoroughly stretched and inspected. Thoroughly saturated in oil, which makes it permanently water-proof and flexible. Covered with a special red paint which gives the belt an excellent, non-slipping surface. Always remains flexible in hot or cold weather.

Prices subject to change.

84C7690—Four-Ply Belting.
 Ship. wt., per ft., 2 to 17 oz.
 Width, inches..... 1 1/2 2 2 1/2 3
 Per foot..... 18 1/2 c 24 c 30 c 36 c
 Foot..... 34 1/2 c 46 c 56 c 66 c
 Width, inches..... 4 5 6 7
 Foot..... 40 c 46 c 56 c 66 c
 Width, inches..... 8 9 10 12
 Foot..... 93 c \$1.00 \$1.25

84C7692—Six-Ply Belting.
 Ship. wt., per ft., 6 to 25 oz.
 Width, inches..... 3 4 5
 Foot..... \$0.54 \$0.68 \$0.82
 Width, inches..... 6 7 8
 Foot..... .94 1.12 1.25
 Width, inches..... 9 10 12
 Foot..... 1.38 1.50 1.88

Leather Belting

Two Good Grades.
Standard Grade is a good medium quality. Will give good satisfaction. For ordinary mill, factory and farm machinery.
Extra Standard Grade is made from selected, short lap, oak tanned stock, cut from the center of the hide. Recommended for threshers belts, high speed pulleys, and for hard factory or mill usage.
 If belts are wanted, endless, state actual length of belt wanted after applied, and allow price of 3 ft. of belt extra for lap and labor of applying.
Notice—Do not run leather belts in very damp or wet places, but use rubber or stitched canvas belting under such conditions. Prices subject to change.

84C7704—Standard Grade.
 Ship. wt., per foot, about 5 to 10 oz.
 Width, in..... 1 1/2 1 3/4 1 3/8 2
 Per foot..... 16 c 20 c 24 c 28 1/2 c 32 1/2 c
 Foot..... 24 1/2 c 28 1/2 c 33 1/2 c 38 1/2 c 43 1/2 c
84C7705—Extra Standard Grade.
 Ship. wt., per foot, about 5 to 18 oz.
 Width, in..... 1 1/2 1 3/4 1 3/8 2
 Per foot..... 19 c 24 c 29 c 34 c 43 c
 Width, in..... 2 1/2 2 3/4 3 3/4 4
 Per foot..... 24 c 48 c 58 c 67 c 77 c
 Width, in..... 5 6 8 10
 Foot..... 88 c 96 c \$1.05 \$1.12 \$1.35 \$1.52

Smoky City Packing

84C7782—Made of all cotton stock, well lubricated with graphite compound. Has an elastic rectangular center of pure rubber. For steam use. Feet in a lb., 21, 11, 6. Sizes, 1/4, 3/8, 1/2 in. Oval shape. Give size.
 Pound..... 65c

Square Jute Packing

84C7780—Long Johns jute. Well lubricated. Used in pumps and hydraulic elevators. Sizes, 1/4, 3/8, 1/2 in. Ft. in a lb., 36, 18, 10 and 4. Give size.
 Pound..... 58c

Hemp Packing

84C7794—Used in stuffing box heads in pumps, etc. Size 1 in. Four feet to lb.
 Pound..... 38c

Asbestos Wick Packing

84C7796—Made in following sizes: 1/4, 3/8, 1/2 in. Give size. Feet in lb., 5 to 7.
 Price, pound..... 85c

Red and Black Asbestos

84C7790—Made of pure asbestos, with a fine copper wire insertion. For gas engines, automobiles, etc. Surfaced with a high heat-resisting compound, red on one side and black on the other. In rolls 39 inches wide. We do not cut rolls lengthwise but will furnish any quantity 39 in. wide. Thickness, 1/4 in. Price, per lineal foot 39 in. wide, (wt. 1 1/4 lbs.)
 Per lineal foot..... \$1.95

Red Rubber Packing

84C7788—Will not barden under extreme heat. In rolls 36 in. wide. We do not cut rolls lengthwise, but can furnish any quantity 1 yd. wide. Thickness, 1/4, 3/8, 1/2 and 3/4 in. State size wanted. Ship. wt., per square yard, 3 to 24 lbs.
 Price, pound..... 44c

Cotton Waste Machinery Waste

In handy 5 and 10-lb. packages. Prices subject to market changes.
84C7800—Colored. No. 2 grade. 5-lb. pkg. \$0.85
84C7801—White. No. 1 grade. 5-lb. package..... \$1.10
 10-lb. package..... 2.10

Chrome Cut Lace

84C7724—Same quality as side lace leather listed opposite. In full bundles of 50 lineal feet.
 Width, in..... 1/2 3/4 1
 Shlp. wt., oz..... 6 7 8
 Bundle..... 45 c 55 c 65 c
 Width, in..... 1 1 1/2 2
 Shlp. wt., oz..... 8 10 12
 Bundle..... 63 c 84 c 96 c
 Width, in..... 2 2 1/2 3
 Shlp. wt., oz..... 12 15 18
 Bundle..... \$1.05 \$1.35 \$1.65

84C7725—Assorted pkg. of 50 ft. Bundle..... 65c

Wire Belt Lacing

84C7731—Soft strong composition wire. For high speed, heavy duty belts. In coils of about 50 ft. Ship. wt., about 6 oz. Size 1. For belts 3 to 1 to 6 in. Coil \$34c
 Size 2. For belts 6 to 20 inches. Coll..... 38c

Belt Lace Cutter

84C7730—Cast iron frame. Steel knife. For cutting leather into strips. Adjustable to various widths. Ship. wt., 6 oz. Each..... 39c

Steel Clinch Belt Hooks

Made of best annealed steel wire. Will not break in clinching. For leather, rubber or canvas belting. In boxes containing 200 hooks.

Article Number	Size	Prong Length	Length	Shlp. wt.	Box of 200
84C7750	0	1/2 in.	3/4 in.	7 oz.	28c
84C7751	1	3/4 in.	1 in.	10 oz.	28c
84C7752	2	1 in.	1 in.	1 lb.	28c
84C7753	3	3/4 in.	1 in.	1 1/2 lb.	28c

Chrome Side Lace

84C7726—Extra strong and durable. Soft and pliable. Not affected by heat, water or acid. Can supply only in full sides.
 Prices subject to change.

Trade size	Ship. wt. about	Sides
8 sq. ft.	2 lbs.	\$2.45
10 sq. ft.	2 1/2 lbs.	3.10
12 sq. ft.	3 lbs.	3.70

Steel Belt Lacing

84C7734—Strong and quickly clinched. In boxes of 100 lineal in. Assorted lengths, 1/4 to 2 1/4 in. Ship. wt., 2 to 4 lbs.
 Size 1. For single leather belts. Width, 3/4 in. Box..... \$1.20
 Size 11. For 3-ply rubber belts. Width, 3/4 in. Box..... \$1.30
 Size 12. For 4-ply belts. Width, 1 1/4 in. Box..... 1.75
 Size 14. For 5-ply belts. Width, 1 1/4 in. Box..... 2.60

Canvas Pulley Covering

Can be applied to any pulley and effectually prevents the belt from slipping. Will last for many years. Each box contains complete instructions in wooden box and consists of canvas cement for applying, brush for cleaning pulley, brush and scraper for applying the cover.
84C7760—For 10 square feet pulley surface. Ship. wt., 6 pounds. Price..... \$4.75
84C7761—For 20 sq. ft. pulley surface. Ship. wt., 12 pounds. Price..... \$8.90

Speed Indicators

84C1862—Goodell-Pratt's make. Has two dials. One records the units, one the hundreds. Dial for hundreds has friction ratchet and is quickly reset. Double end spindle. Handle slips on either end for right or left hand shafts. Steel, nickel-plated. Two rubber tips. Ship. wt., 12 oz. Each..... \$2.48

Steel Scraping Tools

84C7767—For scraping valves, habbit metal, journals, bearings, etc. Set of six tools. Made of tool steel, carefully formed, tempered and polished in convenient hard wood case. Lengths, 10 1/4 to 17 1/4 in. Ship. wt., about 7 pounds.
 Set of six tools..... \$4.20

Steel Packing Tools

84C7785—Nickel Plated tempered steel. Will go in any valve rod, pump, or engine stuffing box. Assorted lengths, 6 1/2 to 18 inches. Ship. wt., 2 1/4 pounds.
 Set of six tools..... \$2.95

Lakeside Belt Dressing

84C7710—Suitable for all kinds of belts. Insures better traction, prevents slipping and allows the belt to be run "slack" thus increasing the arc of pulley contact. Applied to the moving belt. Contains nothing injurious. In 1 lb. paper covered sticks. Each..... 24c

Leather Belt Cement

84C7745—Choice Quality. For repairing leather belts, making endless, etc. To be heated in double vessel until thin, and applied to the surface of the leather. Leather should first be washed with hot water. In 1-lb. can with directions. Each..... 68c

Liquid Belt Dressing


A liquid dressing used by many of the largest manufacturers. Will put new life in belting, make it soft and pliable and prevent slipping. Gives satisfaction. Ship. wt., per can, 3 lbs.
 Three kinds—all the same price.
84C7712—For Leather Belts.
84C7713—For Canvas Belts.
84C7714—For Rubber Belts.
 1 quart can..... 95c

Tallying Register or Counting Machine

84C1855—Tallies from 1 to 1,000 by pressing with the thumb. Can be set at zero at will. Used for checking telegraph poles, passengers, freight, cattle, etc. Glass dial. Nickel-plated. Ship. wt. about 6 ounces.
 Each..... \$2.98

Engine Accessories of Interest to Practical Engineers


Hancock Inspirators



31C5583—Works with low or high steam on all lifts up to 25 ft. and when taking water under a head with hot as well as cold feed water. It requires no adjustment for varying steam pressure. Water can be elevated about 2½ ft. for each pound of steam.

With 45 lb. steam pressure, water can be lifted 25 ft. and elevated 112½ ft. above the inspirator. Cast brass nicely finished. Ship. wts., 4 to 13 lbs. Give size.

H. D. Ejector or Jet Pump




31C5579—For water and liquids in mines, pits, wells, tanneries, etc. Adapted as a bilge pump for steamboats. Solid brass.

Will lift 24 ft. with 65 lbs. steam will elevate 50 to 60 ft. with 100 lbs. 70 to 80 ft. Ship. wts., 1 to 7 lbs.

Mfrs. Size	Connections	Suct'n Deliv.	Capacity per Hr. Gallons	Each
1	1/2"	1/2"	250	\$2.45
2	3/4"	3/4"	500	3.70
3	1"	1"	900	6.10
4	1 1/4"	1 1/4"	1,300	7.50
5	1 1/2"	1 1/2"	2,000	7.75

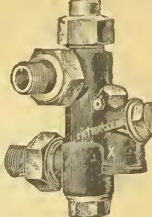
Metropolitan Injectors Model N



31C5582—It lifts the water and discharges it into the boiler without waste at the overflow. Feeds steadily without adjustment. Operated entirely by one handle. Ship. wt. 3½ to 11 lbs.

Mfrs. Size	Price, Each	Size of all pipe connections	Size of overflow or waste pipe	Capacity per Hr. lbs. steam	H. P. or boiler, per H.P.
3	\$9.00	3/4"	3/4"	60	4-6
4	10.60	1"	1"	80	6-8
5	10.80	1 1/4"	1 1/4"	120	8-12
6	14.00	1 1/2"	1 1/2"	165	15-20
7	14.00	2"	2"	250	20-30
8	16.75	2 1/2"	2 1/2"	350	30-45

Metropolitan Injectors Model X

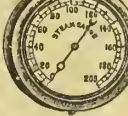


31C5581—Will start instantly after interruption to steam or water supply. Will start at 20 pounds and work to 120 pounds. Will lift water 20 feet with 80 lbs. of steam and will handle hot water as high as 130 degrees F. Takes same pipe connections as Penberthy, U. S. and other injectors of this type. Ship. wt., 3 to 9 lbs.

Mfrs. Size	Price, Each	All pipe connections, size, inches	Capacity per Hr. lbs. steam	H. P. for boiler, ordinary rating, per H.P.	H. P. on a basis of 30 lbs. water, per hour
20	\$6.95	3/4"	60	2-6	4-8
30	7.30	1"	80	4-6	6-12
35	8.20	1 1/4"	140	8-16	12-20
40	9.10	1 1/2"	190	16-23	20-30
50	11.35	2"	270	23-33	30-45
60	13.10	2 1/4"	370	30-43	45-60
70	13.10	2 1/2"	490	45-65	60-80
80	20.45	3"	620	65-80	80-110

Mfrs. Size	Price, Each	Steam Pipe Size	Suct'n Deliv. Size	Overflow Size	Gals. per Hr. 60 lbs. steam	H. P. for Boiler	Ordin. Rating, per H.P.
7 1/2"	\$9.00	3/4"	3/4"	3/4"	60	4-6	6-12
8 1/2"	10.40	1"	1"	1"	90	6-8	12-20
10"	11.40	1 1/4"	1 1/4"	1 1/4"	120	8-15	20-30
12 1/2"	13.10	1 1/2"	1 1/2"	1 1/2"	220	15-30	30-45
15 1/2"	15.10	2"	2"	2"	300	30-40	45-60
17 1/2"	17.10	2 1/4"	2 1/4"	2 1/4"	420	40-60	60-80
20"	25.85	2 1/2"	2 1/2"	2 1/2"	540	60-75	80-110


Steam Gauges



31C5550—High-grade Steam Gauge, Japanese case. For stationary engines. Registers up to 200 lbs. With brass cock. Pipe size, 1/4 in.

Mfrs. Size	Shp. Wt.	Each
3 1/2 in.	2 lbs.	\$3.15
3 lbs.	3 lbs.	3.50
5 in.	4 lbs.	3.50

Farm Engine Gauge



31C5552—Special gauge for traction and farm engines, with auxiliary spring. Size, 4 1/2 in., with brass cock, 3/4 in. pipe size. Japanese case. Registers 300 lbs. Ship. wt., 4 lbs.

Each.....\$5.30

Always use a Syphon with steam gauges.

Gauge Glasses

For water gauges. High quality glass. Prices subject to market changes. Ship. wt., doz.

Mfrs. Size	Price, Each	All pipe connections, size, inches	Capacity per Hr. lbs. steam	H. P. for boiler, ordinary rating, per H.P.	H. P. on a basis of 30 lbs. water, per hour
20	\$6.95	3/4"	60	2-6	4-8
30	7.30	1"	80	4-6	6-12
35	8.20	1 1/4"	140	8-16	12-20
40	9.10	1 1/2"	190	16-23	20-30
50	11.35	2"	270	23-33	30-45
60	13.10	2 1/4"	370	30-43	45-60
70	13.10	2 1/2"	490	45-65	60-80
80	20.45	3"	620	65-80	80-110

Water Gauges

31C5562—Complete with solid brass body, iron wheels. Scotch glass tube and two guards to protect glass. Ship. wt., 3 1/4 lbs.

Pipe size, 1/2 in. Size glass, 1/2 in. \$2.98

Pipe size, 3/4 in. Size glass, 3/4 in. \$3.05

Polished Brass

31C5563—Extra quality. Ship. wt., 3 1/4 lbs.

Pipe size, 1/2 in. Size glass, 1/2 in. \$3.60

Pipe size, 3/4 in. Size glass, 3/4 in. \$3.77

31C5564—Extra quality. Ship. wt., 4 lbs.

Pipe size, 1/2 in. Size glass, 1/2 in. \$4.80

Rubber Gauge Gaskets

31C5574—For gauge glasses. Ship. wt., doz., 3 oz.

Size, in. 1/2 3/4 1 1 1/2 2

Doz.....11c 13c 15c

Gauge Glasses

For water gauges. High quality glass. Prices subject to market changes. Ship. wt., doz.

Mfrs. Size	Price, Each	All pipe connections, size, inches	Capacity per Hr. lbs. steam	H. P. for boiler, ordinary rating, per H.P.	H. P. on a basis of 30 lbs. water, per hour
20	\$6.95	3/4"	60	2-6	4-8
30	7.30	1"	80	4-6	6-12
35	8.20	1 1/4"	140	8-16	12-20
40	9.10	1 1/2"	190	16-23	20-30
50	11.35	2"	270	23-33	30-45
60	13.10	2 1/4"	370	30-43	45-60
70	13.10	2 1/2"	490	45-65	60-80
80	20.45	3"	620	65-80	80-110

Steam Whistle with Valve

31C5540—Solid brass with polished bell. Heavy cast. Ship. wt., 1 1/2 to 11 lbs.

Diam. of Bell, in.	Size of Pipe, in.	Height Above Inlet, inches	Each
1 1/2"	1/2"	6 1/2"	\$2.30
2"	3/4"	8 1/2"	2.85
2 1/2"	1"	10 1/2"	3.40
3"	1 1/4"	12 1/2"	4.00
3 1/2"	1 1/2"	14 1/2"	4.60
4"	1 3/4"	16 1/2"	5.20
4 1/2"	2"	18 1/2"	5.80

Chime Steam Whistle

31C5542—More penetrating than the common whistle. It produces three distinct harmonious tones, solid brass with brass valve. Ship. wt., 2 1/2 to 10 1/2 lbs.

Diam. of Bell, in.	Size of Pipe, in.	Average Height, in.	Each
1 1/2"	1/2"	8 1/2"	\$6.95
2"	3/4"	10 1/2"	7.50
2 1/2"	1"	12 1/2"	8.10
3"	1 1/4"	14 1/2"	8.70
3 1/2"	1 1/2"	16 1/2"	9.30
4"	1 3/4"	18 1/2"	9.90

Pop Safety Valves

31C5545—High Pressure Valves. Polished brass. Cannot be easily tampered with. Conform to the requirements of the American Society of Mechanical Engineers. Each valve is carefully tested and set to blow off at 100 lbs.

Pipe Size	For Horse Power	Shp. wt. lbs.	Each
1/2"	Under 5	1 1/2"	\$4.95
3/4"	5 to 10	1 3/4"	6.20
1"	10 to 20	2"	7.10
1 1/4"	20 to 30	2 1/4"	9.00
1 1/2"	30 to 40	2 1/2"	13.40

Water Relief Valves

31C5548—Made of bronze. Hand wheel adjustment for regulating the pressure at which valve opens automatically. Used on steam pumps, pipe lines, steam cylinders, spray pumps, etc. Has a big relieving capacity. Simple and durable. Set at factory to blow off at 100 lbs. Can be adjusted to other pressures.

Pipe Size, in.	Shp. wt., lbs.	Each
1/2"	2 1/2"	\$4.95
3/4"	3"	\$5.90
1"	3 1/2"	\$7.35

Brass Globe Valves

31C5400—Ground valve disc and seat. Tight fitting.

Pipe in.	Shp. wt. lbs.	Each
1/2"	5c	
3/4"	6c	
1"	7c	
1 1/4"	9c	
1 1/2"	10c	
2"	14c	
2 1/2"	19c	
3"	24c	
3 1/2"	31c	
4"	38c	
4 1/2"	45c	
5"	52c	
6"	69c	
8"	93c	
10"	120c	
12"	156c	

Check Valves

31C5408—All brass. Used in horizontal position only.

Pipe, inches	Shp. wt., lbs.	Each
1/2"	55c	
3/4"	58c	
1"	60c	
1 1/4"	77c	
1 1/2"	96c	

Square Head Brass Steam Cock

31C5416—All brass tight fitting ground key.

Pipe, in.	Shp. Wt. Lbs.	Each
1/2"	3/4"	\$0.70
3/4"	1"	82c
1"	1 1/4"	1.03
1 1/4"	1 3/4"	1.39
1 1/2"	2"	1.94
1 3/4"	2 1/4"	3.05
2"	2 1/2"	5.98

Brass Tractor Cock

31C5432—Polished. Ship. wts., 10 to 16 oz.

Pipe, in.	Shp. wt., lbs.	Each
1/2"	1 1/2"	\$1.30
3/4"	1 3/4"	1.40
1"	2"	1.50
1 1/4"	2 1/4"	1.98
1 1/2"	2 1/2"	
2"	3"	

Brass Angle Valves

31C5402—Ground valve disc and seat.

Pipe in.	Shp. wt. lbs.	Each
1/2"	5c	
3/4"	6c	
1"	7c	
1 1/4"	9c	
1 1/2"	10c	
2"	14c	
2 1/2"	19c	
3"	24c	
3 1/2"	31c	
4"	38c	
4 1/2"	45c	
5"	52c	
6"	69c	
8"	93c	
10"	120c	
12"	156c	

Swing Brass Check Valve

31C5410—Brass disc hinged at the top. Can be used also in vertical position.

Pipe, in.	Shp. wt., lbs.	Each
1/2"	1 1/4"	\$1.25
3/4"	1 1/2"	1.45
1"	1 3/4"	1.65
1 1/4"	2"	2.05
1 1/2"	2 1/4"	2.45
2"	2 1/2"	3.45
2 1/2"	3"	4.95

Square Head Three-way Cock


31C5417—All brass. Tight fitting ground key.

Pipe, in.	Shp. wt., lbs.	Each
1/2"	1 1/2"	\$2.25
3/4"	1 3/4"	2.70
1"	2"	3.35
1 1/4"	2 1/4"	5.20
1 1/2"	2 1/2"	6.45
2"	3"	10.40

Loose Key Brass Sill Cock

31C5427—Solid brass nickel plated, with Flange. For 1/2 in. pipe and garden hose. Ship. wt., 1 lb. \$1.35

Handy Pump Oiler



Seamless steel body. Delivers oil in any position.

Spout, 9 inches.

31C5521—Size, 3/4 pint. Diameter, 3 1/2 inches. Ship. wt., 8 oz. \$1.28

31C5523—Size, 1 pint. Diameter, 4 1/4 in. Ship. wt., 12 oz. Each \$1.48

Pump Oiler

Positive feed to any position. Heavy tin bent spout.

31C5525—Size, 1 pint. Spout, 8 1/2 inch. Shipping weight, 8 oz. Each.....\$1.35

31C5526—Size, 1 quart. Spout, 18 inch. Ship. wt., 12 oz. Each.....\$1.75

Gas Engine Lubricators

31C5516—With sight feed. Brass body, wood wheels. For gas engines and air compressors. Feed regulation is obtained by a snap lever which can be opened or closed without disturbing the rate of flow when properly set. Regulate the pressure by the valve. The 1/4 and 1/2 pint size, have no gauge glass. Ship. wt., about 3 to 5 lbs.

Capacity	Height	Pipe Size	Each
1/4 pint	8 in.	3/4"	\$6.35
1/2 pint	8 1/4 in.	1"	6.85
3/4 pint	9 1/4 in.	1 1/4"	7.45
1 pint	10 1/4 in.	1 1/2"	8.25

Iron Grease Cup

31C5492—Screw Feed. Iron body and cap. Will not leak or break. Knurled rim at top for a light grip in turning.

Outside diam. in.	Height, in.	Shp. wt., oz.	Each
1 1/4"	1 1/4"	2 1/2	8c
1 1/2"	1 1/2"	3 1/2	10c
2"	2"	4 1/2	14c

Force Feed Oiler

31C5522—For machinists, engineers, tractor, automobiles, etc. All the mechanism is in the spout, reserving all of the can proper for oil. Operating lever controls amount of oil forced out of can. Made of steel. Size, 1/2 pint. Diam. 3 1/2 inches, height 7 1/4 in. Ship. wt., 8 oz. Each.....75c

Coppered Steel Oiler

31C5528—3-in. straight spout. Ship. wt., 7 oz.

Diam. in.	Shp. wt.	Each
3 1/2"	27c	
4"	35c	

31C5529—With 9-in. bent spout.

Diam. in.	Shp. wt.	Each
3 1/2"	31c	
4"	39c	

Ajax Sight-Feed Lubricators

31C5514—For stationary, traction, and portable engines. A high-grade angle connection lubricator. Requires only one tapping in steam pipe and can be easily attached to, in either a horizontal or vertical pipe or in steam chest of engine. Glass sight feed. Brass body finely polished and finished wood hand wheels. Thoroughly tested. All sizes are fitted for 1/2 in. (pipe size) connections. Ship. wt., 7 to 12 lbs.

Capacity	Height	For Cylinder Diameter	Each
1/4 pint	13 in.	Under 10 in.	\$11.85
1/2 pint	13 1/2 in.	10 to 12 in.	12.55
1 pint	16 in.	12 to 18 in.	15.75

Brass Grease Cup

31C5494—Screw feed. Stamped solid brass. Adapted for larring machinery, etc. Ship. wt., 3 to 10 oz.

Mfrs. Size	Inside Diam. in.	Extreme Ht. in.	Pipe Size	Each
00	1	1 1/4	1/4"	23c
0	1 1/4	2 1/4	3/8"	31c
1	1 1/2	2 3/4	1/2"	42c
2	2	3	3/4"	57c

Machine Oiler

Made of steel, copper plated. Diameter at bottom, 3 inches. Length of spout, 4 in. Ship. wt., 7 oz.

31C553

A Good Well With Good Water Insures Good Health

Anti-Freezing Lift Pumps



\$9.65

Heavy Pattern anti-freezing lift pump, with 4-ft. set length. A good durable pump for wells up to 30 ft. deep. For deeper wells order our pump standard, with cylinder and pipe as explained elsewhere on this page. The set length is wrought iron and connected under spout. Prices are for pump with iron cylinder. Stroke, 6 in. Average ship. wt., 63 to 75 lbs.

181C5804—Cylinder, 2 1/2 in.; for pipe, 1 1/2 in. Each.....**\$9.65**
181C5805—Cylinder, 3 in.; for pipe, 1 1/2 in. Each.....**\$9.75**
181C5806—Cylinder, 3 1/2 in.; for pipe, 1 1/2 in. Each.....**\$10.65**
181C5807—Cylinder, 4 in.; for pipe, 2 in. Each.....**\$12.45**
181C5800—Anti-freezing well pump with 4-ft. set length. A medium weight, well made pump for wells not over 30 ft. deep. Has a 3x10-inch iron cylinder with wrought iron set length and steel rod. Stroke, 6 in. Fitted for 1 1/2 inch suction pipe. Ship. wt., 55 lbs. Each.....**\$8.65**
181C5840—Pump Standard only, without the set length or cylinder. Stroke 6 in. Fitted for 1 1/2, 1 3/4 or 2-in. pipe. (Give size.) Ship. wt., 40 lbs. Each.....**\$5.65**

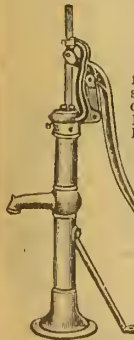
Anti-Freezing Lift Pump



A substantial pump for windmill or hand use, with 4 ft. set length. Adapted for either open or dug wells up to 30 feet in depth. For deeper wells order our pump standard with cylinder and pipe, as explained elsewhere on this page. Prices are with iron cylinder. Stroke, 6 in. Average shipping wt., 70 to 80 pounds.

181C5821—Cylinder 3 in.; for pipe 1 1/2 in. Each.....**\$11.20**
181C5822—Cylinder 3 1/2 in.; for pipe 1 1/2 in. Each.....**\$12.10**
181C5823—Cylinder 4 in.; for pipe 2 in. Each.....**\$13.90**

Lift Pump Standard For Hand or Windmill



For wells up to 100 feet deep. Has regular spout with good size openings. Fitted for 1 1/2, 1 3/4 or 2 in. pipe. Revolving cap, held by set screw, which permits handle to be turned in any desired position. Ship. wt., 52 and 60 lbs. Cylinder not included.

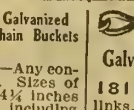
181C5848—With 6 in. stroke. Each.....**\$7.00**
181C5849—With 10 in. stroke. Each.....**\$7.90**
 Give pipe size wanted



181C6142—Made of white rubber, with small drain hole in edge. Heavily tinned iron links, size, 1 1/2 in. Ship. wt., dozen, 1 1/2 lbs. Per dozen.....**55c**



181C6118—Any continuous length. Sizes of bucket, 2x2 1/4x4 1/4 inches long. Length, including links, 12 in. Ship. wt., 1 lb. Foot.....**24c**



181C6145—Steel links. Ship. wt., ft., 6 oz. Subject to market changes. Foot.....**5 1/2c**

Lakeside Purifying Pump

\$13.85

181C6146—Has painted wood case. Water is brought up in galvanized buckets which, when passing down, carry air into the water, purifying it. For wells over 18 in. in diameter and up to 40 feet deep. With chain buckets and iron bottom wheel. Ready for use. Ship. wt., about 50 lbs. (Give size.)
 For Well 10 ft. 15 ft. 20 ft. 25 ft.
 Ea. **\$13.85 \$14.50 \$15.60 \$16.75**
 For Well..... 30 ft. 35 ft. 40 ft.
\$17.85 \$18.95 \$20.15
181C6136—Iron platform for above, size 33x40. Weight, 85 lbs. Each.....**\$10.85**

Rubber Bucket Chain Pump

\$13.85

181C6148—Has painted, galvanized steel case, with cast iron base. For wells over 18 inches in diameter. Water is brought up in tube by close fitting rubber buckets on an endless chain. Tube is self-draining. Complete with galvanized steel tubing and chain with rubber buckets. Ship. wt., about 47 lbs. (Give size.)
 For Well..... 10 ft. 12 ft. 15 ft.
 Each.....**\$11.70 \$12.95 \$13.65**
 For Well..... 18 ft. 20 ft. 25 ft.
 Each.....**\$14.95 \$16.30 \$17.95**

New Climax Cistern and Well Pump

\$13.85

181C6151—Operates different from the ordinary pump. Porcelain-lined, open-top cylinder rests on bottom of well; water enters top of cylinder by gravity—prevents sediment entering the pipe. The up-stroke of handle lifts cylinder with water; the down-stroke forces it up through the discharge pipe. The discharge pipe is kept full of water by a check valve at the bottom. Simple in construction with nothing to get out of order. Pumps one quart of water per stroke; very easy acting and will operate in as little as 10 inches of water. The cylinder being always under water it needs no priming and the leather does not dry out; cylinder will not freeze. Following prices are for pump complete with galvanized pipe ready to put in well.
 For Well 10 ft. 12 ft. 16 ft.
 Ship. wt. 60 lbs. 68 lbs. 75 lbs.
 Price.....**\$9.25 \$10.25 \$10.75**
 For Well..... 20 ft. 25 ft.
 Ship. wt. 85 lbs. 90 lbs.
 Price.....**\$11.95 \$13.50**

Our pumps are made of the very best material, with smooth castings, and are nicely finished and painted. They are easy to install. A Suction Lift Pump is one that raises the water to the level of the pump spout. A Force Pump is one that raises the water to the pump, and also forces it to any reasonable altitude above the level of the pump. A Set-Length Pump is a pump standard fitted with 4 feet of pipe and a cylinder (see 181C5804, etc.), and such a pump is ready for use in a well not exceeding 30 feet in depth.

Anti-Freezing Hand Force Pump



Heavy Force Pump with air chamber in top of stock and a 4 ft. set length. Has a brass stuffing box, polished piston and is substantially made throughout. For wells up to 30 ft. deep. Prices are for pumps with iron cylinders. Stroke, 6 in. Complete with 3/4 in. hose connection. Back of spout is tapped for 1 1/2 in. pipe. Average Ship. wt., 80 to 95 lbs.
181C5811—Cylinder, 3 in.; for pipe 1 1/2 in. Each.....**\$12.95**
181C5812—Cylinder, 3 1/2 in.; for pipe 1 1/2 in. Each.....**\$14.20**
181C5813—Cylinder, 4 in.; for pipe 2 in. Each.....**\$15.85**

Anti-Freezing Force Pump Windmill Top



With 4 ft. set length. For wells up to 30 ft. deep. Has cock spout with 1/2 in. hose coupling so that water can be forced in tank or discharged at spout. Tapped for 1 1/2 in. pipe. Stroke 6 in. Cylinders are polished iron. Average ship. wt., 85 to 90 lbs.
181C5829—Cylinder, 3 in.; pipe 1 1/2 in. Each.....**\$14.95**
181C5830—Cylinder, 3 1/2 in.; pipe 1 1/2 in. Each.....**\$16.10**
181C5831—Cylinder, 4 in.; for pipe 2 in. Each.....**\$17.85**

Well Pipe Holder

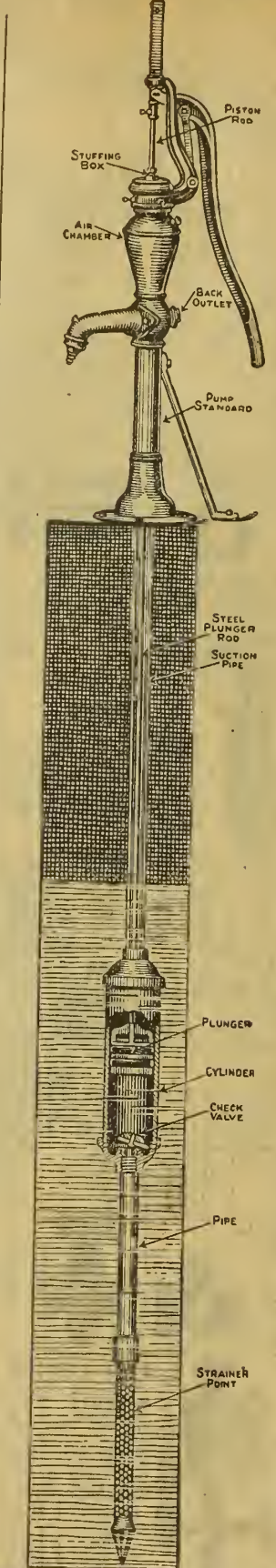


181C6052—Mounted on a 2 in. plank; cast iron. Adjustable to hold 1 in. 1 1/2 in. or 1 3/4 in. pipe. Ship. wt., 35 lbs. Each.....**\$3.90**

Iron Pump Stand



Made of cast iron. Slots for bolts. Holds the pump tight and rigid. Ship. wts., 22 to 24 lbs.
181C6058—Size, 8 in. Price.....**\$3.60**
181C6059—Size, 5 in. Price.....**4.20**
181C6060—Size, 6 in. Price.....**4.80**

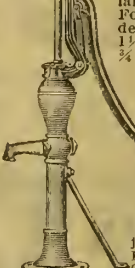


Write for our PLUMBING AND HEATING catalog and time payment prices.

The cylinder or working barrel of a pump should never be more than 25 to 28 feet from the surface of the water or else it will not operate.

For wells deeper than 30 feet it will be necessary to use a Pump Standard as listed below under No. 181C5840 and then fit the cylinder down within at least 25 feet of the water; or better still, place the cylinder beneath the surface of the water as this will always insure an easy acting outfit and the pump will never need priming.

Force Pump Standard Windmill Top



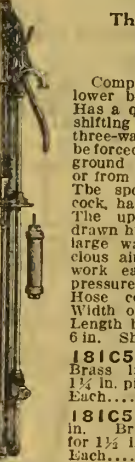
Bolted top cap. Extra large solid piston rod. For wells up to 100 feet deep. Fitted for 1 1/2, 1 3/4 or 2 in. pipe. With 3/4 in. hose connection at spout. Back of spout tapped for 1 1/2 in. pipe. This pump has revolving cap. Ship. wts., 64 and 71 lbs. Cylinder not included.
181C5850—Stroke 6 in. Ea. **\$10.35**
181C5851—Adjustable stroke. Each.....**\$11.35**
 Give pipe size wanted.

Force Pump Standard Windmill Top



A neat, solid and compact force pump standard, with detachable 3/4 in. hose connection. For wells up to 100 ft. deep. Prices do not include cylinder or pipe. Fitted for 1 1/2, 1 3/4 or 2-in. pipe. Ship. wt., 63 to 74 lbs. Cylinder not included.
181C5858—Stroke 6 in. Each.....**\$9.55**
181C5859—Stroke, 10 in. Each.....**\$10.50**
 Give pipe size, wanted.

Double Acting Force Pump Three Way Valve

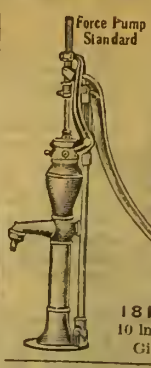


Complete with upper and lower brass lined cylinders. Has a quick acting cam lever shifting device, and lower three-way valve. Water can be forced through underground pipe to storage tank or from the spout as desired. The spout and three-way cock have 1 in. discharge. The upper cylinder is of drawn brass tubing, and a space air chamber, and will work easily against heavy pressure. With 6 in. stroke. Hose coupling on spout. Width of set length, 6 in. Length below platform 4 ft. 6 in. Ship. wt., 81 to 85 lbs.
181C5882—With 3x10 in. Brass lined Cylinder for 1 1/2 in. pipe. Each.....**\$17.50**
181C5883—With 3x10 in. Brass-lined Cylinder for 1 3/4 in. pipe. Each.....**\$18.20**

Pipe Lifter and Holder

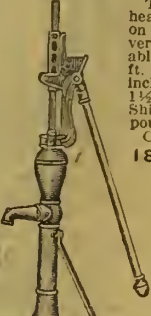


\$8.25 Each
181C6050—For lifting pipe from a well. Holds pipe sizes 1 in. to 2 in. firmly at any point. Mounted on plank base. Ship. wt., 44 lbs. Each.....**\$8.25**



Windmill Top Oscillating fulcrum, pivoted at center. Cap relieves the cap strain. For wells up to 100 ft. deep. Spout tapped 1 1/2 in. pipe. 1 for 1 1/2, 1 3/4 or 2 in. pipe. With 3/4 in. coupling on back. Handlets set at angle. Ship. wt. and 75 lb. Cylinder included.
181C58—Stroke, 6 in. Each **\$10**
181C5856—Stroke, 10 in. Each.....**\$11**
 Give pipe size wanted.

Gear Pump Standard Windmill Top



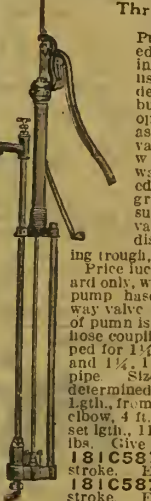
The geared head working in head working in on slide bar makes very easy-acting. Suitable for wells up to 100 ft. deep. Stroke 6 in. Fitted for 1 1/2, or 2-in. pipe. Ship. wt., 66 and 71 lbs. Cylinder not included.
181C5863—Pump Standard as above. Each.....**\$8**
181C5864—Force Pump Standard as above. Tapped at back of spout for 1 1/2 in. pipe. With hose coupling. Each.....**\$11**
 Give pipe size wanted.

Heavy Force Pump Standard Windmill Top



Extra strong any depth. Large air chamber on spout. Fitted with 1-inch outlet. Spout is with 1-inch coupling. Top of chamber is tapped 1 1/2 in. iron pipe. Fitted for 1 1/2, 1 3/4 or 2-in. iron pipe. Handle turned in any sired position. Ship. wt., 90 lbs. Cylinder not included.
181C5866—With 10 in. stroke. Each.....**\$12**
 Give pipe size wanted.

Windmill Force Pump Three-Way Valve



Anti-freeze. Pump, with improved vertical distributing valve. Can be used in wells of any depth. The distributing lower valve operated the same as an ordinary globe valve, and by turning the handle on the water may be directed through the underground pipe to a supply system or a distant storage tank. Price includes pump standard only, with extension belt pump base including the way valve as shown. Spout is fitted with 3/4 in. hose coupling. Pump is tapped for 1 1/2 in. discharge pipe and 1 1/2, 1 3/4 or 2 in. suction pipe. Size of suction pipe determined by size of cylinder. From platform to low elbow, 4 ft. 10 in. Width set length, 11 in. Ship. wt., 110 lbs. Give pipe size.
181C5875—With 6 in. stroke. Each.....**\$18.95**
181C5876—With 10 in. stroke. Each.....**\$20.15**

Pipe Lifting Clevis



181C6054—Hold iron pipe firmly when being lifted from well. Heavy iron. Takes in, and 1 1/2 in. pipe. Ship. wt., 10 lbs. Each.....**\$1.50**

Kitchen Pumps—Hydraulic Rams and Pump Accessories

Drive Well Points

Brass Jacketed Holes

Made of wrought iron pipe. Perforated and galvanized; covered with a perforated brass jacket. We have two grades. The point in common use is No. 60 gauge. The very fine No. 100 gauge is used for quicksand, etc. The terms No. 60 and No. 100 refer to the number of wire meshes to the inch.

181C5990—No. 60 Gauge.
181C5991—No. 100 Gauge.
Give article number when ordering.

Pipe Size In.	Length Inches	Ship. Weight Pounds	No. 60 Gauge Each	No. 100 Gauge Each
1 1/4	24	5 1/2	\$1.75	\$3.85
1 1/4	30	6 1/2	2.25	4.85
1 1/4	36	7 1/2	2.70	5.80
1 1/4	42	8 1/2	3.20	6.75
1 1/2	30	8 1/2	3.10	6.70
1 1/2	36	10	3.50	6.85
1 1/2	42	13	5.10	9.20
2	48	17	6.50	12.10

Drive Caps

181C5995—For driving well points. Malleable iron. Much heavier than ordinary cap.

Pipe Size In.	Ship. Wt., Lbs.	Each
1 1/4	1 1/2	35c
1 1/2	2	45c
2	2 1/2	82c

Stuffing Box Head

181C6012—Fitted at top for wood rod; at bottom for 7/16-in. steel rod. Iron body. Side outlet. 10-in. stroke.

Pipe Size	Ship. Wt.	Each
1 1/4-in.	11 1/2 lbs.	\$3.95
1 1/2-in.	14 1/2 lbs.	4.10
2-in.	16 1/2 lbs.	4.20

Sand Bucket

181C6018—Lap welded steel. For cleaning drilled wells. Fits inside of casing. Ball at upper end to fasten rope. Bottom check valve. Length, 4 ft. Size, 3 in. Ship. wt., 17 lbs.

Each.....\$4.50
181C6019—Size, 4 in. Ship. wt., 26 lbs. Each.....\$5.75

Galvanized Pump Rods

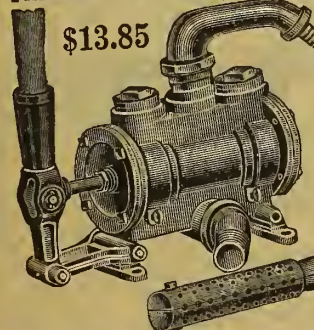
Lengths, about 18 ft. Prices subject to market changes.

181C6036—Plain ends (not threaded).
Size, in. 3/4 1 1/4 1 3/4 2
Wt., 100 ft., lbs. 38 52 68
Price, foot..... 5c 7c 8c
181C6037—Threaded ends, and cut to any length. (Couplings extra.)
Size, in. 3/4 1 1/4 1 3/4 2
Wt., 100 ft., lbs. 38 52 68
Price, foot..... 6c 8c 9c

Steel Rod Couplings

Galvanized malleable iron to fit pump rods. Ship. wt., 4 oz.
181C6040—Size, 3/4 in., 14 thread. Each.....9c
181C6041—Size, 1/2 in., 12 thread. Each.....10c
181C6042—Size, 1/2 in., 12 thread. Each.....11c

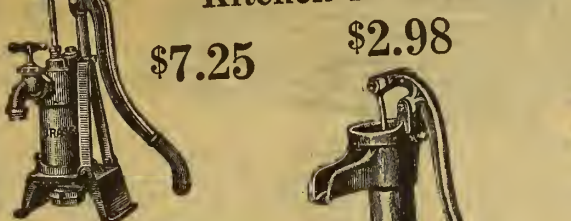
Thresher Tank Pump



\$13.85

A high grade, double acting force pump of large capacity, intended for filling threshing tanks or for water supply, draining cellars or for general service. It is of simple design, compact, and made of the finest materials in a very substantial manner. The water ways are large and direct—the valves of metal, leather faced. Capacity, 2,000 gallons an hour at 40 strokes per minute.
Diameter of cylinder, 5 in. Stroke, 5 in. Suction size, 2 in. Discharge sizes, 2 in. at pump and 1 in. at tip of 1 in. hose connection. Spout reversible. With handle, hose connection and strainer. (Hose not included.) Ship. wt., 87 lbs.
181C5925—Thresher Tank Pump. \$13.85

Kitchen Force Pumps



\$7.25

\$2.98

\$10.95

One of Our Best

181C5915—Strongly built, and well finished. Brass cylinder, 3 in. For wells and cisterns not over 20 ft. deep. Fitted for 1 1/4-in. suction pipe and 1-in. discharge. Faucets threaded for 1/2-in. hose connection. Pipe can be connected to top outlet for pumping to a storage tank.
One of the finest little hand pumps on the market. Ship. wt., 20 lbs.

Each.....\$7.25

Pitcher Spout Pump

Heavy and substantial. For cisterns and wells not over 20 feet deep. Cylinder reamed smooth. Delivers a large volume. Top is closed to prevent splashing. To prevent freezing raise handle to its extreme height, which trips the lower check valve and empties the pump and pipe.

No.	181C5911	181C5912
Diameter of Bore.....	3 in.	3 1/2 in.
For Pipe.....	1 1/4 in.	1 1/2 in.
Ship. wt.....	22 lbs.	28 lb.
Each.....	\$2.98	\$3.60

Brass Lined Cylinder

181C5919—Throws a large volume of water. For cistern and wells not over 20 ft. deep. Heavy iron cock spout with 1/2-in. hose coupling. Back of spout tapped for 1 in. pipe.
Has 3-in. brass-lined body. Fitted for 1 1/4-in. suction pipe. Ship. wt., 30 lbs.
Each.....\$10.95

Well Cylinders

Made heavy and strong, bored smooth, and fitted with best valves and leathers. The proper size cylinder to use must be determined by your own good judgment, but for ordinary hand use we suggest the following:

Size cylinder for wells 20 to 40 feet deep, 3 1/2 to 4 in.

Size cylinder for wells 40 to 80 feet deep, 3 to 3 1/2 in.

Size cylinder for wells deeper than 80 feet, 2 1/2 to 3 in.

For windmills a somewhat smaller cylinder should be used, but this will depend on the size of your mill.

The 10 inch and 12 inch cylinders have a 6 inch stroke, and the 16 inch cylinders have a 10 inch stroke. They are usually fitted with 1 1/4 inch pipe for all cylinders smaller than 3 1/2 inch, and 1 1/2 inch or 2 inch pipe for cylinders 3 1/2 inch to 4 inch. Give pipe size when ordering.

181C5956—Iron Well Cylinders.

Smooth iron ground and polished. Ship. wt., 9 to 25 lbs.

181C5957—Brass Lined Cylinders.

Body is made of iron with polished brass lining, iron caps. Brass valve seats. Ship. wt., 9 to 25 lbs.

Give

Pipe

Size

Inside Diam. of Bore, Inches	Length of Body, 10 Inches	Length of Body, 12 Inches	Length of Body, 16 Inches	Length of Body, 10 Inches	Length of Body, 12 Inches	Length of Body, 16 Inches
2 1/2	\$2.10	\$2.90	\$3.40	\$4.60	\$4.88	\$5.85
3	2.40	3.35	3.80	5.15	5.45	6.45
3 1/2	3.35	4.30	5.40	6.00	6.40	7.75
4	4.35	5.50	7.05	7.45	8.10	10.20

Pipe Strainer

181C5998—Fastens to end of suction pipe with set screw. Made of malleable iron; not easily broken. Covered with brass wire cloth. Average length, 6 1/2 inches. Ship. wt., 1 to 2 lbs.

For Pipe In. 1 1/4 1 1/2 1 3/4 2
Outside Diam. 1 3/4 1 7/8 2 1/8 2 3/8
Each 42c 48c 54c 75c

Square Wood Rod

Used chiefly in tubular wells. Length about 12 feet. (Prices subject to change.)
181C6032—Size, 1 in. Ship. wt., 30 lbs. per 100 ft. Per 100 ft. \$4.50

Wood Rod Couplings

181C6030—Malleable Iron, with rivet holes. Galvanized.

Size	Ship. Wt.	Set
1	1 lb.	45c

Contractor's Diaphragm Pumps

For pumping water from mines, cellars, ditches, and for irrigation purposes, where the water is not more than 20 feet (vertically), from pump. Will easily handle large quantities of sewerage, mud, sand and gravel, etc. With side suction, for either rubber hose or iron pipe connection. Extra heavy with best grade rubber diaphragms. Heavy wrought-iron handle.

181C5942—Size 1. Capacity per stroke, 3/4 gal. Takes 2 1/2-in. pipe or hose. Ship. wt., 75 lbs. Each.....\$21.75
181C5943—Size 2. Capacity, per stroke, 1 1/2 gal. Takes 3-in. pipe or hose. Ship. wt., 155 lbs. Each.....\$28.55

Extra Rubber Diaphragms

181C5946—Size 1. Ship. wt., 1 lb. Each.....\$1.15
181C948—Size 2. Ship. wt., 2 lbs. Each.....1.60

Automatic Hydraulic Ram

\$14.40

Will pump water continuously to a tank or a reservoir. Requires a fall of 2 ft. or more between the source of water supply, lake or stream, and location of ram. The ram will then automatically deliver a large proportion of water a great distance. However, the amount of water delivered by the ram depends upon the height of the fall and delivery.

Large size rams are best where there is an abundant water supply. Thousands of these rams furnish farms and residences with fresh water every day. Strongly constructed—will last a life time. Think of having fresh water constantly in your house, stable, garden or watering trough without any inconvenience.
Write for our Hydraulic Ram Circular giving full details of efficiency, if you wish to know more about these Hydraulic Rams, or wish a larger one.

Article Number	Size	Water Required Gallons per Minute	Size Pipe Required		Average Ship. Wt.	Each
			Drive Inches	Discharge Inches		
181C5960	2	1 to 2	3/4	3/8	25	\$14.40
181C5961	3	1 1/2 to 4	1	1/2	40	17.95
181C5962	4	3 to 7	1 1/4	3/4	45	22.80
181C5963	5	6 to 14	2	1	75	27.60

Double Pump Stock

184C7432—Has one die, 3/4x14, thread and one die 7/8x12 thread. Both 1/2 inch over size to make perfect threads on unfinished rods in one cut. Ship. wt., 2 1/2 lbs. Each.....\$4.30

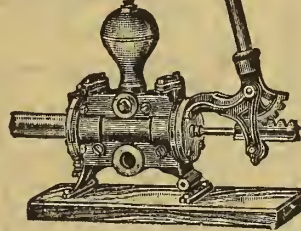
184C7433—Extra dies for double stock. Ship. wt., 4 oz. (Give size.) Following sizes only. 3/4x14 7/8x12
Size.....\$1.10 \$1.25

Pump Rod Tongs

181C6045—Never Slip Tongs for pump rod. Have inserted steel jaw. Length, 12 in. Ship. wt., 2 1/2 lbs. Each.....\$1.28

Horizontal Force Pump

For Water Supply Systems



\$16.50

Easy working, compact and substantially designed. For pumping water from cisterns, shallow wells, etc., to elevated tanks, pneumatic water supply systems, etc. Also adapted for fire protection, filling boilers, as a deck pump, and for many other purposes.
Has a geared drive. A smooth, easy operating pump. Has a cushion air chamber, brass piston rod and valve seats. Tapped for 1 1/4-in. suction pipe and 1-in. discharge. Mounted on board base, about 7 1/2x24 in. Ship. wt., 58 lbs.
181C5937—With 3-inch brass lined cylinder. (Without air attachment.) \$16.50

With Air Attachment.

181C5938—With 3-inch brass lined cylinder and air attachment, as shown above. Will pump water and air, or water only, as desired. For pneumatic water-supply system. Ship. wt., 60 lbs. Each.....\$20.50

Eureka Well Cylinder

181C5975—Used chiefly in deep wells to slip inside of pipe after well is completed. Can be fastened at any point and withdrawn for repairs without removing the pipe from the well. Solid brass body complete. Has 12-inch stroke. Not made smaller than for 2-in. pipe.

When ordering pipe for this cylinder, specify that pipe be plugged and reamed, for which an extra charge is made of approximately 1c per foot. Size, 2 in. Ship. wt., 6 lbs. Each.....\$6.35



Iron Cistern Covers

Sizes indicate the diam. of opening. Ship. wt. about 50 lbs.

181C6139—Size, 18 in. Each.....\$2.70
181C6140—Size, 20 in. Each.....\$4.50

Pump Crimped Plunger Leathers for Pumps

Made of fine selected oak-tanned stock.

181C5984—Please Note: Size corresponds to the inside diameter of cylinder.

Size, In.	Each	Size, In.	Each
1 1/4	9c	3 1/4	22c
1 1/2	10c	4	29c
2	12c	4 1/2	36c
2 1/2	14c	5	42c
3	16c	5 1/2	50c
		6	56c

Check Valve Leathers

181C5985—Sizes are for both the outside diameter of the leathers and corresponding size of the cylinder. Ship. wt., 6 to 14 oz. per doz.

For Cylinder Inside Diam.	Outside Diam. of Leather	Each
2 in.	2 1/4 in.	6c
2 1/2 in.	2 3/4 in.	7c
3 in.	3 in.	9c
3 1/2 in.	3 1/4 in.	10c
4 in.	3 1/2 in.	13c
4 1/2 in.	4 in.	15c

Tubular Well Valves

181C5980—Made of brass with best oak-tanned leathers. Fits inside of 2-in. iron pipe. Ship. wt., 2 1/2 lbs. Set.....\$3.00

Foot Valve Strainer

181C6000—Made of cast iron, japanned. Threaded for iron pipe. Size..... 1 1/2 1 3/4 2
Ship. wt., lbs. 3 5 7
Each.....90c \$1.05 \$1.20

Enterprise Float Valve

181C6022—Japanned iron. Leather valve and brass seat. Used with copper float to control flow in tanks, etc.

Pipe Size, in. 3/4 1 1 1/2
Ship. wt., lbs. 2 1/4 2 1/2 3
Each.....\$1.28 \$1.38 \$1.50

Copper Float

181C6024—Used with float valve. Ship. wt., 4 lbs. Size, 9 3/8x3 in. Each.....\$1.90

Pump Spout Attachment

For conveying water from pump spout through pipe. Cast iron, japanned. Ship. wt., 4 1/2 pounds.
181C5890—Tapped for 1 1/4 in. pipe. Each.....55c
181C5891—Tapped for 1 1/2 in. pipe. Each.....63c

Rubber Water Hose

184C7870—Very serviceable. Size 1 in. 5 ply. Brass couplings with each 50-foot length. Ship. wt., 50 ft., 22 lbs. Foot.....26c

Rubber Steam Hose

184C7880—For steam and hot water. Three-ply hose will stand about 20 lbs. steam pressure; 4-ply, 35 lbs. (Without couplings.)
Size, 1/2 in., 3-ply. Ship. wt., ft., 6 oz. Per ft.....35c
Size, 3/4 in., 4-ply. Ship. wt., ft., 12 oz. Per ft.....52c
Size, 1 in., 4-ply. Ship. wt., ft., 1 lb. Per ft.....64c

Rubber Suction Hose

184C7890—High-grade, with steel wire insertion. Smooth lining. Inside diam., 2 in. Raised ends to take coupling or iron pipe. Lengths 10, 15, 20 ft. Without couplings. Ship. wt., foot, 1 lb. Foot.....58c
184C7895—Ext. hard, smooth rubber, canvas insertion (not wire lined). Any length, up to 50 ft. Ship. wt. per ft., 1/2 and 3/4 lb. Size, 1/2 in. 4-ply. Foot.....35c
Size, 1 in., 4-ply. Foot.....40c

Lakeside Suction Hose

184C7892—Water proof braided colored cotton jacket. Steel wire insertion. Smooth rubber lining. Inside diameter, 2 in. Raised ends to take pipe or couplings. Fine for Tank Wagons. Lengths: 10, 12, 15, 20 feet, (with couplings). Ship. wt. per foot, 1 1/2 lbs. 84c

Hose Strainer

181C5929—For 2-in. suction hose. Japanned iron. Ship. wt., 4 1/2 lbs. Each.....65c

A Complete Line of Wrought Pipe and Pipe Fitting



Long Wrought Nipples

81C5382 - Assorted length, 2 to 4 in. Give size and length wanted.

Pipe In.	Black	Galv.
1/4	2c	3c
1/2	3c	4c
3/4	4c	6c
1	6c	8c
1 1/4	10c	13c
1 1/2	11c	15c
1 3/4	15c	18c
2	20c	25c
2 1/2	27c	41c
3	41c	63c

Black Long
4 c
4 1/2 c
4 3/4 c
5 c
5 1/2 c
5 3/4 c
6 c
6 1/2 c
6 3/4 c
7 c
7 1/2 c
7 3/4 c
8 c
8 1/2 c
8 3/4 c
9 c
9 1/2 c
9 3/4 c
10 c
10 1/2 c
10 3/4 c
11 c
11 1/2 c
11 3/4 c
12 c
12 1/2 c
12 3/4 c
13 c
13 1/2 c
13 3/4 c
14 c
14 1/2 c
14 3/4 c
15 c
15 1/2 c
15 3/4 c
16 c

Bushings

Pipe In.	81C5390 Black	81C5391 Galv.
1/4	3c	6c
1/2	3 1/2c	7c
3/4	4c	8c
1	5c	9c
1 1/4	6c	10c
1 1/2	7c	12c
1 3/4	8c	16c
2	12c	22c
2 1/2	16c	34c
3	21c	63c



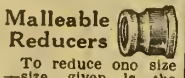
Pipe Caps

Pipe In.	81C5372 Black	81C5373 Galv.
1/4	2c	3c
1/2	3c	4c
3/4	4c	6c
1	6c	8c
1 1/4	10c	13c
1 1/2	11c	15c
1 3/4	15c	18c
2	20c	25c
2 1/2	27c	41c
3	41c	63c



90 Degree Elbows

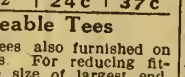
Pipe In.	81C5360 Black	81C5361 Galv.
1/4	4c	6c
1/2	6c	8c
3/4	8c	10c
1	9c	12c
1 1/4	14c	18c
1 1/2	18c	28c
1 3/4	24c	37c
2	39c	60c



Malleable Iron Reducers

To reduce one size - size given in the large end.

Pipe In.	81C5370 Black	81C5371 Galv.
1/4	6c	8c
1/2	8c	10c
3/4	10c	13c
1	14c	18c
1 1/4	18c	28c
1 1/2	24c	37c
1 3/4	39c	60c



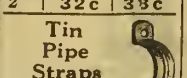
Malleable Tees

Reducing Tees also furnished on these numbers. For fittings, first give size of largest end, then other end and last, size of branch or side opening. State tapplings wanted. Largest thread given here.



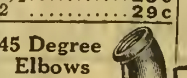
Wrought Iron Couplings

Pipe In.	81C5378 Black	81C5379 Galv.
1/4	4c	5c
1/2	5c	6c
3/4	6c	7c
1	7c	8c
1 1/4	10c	14c
1 1/2	11c	16c
1 3/4	16c	19c
2	20c	25c
2 1/2	32c	38c



Tin Pipe Straps

Pipe In.	81C7947
1/4	12c
1/2	13c
3/4	14c
1	16c
1 1/4	21c
1 1/2	23c
1 3/4	25c
2	29c



45 Degree Elbows

Pipe In.	81C5362 Black	81C5363 Galv.
1/4	5c	5c
1/2	6c	6c
3/4	7c	9c
1	10c	13c
1 1/4	15c	20c
1 1/2	25c	35c
1 3/4	32c	45c
2	52c	75c



Standard Wrought Pipe

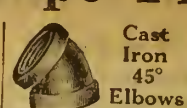
Always Sold at Lowest Prevailing Prices
Prices on pipe are subject to market changes. You will at all times have the benefit of the very lowest prices ruling at the time your order is received. Write for latest prices.
Prices are for pipe in random lengths, from 16 to 20 feet. Threaded both ends, coupling on one end.
Pipe cut to exact lengths and ends threaded is charged extra. For instance if you order 10 feet of 1 1/2 inch pipe cut and threaded, there would be a charge for cutting and threading of 6 cents. Any couplings will be extra.
For plugging and reaming 2-in. pipe for Eureka cylinders, extra charge, per foot.

Pipe Size	Shp. Wt. Per Ft. Lbs.	81C5600 Black	81C5602 Galv.	Cutting & Threading One Length
1/4	1/4	4c	6c	4c
1/2	1/2	5c	7c	5c
3/4	3/4	6c	8c	6c
1	1	7c	9c	7c
1 1/4	1 1/4	10c	14c	10c
1 1/2	1 1/2	11c	16c	11c
1 3/4	1 3/4	16c	19c	16c
2	2	20c	25c	20c
2 1/2	2 1/2	32c	38c	32c
3	3	52c	75c	52c



Cast Iron 90° Elbows

Size In.	Shp. Wt. Lbs.	81C4900 Black
1/4	1 1/4	\$0.09
1/2	1 1/2	.11
3/4	1 3/4	.18
1	2 1/4	.20
1 1/4	2 3/4	.31
1 1/2	3 1/4	.32
2	5 1/4	.54
2 1/2	7 1/4	.83
3	10 1/2	1.28



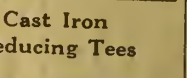
Cast Iron 45° Elbows

Size In.	Shp. Wt. Lbs.	81C4904 Black
1/4	1 1/4	\$0.12
1/2	1 1/2	.14
3/4	1 3/4	.22
1	2 1/4	.28
1 1/4	2 3/4	.40
1 1/2	3 1/4	.65
2	5 1/4	.99
2 1/2	7 1/4	1.65
3	10 1/2	2.65



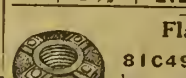
Cast Iron Reducing Tees

Size In.	Shp. Wt. Lbs.	81C4912 Black
1/4	1 1/4	\$0.16
1/2	1 1/2	.20
3/4	1 3/4	.30
1	2 1/4	.32
1 1/4	2 3/4	.52
1 1/2	3 1/4	.91
2	5 1/4	1.40
2 1/2	7 1/4	2.20



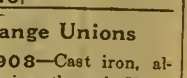
Cast Iron Tee

For reducing fittings, first give size of largest end, then other end and last, size of branch or side opening. State tapplings wanted. Largest thread given here.



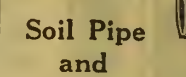
Flange Unions

Pipe In.	Shp. Wt. Lbs.	Price Each
1/4	2 1/2	50c
1/2	3	58c
3/4	3	70c
1	4 1/4	85c



PIPE JOINT COMPOUND

81C4908 - Cast iron, allow opening through Union same size as inside of pipe.



Soil Pipe and Fittings

Our Special Plumbing Catalog describes a complete line of soil pipe fittings, drainage fittings, lead traps, roof flanges, connections and accessories for plumbing systems. All of this material is listed at the lowest possible prices in our special plumbing book. We are pleased to furnish all necessary fittings to complete your entire plumbing system to the last detail. Write for this special plumbing catalog to-day. It will be sent without any expense to you.



PIPE JOINT COMPOUND

81C5608 - A little on pipe threads of steam and water pipe. Seals joints easily unscrewed. Always ready in hand. Can. Ship wt. 1 lb.

High Grade Bath Room Fixtures for Your Home

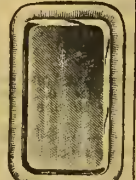


Bathroom Mirrors

Frame finished with white enamel. Mirror polished beveled plate glass. Shp. wt., 20 to 40 lbs. Prices subject to change.

81C6393 - Oval Size Glass, 10x16 12x20 14x24 18x30 Each \$5.70 \$8.20 \$10.95 \$16.95

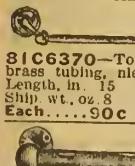
81C6402 - Size Glass, 10x16 12x20 14x24 18x30 Each \$5.70 \$8.20 \$10.95 \$16.95



Towel Rack

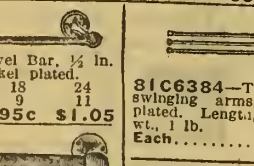
81C6373 - Towel Bar made of 3/4 in. tubing. Length, 18 inches. Finished in highly polished nickel with nickel-plated screws to match. Shp. wt., 8 oz. Price, 57c

81C6372 - Towel Bar, 3/4 in. brass tubing, nickel plated. Length, in. 15 18 24 Shp. wt., oz. 6 8 15 Each 60c 69c 80c



Towel Bar

81C6370 - Towel Bar, 1/2 in. brass tubing, nickel plated. Length, in. 15 18 24 Shp. wt., oz. 8 9 11 Each .90c 95c \$1.05



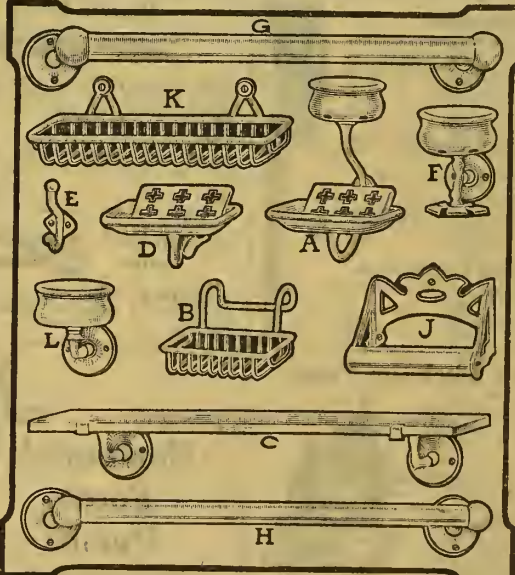
Portable Shower Bath

81C6506 - Galv. steel, 5-gal. tank with a rubber shower hose with adjustable perforated loop. Length, 20 inches; diameter, 10 inches. Simply fill the tank with water at proper temperature. Flow of water is regulated by valve beneath tank, to which rubber tube is connected. Shp. wt., 6 1/2 lbs. Each \$4.55



Towel Rack

81C6384 - Towel Rack. Three swinging arms, brass nickel plated. Length, 1 1/2 in. Shp. wt., 1 lb. Each \$1.23



Beautiful white enamel finish on cold brass. Easily kept clean. With screws. The letters below refer to the corresponding letters in illustrations above.

A - Glass and Soap Holder. 81C6330 - Shp. wt., 2 lb. Each \$2.60

B - Bath-Rim Soap Cup. 81C6343 - Shp. wt., 1 lb. Each \$1.00

C - White Glass Wall Shelf. 81C6364 - Size, 18x5 in. Shp. wt., 5 1/2 lbs. Each \$3.60

D - Wall Soap Holder. 81C6347 - Shp. wt., 1 lb. Each \$1.58

E - Double Wall Hook. 81C6411 - Shp. wt., 4 oz. Each \$2.1c

F - Glass and Toothbrush Holder. 81C6336 - Shp. wt., 3/4 lb. Each \$1.15

G - Heavy Glass 1-in. Towel Bar. 81C6382 - Size, 18 in. Shp. wt., 4 lbs. Each \$2.75

81C6383 - Size, 24 in. Shp. wt., 5 1/2 lbs. Each \$3.00

H - White Glass 3/8-in. Towel Bar. 81C6378 - Size, 15 in. Shp. wt., 3 lbs. Each \$1.60

81C6379 - Size, 18 in. Shp. wt., 3 1/2 lbs. Each \$1.80

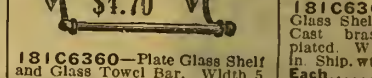
I - Toilet Paper Holder. 81C6392 - Shp. wt., 3/4 lbs. Each \$1.02

J - Comb and Brush Tray. 81C6355 - Shp. wt., 1 1/4 lbs. Each \$1.65

K - Wall Glass Holder. 81C6323 - Shp. wt., 3/4 lb. Each \$96c

White Enameled Bath Stool

81C6400 - Can be used in the tub or for dressing. Rubber-tipped legs screw into top. Diameter, 12 in. Height, 15 in. Shp. wt., 6 lbs. Each \$3.25



81C6360 - Plate Glass Shelf and Glass Towel Bar, Width 5 in. Brass Brackets nickel plated. Length 15 in. Shp. wt., 5 lbs. Each \$4.70

81C6362 - With white opal shelf and white opal towel bar. Shp. wt., 5 lbs. Each \$4.95

Nickel Plated Fixtures

81C6324 - Wall 1 1/2 inch toothbrush and tumbler holder, brass, nickel plated. Shp. wt., 1 1/2 oz. Each 90c

81C6344 - Soap cup for rim of bathtub. Brass, nickel plated. Shp. wt., 12 oz. Each 75c

81C6390 - Toilet paper holder. Brass, nickel plated. Width 4 1/2 in. Shp. wt., 95c

81C6319 - Tumbler holder, brass, nickel plated. Shp. wt., 80c

81C6314 - Wall soap cup, with ring hook. Brass, nickel plated. Shp. wt., 10 oz. Each 67c

81C6318 - Wall tumbler holder. Brass, nickel plated. Shp. wt., 8 oz. Each 57c

Hundreds of our customers install their own Plumbing and Heating. You can do the same with the help of our Engineer Dept. who will give you plans and instructions without charge. Write for this book today. It is FREE on request.

BATHROOM

Lavatories and bath tubs shipped from factory in Western Pennsylvania or from Chicago stock unless otherwise noted.



Bradford Lavatory

Genuine White Porcelain Enamelled Cast Iron Corner Lavatory. Lengths on sides, 16 inches.
Size of bowl, 11x14 inches, with patent overflow. Height of back, 6 inches. Concealed cast iron wall hangers.
281C6572—Lavatory only, without faucets, pipes, outlet connection, or stopper. Shipping weight, 70 lbs. Each..... \$17.30
281C6573—Lavatory complete, with nickel-plated trap and pipes to floor. China indexed compression faucets. For lead pipe connection. Ship. wt., 80 lbs. Each..... \$16.60
281C6578—As above with pipes to wall. Each..... \$17.30
281C6574—1 1/4 in. Slip Joint Connection for connecting Lavatory trap to iron pipe. Each..... 50c

Waverly Lavatory

Genuine White Porcelain Enamelled Cast Iron Deep Rim Lavatory. Ornamental design. Size, 18x24 inches with 12x15 inch oval bowl. Height of back, 10 inches. Concealed wall hangers. Enamel will not chip or peel.
281C6562—Lavatory only, without faucets, pipes, outlet connection, or stopper. Ship. wt., 120 pounds. Each..... \$15.95
281C6564—Complete, with nickel-plated trap and pipes to floor. China indexed compression faucets. For lead pipe connection. Ship. wt., 130 lbs. Each..... \$23.55
281C6563—Same as above with pipes to wall. Each..... \$22.85
281C6614—1 1/4 in. Slip Joint Connection for connecting Lavatory trap to iron pipe. Each..... 50c

Drexel Lavatory \$15.35

Genuine White Porcelain Enamelled Cast Iron Lavatory. Length, 24 inches; width, 18 inches. Bowl, 12x15 in. Height of back, 10 1/2 in.
281C6558—Lavatory only, without pipes, faucets, outlet connection or stopper. Shipping weight, 110 lbs. Price..... \$15.35
281C6557—Lavatory complete, with nickel-plated trap and pipes to floor, and china indexed compression faucets. For lead pipe connection. Shipping weight, 120 pounds. Each..... \$22.95
281C6560—Lavatory complete, with nickel-plated trap and pipes to wall, and china indexed compression faucets. For lead pipe connection. Ship. wt., 120 lbs. Each..... \$22.25
281C6614—1 1/4 in. Slip Joint Connection for connecting Lavatory Trap to Iron Pipe..... 50c

Dudley Lavatory \$11.50

Genuine White Enamelled Cast Iron Lavatory. Size of the slab, 18x21 inches, with 11x14-inch bowl. Height of back, 8 1/2 in.
281C6554—Lavatory only, without faucets, pipes, outlet connection, or stopper. Ship. wt., 110 lbs. Each..... \$11.50
281C6556—Lavatory complete, with nickel-plated traps and pipes to floor. China indexed compression faucets. For lead pipe connection. Ship. wt., 120 lbs. Each..... \$19.10
281C6559—Lavatory complete with nickel-plated trap and pipes to wall. China indexed compression faucets. For lead pipe connection. Ship. wt., 120 lbs. Each..... \$18.40
281C6614—1 1/4 in. slip joint connection for connecting Lavatory Trap to Iron Pipe. Each..... 50c

Prices subject to market changes.

Sheffield Lavatory \$8.00

Genuine White Porcelain Enamelled Cast Iron Lavatory. Size, 16x19 inches. Height of back, 6 inches. Has 10 1/2 x 13 in. bowl.
281C6540—Lavatory only, without pipes, faucets, outlet connections, or stopper. Shipping wt., 80 lbs. Each..... \$8.00
281C6542—Lavatory complete, with nickel-plated pipes, trap to floor. China indexed compression faucets. For lead pipe connection. Ship. weight, 90 pounds. Each..... \$15.60
281C6541—As above with pipes to wall. Each..... 14.90
281C6614—1 1/4 in. Slip Joint Connection for connecting Lavatory trap to iron pipe. Each..... 50c

Altona Closet \$33.40

181C6450—Tank and seat golden oak. Copper-lined tank. Bowl is white vitreous earthen china. Improved washdown type. Nickel-plated 2-inch flush elbow with slip-joint couplings. Nickel-plated supply pipes and floor flange. Iron or lead pipe connection. Ship. wt., 100 lbs. Price..... \$33.40
181C6451—Same, with mahogany finish. Price..... \$33.70

Kenmore Lavatory

Genuine White Porcelain Enamelled Cast Iron Lavatory. Length, 24 in.; width, 20 in. Bowl; 12x15 inches. Height of back, 10 1/2 inches.
281C6595—Lavatory only, without Ideal Waste-fitting pipes, faucets, outlet connection or stopper. Ship. wt., 110 pounds. Each..... \$18.90
281C6597—Lavatory complete, with Ideal Waste-fitting, nickel-plated trap and pipes to floor, and china indexed compression faucets. For lead pipe connection. Ship. wt., 120 lbs. Each..... \$31.50
281C6599—Same as above with pipes to wall. Each..... 30.80
281C6614—1 1/4 in. Slip Joint Connection for connecting Lavatory trap to iron pipe. Each..... 50c

\$18.90

Smooth white porcelain enamel, free from defects. Concealed wall hangers.

Suffolk Lavatory

Same as Sheffield. Size 18x21 inches. Size of bowl 11x14 inches. Height of back, 8 inches.
281C6544—Lavatory only, without trap, pipes, faucets, outlet connection, or stopper. Ship. wt., 90 lbs. Each..... \$10.25
281C6546—Lavatory complete, with nickel-plated trap and supply pipes to floor. Compression faucets, with china index handles. For lead pipe connection. Shipping weight, 100 lbs. Each..... \$17.85
281C6545—As above with pipes to wall. Each..... \$17.15
281C6614—1 1/4 in. Slip Joint Connection, for connecting Lavatory Trap to iron pipe. Each..... 50c

Walton Heavy Enamelled Tub

Heavy cast-iron, with genuine white porcelain-enamel inside and over the rim.
The complete tub is fitted with nickel-plated improved Fuller double bath-cock, nickel-plated connected waste and overflow, chain and stopper and nickel-plated supply pipes to floor.
Width over rim, 30 in. Ht. to top, 23 in. Fitted for lead waste pipe.
281C6437—Bath tub complete, with trimmings and with outside painted one coat filler paint. Size, tub..... feet 4 1/2 5 5 1/2
Weight..... pounds 315 350 365
Price, complete..... \$47.20 \$47.70 \$51.10
281C6434—Bath tub with legs. (No trimmings) Size, tub..... feet 4 1/2 5 5 1/2
Each..... \$36.50 \$37.00 \$41.10
281C6614—1 1/4 in. Slip Joint Connection for connecting waste to iron pipe. Each..... 50c

\$36.50

Flavia Syphon Washdown Closet \$37.50

181C6460—White China tank of smooth, white glazed vitreous ware. Equipped with latest flushing mechanism with compound lever ball cock, copper ball float, rubber float valve, and white China lever. Bowls of best quality white vitreous china. It has positive flushing action. Strong mahogany finished seat with nickel-plated extension post hinges. Nickel-plated slip-joint elbow flush connection from tank to bowl. Nickel-plated supply pipe to floor and flange. For lead or iron pipe connection. Nickel-plated screws and washers to fasten bowl to floor. Shipping weight, 120 pounds. Price, complete..... \$37.50
181C6462—Same with white porcelain enamelled tank. Each..... \$38.25

\$37.50

Olympic Lavatory Combines Beauty and Service

Genuine White porcelain Enamelled Iron Pedestal Lavatory. Enamel is applied by a special process which insures a hard and fast contact and a smooth, white surface. Built in two separate parts—the top slab with bowl, and the pedestal, all white porcelain enamel.
Equipped with latest Ideal Lifting Knob-waste fitting with white china index. Waste fixture is of brass, nickel-plated. Faucets are of the latest Fuller type, nickel-plated, with white china handles indexed for hot and cold water.
Complete with Trap and Pipes to Wall, with Knob Waste, No Chain and Stopper, for Lead Pipe Connection.
281C6586—Lavatory complete. Length of slab, 24 inches. Width, front to back, 20 in. Size of bowl, 12x15 in. Ship. wt., 200 lbs. Each..... \$50.50
281C6587—Length of Slab, 27 inches. Width front to back, 22 inches. Ship. wt., 240 lbs. Price, comp. \$56.50
281C6614—1 1/4 inch Slip Joint Connection for connecting lavatory trap to iron pipe. Each..... 50c

\$50.50

\$50.50

Bradford Enamelled Pedestal Tub

Attractively formed of heavy cast-iron, with genuine white porcelain-enamel finish inside and over the roll rim. Has the convenient Ideal lifting waste and overflow fitting, with china waste-index; nickel-plated brass. Does away with rubber stopper and index. Complete with nickel-plated supply pipes to floor, and chain. Nickel-plated Fuller double bath-cock. Width, 30 in. With 3-in. heavy roll rim. Height to top, 23 in. Fitted for lead waste pipe and iron supply pipes.
281C6444—With outside painted one coat of filler paint. Size, tub..... feet 4 1/2 5 5 1/2
Shipping weight..... pounds 325 360 415
Price, Complete..... \$59.90 \$60.40 \$67.75
281C6452—With handsome ivory white finish on outside. Size, tub..... feet 4 1/2 5 5 1/2
Price, Complete..... \$69.90 \$70.40 \$77.75
281C6614—1 1/4 in. slip joint connection for connecting waste to iron pipe, each..... 50c

\$59.90

Middleton Steel Bath Tub

Galvanized heavy sheet steel, white paint enamelled inside. Painted blue outside. With 3 in. oak top rim and ornamental iron legs. Fitted with waste and overflow pipe, chain and rubber stopper. Has 1-inch pipe thread for lead or iron pipe.
281C6420—Length, 4 1/2 ft. Ship. wt., 75 lbs. \$11.95
Price..... \$11.95
281C6421—Length, 5 ft. Ship. wt., 80 lbs. 12.50
Price..... 12.50
281C6422—Length, 5 1/2 ft. Ship. wt., 90 lbs. 12.85
Price..... 12.85

\$11.95

Shipped from factory, Detroit, Michigan.

281C5470—Fuller double bath-cock. Nickel-plated. For 1/2 in. iron pipe connection. Ship. wt., 6 lbs. Each..... \$4.65

Madison Syphon Jet All White Closet \$55.20

181C6425—Best quality vitreous China tank, white glazed. Flushing device is of latest type. White China lever. Latest syphon-jett bowl, quiet and effective. Seat is strongly constructed of birchwood coated with genuine white celluloid. Has Nickel-plated extension post hinges. Nickel-plated offset 2-inch flush connection with slip joint coupling, nickel-plated supply pipe to floor and flange for lead or iron pipe connection. Ship. wt., 130 lbs. \$55.20
Price, compl. \$55.20
181C6427—Same with white porcelain enamelled iron tank. Price..... \$53.50

\$55.20

High Grade Closet Seats \$4.70

181C6487—Solid golden oak seat and cover. Latest design. Nickel-plated brass bar hinge. Very strongly made. With nuts and rubber washers. Ship. wt., 14 lbs. \$4.70
181C6488—Mahogany finish. Each..... \$4.85
181C6495—White celluloid enamel. Each..... \$9.80



Automatic Closets
181C6480—For basement or outside places. Requires no tank. Cast iron bowl, white porcelain enamelled inside, painted outside. Patent valve flushes automatically when the seat raises after being used. Seat is light oak. Ship. wt., 50 lbs. Each \$11.20

\$11.20

Frost-Proof Closet

181C6453—For installation in unheated buildings. Automatic and positive flushing. When in use, water is admitted to tank and later discharged to flush the bowl. Consists of cast-iron bowl, white porcelain enamelled inside, painted outside, 2 1/2 ft. lgh. soil pipe half-S trap, pressure tank and automatic valve mechanism. Can be walked directly into soil pipe-hub. Ship. wt., 115 lbs. Price..... \$30.50

For comfort install a Pipeless Furnace in your home.

***Montgomery Ward & Co Chicago

Chemical Closets, Kitchen and Bathroom Supplies

Prices subject to market changes.

Chemical Closets



This Pipe Extends to Eight Feet in Length and Furnished Complete With Every Closet.

\$10.85

Sanitary Chemical Closet

No Piping Necessary.

The Windsor Chemical closet is a health protection, a comfort and a modern home convenience. The chemical destroys all obnoxious odors and germs. The container may be safely emptied anywhere, as the contents are absolutely harmless. The Windsor Chemical closet does not pollute your well or spring like the privy vault. It is a safeguard against typhoid and similar contagious diseases.

Simple to install: can be set complete in one-half hour; easily moved from place to place.

Finished in attractive battleship gray with gold striping, highly polished. Mahogany seat and cover with heavy stop hinges and rubber bumpers. Heavily galvanized container with lower vent openings diameter about 17 in.; height about 20 inches, furnished with 8 feet of 3-in. vent pipe, 2 elbows, wall collar and 6x3 chimney reducer, all enameled to match. Paper holder and paper, 1 gal. Windsor chemical, enough to last four to six months, directions included.

181C6440—Ship. wt., about 60 lbs. Price complete, \$10.85

Price per Gallon \$1.95

Windsor Liquid Chemical

81C6441—This chemical is the result of many years experience in compounding chemicals and of much research work in which practically all makes of chemical were analyzed and tested for efficiency and freedom from obnoxious odors. This chemical is guaranteed to give perfect satisfaction in all types of chemical closets in which liquid chemical is used. One gallon will last from 4 to 6 months.

Ship. wt., 10½ lbs. Price, per gallon, \$1.95

Wood Chemical Closet

Hardwood Cabinet made of carefully selected hardwood paneled and finished to bring out the natural grain of the wood. Curved front and corners rounded. Two way metal hinges allow the lid to be raised alone and then the seat or both may be raised together.

Height 18 inches. Takes up floor space 20x26 inches.

Equipped with one 9 gallon container, 5 lengths 4 in. white enameled ventilating pipe, 1 elbow, one 6 to 4 reducing thimble and wall collar, 1 paper holder and 5 rolls of crepe paper, 1 gallon of chemical and simple directions for setting up.

181C6442—Ship. wt., 60 lbs. Price Complete, \$18.90



This Pipe Extends to Eight Feet in Length and Furnished Complete With Every Closet.

\$18.90

Erie Corner Sink With Drain Board



White Porcelain Enameled Sink, with corner back, all cast in one solid piece. There are no seams whatever in this sink for grease, etc., to accumulate. Height of back, 12 inches. Size of sink, 20 by 28 inches. Size of drain board, 20 by 26 inches. Total length of sink, 52 inches.

Prices quoted below are for sink only, with nickel-plated strainer, bolts and concealed wall hangers. Legs, faucets or trap are extra and will be found priced below.

281C6644—With right hand end piece and left hand drain board. Shipping weight, 225 pounds. Each \$46.90

281C6645—With left hand end piece and left hand drain board. Shipping weight, 215 pounds. Each \$46.90

281C6640—Cast iron adjustable ornamental legs for above sink. Shipping weight, 40 pounds. Per Pair \$3.10

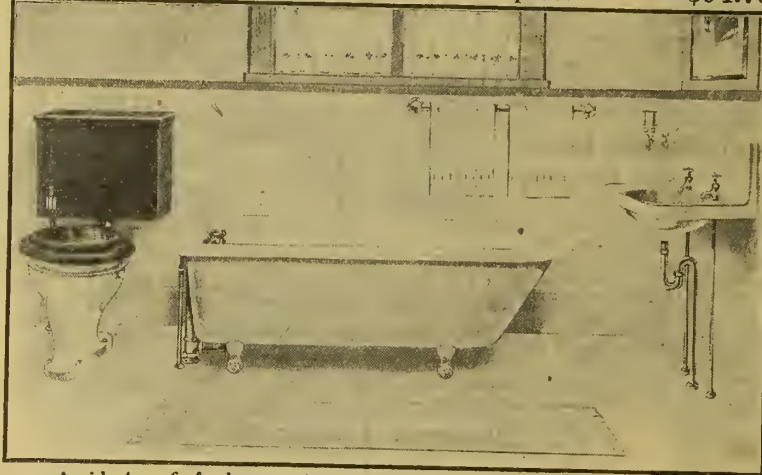
81C5449—Nickel-plated Fuller flange faucets for hot or cold water. For ½-inch iron pipe thread. Shipping weight, 1¼ lbs. Each \$1.59

81C6691—Cast iron galvanized Half-S-trap, for ½-inch iron pipe connection. Shipping weight, 5 pounds. Each \$1.80

\$94.75

Bathroom Outfit Complete

\$94.75



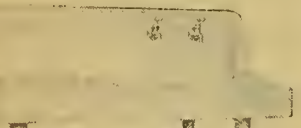
An ideal outfit for homes of medium cost. Complete for the Bathroom

Bath tub is heavy cast-iron, white porcelain-enameled inside and on rim. Outside painted one coat fliter. Length, 5 ft.; width, 30 in. With nickel-plated faucet and pipes to floor. Lavatory is nickel-plated and durable; white porcelain-enameled. Fig. 281C6540. Size, 16x19 in.; back 8 in. Concealed wall-hangers. With nickel-plated faucets and pipes to floor.

181C6331—Three fixtures described. For lead pipe. Ship. wt., 575 lbs. Price \$94.75

Note—If wanted for iron pipe waste, mention this and add \$1.00. Bathtub waste takes 1½-in. pipe; lavatory, 1½-in. pipe. Closet and lavatory supply pipes take ¾-in. pipes; bathtub, ½-in.

Windsor Wide Rim Sink



\$66.15

The entire sink and back is made in one solid piece, cast from the best grade of gray iron, white porcelain-enameled. Length, 52 inches. Width, 20 inches. Height of back, 12 inches.

Sink has waste outlet in center and nickel-plated strainer. Furnished with concealed wall hangers for attachment to wall. Height of legs is adjustable.

Made either with left or right hand drain board. Shipping weight, about 215 pounds. Prices do not include trap or faucets.

281C6661—Sink only, with left hand drain board, as illustrated. With cast iron concealed wall hangers and ornamental legs. Each \$66.15

281C6663—Sink only, with right hand drain board. With wall hangers and ornamental legs. Each \$66.15

81C5449—Nickel-plated Fuller flange faucets for ½-inch iron pipe thread. Shipping weight, 1¼ lbs. Each \$1.59

81C6691—Galvanized, Cast Iron Half-S-trap for ½-inch iron pipe connection. Shipping weight, 5 pounds. Each \$1.80

\$16.45

Novo Roll Rim Sink



Cast Iron Enameled Ware.

Shipped from Factory in Western Penn. and Chicago Stock

One-piece Roll Rim Kitchen or Pantry Sink. White porcelain-enameled iron. Clean as a china dish. No cracks or corners to collect grease and dirt. Suspended by concealed iron wall hangers. Height of back, 12 inches. Faucets and trap are not included.

Atlas Two-Part Laundry Tub

Molded in one solid piece of special granite composition, slate color. Rounded inside corners. Top edges finished with patent metallic rim and wringer guard. With ornamental cast iron legs.

Faucets are set below top rim, and the back does not extend above top of tub, permitting the tub to be equipped with wooden cover when not in use.

281C6694—Prices quoted below do not include faucets or traps. State length wanted. Shipped from factory in northern Illinois.

Lth. In.	Wtd. In.	Dpth. In.	Ship. wt. lbs.	Price, Each
47	24	14	400	\$14.50
54	24	14	450	\$16.65
60	24	14	475	\$18.85

81C6700—Stub Pattern Compression Laundry Tub Bibbs with flange for above tub. Fitted for ½-inch iron pipe connection. Shipping weight, 1 pound. Each \$2.20

81C6863—Short Lead S Trap 1½-inch, for above tub. Fitted for iron pipe connection. Shipping weight, 5 pounds. Each \$2.20

\$14.50



Sink Faucets

Fuller Sink Faucets. Nickel plated. Fitted for iron pipe thread.

Size Inches	Ship. Wt. Pounds	81C5449 Plain Spout Each	81C5459 For Hose Connection
½	7½	\$1.50	\$1.65
¾	13½	1.73	1.90

Compression Laundry Tub Bibb

Stub pattern with flange. For ½-inch iron pipe. Ship. wt., 1 lb. 81C6700—Brass finish. 72c Each 81C6701—Nickel-plated finish. Each 77c

Easton Gas Heater

181C7822—For quickly heating water in galvanized range boilers. Burns gas. Heavy blued iron casing with east iron top and bottom. Coil made of heavy, seamless copper. Iron burner in bottom. Tapping for connection to ½-inch iron water pipe. Gas valve tapped for ½-inch pipe. Heats water sufficient for bath in 30 minutes. Height, 18 in. Diam., 7½ in. Ship. wt., 50 lbs. Each \$12.35

Macon Gas Heater

181C7821—For heating water in galvanized range boiler. Burns gas. Heavy blued iron casing with east iron top and bottom. Coil made of heavy, seamless drawn copper in one piece. Couplings for ½-inch iron water pipe. Gas valve tapped for ½-inch pipe. Heats water sufficient for bath in 30 minutes. Height, 18 in. Diam., 7 in. Ship. wt., 25 lbs. Each \$8.25

Warren Kerosene Heater

181C7817—Contains four heavy copper coils made from 3-ft. pipes. Tested at a water pressure of 250 lbs. Half turn of the coils utilizes all heat and prevents back-drafts. Reservoir holds 1 gal. kerosene, which lasts 12 hours. Height 28½ in. Ship. wt., 60 lbs. Each \$25.90

Melrose Long Back Kitchen Sink



White porcelain-enameled sink with drain board. Heavy roll rim construction, rounded corners, no sharp edges or seams to accumulate grease, etc., or to injure the hands. Cast in one piece, without seams. Sink is suspended from wall, on heavy concealed iron hangers. Prices do not include faucets, trap or iron legs.

Size of sink, 20 by 28 inches. Length of drain board, 24 inches. Height of back, 12 inches. Total length of sink, 52 inches.

281C6643—52-inch Sink with Left Hand drain board. Ship. wt., 200 pounds. Each \$36.50

281C6642—52-inch Sink with drain board Right Hand side. Ship. wt., 200 lbs. Each \$36.50

281C6638—44-inch Sink with Left Hand drain board. Ship. wt., 165 lbs. Each \$33.50

281C6639—44-inch Sink with Right Hand drain board. Ship. wt., 165 lbs. Each \$33.50

281C6640—Cast iron, adjustable, ornamental legs for above sink. Shipping weight, 40 pounds. Per pair \$3.10

81C5449—Nickel-plated Fuller flange faucets for hot or cold water. For ½-inch iron pipe thread. Shipping weight, 1¼ pounds. Each \$1.59

81C6691—Cast iron, Galvanized Half-S-trap for ½-inch iron pipe connection. Shipping weight, 5 pounds. Each \$1.80

Ashley Flat-Rim Sink



281C6660—White Porcelain-enameled cast iron. Painted outside. With strainer, bolts and coupling, for ½-in. or 1½-in. lead trap. In pipe couplings 1½c extra.

Size, In.	Ship. Wt.	Each
18x30x6	60 lbs.	\$7.20
20x30x6	70 lbs.	7.95

81C6688—Cast Iron Sink trap fitted for 1 in. iron pipe. Ship. wt., 4 lbs. Each \$1.00

Sink Drain Board



White-enameled cast iron. For either right or left side. With heavy bracket. For flat or roll rim sinks. 281C6668—Size, 18x24 in. Ship. wt., 40 lbs. Each \$7.60 281C6669—Size, 20x24 in. Ship. wt., 50 lbs. Each \$8.20

Iron Pipe Sink Connector

81C6687—Cast Iron. Connects by bolts. Not for steel sinks. Tapped 1½-in. pipe. Shipping weight, 1½ lbs. Each \$3.00

Sink Brackets Cast Iron adjustable. Size 11½x15 in. Ship. wt., 4½ lbs. 81C6705—Painted Pair \$0.70 81C6706—Galvanized Pair 1.20

Cast Sink Trap

81C6688—Cast Iron. Threaded 1½-in. pipe. Connects with strainer bolts. Not for steel sinks. Ship. wt., 4 lbs. Each \$1.05

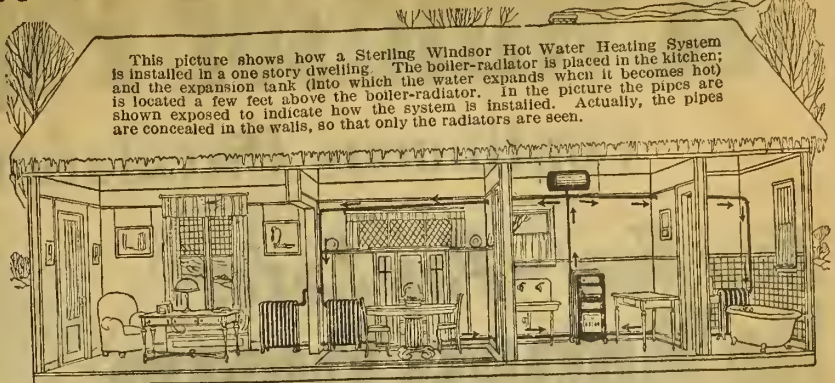
Have Hot Water Heat at Moderate Cost \$168⁵⁰ and up

Sterling Windsor Heating System Sold On Easy Payments No Interest

With this system you can heat all parts of your house uniformly and comfortably at a fuel expense not much greater than that of a heating stove that would heat only one or two rooms. No more chilly rooms, or cold, drafty corners. Radiators located in every room send out a gentle, genial warmth, even in coldest weather. The wonderful comfort and economy of hot water heating are yours—and at a comparatively low cost.

Nothing could be simpler, easier to operate, or more efficient. A combination boiler-radiator takes the place of your parlor stove, heats the room in which it is placed, and distributes the excess heat through connecting radiators stationed in four or five adjoining rooms. The water is heated in the boiler-radiator, which is located in your parlor, living room or kitchen, and fired just as you fire an ordinary heating stove. As the water becomes hot it rises several feet to an expansion tank; and from this tank it flows by gravity through pipes inclined downward to radiators in the other rooms. Reaching these radiators, the water gives off its heat to the various rooms, and then flows back through a set of return pipes to the boiler-radiator, where it is re-heated and sent around again.

The Sterling Windsor System is scientific in construction, compact, attractive, and long-lasting. It will give you clean, healthful, economical heat for many years. It does away with blacking, taking down and storing of stoves. The boiler-radiator and room radiators may be painted or enameled any color to match woodwork or decorations.



This picture shows how a Sterling Windsor Hot Water Heating System is installed in a one story dwelling. The boiler-radiator is placed in the kitchen; and the expansion tank (into which the water expands when it becomes hot) is located a few feet above the boiler-radiator. In the picture the pipes are shown exposed to indicate how the system is installed. Actually, the pipes are concealed in the walls, so that only the radiators are seen.

Made in six sizes to heat houses of from one to nine rooms. Size of System required depends upon the number and size of radiators needed, amount of exposure, and number and size of windows in the house. Our Engineering and Estimating Department will plan your installation, furnishing detailed working plans and specifications for the job. You can make the installation yourself with the aid of our charts and instructions. Prices range from \$168.50 for the smaller size systems to \$414.50 for the largest. Our easy payment plan enables you to buy the size you need and pay for it in small monthly installments.

Estimates Furnished Free

Send today for a free estimate; and a copy of our Heating and Plumbing Catalog containing detailed description of the Sterling Windsor.



Windsor Hot Water and Steam Boilers

Write for Our Easy Payment Prices

Hot Water Heat

A Hot Water Heating System is generally considered the most desirable for the average home or apartment building. It gives you a clean, even heat, easily regulated, and economical in the use of fuel. Heats every corner of your home.

Steam Heat

A Steam Heating System is acknowledged as the best for large residences, apartments or public buildings. Quick results and a high temperature are easily obtained. Easy to install and regulate.

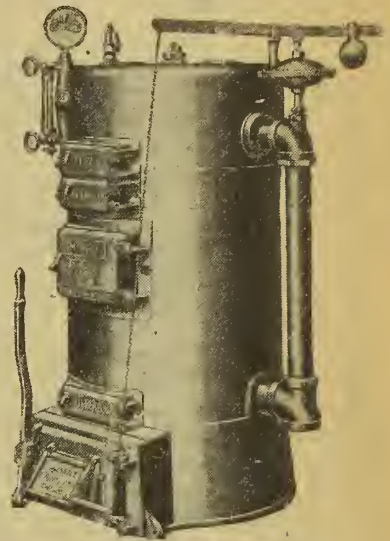
Giant Windsor Heating Boilers

For Hot Water and Steam Heat

Round type—of highest efficiency. Cast-iron, with corrugated large surface fire pot. Rocking grates and every improvement. Sections are joined with heavy tapering push-nipples. Large fuel door. Hot-water boiler is fitted with a float-gauge and thermometer. Steam-boiler is fitted with diaphragm for regulating draft and check-dampers, steam-gauge, pop-safety valve and water-gauge.

281C7831—Hot Water Boiler			Diam. Fire Pot Inches	Sections above Fire Pot	Feed Door Inches	281C7832—Steam Boiler		Cash Price
Capacity Sq. ft. Radiation	Shp. wt. Lbs.	Cash Price				Capacity Sq. ft. Radiation	Shp. wt. Lbs.	
525	660	\$ 89.90	18	1	8 1/2 x 11	325	760	\$109.50
600	775	111.50	18	2	8 1/2 x 11	375	865	124.00
650	890	124.00	21	3	8 1/2 x 11	400	970	136.50
825	990	144.85	21	3	8 1/2 x 11	500	1090	165.00
925	1110	153.45	24	3	8 1/2 x 11	550	1210	185.85
1100	1185	167.55	24	3	8 1/2 x 11	650	1250	202.00
1200	1390	196.85	28	3	8 1/2 x 13	700	1425	212.35
1450	1500	220.95	28	3	8 1/2 x 13	875	1640	223.00
1550	1710	248.00	31	3	8 1/2 x 13	950	1850	248.00
1850	1625	282.10	31	3	8 1/2 x 13	1125	1890	302.00
2000	1870	302.00	31	3	8 1/2 x 13	1200	2060	320.85
2100	2125	320.00	31	4	8 1/2 x 13	1275	2240	339.45

Shipped from factory in Western New York. Prices subject to market changes.



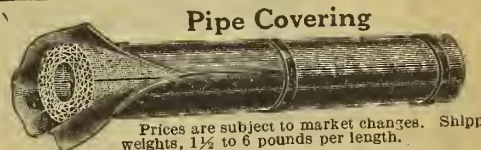
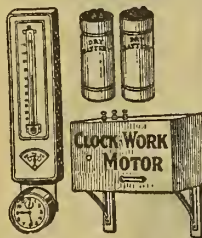
On Cold Frosty Winter Mornings When You Don't Feel Like Getting Up The Windsor Automatic Heat Regulator

Will Automatically Regulate the Temperature in Your Home

For Furnaces or Boilers—Keeps temperature at any desired degree, day and night, regardless of weather. As temperature tends to rise or fall the motor will shut off or open draft and damper. Thermostat is mounted in brass case, for living room wall. With clockwork motor and crank, ball-bearing pulleys, damper chains, wire and electric dry batteries for basement. Shp. wt., 30 pounds.

181C7899—With clock attachment. For keeping temperature lower at night and warmer by getting-up time. Price..... \$34.75

181C7898—Without clock attachment. Price..... 29.80



Pipe Covering

Prices are subject to market changes. Shipping weights, 1 1/2 to 6 pounds per length.

WOOL FELT. For hot and cold water pipes.
181C7930—1 inch thick.
For pipe size..... 1/2 3/4 1 1 1/4 1 1/2 2 2 1/4 3 3 1/4 4
Per 3-ft. length..... 48c 52c 59c 65c 72c 78c 87c 98c \$1.09 \$1.31
181C7926—3/4 inch thick.
For pipe size..... 1/2 3/4 1 1 1/4 1 1/2 2 2 1/4 3 3 1/4 4
Per 3-ft. length..... 38c 42c 47c 52c 57c 63c 70c 78c 87c \$1.05
ASBESTOS. For steam, hot or cold water pipes.
181C7928—1 inch thick.
For pipe size..... 1/2 3/4 1 1 1/4 1 1/2 2 2 1/4 3 3 1/4 4
Per 3-ft. length..... 37c 41c 46c 51c 56c 61c 68c 77c 85c \$1.02
181C7927—3/4 inch thick.
For pipe size..... 1/2 3/4 1 1 1/4 1 1/2 2 2 1/4 3 3 1/4 4
Per 3-ft. length..... 32c 35c 38c 43c 47c 52c 58c 65c 72c 86c

Write for Our Plumbing and Heating Catalog

Important

In selecting a boiler choose one rated at double the amount of radiation. To illustrate: If the radiators for your building total 300 sq. ft., not including piping in basement, etc., then a boiler rated at 600 sq. ft. should be selected. For plants of 1000 sq. ft. and over you need add but 75% to the amount of radiation to determine the proper size boiler. We will furnish any advice on your plumbing or heating problems free of charge.

Radiators for Hot Water and Steam Plain Design—3 Column. Made of smooth cast iron with tapered steel push-nipple joints. To figure the cost of any particular size, simply multiply the number of square feet in the radiator by the price per foot. Hot water radiators are tapped as follows, unless otherwise specified: Up to 50 sq. ft., 3/4 in. feed and return; 50 sq. ft. to 100 sq. ft., 1-in. feed and return; over 100 sq. ft., 1 1/4 in. feed and return. Steam radiators are tapped as follows, unless otherwise specified: Up to 30 sq. ft., 1-in. supply; 30 sq. ft. to 60 sq. ft., 1 1/2 in. supply; 60 sq. ft. to 120 sq. ft., 2 in. supply; over 120 sq. ft., 2 1/2 in. supply.

Number of Sections	12	14	16	18
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100	196	198	200	202

Galvanized Range Boilers Connected with a water front in stove or coil in furnace, or with gas heaters. Heavy steel, strongly made and tested at factory to 200 lbs. pressure and intended for a maximum working pressure of 85 lbs. Height of boilers, 60 in. Actual capacity is a little less than trade size. (Prices subject to market changes.) Range Boilers Complete With stand and couplings as illustrated.

Number	Size Trade	Shp. wt. Lbs.	Each
181C6720	30 gal.	85	\$18.15
181C6722	40 gal.	100	22.20
181C6723	52 gal.	120	33.85

Range Boilers Only Without stand, couplings or fittings of any kind.

Number	Size Trade	Shp. wt. Lbs.	Each
181C6724	30 gal.	70 lbs.	\$15.40
181C6726	40 gal.	85 lbs.	19.45
181C6727	52 gal.	100 lbs.	29.75



Atlas Windsor Warm Air Furnace With Cast Iron Heater For Use with Pipes and Registers

Heavy cast-iron radiator. Will not rust out. Burns any kind of fuel—hard coal—soft coal—wood—coke—or coals. Cast-iron radiator, deep corrugated fire pot—revolving grate bars—large feed door. Saves fuel—easy to operate. Complete detailed description of Atlas Windsor Furnace in our Special Heating Catalog. Write for it. Free.

Prices include Regulating Dial and Damper Chains, Check Draft and Firing Tools

All pipes and fittings are extra. See our Special Heating Catalog for complete line of registers and fittings.

Model	Capacity	Shp. wt.	Price
181C7985	20-inch fire pot, heating capacity 10,000 cu. ft.	780 lbs.	\$88.50
181C7986	22-inch fire pot, heating capacity 15,000 cu. ft.	915 lbs.	\$104.40
181C7987	24-inch fire pot, heating capacity 20,000 cu. ft.	1,125 lbs.	\$127.50
181C7988	26-inch fire pot, heating capacity 30,000 cu. ft.	1,340 lbs.	\$149.50
181C7989	28-inch fire pot, heating capacity 40,000 cu. ft.	1,570 lbs.	\$186.75
181C8008	30-inch fire pot, heating capacity 50,000 cu. ft.	1,700 lbs.	\$222.00

Prices subject to market changes. Shipped from warehouse in Southern Illinois and Southern Michigan. Note—The top bonnet of furnace is furnished without any holes for pipes; these are to be cut as required, while being installed.

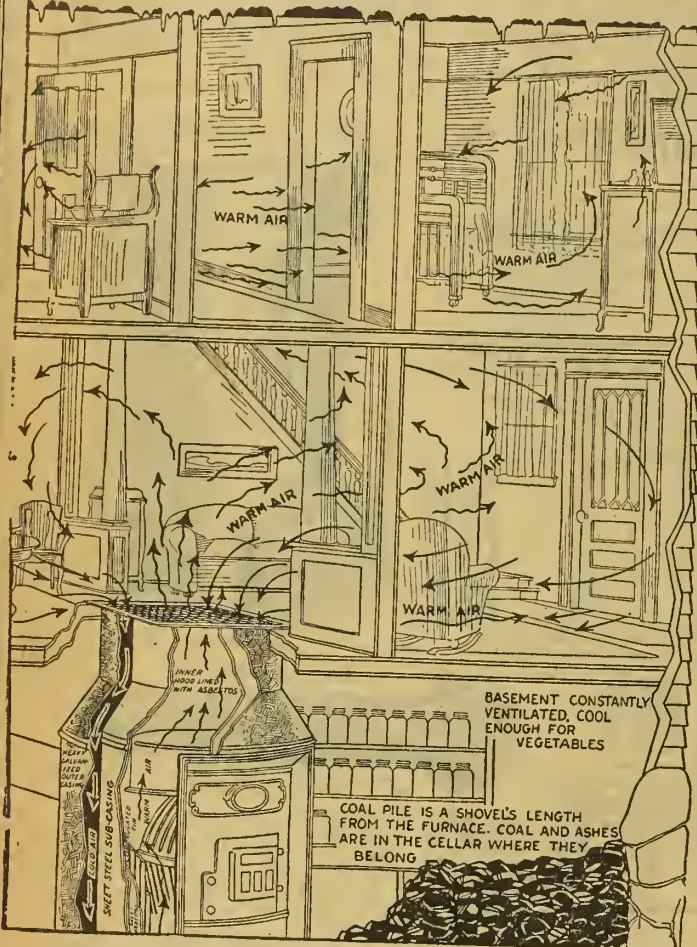
181C7959	Galv. Smoke Pipe, 8 in.	Shp. wt., 2 1/2 lbs. per foot.	46c
181C7959	Galv. Smoke Pipe, 9 in.	Shp. wt., 3 lbs. per foot.	48c
181C7961	Galv. Adjustable Elbows, 8 in.	Shp. wt., 2 1/2 lbs. Each.	76c
181C7961	Galv. Adjustable Elbows, 9 in.	Shp. wt., 3 1/2 lbs. Each.	87c

Shipped from Stock at Chicago and warehouses. Also Sold on Easy Payments. Write us for complete estimate.

A Windsor Pipeless Furnace

Continuous Circulation of Warm, Refreshing Air

Buy Now - Pay Later
No Money Down
\$13⁹⁸ a Month for Ten Months
NO INTEREST



Wavy Arrows Indicate Warm Air Being Circulated Through House from Windsor Pipeless Furnace.
 Straight Arrows Indicate Cold Air Being Drawn Back to Furnace To Be Re-Heated.

Your heating problems are solved when you install Windsor. It heats your whole house, upstairs and down, evenly and comfortably. You don't need to shut off your rooms for the winter.

Furnace, coal and ashes are in the cellar; no dust or ashes accumulate in your living rooms. Curtains and rugs stay clean, lessening the housework.

The Windsor is easy to operate, and economical. It heats through one centrally located register, with pipes—and the moment your fire is started the furnace begins to circulate warm air. Every bit of heat goes directly from the furnace into the rooms where it is needed; there is no waste. You get the full benefit of all the heat from your fuel.

Windsor Pipeless Furnaces are not a novelty, by any means. We began selling them years ago; and have sold many thousands since. Our customers have had plenty of time to test them for service, efficiency and durability. The fact that we sell more and more each succeeding year is proof of their popularity, usefulness and economy.

It Circulates Warm Air

A Windsor heats your house by circulating warm air through every room. The register is a combination cold-air intake and warm-air outlet, located directly above the furnace. The heat created in the furnace drives the hot air up through the center section of the register. This air rises, is deflected to circulate through the doorways and transoms of all adjoining rooms, and passes up the stairway to warm the upstairs. As it rises, it cools, and when it cools it falls to the floor again. Then it is drawn along the floor toward the register, where it is drawn downward through the cold air section of the register and into the furnace. Here it is re-heated, purified and moistened by vapor from the water pan; then sent upward again through the hot air section of the register, to circulate around the house once more.

The warm air pours out in a steady volume as long as the fire is kept up. It circulates all through the house, into every corner of every room—forcing the cold air ahead of it back to the furnace to be heated again. That's all there is to the principle of the pipeless furnace. It heats by circulating the air; and has proved itself to be one of the most satisfactory and economical heating devices ever known.

Plenty of Heat No Dirt

You will be surprised at the large amount of heat your Windsor Pipeless Furnace will send to your home. There's no need to carry coals—the coal bin is right alongside the furnace, a shovel's length from the furnace door. The high ash pit is so big it need not be emptied often. With the furnace in your cellar, you will be rid of all the dirt and dust that come from a heating stove set up in a living room.

A Windsor is easy to operate, too. It is merely a fire in a heavy cast iron jacket with two galvanized steel insulated air casings around it—one to send the heat up, the other to draw the cold air down. A small boy can tend the fire; a child can operate the drafts.

It is easy to put up, and you do not need special tools or expert help. Our Heating and Plumbing Bureau furnishes illustrated instructions for the work. You can make the complete installation in less than a day's time. The furnace can be installed in an old house as easily as a new one. If you do not have a cellar, you can dig a pit big enough to hold the furnace, and a supply of fuel.

Our easy payment plan requires you to pay only a small amount monthly. Send us the coupon today. It means no coal, smoke or ashes in your living room; no more putting up and taking down stoves every six months; no more cold rooms. It brings you a furnace that gives better, cheaper and more satisfactory heat for your home.

A Small Pipeless Furnace for Small Homes THE COTTAGE WINDSOR

**\$79⁸⁰ Sold for
up Cash Only**

Built expressly for heating cottages and small bungalows, our Cottage Windsor Pipeless Furnace will give very good service, though it is not as efficient nor as economical as the larger, heavier, and better-constructed Windsor Pipeless shown on the opposite page.

A Cottage Windsor Furnace is placed in the cellar, the register level with the floor of the room or hallway directly above it. This means no dust, coal, smoke or ashes in your living rooms. Your carpets and your curtains will stay clean. You will have no unsightly stove pipes and can use all the floor space formerly needed for your heating stove. You can burn either coal or wood, and get more and better heat from your fuel.

The Cottage Windsor has a cast iron fire pot, steel radiator, roomy combustion chamber, triangular revolving grates, and a galvanized steel casing adjustable for any basement with a 6 to 8 ft.

ceiling. The feed door is large enough to accommodate big chunks of coal or wood. Prices include floor register, damper chains and pulleys, shaker, poker and cement to make all the joints gas and tight. Smoke pipe is not included.

You can set up a Cottage Windsor Furnace yourself, in less than a day's work. If you have no cellar, you can easily dig a pit big enough to accommodate the furnace and the fuel you need. You can install a furnace in an old house as well as in a new one. Cold air can be taken direct from the basement, or from the outside through cold air ducts connected to a basement window.

This furnace is an excellent heater for the price; but if you want the most durable, economical and efficient pipeless furnace you can get, we recommend the Windsor Pipeless Furnace shown on the opposite page.

Shipped Complete Ready to Install

From Warehouses in Southern Michigan or Southern Illinois.

- 181C7959—Galv. Smoke Pipe 8 in. Shp. wt. 2½ lbs. Per foot46c
 - 181C7959—Galv. Smoke Pipe 9 in. Shp. wt. 3 lbs. Per foot48c
 - 181C7961—Galv. Adjustable Elbows 8 in. Shp. wt. 1½ lbs. Each76c
 - 181C7961—Galv. Adjustable Elbows 9 in. Shp. wt. 3½ lbs. Each87c
- Above Pipe and Elbows shipped from Chicago store or from factory with furnace. Prices subject to market changes.

Sizes, Article Numbers and Prices of Cottage Windsor Pipeless Furnaces

Article Number	281C7990	281C7991	281C7992
Diameter of Fire Pot, inches	20	22	24
Depth of Fire Pot, inches	10½	10½	11
Diameter of Casing, inches	36	40	44
Size of Register, inches	18x22	20x26	22x26
Size of Feed Door, inches	8½x12	8½x12	11x12
Diameter of Smoke Pipe, inches	8	8	9
Heating Capacity, cubic feet	6,000	10,000	15,000
Shipping weight, approx. lbs.	750	850	850
Cash Price, complete	\$79.80	\$95.95	\$103.00

281C8166—Wood Burning Grate. \$2.95 \$3.75 \$3.90

Shipped from Warehouses in Southern Mich., and Southern Illinois.

The wood burning grate is set on top of the regular coal grate when wood is used as fuel.
 281C8167—Water Heating Coil, for use with a range boiler. Shipping weight, about 10 lbs. Each. \$2.75
 Prices subject to market changes. The dimensions given above are approximate and may vary slightly.

Keeps Every Room in Your House

Keeps the House Comfortable on Coldest Days
\$13.98 A Month

No Interest

Combination Warm and Cold Air Register

Strong, durable and well-made, Windsor Pipeless Furnaces are scientifically designed and built to give the best results from the smallest amount of fuel. Every bit of material that goes into them is rigidly inspected and care-tested to guard against defects. The cast iron parts are made from new pig iron, not scrap iron. A Windsor furnace will give dependable, satisfactory service for years. The joints are gas tight. The fire pot is heavy cast iron. The ash pit is high, to prevent burning out the grates; the revolving grate bars are triangular in shape, to pick up and stop the formation of clinkers. No pipeless furnace on the market is easier to operate.

When you buy a pipeless furnace you must be sure to get a large extent upon the reputation of the manufacturer which sells it. There are many pipeless furnaces on the market, and it is easy to cut corners and reduce the price—at a sacrifice of quality. Windsor furnaces are built up to a standard and not down to a price. To heat successfully, a furnace must be built right, and if you buy a furnace you are courting trouble. We have no hesitancy in recommending the Windsor Pipeless Furnace. It is not the most expensive furnace to be had, nor is it as inexpensive as the "Cottage Windsor" quoted at the bottom of the opposite page. We consider it as good value as has ever been made and well worth its price. If it did not possess the merits we claim for it, we would not consider offering it in such easy terms with satisfaction guaranteed or your money back.

Fuels: Hard or soft coal, coke, wood, gas or oil.

Fire Door will admit big chunks of coal and prevent leakage of smoke and gas. Door opens when firing. Has horizontal slide to admit air above fire when required. Fire Pot is of heavy cast iron, corrugated on the heating surface, and made in sections deep-cut, tongue and groove gas-tight joints. The joints allow for expansion and contraction without stress or strain. Sides of firepot are set vertical; ashes cannot accumulate and out radiation of heat. Large capacity of water pan makes it necessary to fix the fire only once, except in coldest weather.

Tight Joints prevent leakage of smoke and gas.

Revolving Triangular Grates are durable, easy cleaned, and so designed as to prevent formation of clinkers. Conveniently located for hand is at just the right height to work easily.

Corrugated Fire Dome is one solid casting, corrugated to increase surface and built high to prevent combustion. Plenty of room for circulation over and around it. Top of feed mouth is set upward so smoke and gas will not escape and door is open.

Heavy Cast Iron Radiator is much better than many steel radiators, which rust or warp, and radiate smoke and gas. Fire and smoke must travel the entire surface of the radiator, which burns every particle of heat possible before it passes up the chimney. The radiator is placed directly under the warm air outlet, thus insuring efficient radiation of all the heat.

Water Pan is low and easy to fill. Holds two quarts. Water evaporating, produces a refreshing, moist, warm air—more healthful than the usual dry heat; and does not loosen the joints in your chimney.

Drafts can be operated from the living room or way above the furnace; no need to go to the furnace. Damper chain arrangement is so simple a child can handle it.

Ash Pit is roomy; ashes need not be emptied often. Door is big, and swings open wide for cleaning.

Cold Air Channel leads from outer edge of combination warm and cold air register in bottom furnace. Is large, to insure continuous circulation while fire burns. An adequate supply of return air is essential to capacity and efficiency.

Galvanized Sheet - Steel; Asbestos Lined Sub-Casing with inner wall of corrugated tin, absolutely prohibits warm air from escaping into cold air channel, and prevents radiation of heat to the outside casing. That is why a Windsor Pipeless Furnace is cool around the outside, allowing you to store vegetables and fruits near it without spoiling them. Insulating casing ends at the proper height from the base of the furnace to insure a free and easy flow of return air to the warm air channel.

Warm Air Channel surrounds fire-pot, fire dome and radiator, conveying every particle of heat upward through the register.

Inner Hood is a special insulated type, lined with asbestos, to prevent escape of warm air into cold air channel.

Heavy Outer Casing of galvanized steel is further insurance that your cellar will stay cool, making it a safe place to store foodstuffs.

Clean Out is conveniently located for removal of soot.

Combination Warm and Cold Air Register is beautifully finished, adds to the attractiveness of room or hallway in which it is placed. Delivers the proper volume of warm air into the rooms at a low velocity, and takes in an equal volume of cold air. The proper ratio of size between warm-air outlet and cold-air intake has been determined to make for greatest efficiency.

Sturdy Braces and Supports make the Windsor stout and rigid. This construction prevents warping and insures years of satisfactory service.

Warm Air Circulates: Cold or return air enters outer section of register and flows down the channel between the outer casing and the asbestos lined sub-casing. This sub-casing extends to within a foot of the furnace base, thus permitting the cold air to pass under it in the warm air channel. As the air passes under, it becomes heated as it is heated it rises, gathering speed as the temperature rises. Passing upward through the warm air channel it goes through the inner hood and leaves the center or warm air section of the register traveling at an average rate of 300 feet per minute. This circulation takes place continuously while the fire burns, the furnace pumping warm air through the house and forcing cold return air back into the cold air channel to be re-heated and circulated again. Every corner of every room is thus reached with warm, moist, refreshing air.

Size To Order: Multiply the length of your house by its width. Then multiply the result by the height of the house. This will give you the total contents of your house in cubic feet. Add 10 to 20 per cent, depending on the exposure to the wind, to this figure, and select a furnace of corresponding capacity as listed in the table below. If your house is unusually hard to heat, located in a very cold climate, or if you plan to burn wood or a poor grade of soft coal, we recommend ordering a size larger furnace than your figures show you need. It is always better to have a furnace a little larger than your actual requirements.

Made to install in basement with an 8 foot ceiling; but can easily be fitted to a lower ceiling by cutting the galvanized casing at the top to desired height, with ordinary tinners' shears. Longer throats can be furnished for ceilings of greater height.

Shipped complete down in sections that will go through an ordinary doorway. Smoke pipe not included.

For Prices of Smoke Pipe see Opposite Page

Size, Article Numbers and Prices of Windsor Pipeless Furnaces	281C7995	281C7996	281C7997	281C7998
Article Number	20	22	24	26
Diameter of firepot, inches	10	12	14	16
Depth fire pot, inches	42	46	50	54
Diameter Outside Casing, inches	10 1/2 x 10 1/2	10 1/2 x 12 1/2	10 1/2 x 13 1/2	10 1/2 x 13 1/2
Fire door size, inches	8	8	8	9
Smokepipe diam., inches	28x28	30x30	32x32	36x36
Register, inches	13,000	17,000	25,000	40,000
Leading Capacity, cubic ft.	1,200	1,350	1,500	1,700
Approximate shipping wt.	\$139.80	\$160.30	\$186.50	\$229.90
Easy Payment price	\$13.98	\$16.03	\$18.65	\$22.99
Amount of Monthly Payment	\$129.75	\$149.75	\$175.00	\$210.00
Cash Price				
Shipped from Warehouses in Southern Michigan, Southern Illinois, Saint Paul, Minnesota.				

The prices shown below apply to shipments made from the Saint Paul warehouse only.

Easy Payment Price \$150.60 \$171.50 \$197.90 \$234.60
 amt. of Monthly Payments 15.03 17.15 19.79 23.46
 Cash Price 140.45 160.50 185.90 221.25

181C8166—Wood Burring Grates. \$3.05 \$3.90 \$4.10 \$4.70
 181C8167—Water Heating Coil, for use with a range boiler. Shipping weight, about 10 lbs. \$2.75

The measurements given above are approximate and may vary slightly.

Montgomery Ward & Co., Chicago, Ill. Date _____ 1920

Gentlemen: Please ship me Windsor Pipeless Furnace No. _____ Price \$ _____, on the following terms: Within one month after receiving it I will pay you \$ _____ and I will pay you the same amount each succeeding month, until the furnace has been paid for in full. Then it will become my property. I am to pay no interest.

Sign Your Name Here _____ Occupation or Business _____
 P. O. _____ Street _____ I have lived here since _____
 R. F. D. _____ and No. _____ Do you own property in which furnace will be installed? _____ Mortgaged? _____

Shipping Point _____ Name or party holding legal title or mortgage _____
 County _____ R. R. Co. _____

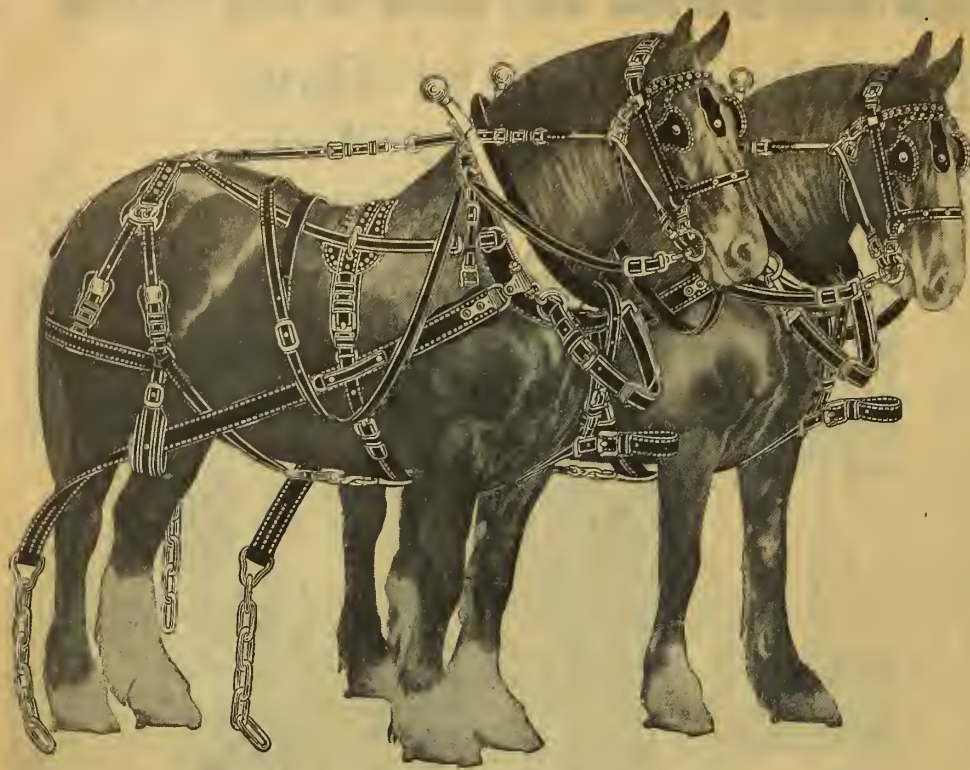
Please give references, including bank you do business with: _____
 Address _____
 Address _____
 Address _____

1. Name _____ Address _____
 2. Name _____ Address _____
 3. Name _____ Address _____

No Money Down
Easy Monthly Payments
Use This Coupon

Shipped Complete, Ready to Install, from Warehouses in Southern Michigan, Southern Illinois and Saint Paul, Minn.

Wardway Harness—Made in Our



You'll Be More Than Satisfied with the Material and Workmanship

WARDWAY Harness which is made in our own factory is cut from leather that has been tanned to a tough and pliable condition. Hard, stiff leather will not work well and is liable to break when subjected to a sudden strain.

Well-tanned leather is often spoiled in being cured, the finishing part of the tanning process, which the leather is softened by the application of oils and grease. We use leather that has been well curried and which possesses a surface free from roughness. The hides are free from scratches, cuts by the butcher. It is of a fine mellow tannage and curried in the best manner possible, with pure oils and grease. Correct thicknesses are chosen for each part of the harness. This fact is so well understood by Wardway workmen, that they never cut a harness from a single side. Splitting machines are avoided entirely.

Hercules

This is the well-known "Hercules" harness—a harness which is capable of, and has given, great service. It is a heavy harness, solidly built, and can be used for heavy hauling. The description of this wonderful harness follows:

- Bridles**— $\frac{7}{8}$ in. heavy cheek with bit straps and noseband, wide folded ring crown, sensible blinds, round side check with gag swivels, combination double and stitched winker brace and front spotted, and face drop, $\frac{7}{8}$ inch center check-up strap.
- Lines**— $1\frac{1}{8}$ in. x 18 ft. with security buckles and snaps.
- Traces**—Heavy $1\frac{1}{2}$ in. x 6 ft. double and stitched with sewed-in heel chain, jointed clip at front, $1\frac{1}{4}$ in. billets, folded bellybands with layer.
- Pads**—6 in. swell double and stitched, harness leather top, felt lined and spotted, with solid brass bows and $1\frac{1}{4}$ in. skirts.
- Breeching**—Heavy folded with layer and 1 in. lead-ups, $1\frac{1}{2}$ in. single reverse side straps, 1 in. lazy straps with wide liner.
- Back and Hip**—Heavy 1 in. hip straps, 3 ring style with side trace carriers. 1 in. back straps to hame, with crupper fork and crupper.
- Breast Straps**—Heavy $1\frac{1}{2}$ in. x $4\frac{1}{2}$ ft. sewed loops, with snaps, slides and leather loops.
- Martingales**—Heavy $1\frac{1}{2}$ in., double and stitched around loop in front, making double wear around neck yoke, with $\frac{7}{8}$ in. collar straps.

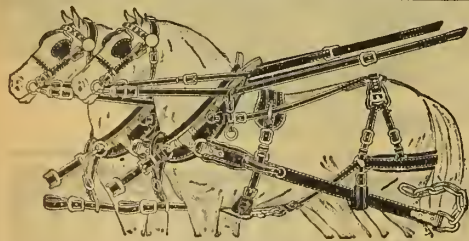
- Hames**—95C2046 Red, wood, iron clad bolt, 2 in. Chicago brass ball top, 1 in. hame straps, $\frac{3}{4}$ in. spread straps with wood rollers.
- Trimming**—Japan (black) buckles with brass ball hames, brass shields and brass spots. For horses up to 1500 pounds.

- Weight, boxed for shipment, about 90 pounds.
- 95C1303**—Without collar and hitch reins. Price, per set. \$110.00
- 95C1304**—Same as 95C1303, only with $1\frac{3}{4}$ in. heavy traces. Per set. 112.00
- If pads are not wanted, deduct, per set. 11.00
- For 95C2065 Monarch steel bolt hames with 2 in. brass ball top in place of regular, add, per set. 20.00
- If crupper fork and crupper not wanted, deduct, per set. 2.00
- If center check-up straps not wanted, deduct, per set. 15.00

Hercules Extra Large Team Harness

Extra large harness for 1700 to 1800 lb. horses. Same style as 95C1303 only made extra large and extra heavy, with $1\frac{3}{4}$ in. breast straps and martingales. $1\frac{3}{4}$ in. x 6 ft. 4 in. extra heavy traces. Lines, $1\frac{1}{8}$ in. x 20 ft. $1\frac{1}{8}$ in. Back and Hip Straps. Weight boxed, about 100 lbs.

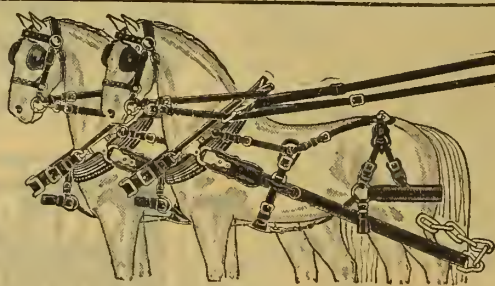
- 95C1332**—Without collars and hitch reins. Price, per set. \$130.00
- 95C1333**—Same as 95C1332, only 2 in. x 6 ft. 4 in. traces. Per set. 132.00



20th Century Team Harness

- Bridles**— $\frac{3}{4}$ inch heavy cheek with bit strap and noseband, round winker brace, sensible blinds, flat check to check over hames.
- Lines**—1 inch x 18 ft., with security buckles and with snaps.
- Traces**—Heavy, $1\frac{1}{2}$ in. x 6 ft. double and stitched, chain clipped on, scalloped safe at front, jointed clips at front, $1\frac{1}{4}$ in. billets, folded bellybands with $1\frac{1}{4}$ inch buckles.
- Pads**—4 inch harness leather top, felt bottom, $1\frac{1}{4}$ inch reverse billets, solid brass bows.
- Breeching**—Folded with layer, without lead-ups, lazy straps 1 inch to reverse and with extra wear leather. Side strap. $1\frac{1}{2}$ inch single reverse.
- Back and Hip**—1 inch hip straps to reverse into breeching made 3 ring style with metal trace carrier on side, 1-inch hame strap through to hame, with wear leathers.
- Breast Straps**—Heavy, $1\frac{1}{2}$ in. x $4\frac{1}{2}$ ft. metal loops, snaps and slides.
- Martingales**—Heavy, $1\frac{1}{2}$ inch (standard length) with $\frac{7}{8}$ inch riveted collar strap.
- Hames**—95C2050 oiled Concord holt, with $\frac{3}{4}$ inch riveted spread straps with Durand rings. 1 inch hame straps.
- Trimming**—Japan (black) buckles with brass rosettes and spots.

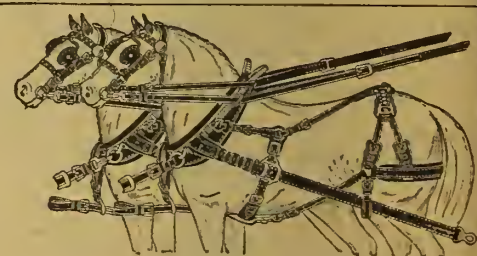
- For horses up to 1400 lbs. Ship. wt., about 80 lbs.
- 95C1114**—Without collars and hitch reins, per set. **\$88.25**
- 95C1115**—Same as 95C1114, except with $1\frac{3}{4}$ inch traces. **90.35**
- For $1\frac{3}{8}$ inch x 18 ft. lines, in place of regular, add, per set. **1.15**
- For 95C2065 steel bolt hames, large brass balls, in place of regular, add, per set. **3.25**
- If pads are not wanted, deduct. **5.25**
- If without Martingales and collar straps, deduct, per set **3.25**



Dandy Team Harness

- Our Best grade in this style of harness. Made with roller buckles and leather loops throughout.
- Bridles**— $\frac{7}{8}$ in. heavy cheek with hit strap and noseband, round winker brace, and flat side check, sensible blinds, spotted fronts and noseband.
- Lines**— $1\frac{1}{2}$ in. x 18 ft. with buckle and billet and snaps.
- Traces**—Heavy $1\frac{1}{2}$ in. x 6 ft. double and stitched, with 6 link heel chain sewed in, jointed front clips.
- Hames**—95C2050 oiled Concord bolt, 1 in. sewed hame straps, $\frac{3}{4}$ in. spread straps with wood rollers, bellybands folded with layer.
- Back and Hip**—1 in. straps, 3 ring style, side trace carrier, 1 in. back strap to $1\frac{1}{4}$ in. market tug and with 1 in. shoulder straps.
- Breeching**—Heavy folded with $1\frac{1}{2}$ in. layer, $1\frac{1}{2}$ in. single reverse side straps, $\frac{7}{8}$ in. lazy straps.
- Breast Straps**—Heavy and sewed loops, $1\frac{1}{2}$ in. x $4\frac{1}{2}$ ft. with snaps and slides.
- Martingales**— $1\frac{1}{2}$ inch and doubled and stitched around loop in front, making double wear around neck yoke, and $\frac{7}{8}$ in. collar straps, with leather loops.

- For horses up to 1500 pounds.
- Weight, boxed for shipment, about 80 pounds.
- 95C1151**—Japan (black) trimmed, without collars and hitch reins. **\$92.50**
- 95C1152**—Same as 95C1151, only with $1\frac{3}{4}$ inch traces. **94.75**
- For long round side checks and gag swivels in place of flat, add, per set. **1.50**
- Add for $\frac{7}{8}$ inch check-up straps, per set. **1.35**



Perfection Team Harness

- Our Best Grade in this Style
- Bridles**— $\frac{7}{8}$ in. heavy cheek with hit strap and noseband, round winker brace, and flat side checks, sensible blind spotted fronts and noseband.
- Lines**—1 inch x 18 ft. with buckle and billet and snaps.
- Traces**— $1\frac{1}{2}$ inch x 6 ft. double and stitched, cockeye sewed.
- Hame Tugs**— $1\frac{1}{2}$ in. spaced loop folded, made for bolt hame No. 95C2050 oiled Concord holt hame, 1 inch sewed hame straps, $\frac{3}{4}$ inch spread straps with wood rollers, bellybands folded with layer.
- Back and Hip**—1 inch straps, 3-ring style, side trace carrier, 1 inch back strap, to $1\frac{1}{4}$ inch market tug and with 1 in. shoulder straps.
- Breeching**—Heavy folded with $1\frac{1}{2}$ in. layer, $1\frac{1}{2}$ in. single reverse side straps, $\frac{7}{8}$ inch lazy straps.
- Breast Straps**—Heavy, and sewed loops, $1\frac{1}{2}$ inch x $4\frac{1}{2}$ ft. with snaps and slides.
- Martingales**— $1\frac{1}{2}$ inch and doubled and stitched around loop in front, making double wear around neck yoke, and $\frac{7}{8}$ in. collar straps.

- For horses up to 1500 pounds.
- Weight, boxed for shipment, about 80 pounds.
- 95C1134**—Japan (black) trimmed, without collars and hitch rein. Per set. **\$92.00**
- 95C1135**—Same as 95C1134, only with $1\frac{3}{4}$ inch traces and hame tugs. Per set. **95.25**
- Add for $\frac{7}{8}$ inch check-up straps, per set. **1.35**
- Add for 95C2065 steel holt hames with 2 inch brass ball top, in place of regular, per set. **3.25**
- Add for $1\frac{3}{8}$ in. x 18 ft. lines in place of regular, per set. **1.15**

Own Factory—Quality Guaranteed

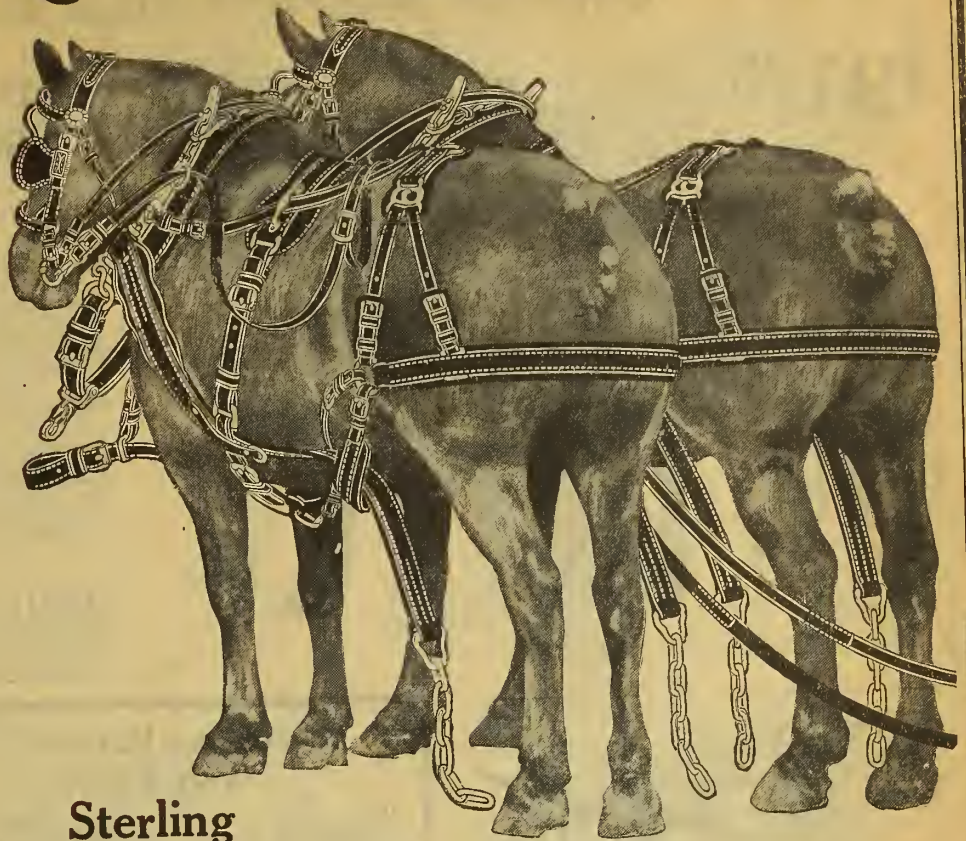
Made by Experienced
Harness Makers from the
Best Selected Materials

A SOLID, durable harness can only be obtained through good workmanship and a thorough grilling inspection of each and every piece of material used in its make-up. Much of the firmness and durability of Wardway harness is due to the careful piecing and stitching done by expert harness men in whom we take great pride.

The fact that only a limited amount of Wardway harness and saddles are turned out each month indicates that we take more pride in producing quality than quantity. And the cycle of supply and demand does not govern our prices. We cannot produce enough harness and saddles to satisfy our customers, yet we always give you the benefits of our economical methods of production by asking only rock-bottom prices. We feel that if we are entitled to have you for a customer, you are entitled to the best we can give.

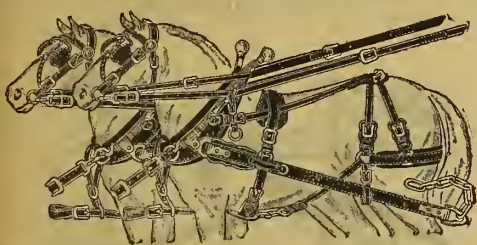
Our "Sterling" harness is our highest grade truck harness and, as such, has proven the greatest success. The quality of material and workmanship is guaranteed to be of the highest standard—a guarantee of which we are proud to boast and to make good. This harness has proven one of our best sellers. For particulars read the following:

- Bridles**— $\frac{7}{8}$ in. extra heavy cheek with bit strap and nose band, round winker brace, sensible blinds, flat side check, to check over hame.
- Lines**— $1\frac{1}{2}$ in. x 18 ft., (best grade) with buckle and billet and snaps.
- Pads**—6 in. double and stitched harness leather, with layer over top with solid brass bows. Dee in end of layer and with $1\frac{1}{2}$ in. market straps.
- Traces**—Straight 3-ply. $1\frac{1}{2}$ in. x 6 ft. heavy, double and stitched with scalloped double and stitched safe inserted, 6-link heel chain sewed in. Bellybands folded with layer $1\frac{1}{4}$ inch buckles.
- Breeching**—Heavy folded with $1\frac{1}{4}$ in. layer, $1\frac{1}{8}$ in. lead-ups, $1\frac{1}{8}$ in. double side straps, 1 in. lazy straps with 3 ring.
- Hip and Back**— $1\frac{1}{2}$ in. hip straps, 3 ring style, side trace carrier, $1\frac{1}{2}$ in. crotch style back straps with wear leathers.
- Breast Straps**— $1\frac{3}{4}$ in. x $4\frac{1}{2}$ ft. Extra heavy and sewed loops with snaps and roller snaps.



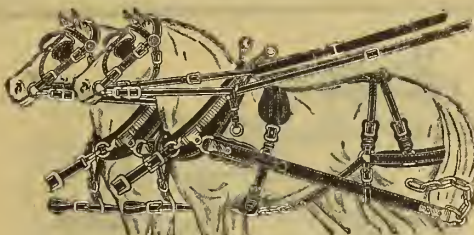
Sterling

- Martingales**— $1\frac{3}{4}$ in. Extra heavy, double and stitched around front loop, making double wear around neck yoke, 1 in. collar straps.
- Hames**—95C2050 oiled Concord bolt, with 1 in. sewed hame straps and $\frac{3}{4}$ in. spread straps with wood spread rollers. Made to fit horses up to 1,500 pounds. Shipping weight boxed, about 90 lbs.
- 95C1238**—Japan (black) trimmed without collars and hitch reins, Per set. **\$112.75**
- 95C1239**—Same as 95C1238, except with $1\frac{3}{4}$ in. 3 row stitched heavy traces and belly bands with $1\frac{1}{2}$ inch buckles, without collars and hitch reins. Per set. **\$115.00**
- For 95C2065 Monarch, steel bolt hame with 2 in. brass ball top in place of regular, add per set. **\$3.25****
- Extra Large Harness for 1700 to 1800 Lb. Horses**
Same style as 95C1238 only made extra heavy and extra large and with $1\frac{3}{4}$ in. heavy Chicago truck style martingales and $1\frac{3}{4}$ in. heavy breast straps; traces, $1\frac{3}{4}$ in. x 6 ft. 4 in. heavy and 3-rows stitching, with 18-in. heel chains and $1\frac{1}{2}$ inch billets and belly bands. Lines, $1\frac{1}{2}$ in. x 20 ft. Weight, boxed, about 100 lbs.
- 95C1278**—Japan (black) trimmed, without collars and hitch reins. Price, per set. **\$132.00**
- 95C1279**—Same as 95C1278, only with 2 in. heavy traces. Per set. **135.00**



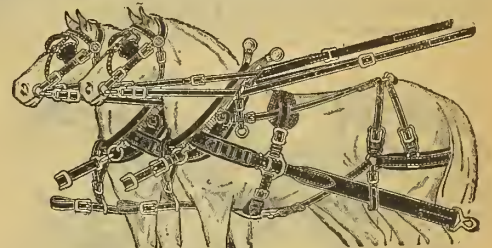
Progress Team Harness

- A very popular harness in this style—and one that is sure to please you.
- Bridles**— $\frac{3}{4}$ in. heavy long cheek, sensible blinds, round winker brace, flat side checks, and with ring face piece.
 - Lines**—1 in. x 18 ft., with security buckles and snaps.
 - Traces**— $1\frac{1}{2}$ in. x 6 ft. heavy double and stitched and with scalloped safe in front, with jointed clip attachment at front end and 6 link heel chain clipped on back end, folded bellybands with $1\frac{1}{4}$ in. buckles.
 - Pads**—Double and stitched harness leather top with $1\frac{1}{4}$ in. layer and reverse billets.
 - Back and Hip**—1 in. hip straps and 1 inch back straps, both sewed into metal trace carrier on top.
 - Breeching**—Folded with 1 in. layer, 1 in. lead-ups, 1 in. single reverse side straps and $\frac{7}{8}$ in. lazy straps.
 - Breast Straps**— $1\frac{1}{2}$ inch x $4\frac{1}{2}$ ft. with metal loops, snaps and slides.
 - Martingales**— $1\frac{1}{2}$ in. with $\frac{7}{8}$ in. collar straps.
 - Hames**—Iron bound, wood painted red, bolt style brass ball top with 1 inch riveted hame straps and $\frac{5}{8}$ in. spread straps with rings. Made for horses up to 1,350 pounds. Weight, boxed for shipment, 75 pounds.
 - 95C1323**—Japan (black) trimmed, brass ball hame, without collar and hitch reins, per set. **\$82.95**
 - 95C1324**—Same as 95C1323, only with $1\frac{1}{4}$ in. traces, per set. **\$85.25**
 - For $1\frac{1}{2}$ inch x 18 ft. lines in place of regular, add. **1.15**
 - If without Martingales and collar straps, deduct, per set. **3.25**
 - If with 95C2050 oiled Concord bolt hames in place of regular deduct per set. **\$1.00**



Ajax Team Harness

- Bride**— $\frac{3}{4}$ in. heavy long cheek, sensible blinds, round winker brace, flat side checks and with ring face piece.
- Lines**—1 in. x 18 ft. with security buckles and snaps.
- Traces**— $1\frac{1}{2}$ inch x 6 ft. heavy double and stitched and with scalloped safe in front, with jointed clip attachment at front end and 6 link heel chain clipped on back end, folded bellybands with $1\frac{1}{4}$ inch buckles.
- Pads**—Double and stitched harness leather top with $1\frac{1}{4}$ in. layer and reverse billets.
- Back and Hip**—1 in. hip straps and $1\frac{1}{4}$ in. single back strap through to hame strap, both sewed into metal trace carrier on top.
- Breeching**—Folded with 1 in. layer, 1 in. lead-ups, 1 in. single reverse side straps and $\frac{7}{8}$ in. lazy straps.
- Breast Straps**— $1\frac{1}{2}$ in. x $4\frac{1}{2}$ ft. with metal loop, snaps and slides.
- Martingales**— $1\frac{1}{2}$ inch, with $\frac{7}{8}$ in. collar straps.
- Hames**—Iron bound, painted red, bolt style, brass ball top, with 1 inch riveted hame straps, and $\frac{5}{8}$ in. spread straps with rings. Made for horses up to 1,350 lbs. Weight, boxed for shipment, about 75 lbs.
- 95C1318**—Japan (black) trimmed, brass ball hames, without collar and hitch reins, per set. **\$80.95**
- 95C1319**—Same as 95C1318, only with $1\frac{1}{4}$ in. traces, price, per set. **\$83.25**
- For round side checks and gag swivels in place of regular, price per set. **\$1.50**
- For $1\frac{1}{2}$ in. x 18 ft. lines in place of regular, add. **1.15**
- For 95C2065 Monarch Steel Hame in place of regular, add. **2.25**
- If without Martingales and collar straps, deduct, per set. **3.25**
- If with 95C2050 oiled Concord bolt hames in place of regular, deduct, per set. **\$1.00**



Montana Team Harness

- A well made and popular Western style Harness.
- Bridles**— $\frac{3}{4}$ in. heavy long cheek, sensible blinds, round winker brace, flat side checks, and with spotted ring face piece.
 - Lines**—1 in. x 18 ft., with security buckles and snaps.
 - Hame Tugs**— $1\frac{1}{2}$ in. wide folded 3 spaced loops, made for bolt hame, with champion trace buckles and $1\frac{1}{4}$ inch billets.
 - Traces**—Heavy $1\frac{1}{2}$ in. double and stitched points and $2\frac{1}{4}$ in. heavy single strap back part with cock-eye sewed in.
 - Pads**—Shaped harness leather and double and stitched with $1\frac{1}{4}$ in. layer and $1\frac{1}{4}$ in. reverse billets.
 - Back and Hip**—1 in. hip straps and 1 in. back straps both sewed into metal trace carrier on top.
 - Breeching**—Folded with 1 in. layer, 1 in. lead-ups, 1 in. single reverse side straps and $\frac{7}{8}$ in. lazy straps.
 - Breast Straps**— $1\frac{1}{2}$ in. x $4\frac{1}{2}$ ft. with metal loops, snaps and slides.
 - Martingales**— $1\frac{1}{2}$ in. with $\frac{7}{8}$ in. collar straps.
 - Hames**—Iron bound Red, bolt, with brass ball top with $\frac{5}{8}$ in. riveted hame straps and $\frac{5}{8}$ in. spread strap with rings. Made for horses up to 1,350 pounds. Weight, boxed for shipment, about 75 pounds.
 - 95C1136**—Japan (black) with brass ball hames and spots without collar and hitch reins. Per set. **\$87.95**
 - 95C1137**—Same as 95C1136, only with $1\frac{1}{4}$ in. traces per set. **\$90.50**
 - If with $1\frac{1}{2}$ in. x 18 ft. lines, in place of regular, add. **1.15**
 - If without Martingales and collar straps, deduct, per set. **3.25**
 - If with 95C2050 Oiled Concord bolt hame in place of regular deduct per set. **\$1.00**

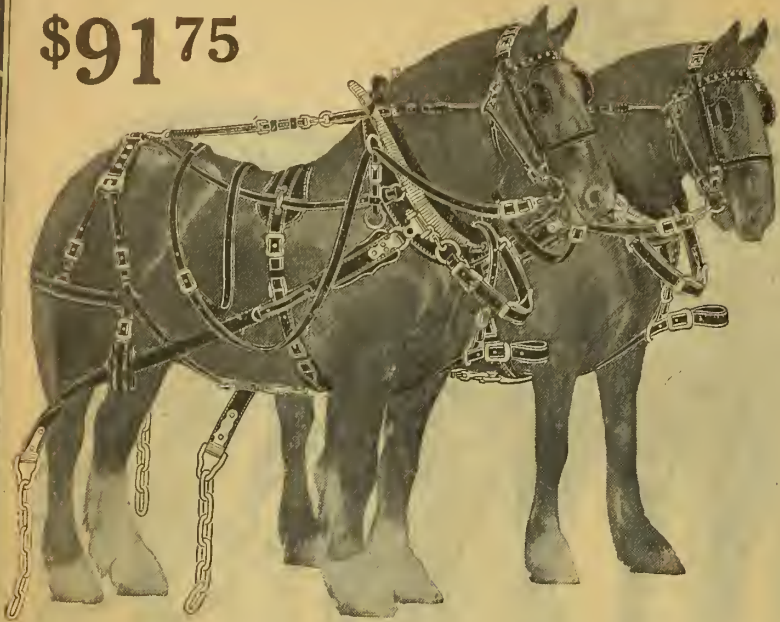
Steel center screw calks will make that icy road safe for your horse.

★ Montgomery Ward & Co. Chicago

A TRIUMPH IN HARNESS ECONOMY

Our Most Successful Team Breeching Harness

\$91.75

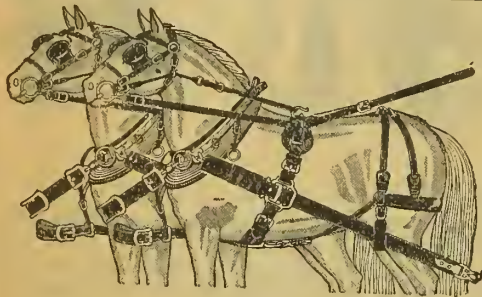


The Materials and Workmanship in This Harness Will Satisfy the Most Critical Purchaser

Here is a good all around harness equipped with our new improved Folded Ring Crown Bridle. It is a harness we are proud to display as one of the best products of our factory. front, single nose band, round side check, gag swivels with center checkup straps. Lines—1 1/2 inch x 18 feet with security buckles and with snaps. Traces—1 1/2 inch x 6 feet double and stitched. 6 link chain clipped on, scalloped safe at front. Pads—5 inch harness leather top, no spots, felt bottom, 1 1/4 inch reverse billets, brass bolts. Breechings—Folded with layer, without lead-ups, lazy straps 1 inch to reverse and with 1 inch liner, 1 1/2 inch single reverse side straps. Back and Hips—1 inch hip straps to reverse into breeching made 3 ring style with metal trace carrier on side. 1 inch back strap through to hame. Brass Conway loops on hip and back strap. Belly Bands—Folded with 1 1/4 inch buckles. Breast Straps—1 1/2 inch x 4 1/2 feet with metal loops, with snaps and slides. Martingales—1 1/2 inch heavy, with 3/4 inch collar strap. Hames—95C2050 oiled holt, with 3/4 inch riveted spread straps with duranoid rings. 1-inch hame straps. Trimmings—Japan (black) buckles and brass spotted fronts.

Weight, boxed for shipment, about 80 pounds.

For horses up to 1,400 pounds.	
95C1412—Without collars and hitch reins, per set.	\$91.75
95C1413—Same as 95C1412 except with 1 1/4 inch traces.	93.00
For 1 1/2 inch x 20 feet lines, in place of regular, add.	1.00
For 95C2065 steel bolt hames, large brass balls in place of regular, add.	3.00
If without Martingales and collar straps, deduct, per set.	3.00
For 95C6010 Crupper forks and cruppers, add, per set.	2.00

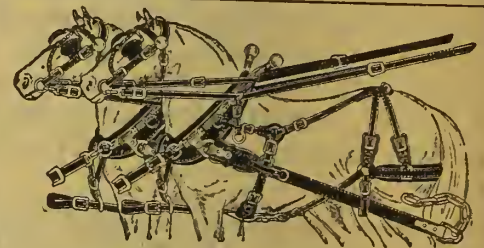


Detachable Breeching

Bridles—3/4 inch long cheeks with nose band, sensible blinds, long round side checks and winker brace. Lines—1 inch x 18 ft., with security buckles and snaps. Traces—1 1/2 inch x 6 ft., heavy double and stitched with clip cockeye. Hame Tugs—1 1/2 inch, folded three loop, clip style, with 95C2015 black iron over top clip hames, with 3/4 inch riveted spread straps with wood ring. 1 inch riveted hame straps. Folded belly bands, 1 1/4 inch buckles. Pads—All leather flexible hair-stuffed swell shape, with terrets and hooks and 1 1/4 inch market straps. Back and Hips—1-inch hip and back straps, both sewed into metal trace carrier on top, and folded crupper to buckle. Breast Straps—1 1/2 inch double with combination snap and buckle at each end and with slide. Martingales—1 1/2 inches wide, with 3/4 in. riveted collar straps. Breeching—Folded with layer, 1 inch lead up tugs, 1 inch single reverse side straps, 1 inch hip straps with snaps. Trimmings—XC (white metal). For horses up to 1,350 lbs. Wt., boxed for shipment, aht. \$0 lbs. 95C1057—Without collars and hitch reins, per set. \$84.75 95C1058—Same as 95C1057, only with 1 1/4 inch Hame tugs and traces. Per set. \$87.00 For 1 1/2 inch bridles in place of regular, add, per set. .50 For 1 1/2 inch x 18 feet lines in place of regular, add, per set. .15 For 95C6149 Moline flexible tree pad in place of regular, add. 1.00

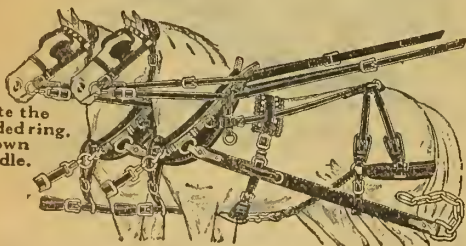
Is Your Harness Well Kept?

Harness should be kept as far as possible from your horses and stalls, as the ammonia fumes arising therefrom are very injurious to the leather. It's a good idea to have a form to hold the bridles, pads, breechings, and saddles; and hooks for the hames, reins, and traces. If the harness is just thrown in a heap or hung up on a single hook, it will soon be out of shape and will show creases and cracks. The harness is often wet when taken from the horse. If this is caused by rain, hang the harness in a place where it can dry, and then rub it with a cloth. Apply a little good harness soap before putting away. We recommend our Reliable Harness Soap on page 966. Rub the leather until the polish is restored. Be sure to clean the under side of the straps as well as the outside, but if the wetness was caused by sweat, dry the harness as quickly as possible, as the salty nature of the perspiration is cause for the grease being absorbed and the leather hardening. If the pads are wet, dry thoroughly before putting away. For oiling, during the first year, at least, harness soap as directed above, is all that is required for a buggy harness, but for a heavy truck harness a stronger grease should be used. Cleaning and oiling is a job that ought to be done no less than twice a year for harness in daily use. If the leather is soft, wash it with water applied with a sponge. Then take a heavy cloth and rub the leather thoroughly, after which apply a good harness oil. When each strap has been treated this way, start with the first one washed and remove all the surplus grease with a rag, and then rub with a heavy cloth until the polish is restored. If the leather is dry and hard, it will be necessary to wash the straps well, and wet them enough to open the pores. Lay the straps out straight and when dry give them a coat of Neats-foot oil. When this has penetrated the leather, apply warm tallow with a brush, and allow the straps to remain coated with the tallow until the moisture has dried out of the leather. Then remove the surplus tallow with a rag, clean the stitching with a brush, and apply a coat of harness blacking.



Universal Team Harness

Bridles—3/4 inch heavy checks with ring face piece, sensible blind, round winker brace, flat check over hame. Lines—1 inch x 18 ft. with security buckles and snaps. Traces—1 1/2 inch x 6 ft heavy double and stitched with jointed attachment and scalloped inserted safe in front, and heel chain clipped on, bellybands folded with 1 1/4 inch buckles. Breeching—Folded with layer, 3/4 inch lead up tugs, 1 inch single reverse side straps and 3/4 inch lazy straps. Back and Hip—3/4 inch hip straps and 3/4 inch back straps and 1 inch shoulder straps. Breast Straps—1 1/2 inch x 4 1/2 ft. with metal loops and snaps and slides. Martingales—1 1/2 inches wide with 3/4 in. riveted collar straps. Hames—No. 95C2044, red, ball top, bolt with 1-inch hame straps and 3/4 inch spread straps, duranoid rings. Made to fit horses up to 1,400 lbs. Weight, boxed for shipment, about 70 lbs. 95C1227—XC (white metal) trimmed, without collars and hitch reins. Per set. \$79.75 95C1228—Same harness only with 1 1/4 in. traces. Price, per set. 82.00 95C1229—Japanned (black) trimming 1 1/4 inch traces, brass ball top hames without collars and hitch reins. Per set. \$80.75 95C1230—Same harness as 95C1229, but with 1 1/4 inch traces. Per set. \$83.00 If without Martingales and collar straps, deduct, per set. 3.25 For 1 1/2 inch x 18 ft. lines, in place regular, add, per set. 1.15

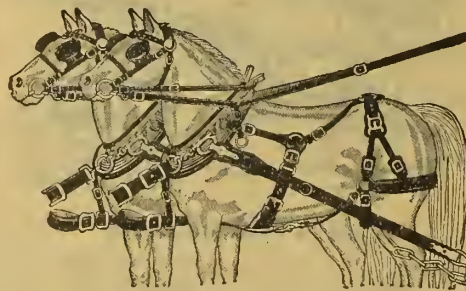


Note the folded ring, Crown Bridle.

Pointer Team Harness

Bridles—3/4 inch cheek, folded ring crown, double and stitched combination front and winker brace, sensible blinds, flat reins. Lines—1 inch x 18 ft. with security buckles and with snaps. Traces—1 1/2 inch x 6 ft. double and stitched, chains clipped on, jointed clips at front, 1 1/4 in. billets and folded bellybands 1 1/4 inch buckles. Pads—4-inch harness leather top and spotted, felt bottom, 1 1/4-inch reverse billets. Breeching—Folded with layer, 3/4 inch lead ups. Lazy straps, 3/4 inch. Side straps, 1 inch single reverse. Back and Hips—3/4 inch hips, and 3/4 inch back straps through to hame, with wear leathers. Breast Straps—1 1/2 inch with snaps and slides. Martingales—1 1/2 inch, with 3/4 inch riveted collar strap. Hames—95C2050 heavy oiled Concord bolt, with 1 inch riveted hame straps and 3/4 inch riveted spread straps. Trimmings—Japan (black) buckles with brass spots and rosettes. For horses up to 1,350 pounds. Weight, boxed for shipment, about 75 pounds.

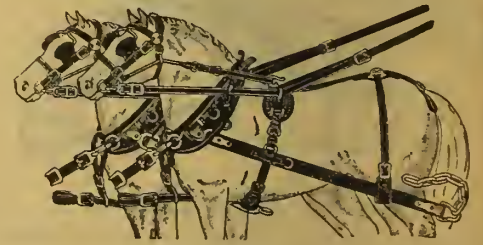
95C1616—Without collars and hitch reins. Per set.	\$77.75
95C1617—Same as 95C1616, only with 1 1/4 in. traces. per set.	79.85
For round side checks and gag swivels, add, per set.	1.35
For center check-up strap, add, per set.	1.35
For 1 1/2 inch x 18 ft. lines, in place of regular, add, per set.	1.15
For 95C2065 steel bolt hames, large brass ball, in place of regular, add, per set.	3.25
If without Martingales and Collar Strap, deduct, per set.	3.25
If without Pads, deduct, per set.	4.50



Popular Team Harness

Bridles—3/4 inch heavy cheek, with bit straps, and nose band, round winker brace, sensible blinds, flat check over hame. Lines—1 inch x 18 ft., with security buckles and snaps. Traces—1 1/2 inch x 6 ft., heavy double and stitched, chains clipped on, scalloped safe at front. Jointed clips at front, 1 1/4 inch billets, belly bands folded, 1 1/4 inch buckles. Breeching—Folded with layer, 3/4 inch lead ups with safe, lazy straps, 3/4 inch with 1 1/4 inch liner. Side straps 1 inch single reverse. Back and Hips—3/4 inch hips, 3 ring style metal trace carriers on side. Back Straps—3/4 inch with shoulder straps, 1 1/4 inch billets. Breast Straps—1 1/2 inch x 4 1/2 feet with metal loops, slides and snaps. Martingales—1 1/2 inch and 3/4 inch riveted collar straps. Hames—95C2050 heavy oiled Concord bolt, with 1 inch riveted hame straps, and 3/4 inch riveted spread straps with duranoid rings. Trimmings—Japan (black) buckles with brass rosettes and spots. Made to fit horses up to 1,400 lbs. Weight boxed for shipment, about 80 lbs.

95C1316—Without collars and hitch reins, per set.	\$81.50
95C1317—Same as 95C1316 only with 1 1/4 inch traces. Add for 1 1/2 inch x 18 ft. lines in place of regular.	83.75
Add for round side check and gag swivels in place of regular per set.	1.15
Add for center check up straps, per set.	1.50
Add for Martingales and collar straps, deduct, per set.	3.25



Superior Team Harness

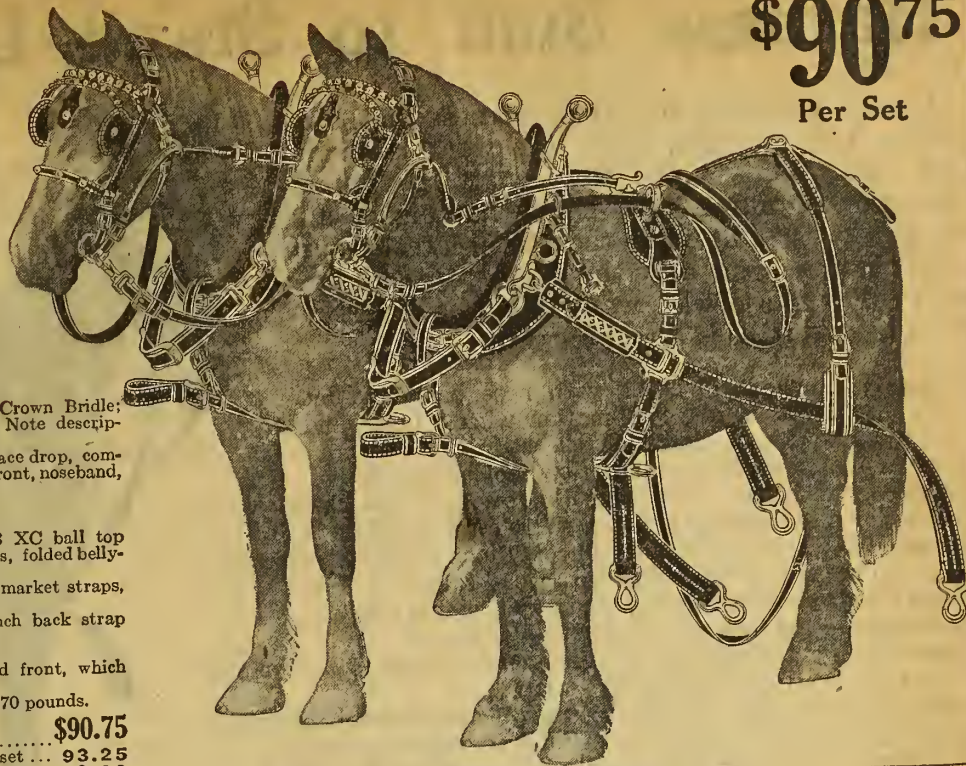
Bridles—3/4 in. cheeks with noseband, sensible blinds, long round side checks and winker brace. Lines—1 in. x 18 ft., with security buckles and snaps. Traces—1 1/2 in. x 6 ft. double and stitched, with chains clipped on, jointed clips at front, 1 1/4 in. billets and folded belly hands. Hames—95C2016 iron over top, black, bolt, hames, 1 inch riveted hame straps, 3/8 in. riveted spread straps, with duranoid rings. Pads—All harness leather flexible, hair-stuffed, swell shape with terrets and hooks, and 1 1/4 in. market straps. Back and Hip—1 in. hip and back straps, folded crupper buckle. Breast Straps—1 1/2 in. double, with combination snap and buckle and with slide in center. Martingales—1 1/2 in. wide, with 3/4 in. riveted collar straps. Trimmings—XC (white metal). For horses up to 1300 lbs. Weight, boxed for shipment, about 65 lbs. 95C1263—Without collars and hitch reins, per set. \$69.25 95C1264—Same as 95C1263, only with 1 1/4 in. heel chain trace, price, per set. \$71.25

OUR FAMOUS IMPERIAL

Equipped With the New Ring Crown Feature Bridle

\$90⁷⁵

Per Set



This is our highest grade pad harness equipped with our new Folded Ring Crown Bridle; has roller buckles and leather loops throughout. Made in our own Factory. Note description carefully.

Bridles— $\frac{3}{4}$ -inch folded ring crown short cheek with bit straps and noseband, face drop, combination winker brace and front, round side check, spotted winker brace, front, noseband, drop and blinds.

Lines— $1\frac{1}{2}$ -inch x 18 feet, with buckle and billet and snaps.

Traces— $1\frac{1}{2}$ -inch x 6 feet, heavy double and stitched, cockeye sewed in.

Hame Tugs— $1\frac{1}{2}$ -inch laced box loop, folded, clip style, attached to 95C2043 XC ball top clip hames, with 1-inch hame straps, $\frac{3}{4}$ -inch spread straps with wood rollers, folded bellybands with layer.

Pads—All harness leather extra wide and flexible, layer over top and $1\frac{1}{4}$ -inch market straps, hair stuffed, with terrets and hooks.

Back and Hip— $1\frac{1}{2}$ -inch hip straps with scalloped safes and trace loops, $1\frac{1}{2}$ -inch back strap to pad folded crupper to buckle.

Breast Straps— $1\frac{1}{2}$ -inch x $4\frac{1}{2}$ feet, extra heavy with snaps and slides.

Martingales— $1\frac{1}{2}$ -inch wide, extra heavy and doubled and stitched around front, which goes around neckyoke, $\frac{3}{8}$ -inch collar straps.

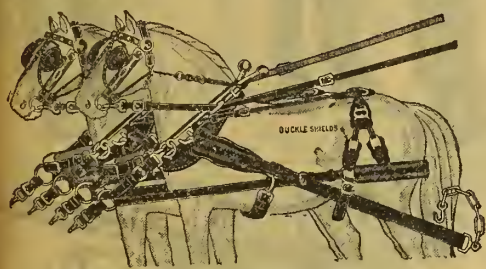
Made to fit horses up to 1,400 pounds. Weight, boxed for shipment, about 70 pounds.

95C1247—XC (white metal) trimmed, without collars and hitch reins, **\$90.75**

per set.....

95C1248—Same as 95C1247, only with $1\frac{1}{4}$ -inch traces and hame tugs, per set... **93.25**

For 95C2044 bolt hames and laced loop bolt hame tugs, in place of regular, add..... **2.00**



Eastern Team Harness

This harness has sold well for many years, and has established itself as one of the standards by which other harness of this kind are gauged. This is due, without doubt, to the good grade of harness leather and workmanship embodied in its make-up, and which are personally inspected by our high class and efficient harness men.

Bridles— $\frac{3}{4}$ -inch long box loop cheek with face piece, round side checks, and winker brace, sensible harness leather blinds, brass roscettes, and brass spots.

Lines—1 inch x 18 feet with buckle and billet with snaps.

Traces— $1\frac{1}{2}$ -inch x 6 feet double and stitched heavy, made for clip

style hame and with hook and heel chain sewed in, bellybands folded with layer and $1\frac{1}{4}$ -inch buckles.

Breaching—Heavy folded with $1\frac{1}{2}$ -inch layers, 1-inch lead-ups, $\frac{3}{4}$ -inch lazy straps.

Back and Hip—1-inch hip strap, 3-ring style side trace carrier, 1-inch back straps through to hames, shields on hip straps.

Breast Straps—Heavy $1\frac{1}{2}$ -inch x $4\frac{1}{2}$ feet with snaps and slides.

Hames—95C2045 ironclad, red, 21-inch Chicago brass ball, clip style, with 1-inch hame straps and $\frac{3}{4}$ -inch spread straps with wood spread rollers.

Side Backers— $1\frac{1}{2}$ -inch heavy single ply with 1-inch support straps. Made to fit horses up to 1,500 lbs. Weight, boxed for shipment, about 85 lbs.

95C1321—Japan (black) trimmed with brass ball hames, brass spots and shields, without collars and hitch reins. **\$99.75**

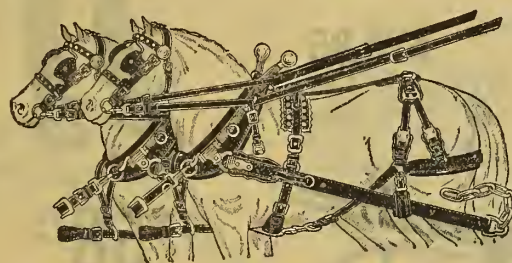
Per set.....

95C1322—Same as 95C1321, only with $1\frac{1}{4}$ -inch traces **\$102.25**

Per set.....

For 95C6145 pads, add, per set..... **12.25**

For $1\frac{1}{4}$ -inch x 18-foot lines in place of regular, add..... **1.15**



Premier Team Harness

Bridles— $\frac{3}{4}$ -inch, heavy cheek with bit straps and noseband, sensible blinds, round winker brace, flat side checks.

Lines—1 inch x 18 feet, with buckle and billet with snaps.

Pads— $4\frac{1}{2}$ -inch harness leather top, felt lined, layer over top, spotted, and $1\frac{1}{4}$ -inch reverse billets.

Traces— $1\frac{1}{2}$ -inch x 6 feet, heavy, with jointed clip attachments, scalloped safe in front, with 6 link heel chain sewed in, bellybands, folded with layer and $1\frac{1}{4}$ -inch buckles.

Breaching—Heavy folded with $1\frac{1}{2}$ -inch layer, with $1\frac{1}{2}$ single reverse side straps, lazy straps $\frac{3}{8}$ -inch with wide liner.

Hip and Back—1-inch hip strap, 3-ring style, side trace carrier, $1\frac{1}{2}$ -inch single back strap through to hame strap, shields for all hip straps.

Breast Straps— $1\frac{1}{2}$ -in. x $4\frac{1}{2}$ ft., sewed loops, with snaps and slides.

Martingales— $1\frac{1}{2}$ -inch heavy double and stitched around front loop, giving double wear around neckyoke, with $\frac{3}{8}$ -inch collar strap.

Hames—95C2046 Ironclad, red, $2\frac{1}{2}$ -inch brass ball top bolt, wood hames, with 1-inch hame straps. $\frac{3}{4}$ -inch spread straps with wood spread rollers.

Made to fit horses up to 1,500 lbs. Wt., boxed for shipment, about 80 lbs.

95C1203—Japan (black) trimmed with brass ball hames and brass shields and spots, without collars and hitch reins. **\$99.75**

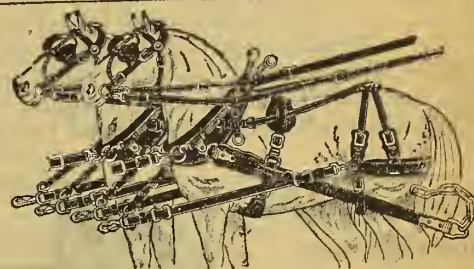
Per set.....

95C1204—Same as 95C1203, except with heavy $1\frac{1}{4}$ -inch traces **\$102.25**

Per set.....

For round side checks in place of flat, add, per set..... **1.50**

For $1\frac{1}{4}$ -inch x 18 ft. lines, in place of regular, add, per set... **1.15**



Ohio Team Harness

A very popular harness in this style—one that is sure to please you. **Bridles**— $\frac{3}{4}$ -in. heavy long cheek, sensible blinds, round winker brace, flat side checks, and with ring face piece.

Lines—1-in. x 18 ft., with securely buckles and snaps.

Traces— $1\frac{1}{2}$ -in. x 6 ft., double and stitched with jointed clip attachment at front and 6-link heel chain clipped on back end, scalloped safe at front, folded bellybands with $1\frac{1}{4}$ -in. buckles.

Pads—Double and stitched harness leather top with $1\frac{1}{4}$ -in. layer and reverse billets.

Back and Hip—1-in. hip straps and 1-in. back straps.

Breaching—Folded with 1-in. layer, 1-in. lead-ups, $\frac{3}{8}$ -in. lazy straps, no side straps, and no martingales.

Breast Straps— $1\frac{1}{2}$ -in. x $4\frac{1}{2}$ ft. with metal loops, snaps and slides.

Side Backers— $1\frac{1}{2}$ -in. single strap with snaps and $\frac{3}{8}$ -in. support straps.

Hames—Iron bound, wood, painted, red, bolt style brass ball top with $\frac{3}{8}$ -in. riveted hame straps and $\frac{3}{8}$ -in. spread straps with rings.

Made for horses up to 1,350 lbs.

Weight, boxed for shipment, 75 lbs.

95C1327—Japan (black) trimmed, brass ball hame, without collar and hitch reins. **\$85.25**

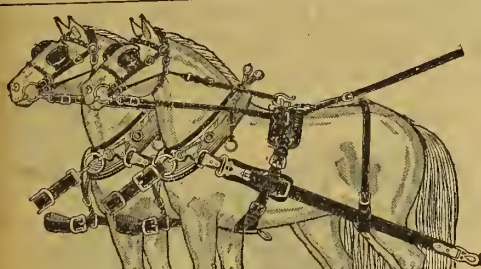
Per set.....

95C1328—Same as 95C1327, only with $1\frac{1}{4}$ -in. traces **87.50**

Per set.....

For $1\frac{1}{4}$ -in. x 18 ft. lines in place of regular, add, per set... **1.15**

For 95C2050 oiled Concord bolt hame in place of regular, deduct, per set..... **\$1.00**



Climax Team Harness

Every harness has its advantages. A strap here and a buckle there often make a satisfied customer. This harness is equipped with the Moeller Metal Hame tug. This style of harness has established itself as a standard, as its continued sale proves. Those who prefer this style hame tug, will find this harness very satisfactory.

Bridles— $\frac{3}{4}$ -in. heavy cheek with bit straps and noseband, sensible blinds, round winker brace and round side checks, spotted fronts.

Lines—1-inch x 18 feet with security buckles and snaps.

Traces— $1\frac{1}{2}$ -inch x 5 feet 9 inches, double and stitched with clip cockeye.

Hame Tugs— $1\frac{1}{2}$ -inch Moeller metal plate with leather safe, with jointed clip attachment for bolt hame, hames 95C2044 ironclad, red, bolt, $\frac{3}{8}$ -inch hame straps, $\frac{3}{8}$ -inch spread straps with wood r-ring, bellybands folded with $1\frac{1}{4}$ -inch buckles.

Pads—Flat, harness leather top, felt lined with drop terrets and hooks, $1\frac{1}{4}$ -inch layer over top, dee in end and with $1\frac{1}{4}$ -inch market straps.

Back and Hip—1-inch hip straps with wide trace loop, 1-inch back strap to pad and both sewed into metal trace carrier on top, folded crupper to buckle.

Breast Straps— $1\frac{1}{2}$ -inch x $4\frac{1}{2}$ feet, with metal loops, snaps and slides.

Martingales— $1\frac{1}{2}$ -inch with $\frac{3}{8}$ -inch collar straps.

For horses up to 1,400 lbs.

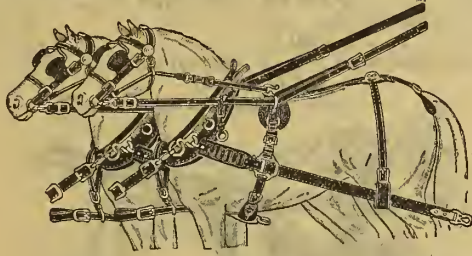
Weight, boxed for shipment, and hitch reins. **\$75.00**

Per set.....

95C1117—XC (white metal) trimmed, without collars and hitch reins. **\$75.00**

Per set.....

95C1118—Same as 95C1117, only with $1\frac{1}{4}$ -inch traces and hame tugs. Per set..... **\$77.50**



Winner Team Harness

The Winner Team Harness has proven a big success. Although it is only moderately priced, it has all the qualifications of a good, strong, dependable harness that can stand rough and ready work. Our harness leather is selected in accordance with the method explained on page 946-947, which is the one and only way from which a good result is obtainable. The Winner Harness is very popular with our customers for this very reason. Its description follows:

Bridles— $\frac{3}{4}$ -inch long cheeks with noseband, sensible blinds, round side checks and winker brace.

Lines—1-in. x 18-ft., with security buckles and snaps.

Traces— $1\frac{1}{2}$ -in. x 6 ft., double and stitched with clip cockeye.

Hame Tugs— $1\frac{1}{2}$ -inch, folded two loop, clip style, with 95C2015 black iron over top clip hames, with $\frac{3}{8}$ -inch riveted spread straps with wood ring. $\frac{3}{8}$ -inch riveted hame straps. Folded bellybands, $1\frac{1}{4}$ -inch buckles.

Pads—All leather flexible, hair stuffed, swell shape, with terrets and hooks and $1\frac{1}{4}$ -inch market straps.

Back and Hips—1-inch hip and back straps, both sewed into metal trace carrier on top, and folded crupper to buckle, wide trace loop.

Breast Straps— $1\frac{1}{2}$ -inch double with combination snap and buckle at each end and with slide.

Martingales— $1\frac{1}{2}$ -inch wide (standard length), with $\frac{3}{8}$ -inch riveted collar straps.

Trimnings—XC (white metal). For horses up to 1,300 lbs. Weight, boxed for shipment, about 65 pounds. **\$70.75**

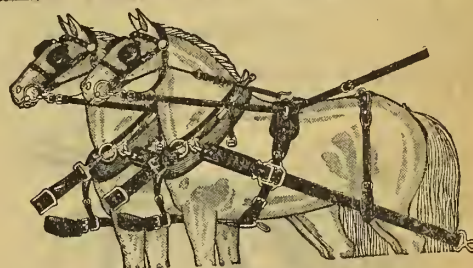
Per set.....

95C1053—Without collars and hitch reins, per set..... **\$70.75**

95C1054—Same as 95C1053, except with $1\frac{1}{4}$ -inch hame tugs and traces, per set..... **\$72.95**

Per set.....

For 95C6149 Molline flexible tree pad in place of regular, add, per set..... **\$1.25**



Old Reliable Harness

This is one of our best grades in this style and a Harness that always gives genuine satisfaction. Made with roller buckles and leather loops throughout.

Bridles— $\frac{3}{4}$ -inch short cheek with bit straps and noseband, sensible blinds, round winker brace spotted front, round side check.

Lines—1-inch x 18 feet with buckle and billet and snaps.

Traces— $1\frac{1}{2}$ -in. x 6 ft., heavy double and stitched, cockeye sewed in.

Hame Tugs— $1\frac{1}{2}$ -inch folded, and 3-spaced loops, clip style attached to No. 95C2022 clip hame, 1-inch hame straps, $\frac{3}{4}$ -inch spread straps with wood rollers, folded bellybands.

Pads—All leather hair stuffed bottom, with skirts, flexible, no tree, with terrets and hooks.

Back and Hip—1-in. hip straps with scalloped safe and trace loop, 1-inch back strap to pad, both sewed into trace carrier on top, folded crupper to buckle.

Breast Straps—Heavy $1\frac{1}{2}$ -in. x $4\frac{1}{2}$ ft. with slides and snaps.

Martingales— $1\frac{1}{2}$ -in. heavy, double and stitched around front loop, giving double wear for neckyoke and with $\frac{3}{8}$ -inch collar straps.

For horses up to 1,450 lbs.

Weight, boxed for shipment, 70 lbs.

95C1106—XC (white metal) trimmed, without collars and hitch reins. **\$89.75**

Per set.....

95C1107—Same as 95C1106, only with $1\frac{1}{4}$ -inch traces and hame tugs. Per set..... **\$92.25**

Per set.....

95C1108—Same as 95C1106, only with 95C2050 oiled Concord bolt hames, and bolt hame tugs. Per set..... **\$91.50**

Per set.....

95C1109—Same as 95C1108, only with $1\frac{1}{4}$ -inch traces and hame tugs. Per set..... **\$94.00**

Per set.....

95C1112—Same as 95C1109, only made large enough for 1,650-pound horses, with $1\frac{1}{4}$ -inch traces and $1\frac{1}{4}$ -inch hame tugs with jointed bolt attachment and oiled Concord bolt hames. Price, per set..... **\$99.75**

Ajax fencing will hold your stock in the field.

Montgomery Ward & Co Chicago 949

Harness Built to Stand Long, Hard Wear

Here is a moderately priced harness that has proven very popular where the work is rough and hard. It is a fine harness for all-around farm work, grading, and heavy hauling of all kinds. It is built with the same care as our other harness and only the best materials are used. For those who want this type of heavy work harness this is a real bargain.



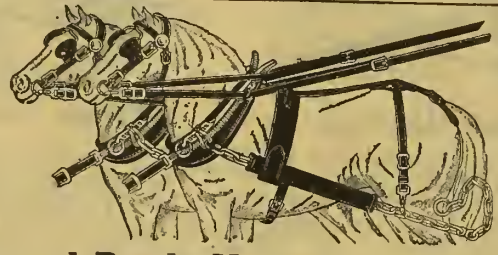
\$70.95

- Bridles— $\frac{3}{4}$ inch short cheek with nose band and bit straps, sensible blinds, combination winker brace and front, spotted front, flat side checks.
- Lines—1 inch x 20 ft. with security buckles and snaps.
- Traces— $\frac{5}{16}$ inch wire, 7 ft. long (known as 7-10-0 chain) with 42 inch leather piping, $1\frac{1}{2}$ inch single strap bellybands.
- Hames—95C2009 heavy Concord hook, 1 inch riveted hame straps, $\frac{3}{4}$ inch riveted spread straps with wood ring.
- Breast Chain—95C6888 heavy chain with sliding snap.
- Martingales— $1\frac{1}{2}$ inch with $\frac{7}{8}$ inch collar straps.
- Breeching—Folded with layer, 1 inch lead up tugs, 1 inch single reverse side straps, $\frac{7}{8}$ inch lazy straps.
- Back and Hip—1 inch double hip straps, 1 inch crotch back straps to hame and both sewed into metal trace carrier on top.
- Back Bands— $3\frac{1}{2}$ inch leather with $1\frac{1}{4}$ inch buckle and billets.

For horses up to 1,400 pounds.
Weight, boxed for shipment, 90 pounds. **\$70.95**
95C1030—Without collars and hitch reins, per set
For $1\frac{1}{8}$ inch x 20 ft. lines in place of regular, add, per set. 1.25
Adjustable draft 95C2049 Concord hame if wanted, at same price.

A High Grade Plow Harness for

\$48.25



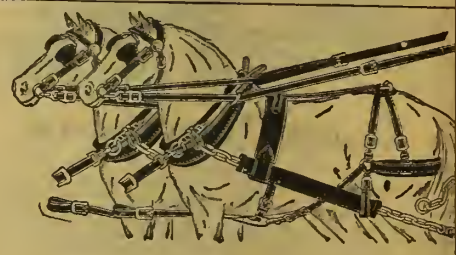
A Rough and Ready Harness

- Bridles— $\frac{7}{8}$ inch heavy long cheek, harness leather sensible blinds, round winker brace, flat side check.
- Lines—1 inch x 18 feet, with Security buckles and snaps and sewed laps.
- Back Bands—Leather, $3\frac{1}{2}$ inches wide, about 42 inches long, loop on top, $1\frac{1}{4}$ inch bellybands, single strap.
- Breast Straps— $1\frac{1}{2}$ inch double with snaps and slides.
- Traces—7 foot chain, $\frac{1}{4}$ inch wire, with 30 inch leather piping, hames, varnished, adjustable draft, 95C2008, $\frac{7}{8}$ inch riveted hame straps.
- Back and Hip— $1\frac{1}{2}$ inch hip with snap, and $1\frac{1}{2}$ inch back strap, both sewed into ring on top, folded crupper to buckle.

Made to fit horses up to 1,300 pounds.
Weight, boxed for shipment, about 65 pounds.
95C1016—Japan (black) trimmed, without collars and hitch reins, **\$48.25**
per set.
95C1017—Same as 95C1016 Harness, only with $1\frac{1}{2}$ inch Martingale. Per set. **\$50.75**
95C1018—Same as 95C1016 Harness, only with $1\frac{1}{2}$ inch Martingale and $1\frac{1}{2}$ x $\frac{7}{8}$ Hip Breeching, per set. **\$55.00**

\$58.75

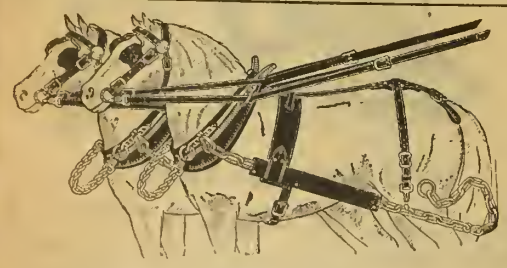
Improved Chain Trace Harness



Hummer Farm Harness

- Bridles— $\frac{7}{8}$ inch heavy long cheek, harness leather sensible blinds, round winker brace, flat side check.
- Lines—1 inch x 18 feet, with Security buckles and snaps and sewed laps.
- Back Bands—Leather, $3\frac{1}{2}$ inches wide, about 42 inches long, loop on top, $1\frac{1}{4}$ inch bellybands, single strap.
- Breast Straps— $1\frac{1}{2}$ inch double with snaps and slides.
- Traces—7 foot chain, $\frac{1}{4}$ inch wire, with 30 inch leather piping, hames, varnished, adjustable draft, 95C2008, $\frac{7}{8}$ inch riveted hame straps.
- Breeching—Folded. 1 inch single side straps, $\frac{7}{8}$ inch riveted lazy straps.
- Martingale— $1\frac{1}{2}$ inch.
- Back and Hips— $1\frac{1}{2}$ inch double hip straps, $1\frac{1}{4}$ inch back straps, no cruppers.

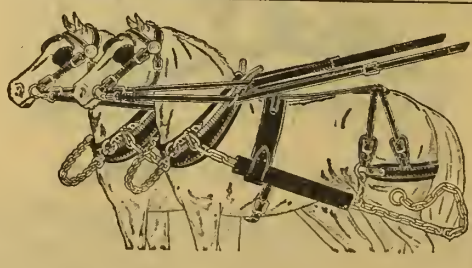
Made to fit horses up to 1,300 pounds.
Weight, boxed for shipment, about 65 pounds.
95C1019—Japan (black) trimmed, without collars and hitch reins, per set. **\$58.75**



Navajo Plow Harness

- Bridles— $\frac{7}{8}$ inch long cheeks, sensible blinds, flat winker brace, and side check.
- Lines— $\frac{3}{8}$ inch x 15 feet with snaps sewed in, and sewed laps.
- Back Bands—Leather, $3\frac{1}{2}$ inches wide, length, about 42 inches, loop on top, bellybands $1\frac{1}{4}$ inch single strap.
- Traces—7 ft. chain, $\frac{1}{4}$ inch wire with 24 inch leather piping.
- Hames, varnished adjustable draft, 95C2008, $\frac{7}{8}$ inch hame straps.
- Back and Hip— $\frac{7}{8}$ inch back and hip straps riveted into ring on top, folded crupper to buckle.
- Breast Chains— $\frac{1}{4}$ inch wire with bar at each end.

Made to fit horses up to 1,200 pounds.
Weight, boxed for shipment, about 55 pounds.
95C1007—Japan (black) trimmed without collars and hitch reins, per set. **\$33.50**
95C1008—Same as 95C1007 Harness, but has $1\frac{1}{2}$ inch Martingales, per set. **\$35.00**
95C1009—Same as 95C1007 Harness, but has $1\frac{1}{2}$ inch Martingales, and $1\frac{1}{2}$ inch x $\frac{7}{8}$ inch hip breeching. **\$40.25**
Add for $\frac{7}{8}$ inch x 18 foot lines in place of regular.90
Add for 1 inch x 18 foot lines in place of regular. 1.75



Sioux Plow Harness

- Bridles— $\frac{7}{8}$ inch long cheeks, sensible blinds, flat winker brace, and side check.
- Lines— $\frac{3}{8}$ inch x 15 feet with Security buckles and snaps and sewed laps.
- Back Bands—Leather, $3\frac{1}{2}$ inches wide, length, about 42 inches, loop on top, bellybands $1\frac{1}{4}$ inch single strap.
- Traces—7 ft. chain, $\frac{1}{4}$ inch wire with 24 inch leather piping.
- Hames, varnished adjustable draft, 95C2008, $\frac{7}{8}$ inch hame straps.
- Back and Hips— $\frac{7}{8}$ inch double hips, and 1 inch back strap.
- Breeching—Folded. With snaps to hold up trace chain and no side straps.
- Breast Chains— $\frac{1}{4}$ inch wire with bar at each end.

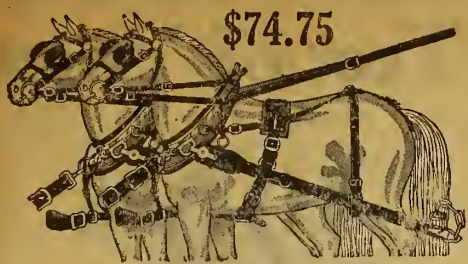
Made to fit horses up to 1,200 pounds.
Weight, boxed for shipment, about 55 pounds.
95C1010—Japan (black) trimmed without collars and hitch reins, per set. **\$39.75**
Add for $\frac{7}{8}$ inch x 18 ft. lines in place of regular.90
Add for 1 inch x 18 ft. lines in place of regular. 2.00



Handy Reliable Harness

- Bridles— $\frac{7}{8}$ inch long cheeks, sensible blinds, round winker brace, flat side checks.
- Lines— $\frac{3}{8}$ inch x 18 feet with Security buckles and snaps.
- Traces— $1\frac{1}{2}$ inch x $4\frac{1}{2}$ feet double and stitched, with $3\frac{1}{2}$ feet stage chain clipped on, attached to No. 95C2015 black clip style hames, bellybands folded, $\frac{7}{8}$ inch hame straps.
- Pads—Folded with layer and $1\frac{1}{4}$ in. billets, loop on top.
- Hip and Back—1 inch hip straps with trace loops. $1\frac{1}{4}$ inch back straps, folded crupper to buckle.
- Breast Straps— $1\frac{1}{2}$ inch combination buckle and snap at each end and slide in center.
- Martingales— $1\frac{1}{2}$ inch without collar straps.

Made to fit horses up to 1,300 pounds.
Weight, boxed for shipment, about 70 pounds.
95C1031—XC (white metal) trimmed without collars and hitch reins, per set. **\$57.50**
95C1032—Same as 95C1031, only with $1\frac{1}{4}$ inch traces, per set. **\$59.50**
For 95C528—1 inch x 18 feet lines, in place of regular, add, per set. \$1.25
If wanted with hame tugs and traces same as on 95C1053 Harness, add, per set. **\$7.50**



\$74.75

Western King Team Harness

Bridles— $\frac{3}{4}$ -inch short cheek with bit straps and nose band, sensible blinds, round winker brace, spotted front, flat side check, to check over hame.

Lines—1 in. x 18 ft. with security buckles and snaps.

Traces— $1\frac{1}{2}$ in. x 6 ft. double and stitched with 6-link heel chain clipped on back end. Jointed attachment at front end, and with safe bellybands folded with $1\frac{1}{4}$ -in. buckles.

Pads—4-in. harness leather top, felt lined, layer over top and $1\frac{1}{4}$ -in. reverse billets, brass spotted around edge, solid brass bows.

Back and Hip—1-in. bip strap, 1-in. crotch back straps to bame, metal trace carrier on top, folded crupper to buckle.

Breast Straps— $1\frac{1}{2}$ -in. x $4\frac{1}{2}$ ft. with metal loops, snaps and slides.

Martingales— $1\frac{1}{2}$ inches wide, standard length, with $\frac{3}{8}$ -in. collar straps.

Hames—Oiled, Concord wood bolt, 95C2050, 1-in. riveted hame straps, $\frac{3}{4}$ -in. riveted spread straps with wood ring.

For horses up to 1,350 lbs. Weight, boxed for shipment, about 65 lbs.

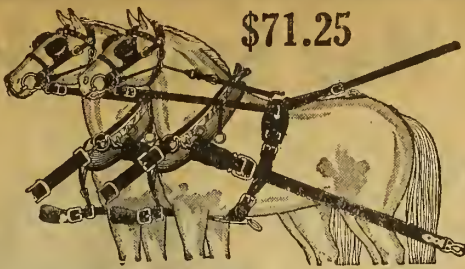
95C1301—Japan (black) trimmed. Without collars and hitch reins. Per set. **\$74.75**

95C1302—Same as 95C1301, only with $1\frac{1}{4}$ -in. traces. Per set. **\$76.85**

For $1\frac{1}{2}$ -in. x 18 ft. lines in place of regular, add, per set **1.15**

For 1-in. x 20-ft. lines in place of regular, add, per set **.90**

If without Martingales and collar straps, deduct, per set **3.25**



\$71.25

Illinois Slip Tug Harness

Also made with hip straps

Bridles— $\frac{3}{4}$ -in. short cheek and bit strap and nose band, round winker brace and side check, spotted fronts.

Lines—1-in. x 18-ft., with security buckles and snaps.

Traces— $1\frac{1}{2}$ -in. x $6\frac{1}{2}$ -ft. double and stitched with clip cockeye.

Hame Tugs— $1\frac{1}{2}$ -in. two spaced loop, clip style, with 95C2015 all black iron over top clip hames, with $\frac{3}{8}$ -in. riveted spread straps with wood ring, $\frac{3}{8}$ -in. riveted hame straps, bellybands folded with $1\frac{1}{4}$ -in. buckles.

Pads—All leather flexible, swell bottom hair stuffed, with terrets and books, and $1\frac{1}{4}$ -in. adjustable slip tug skirts.

Back and Hip—1-in. hip and back straps sewed into trace carrier, folded crupper to buckle.

Breast Straps— $1\frac{1}{2}$ -in. x $4\frac{1}{2}$ -ft., with metal loops, snaps and slides.

Martingales— $1\frac{1}{2}$ -in. wide, standard length, with $\frac{3}{8}$ -in. riveted collar straps.

Trimming—XC (white metal).

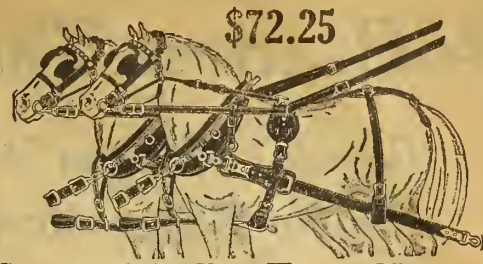
For horses up to 1,350 lbs. Weight, boxed for shipment, about 65 pounds.

95C1129 Without collars and hitch reins, per set **\$71.25**

95C1130—Same as 95C1129, except $1\frac{1}{4}$ -in. traces and hame tugs **\$73.50**

95C1127—Same as 95C1129 only with hip straps. Without collars and hitch reins, per set. **\$73.50**

95C1128—Same as 95C1127, except $1\frac{1}{4}$ -in. traces and hame tugs, per set. **\$75.75**



\$72.25

Special Moeller Team Harness

Bridles—Heavy, $\frac{7}{8}$ -in. cheek, adjustable folded ring crown bridle, with nose band and bit strap, combination double and stitched front and winker brace, long round side checks, spotted fronts.

Lines—1-in. wide x 18-ft. long with security buckles and snaps.

Traces— $1\frac{1}{2}$ -in. x 5-ft. 9 in. long, double and stitched with clip cockeye.

Hame Tugs— $1\frac{1}{2}$ -in. Moeller plate, leather safe, with jointed clip, with $1\frac{1}{4}$ -in. bellyband billets, folded bellybands.

Pads—Harness leather, hair stuffed bottom, swell shaped, dee in end and $1\frac{1}{2}$ -in. market straps.

Back and Hip—1-in. hip and 1-in. back strap and crupper fork all sewed into metal trace carrier on top, folded crupper to buckle.

Breast Straps— $1\frac{1}{2}$ -in. double and stitched, with snaps and slides.

Martingales— $1\frac{1}{2}$ -in. wide (standard length) and with $\frac{3}{8}$ -in. riveted collar straps.

Hames—95C2010, black wood hames, bolt draft with $\frac{3}{8}$ -in. riveted hame straps, and $\frac{3}{8}$ -in. spread straps with duranoid ring. Wt., boxed, for shipment, about 70 lbs.

Made for horses up to 1,300 pounds.

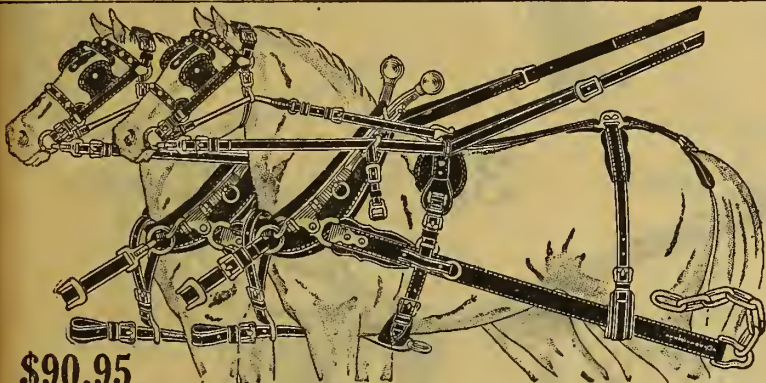
95C3090—Japan (black) trimmed without collars and hitch reins, per set. **\$72.25**

95C3091—Same as 95C3090, only, $1\frac{1}{4}$ -in. traces and hame tugs, per set. **\$74.50**

For $1\frac{1}{2}$ -in. x 18-ft. lines in place of regular, add, per set. **\$1.15**

95C3092—Same as 95C3090, only with beel chain traces as on 95C1516 harness. Price, per set. **\$72.30**

95C3093—Same as 95C3092, only with $1\frac{1}{4}$ -in. traces. Price, per set. **\$74.30**



\$90.95

Thornward Team Harness

This is our highest grade pad harness equipped with our new Folded Ring Crown Bridle; bas roller buckles and leather loops throughout. Note description carefully.

Bridles— $\frac{7}{8}$ -inch folded ring crown, short cheek with bit straps and noseband, face drop, combination winker brace and front, round side check.

Lines— $1\frac{1}{2}$ -inch x 18 feet, with buckle and billet and snaps.

Traces—Heavy $1\frac{1}{2}$ -inch x 6 feet with sewed in heel chain and jointed clip at front, $1\frac{1}{4}$ -inch billets, and folded bellybands with layer.

Hames—95C2044, XC ball top, bolt hames with 1-inch hame straps, $\frac{3}{4}$ -inch spread straps with wooden rollers.

Pads—All harness leather, extra wide and flexible, layer over top and hair stuffed, with terrets and hooks and with $1\frac{1}{4}$ -inch market straps.

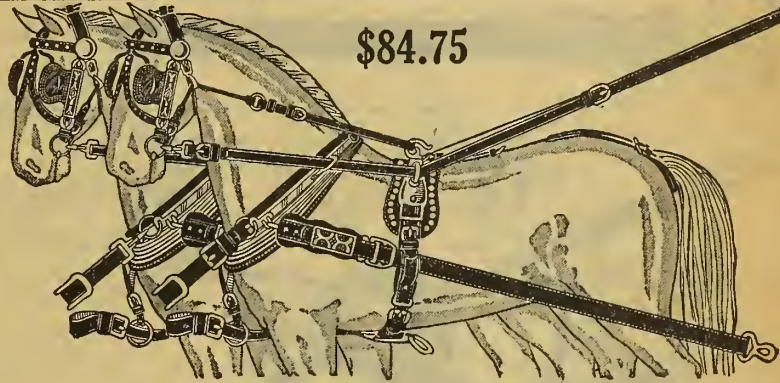
Back and Hip— $1\frac{1}{2}$ -inch hip straps with scalloped safes and trace loops, $1\frac{1}{2}$ -inch back strap to pad, folded crupper to buckle.

Breast Straps— $1\frac{1}{2}$ -inch x $4\frac{1}{2}$ feet, with snaps and slides.

Martingales— $1\frac{1}{2}$ inches, heavy, and double and stitched around front loop, and $\frac{3}{8}$ -inch collar straps. Made to fit horses up to 1,400 pounds. Weight, boxed for shipment, about 70 lbs.

95C1297—XC (white metal) trimmed, without collars and hitch reins. **\$90.95**

95C1298—Same as 95C1297 only with $1\frac{1}{4}$ -inch traces. Per set. **93.45**



\$84.75

Towanda Spring Wagon Harness

Our best grade of Spring Wagon Harness.

Bridles— $\frac{3}{4}$ inch box loop cheeks, harness leather sensible blinds, round winker braces and side checks.

Lines—1-inch by 18 feet, with buckle and billet and snaps.

Pads—Wide swell hair stuffed bottom with adjustable metal plate, double and stitched skirts, adjustable bearers, spotted housing, back straps $\frac{3}{4}$ inch, scalloped and stitched crupper to buckle.

Traces— $1\frac{1}{2}$ inch by $6\frac{1}{2}$ feet, raised double and stitched. Cockeye sewed in.

Hame Tugs— $1\frac{1}{2}$ inch pressed box loop with inserted safe, attached to low top, all black, steel clip hames, $\frac{3}{4}$ -inch hame straps, $\frac{3}{8}$ -inch spread straps, bellybands folded.

Breast Straps— $1\frac{1}{2}$ inch by $4\frac{1}{2}$ feet, with snaps and slides.

Martingales— $1\frac{1}{2}$ inch by 3 feet, $\frac{3}{8}$ inch collar straps. Made to fit horses up to 1,300 pounds. Weight, boxed for shipment, about 70 pounds.

95C342—Nickel trace buckles, nickel trimmed pads, nickel spots and rosettes, and small buckles XC white metal, price without collars and hitch reins. Per set. **\$84.75**

95C343—Brass trace buckles, brass trimmed pads, brass spots and rosettes, small buckles Japan (black), price without collars and hitch reins. Per set. **\$84.75**

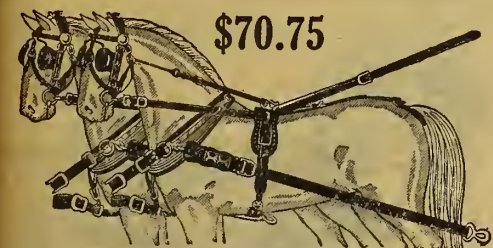
If wanted with bolt hame tugs and bames, in place of regular, add. **\$2.50**

For $1\frac{1}{2}$ inch traces and hame tugs, in place of regular, add. **2.50**

For $\frac{3}{4}$ inch single hip straps with trace supports, add. **3.50**

For $\frac{3}{4}$ inch double hip straps, folded breeching, $\frac{3}{8}$ inch layer, $\frac{3}{8}$ inch side straps, $\frac{1}{2}$ inch lazy straps (see small picture), add, per set. **\$15.00**

Be sure to state size of hames.



\$70.75

Chief Spring Wagon Harness

Popular priced Spring Wagon Harness plain but substantial.

Bridles— $\frac{3}{4}$ -in. box loop cheeks, harness leather sensible blinds, round winker brace, round side check and spotted ring face piece and front.

Lines—1-in. fronts with security buckles and with snaps, 1-inch hand parts, length, 18 feet.

Traces— $1\frac{1}{4}$ -in. by $6\frac{1}{2}$ -ft. flat double and stitched, sewed in cockeye.

Hame Tugs— $1\frac{1}{4}$ -in. pressed box loops with scalloped inserted safe, attached to all black low top steel clip hames, $\frac{3}{4}$ -in. hame straps, and $\frac{3}{8}$ -in. spread straps.

Pads—Swell shape, hair stuffed, sewed bottom with metal tree and spotted top, single strap skirts, double and stitched bearers, bellybands folded. Back straps $\frac{3}{8}$ -in., round crupper buckled on.

Breast Straps— $1\frac{1}{4}$ -in. by $4\frac{1}{2}$ -ft. with snaps and slides.

Martingales— $1\frac{1}{4}$ in. by 3 ft. with $\frac{3}{8}$ -in. collar straps. Made to fit horses up to 1,300 lbs. Weight, boxed for shipment, about 60 lbs.

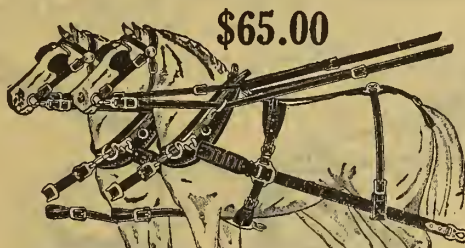
95C328—XC (white metal) trimmed, without collars and hitch reins. **\$70.75**

95C329—Japanned (black) trimmed, without collars and hitch reins. Per set. **\$70.75**

For $1\frac{1}{2}$ -in. traces and hame tugs in place of regular, add per set. **2.50**

For 95C6063 Hip Breeching, Add per set. **5.50**

Be sure to give size of hames wanted.



\$65.00

Gibbon's Special Harness

Bridles— $\frac{7}{8}$ -in. long cheeks, sensible blinds, round winker brace, flat checks.

Lines— $\frac{7}{8}$ -in. x 18 ft., with security buckles and snaps.

Traces— $1\frac{1}{2}$ in. x 6 ft., double and stitched with clip cockeye.

Hame Tugs— $1\frac{1}{2}$ -in., folded two loop, clip style, with 95C2015 all black iron over top clip hames, with $\frac{3}{8}$ -in. riveted spread straps with wood ring, $\frac{3}{8}$ -in. riveted hame straps. Folded belly bands. $1\frac{1}{4}$ -in. buckles.

Pads—Folded with layer and $1\frac{1}{4}$ -in. billets, loop on top.

Hip and Back—1-in. hip straps with trace loops, $1\frac{1}{4}$ -in. back straps, folded crupper to buckle.

Breast Straps— $1\frac{1}{2}$ -in., combination buckle and snap at each end and slide in center.

Martingales— $1\frac{1}{2}$ -in., without collar straps.

Made to fit horses up to 1,300 lbs. Weight, boxed for shipment, about 70 lbs.

95C1033—XC (white metal) trimmed without collars and hitch reins. Per set. **\$65.00**

95C1034—Same as 95C1033 only with $1\frac{1}{4}$ -inch traces and hame tugs, price. **\$67.50**

For 95C5528—1-in. x 18-ft. lines, in place of regular, add per set. **\$1.15**



\$52.50

Leader Team Harness

Made up to meet the increasing demand for a good low-priced team harness. Not our best grade.

Bridles— $\frac{3}{4}$ -in. long cheeks, sensible blinds, flat winker brace, long flat side checks.

Lines— $\frac{7}{8}$ -in. x 18-ft., with snaps riveted in.

Traces— $1\frac{1}{2}$ in. x 6-ft., double and stitched with clip cockeye.

Hame Tugs— $1\frac{1}{2}$ -in., with 3 metal loops attached to 95C2015 clip style hames, $\frac{3}{8}$ -in. riveted hame straps, and $\frac{3}{8}$ -in. riveted spread straps, bellybands single strap.

Pads—Folded with layer with terrets and hooks and $1\frac{1}{4}$ -in. reverse billets.

Hip and Back— $\frac{7}{8}$ -in. hip and back straps riveted into metal trace carrier on top, folded crupper to buckle, trace loops to hold traces.

Breast Straps— $1\frac{1}{2}$ -in., double with slides, and snaps riveted at each end.

Martingales— $1\frac{1}{2}$ -in., without collar straps.

Made to fit horses up to 1,200 lbs. Weight, boxed for shipment, about 65 lbs.

95C2290—Japan (black) trimmed, without collars and hitch reins. Per set. **\$52.50**

No changes made in this harness.

A Harness That Has Stood the Test of Years

Popular Medium Weight Single Buggy Harness

Can Also Be Had With
An Extended
Single Strap Trace and
All Black Iron Hames



\$29⁶⁵

This is our big leader in a good low priced buggy harness.

Bridles— $\frac{3}{4}$ inch box loop cheeks, patent leather blinds, round winker brace, with overcheck.

Lines— $\frac{1}{2}$ inch fronts with spring billet and 1 inch hand parts.

Breast Collar— $2\frac{1}{4}$ inch single strap and shaped with $1\frac{1}{4}$ -inch single strap traces attached split neck straps with $\frac{1}{2}$ -inch points.

Saddle— $2\frac{3}{4}$ inch swell and hair stuffed pad, sewed bottom, harness leather jockey, single strap skirts, flexible steel tree, bellybands single straps Griffith style with wrap strap. Shaft tugs $\frac{1}{2}$ inch with pressed box loops.

Breeching— $1\frac{1}{2}$ inch single strap. Side straps $\frac{3}{4}$ inch. Back straps straight $\frac{3}{4}$ inch round crupper sewed on. Hip strap split $\frac{1}{2}$ inch points.

Trimming—Nickel plated and imitation rubber.

Made to fit horses up to 1,250 pounds.

Weight, boxed for shipment, about 23 pounds.

95C140—Nickel trimmed, without hitch reins. Per set. \$29.65

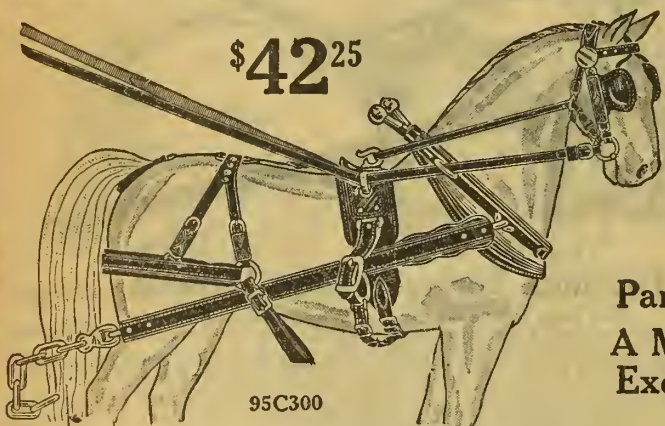
95C141—Imitation rubber trimmed, without hitch reins. Per set. 29.65

For russet hand part lines in place of regular, add.35

For dee and billet shaft tugs and double bellybands in place of regular, add.40

If wanted with line terrets on neck strap, add per set.30

Changes, extended single strap trace $1\frac{1}{4}$ inch attached to all black iron hames with hame straps (without collar) in place of breast collar and traces (see illustration below) add extra. \$1.50



\$42²⁵

Paragon—
A Model of
Excellence

A High Grade Single Wagon Harness

Bridle— $\frac{3}{4}$ -inch box loop cheeks, harness leather sensible blinds, round winker brace, spotted front flat side cheek with gag swivels to check to pad.

Lines—1 inch by 14 feet, with buckle and billet.

Saddle—4-inch, hair stuffed pad, heavy single strap skirts, $1\frac{1}{4}$ -inch bearers and billets.

Shaft Tugs— $1\frac{1}{2}$ -inch brass bar buckles, dee and billet style.

Bellybands—Inside, $1\frac{1}{2}$ -inch double and stitched outside single straps.

Traces— $1\frac{1}{2}$ -inch; length, 5 feet, heavy, double and stitched with scalloped safe, ball top clip hame, 12-inch heel chain clipped on.

Breeching—Folded with layer, side straps 1-inch, back strap 1-inch, with crupper to buckle hip strap split to $\frac{3}{4}$ -inch points, with brass spots.

Made for horses up to 1,300 pounds. Weight, boxed for shipment, about 45 pounds.

95C300—Japanned (black) with brass ball hames and spots, without collar and hitch rein. \$42.25

Extra Large Harness

95C301—Same style as 95C300 only made heavier and extra large for 1,500 to 1,600 lb. 44.25



\$35⁵⁰

Sturdy
Single
Wagon
Harness

Bridle— $\frac{3}{4}$ -inch cheek, harness leather sensible blinds, flat side cheek with gag swivels to check to pad.

Lines—1-inch, with buckle and billet, length 14 feet.

Saddle—Flexible, all leather, hair stuffed bottom, with single leather skirts, double and stitched bearers shaft tugs, $1\frac{1}{2}$ -inch, bellybands single strap.

Traces— $1\frac{1}{2}$ -inch double and stitched with clip cockeye, length 6 feet.

Hame Tugs— $1\frac{1}{2}$ -inch folded, two loop, attached to low top wood clip hames, with $\frac{3}{8}$ -inch hame strap.

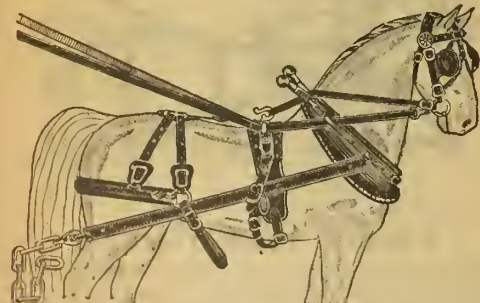
Breeching—Folded with layer side straps $\frac{3}{4}$ -inch, back strap $\frac{1}{2}$ -inch, no crupper, hip straps $\frac{1}{2}$ -inch double. Made for horses up to 1,200 pounds. Weight, boxed for shipment, about 35 lbs.

95C280—XC (White) trimming. Price without collar and hitch rein. Per set. \$35.50

High top hame furnished at same price.

For crupper to buckle and crupper fork to snap into ring on rump, add. 1.00

Be sure to give size of hames wanted.



Southern Wagon Harness

This is a good Southern wagon harness at a low price.

To satisfy the demand for a good medium weight single wagon harness, the Wardway factory has put out this harness. It furnishes a lesson in economy. It is built similar to any other high grade harness yet through our economical system in force at our factory, we are able to offer this at a low price.

Bridle—1 inch cheeks, flat winker brace and side cheek, with face piece.

Lines—1 inch, length 14 feet.

Saddle— $4\frac{1}{2}$ inch leather skirts and pad, nickel spotted housing, double and stitched bearers, shaft tugs $1\frac{1}{4}$ inch, bellybands single strap.

Traces— $1\frac{1}{2}$ inch length 5 feet, double and stitched attached to ball top clip hame, 18 inch heel chain clipped on, $\frac{1}{2}$ -inch hame straps.

Breeching—Folded with layer. Side straps, 1 inch. Back strap $\frac{1}{2}$ inch. Hip strap 1 inch double, nickel spotted.

Made for horses up to 1,100 pounds.

Weight, boxed for shipment, about 35 pounds.

95C290—XC (white) trimming. Price, without collar and hitch rein, per set. \$32.75



Royal Utility Harness

Bridle— $\frac{3}{4}$ inch box loop cheeks, flat winker brace, sensible blinds, flat side cheek.

Lines—1 inch, buckle and billet, length 13 feet.

Saddle— $3\frac{1}{2}$ inch, sewed bottom pad, single strap skirts.

Shaft Tugs—1 inch, with dee and billet and pressed box loops.

Bellybands—Two. One folded and one single strap.

Traces— $1\frac{1}{4}$ inch by 6 feet, double and stitched, with dart hole.

Hame Tugs— $1\frac{1}{4}$ inch pressed box loops, swell ends.

Hames— $3\frac{1}{2}$ pounds all black iron.

Breeching—Folded with layer. Side straps $\frac{7}{8}$ inch.

Back Strap— $\frac{7}{8}$ inch with crupper to buckle. Hip strap split, $\frac{1}{4}$ inch points.

Made to fit horses up to 1,150 pounds.

Weight boxed for shipment about 30 pounds.

95C221—Japanned (black) trimming. Price without collar and hitch reins, per set. \$30.95

Be sure to give size of hames, if no collar is wanted.



Exmoor Harness

This is a Real Bargain in a Good Medium Weight Single Harness

Bridle— $\frac{3}{4}$ inch box loop cheek, patent leather blinds, flat winker brace and overcheck.

Lines— $\frac{7}{8}$ inch, to loop in bit.

Saddle—3 inch, hair stuffed and sewed bottom pad, single strap skirts, flexible steel tree.

Shaft Tugs—1 inch with center bar buckle.

Bellyband—Griffith style with wrap straps.

Traces— $1\frac{1}{2}$ inch by 6 feet double and stitched, with dart hole hames attached, and with $\frac{3}{8}$ inch riveted hame straps.

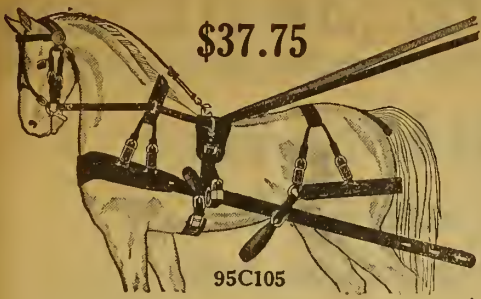
Breeching—Folded with layer. Side straps $\frac{3}{4}$ inches. Back straps, $\frac{3}{4}$ inches. Crupper sewed on. Hip straps split, $\frac{1}{2}$ inch points.

Made for horses up to 1,150 pounds.

Weight, boxed for shipment, about 25 pounds.

95C100—XC (white) trimming. Price, without collar and hitch rein, per set. \$27.75

Be sure to give size of hames, if no collar is wanted.



\$37.75

95C105

Monarch Buggy Harness

A heavy well made harness. Note the round hip and neck strap and blind.

Bridle— $\frac{1}{2}$ inch double round cheek, looped through extension on crown, overcheck with nose band.

Lines— $\frac{1}{2}$ inch fronts with spring billets, $1\frac{1}{2}$ inch hand parts.

Breast Collar— $2\frac{3}{4}$ inch single strap and shaped, $1\frac{1}{2}$ inch single strap traces attached. Neck strap with rounded forks to slide through loops and with line terrets.

Saddle—3 inch swell and hair stuffed pad with single strap skirts, harness leather jockey, flexible steel tree. Bellybands single straps Griffith style with wrap straps. Shaft tugs 1 inch with pressed box loops.

Breeching— $1\frac{1}{2}$ inch single strap. Side straps $\frac{3}{4}$ inch. Back straps $\frac{3}{4}$ inch, scalloped and stitched, round crupper sewed on. Hip straps rounded forks to slide through loop.

Trimming—Nickel plated and imitation rubber. Made to fit horses up to 1,300 lbs. Weight, boxed for shipment, 25 lbs.

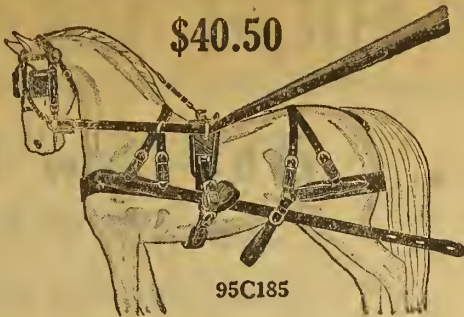
95C105—Nickel trimmed, without hitch reins, per set. \$37.75

95C106—Imitation rubber trimmed, without hitch reins, per set. 37.75

Blind Bridle in place of open at same price.

For Russet hand part lines in place of regular, add.25

For dee and billet shaft tugs and double bellybands in place of regular, add.35



\$40.50

95C185

Jumbo Buggy Harness

Bridles— $\frac{3}{4}$ inch box loop cheeks, patent leather blinds, round winker brace, overcheck with nose band.

Lines—1 inch fronts with spring billets and $1\frac{1}{2}$ inch band parts.

Breast Collar— $2\frac{3}{4}$ inch wide heavy single strap and shaped, $1\frac{1}{2}$ inch single strap traces attached, double and stitched split neck strap, $\frac{3}{4}$ -inch points and with line terrets.

Saddle—3 inch heavy swell and hair stuffed pad, harness leather jockey, heavy single strap skirts, flexible steel tree, long housing. Bellybands heavy single straps, Griffith style with wrap strap. Shaft tugs, 1 inch, heavy and pressed box loops.

Breeching— $1\frac{1}{2}$ inch heavy single strap. Side strap 1 inch. Back straps 1 inch scalloped and stitched and round crupper sewed on. Hip straps split $\frac{3}{4}$ inch points.

Trimming—Nickel plated and solid brass, wide swedge pattern. Made to fit horses up to 1,300 lbs. Weight, boxed for shipment, about 35 lbs.

95C185—Nickel trimmed, without hitch reins, per set. \$40.50

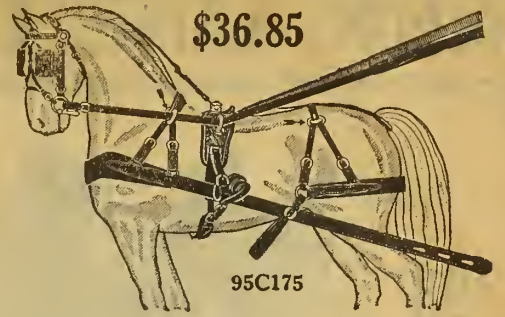
95C186—Brass trimmed, without hitch reins, per set. 40.50

Same style Harness, only made Extra large for horses up to 1,500 lbs.

95C187—Nickel trimmed, without hitch reins, per set. \$43.50

For Russet hand part lines in place of regular, add.25

For dee and billet shaft tugs and double bellybands in place of regular, add.35



\$36.85

95C175

Pacer Buggy Harness

One of our new styles with wide swedge pattern buckles and with line terret on neck strap and line support on hip strap.

Bridles— $\frac{3}{4}$ -inch box loop cheeks, patent leather blinds, round winker brace, overcheck with nose band.

Lines— $\frac{1}{2}$ inch fronts with spring billets and $1\frac{1}{2}$ inch hand parts.

Breast Collar— $2\frac{3}{4}$ inch single strap and shaped, $1\frac{1}{2}$ inch single strap traces attached, neck strap folded with layer and $\frac{3}{8}$ inch point sewed into line terret.

Saddle—3 inch swell and hair stuffed pad, sewed bottom, harness leather long jockey, heavy single strap skirts, flexible steel tree. Bellybands single strap Griffith style with wrap strap, shaft tugs 1 inch with pressed box loops.

Breeching— $1\frac{1}{2}$ inch single strap. Side straps $\frac{3}{4}$ inch. Back strap, $\frac{3}{4}$ inch scalloped and stitched, round crupper sewed on. Hip straps double and stitched center with $\frac{3}{8}$ inch points sewed into line support.

Trimming—Nickel plated and solid brass. Made to fit horses up to 1,250 lbs. Weight, boxed for shipment, about 25 lbs.

95C175—Solid brass trimmed, without hitch reins, per set. \$36.85

95C176—Nickel trimmed, without hitch reins, per set. 36.85

For dee and billet shaft tugs and double bellybands in place of regular, add.35



\$34.50

95C160

Eclipse Buggy Harness

Bridle— $\frac{3}{4}$ inch box loop cheek, patent leather blinds, round winker brace, double and stitched front, overcheck with nose band.

Lines— $\frac{1}{2}$ inch fronts with spring billets, $1\frac{1}{2}$ inch hand parts.

Breast Collar— $2\frac{3}{4}$ inch single strap and shaped with $1\frac{1}{2}$ inch single strap traces attached, neck strap with $\frac{3}{8}$ inch points and $1\frac{1}{2}$ inch center and with line terrets.

Saddle—3 inch swell and hair stuffed pad, patent leather jockey, long housing, beaded edge, single strap skirts, 1 inch double and stitched bearers, flexible steel tree. Bellybands single strap Griffith style with $\frac{1}{2}$ inch wrap strap, shaft tugs 1 inch with pressed box loops.

Breeching— $1\frac{1}{2}$ inch single strap, $\frac{3}{4}$ inch side straps, $\frac{5}{8}$ inch split hip straps, $\frac{3}{4}$ inch double and stitched and scalloped back strap, round crupper sewed on.

Trimming—Nickel plated and solid brass. Made to fit horses up to 1,300 lbs. Weight, boxed for shipment, about 25 lbs.

95C160—Nickel trimmed, without hitch reins, per set. \$34.50

95C161—Brass trimmed, without hitch reins, per set. 34.50

95C159—Imitation rubber trimmed, less hitch reins, per set. 34.50

Same style, only made to fit horses up to 1,500 lbs.

95C162—Nickel trimmed, less hitch reins, per set. 37.75

For Russet hand part lines in place of all black, add.25

For dee and billet shaft tugs and double bellybands in place of regular, add.35



\$19.50

95C90

Georgia Harness

This harness is designed for those wanting a cheap Buggy Harness. We sell a great many of them with good results.

Bridles— $\frac{3}{4}$ inch cheeks, patent leather blinds, flat winker braces and overcheck.

Lines— $\frac{3}{4}$ inch, snap into bit.

Breast Collar—Folded, with traces, 1 inch double and stitched, sewed to breast collar, with neck strap.

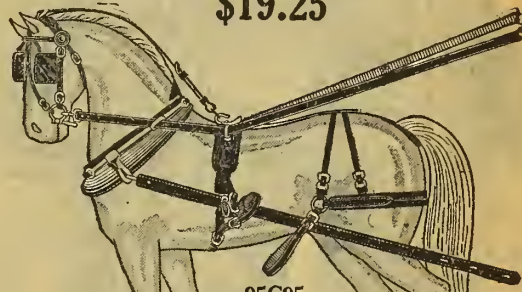
Saddle— $2\frac{1}{2}$ inch, iron jockey, single strap skirts.

Shaft Tugs— $\frac{3}{4}$ inch, with bar buckle.

Belly Band—Griffith style with wrap straps.

Breeching—Folded. Side straps, $\frac{3}{4}$ inch. Back strap, $\frac{3}{4}$ inch. Hip strap, $\frac{1}{2}$ inch, double made to reverse into breeching. Made for horses up to 1,100 pounds. Weight, boxed for shipment, about 18 pounds.

95C90—Japan (black) trimming. Price, less hitch rein, per set. \$19.50



\$19.25

95C95

Standard Buggy Harness

A good single harness at an exceptionally low price. This is an unusual bargain in a single collar and Hame Harness. If you are in the market for a low priced harness, you will make no mistake in selecting this one.

Bridle— $\frac{3}{4}$ inch cheek, leather blinds, flat winker braces and overcheck.

Lines— $\frac{3}{4}$ inch, to snap into bit.

Saddle— $2\frac{1}{2}$ inch, iron jockey, single strap skirts.

Shaft Tugs— $\frac{3}{4}$ inch, with center bar buckle.

Belly Band—Griffith style with wrap straps.

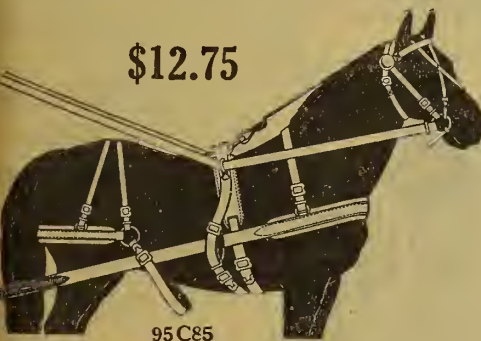
Traces—1 inch double and stitched with dart hole, attached to hames.

Hames— $3\frac{1}{2}$ pounds. Japan iron.

Breeching—Folded. Side strap $\frac{3}{4}$ inch. Back strap $\frac{3}{4}$ inch. Hip strap $\frac{1}{2}$ inch double, made to reverse into breeching. Made for horses up to 1,050 pounds. Weight, boxed for shipment, about 20 pounds.

95C95—Japan (black) trimmed. Price, without collar and hitch rein, per set. \$19.25

For leather collar see collar page.



\$12.75

95C85

Russet Web Harness

Big Value in a Good Grade Web Harness

For a light, flexible harness for summer driving this harness is very good. The fact that it is adjustable throughout, makes it easy to handle on any horse. It does not weigh heavy on the horse and so makes him feel more free. And furthermore, there is nothing to crack or break.

Lines—1 inch to loop in bit, length, 13 feet.

Saddle— $2\frac{1}{2}$ inches, flexible.

Breast Collar—2 inches wide.

Traces— $1\frac{1}{2}$ inches.

Breeching—2 inches, with $1\frac{1}{2}$ inch layer.

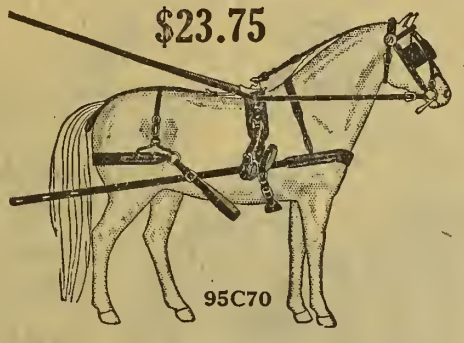
Trimming—XC metal (white). Made suitable for average horses weighing up to 1,200 lbs. Weight, packed for shipment, about 8 lbs.

95C85—Single harness with open bridle. Price, less hitch rein, per set. \$12.75

95C86—Same harness with blind bridle. Price, less hitch rein, per set. 14.25

Russet Web Pony Harness

95C88—Same as 95C85 Harness. Only pony size, per set. \$12.75



\$23.75

95C70

Peerless Pony Harness

Single and Double

This is a well made Pony Harness and one that you will be proud of.

Bridle— $\frac{1}{2}$ inch box loop cheeks, patent leather blinds, flat winker brace with overcheck.

Lines— $\frac{3}{4}$ inch fronts, $\frac{3}{4}$ inch hand parts, length, $10\frac{1}{2}$ ft.

Breast Collar— $1\frac{1}{2}$ inch single strap traces, traces, 1 inch sewed to breast collar.

Saddle— $2\frac{1}{2}$ inch hair stuffed pad, single strap skirts, patent leather jockey, steel tree, shaft tugs $\frac{3}{4}$ inch, bellyband single strap Griffith style.

Breeching— $1\frac{1}{2}$ inch single strap, back strap, $\frac{5}{8}$ inch scalloped with layer, round crupper sewed on, side straps, $\frac{3}{4}$ inch, hip straps, $\frac{1}{2}$ inch. Made for Ponies from 500 to 600 lbs. Weight, boxed for shipment, about 16 lbs.

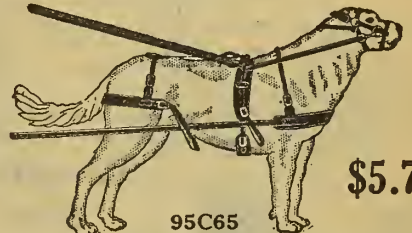
95C70—Nickel trimming, black leather. Price, less hitch reins, per set. \$23.75

Double Breast Collar Pony Harness

95C74—Bridles, $\frac{1}{2}$ inch open (no blinds) cheeks made to reverse into bit. Single strap breast collars with 1-in. Single Strap traces sewed to breast collar (Japanese irons). Lines, $\frac{3}{4}$ inch fronts, $\frac{3}{4}$ in. hand parts. Pads made with housings, single strap skirts, made black leather. Nickel trimming only. Shipping weight, per set, about 30 pounds. Price, without hitch rein, per set. \$36.50

For collars and Japanese hames and 1 inch single strap traces attached, in place of regular Breast Collar, add. 3.00

If wanted with breeching and Martingale, add per set. 10.00



\$5.70

95C65

Dog Harness

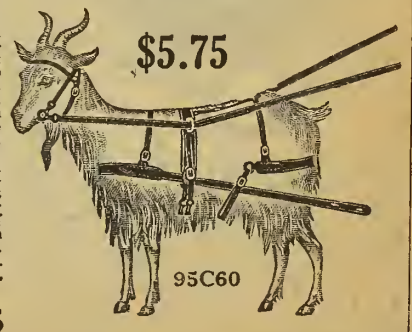
Dog Harness, russet leather. **Bridle**, $\frac{3}{8}$ in. open, adjustable at top, all around noseband, ring in cheeks for lines, no bit. **Breast Collar** $1\frac{1}{2}$ x 17 in. with neck strap, traces, $\frac{3}{8}$ in. x 3 ft. single strap, sewed to breast collar with plain splice. **Pad**, $1\frac{1}{2}$ in. x 2 ft. 10 in., shaft tug attached. **Back strap** $\frac{3}{8}$ in. **Hip strap**, $\frac{1}{2}$ in. **Breeching**, $1\frac{1}{2}$ x 17 in. Side straps, $\frac{3}{8}$ in. Lines, $\frac{3}{8}$ in. x 6 ft. with snaps, no hitch strap. Made in one size. Shipping weight, per single set, about 2 pounds.

95C65—Price, per set. \$5.70

Goat Harness

Single Goat Harness, russet leather. **Bridle**, $\frac{3}{8}$ in. with bit to snap. **Breast Collar**, $1\frac{1}{2}$ in. flat with plain layer point. **Traces**, 1 in. flat, sewed to breast collar. **Saddle**, 2 in. flat, no tree, full lined loose ring terrets. **Shaft tugs**, $\frac{3}{8}$ in. **Hip straps**, $\frac{3}{8}$ in. **Bellyband**, double with snaps. **Side straps**, $\frac{3}{8}$ in. **Turnback**, $\frac{3}{8}$ in. plain with safe. **Breeching**, $1\frac{1}{2}$ in. flat with plain layer point. **Lines**, $\frac{3}{8}$ in. to snap in bit, length 6 ft. no hitch strap. Weight, per set, about 3 lbs.

95C60—Price, per set. \$5.75



95C60

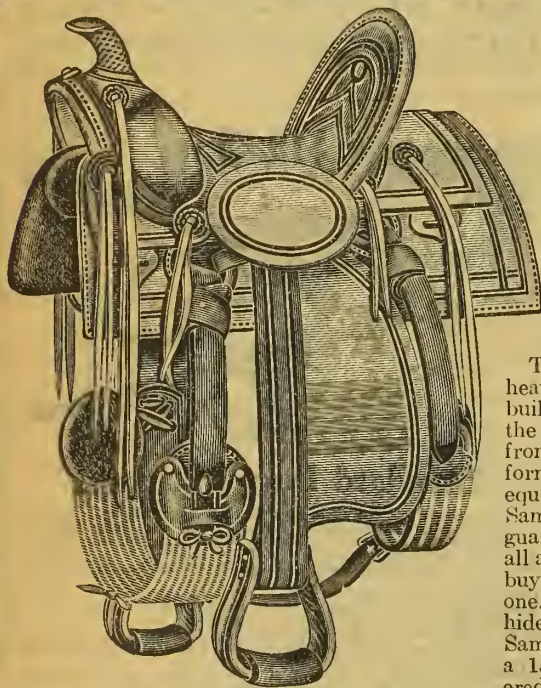
NEW LINE OF HIGH GRADE SADDLES

\$93⁷⁵



The New BELL Saddle Superior in Style and Quality Made from the Best Leather Obtainable

Hand stamped leaf border. Made from highest grade California skirting leather.
Tree—15 inch Cody, hide covered.
Horn—Sampson Steel, leather covered.
Seat—Seat, cantle, and jockey in one piece.
Skirts—14x29 inch; sheepskin wool lined.
Stirrup Leathers—3 inch; lined at points to lace.
Front—15 inch swell, leather bound.
Fenders—9x17 inches.
Latigoes—1¾ inches wide. Off Billet, 2 inches wide.
Cinchas—5 inch Mexican hard twist cotton and 3½ in. belting web flank, leathered and connected. Double rigged.
Stirrups—2½ in. brass bound Visalia, leathered top and bottom.
 Weight of entire saddle, 36 lbs. Shipping weight, 46 lbs.
 95C2705—Price, each..... **\$93.75**



Wyoming Highest Grade Stock Saddle

\$112⁵⁰

This is our highest grade heavy stock saddle. It is built to stand the strain of the heaviest roping. Cut from the highest grade California Skirting Leather and equipped with the genuine Sampson Steel Horn which is guaranteed not to break. For all around service you cannot buy a better saddle than this one. **Tree**—Heavy Beef hide covered, 16 inch seat, Sampson steel horn, about a 15 inch swell, horn covered with braided rawhide, with horn strings and rope strap securely fastened to tree. **Seat**—Full, seat and jockey all in one solid piece, bound cantle and steel strainer. **Skirts**—30 inches long and 15 inches deep, sheepskin wool lined. **Stirrup Leathers**—3 inch heavy, and double at points to lace; fenders 9x18 inches attached. **Tie Straps**—2 inches wide, with 2 inch buckle. **Stirrups**—2 inch wood. Oxbow pattern, brass bound, leather footpieces laced in leather around bar. **Cinchas**—20-strand White Angora Hair, wool lined chapes and connected, heavy. Double rigged. Weight, 39 lbs. Shipping weight, about 50 lbs. **\$112.50**
 95C2746—Price, each.....
 95C2747—Same as 95C2746, only single rigged. Price, each..... 110.50

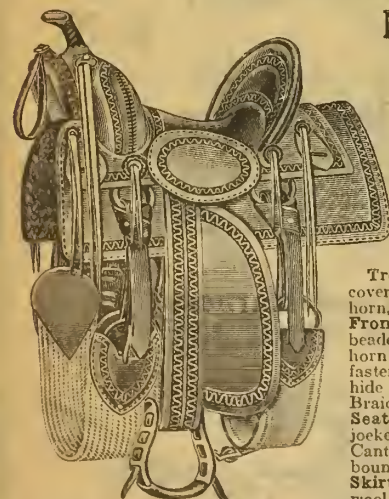
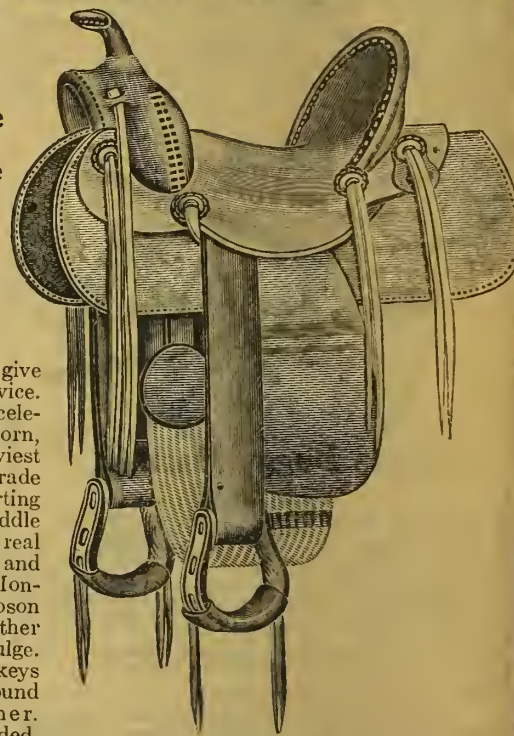
with horn strings and rope strap securely fastened to tree. **Seat**—Full, seat and jockey all in one solid piece, bound cantle and steel strainer. **Skirts**—30 inches long and 15 inches deep, sheepskin wool lined. **Stirrup Leathers**—3 inch heavy, and double at points to lace; fenders 9x18 inches attached. **Tie Straps**—2 inches wide, with 2 inch buckle. **Stirrups**—2 inch wood. Oxbow pattern, brass bound, leather footpieces laced in leather around bar. **Cinchas**—20-strand White Angora Hair, wool lined chapes and connected, heavy. Double rigged. Weight, 39 lbs. Shipping weight, about 50 lbs. **\$112.50**
 95C2746—Price, each.....
 95C2747—Same as 95C2746, only single rigged. Price, each..... 110.50

Montana

A Good Grade Roping Saddle

\$76⁷⁵

A saddle that will give years of satisfactory service. It is equipped with the celebrated Sampson Steel Horn, and will stand the heaviest roping. Cut from high grade Russet California Skirting Leather. This is a saddle that will make riding a real pleasure for both man and horse. **Tree**—15 inch Monarch hide covered Sampson steel horn. Horn leather covered, with 15 inch bulge. **Seat**—Full, seat and jockeys in one piece. Leather bound cantle. Steel Strainer. **Front**—Raised and beaded. Leather bound. **Skirts**—27x13½ inches, round cornered, wool, sheepskin lined. **Fenders**—8¼x15½ inches attached to Stirrup Leathers. **Stirrup Leathers**—2¾ inches, lined at points to lace. **Tie Straps**—Single Rig. 1¾ inches on near side and 1 inch buckle strap on off side. ¾ inch Rope Strap on off side. **Girths**—1½ inches. Mexican Hard Twist Cotton, wool lined safes. **Stirrups**—Turne metal, leathered and laced. Weight, 28 lbs. Ship. wt., 38 lbs. **\$76.75**
 95C2703—Price, each.....

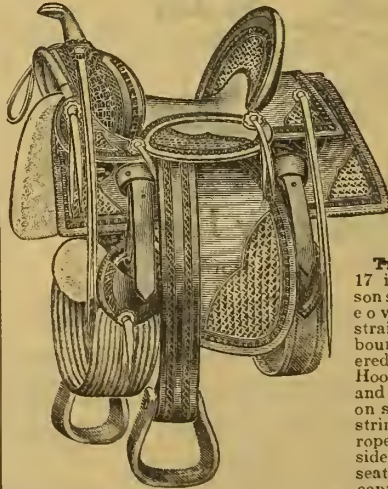


Monarch Stock Saddle

\$78⁷⁵

Tree—15 in. hide covered. Sampson steel horn, with 14 in. bulge. **Front**—Raised and beaded, laced on sides, horn string securely fastened to tree. Rawhide bound front. Braided rawhide horn. **Seat**—Full, seat and jockeys in one piece. Cantle creet, awhide bound, invisible seam. **Skirts**—27x13 inch wool, sheepskin lined, embossed stamped border. **Fenders**—9x15 in. attached to stirrup leathers. **Stirrup Leathers**—2¾ inch, double at points to lace. **Tie Straps**—1½ inch by 4½ feet, cut from Indian tanned latigo rawhide. **Buckle Straps**—1¾ inch on off side. Rings, leather covered. **Cinchas**—20-strand hair girth in front, heavy belting web in rear, leather chaped and connected. **Stirrups**—Turner Improved, metal stirrup leather trimmed, with latigo leather tie strings. Double rigged.

Weight, 29 lbs. Shipping weight, 39 lbs. **\$78.75**
 95C2734—Price, each.....
 95C2735—Same as 95C2734 only single rigged. Price, each..... 76.75

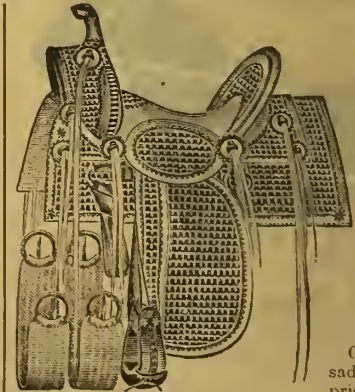


Pueblo With a 17-inch Bulge

\$88⁷⁵

Tree—15 in. seat. 17 in. bulge. Sampson steel horn, leather covered cantle, straight, leather bound, hide covered tree. **Front**—Hood style raised and beaded, laced on sides; with horn string on near side; rope strap on off side. **Seat**—Full; seat, jockeys and cantle in one piece. **Skirts**—27x13½ in. wool sheepskin lined. Rings, leather covered. **Fenders**—9x17 inch, attached to stirrup leathers. **Stirrup Leathers**—3 inches, double at points to lace. **Tie Straps**—1¾ inch with 1¾ inch buckle straps on off side. **Cinchas**—20-strand Angora hair front, with 3½ inch belting web in rear; leather chaped and connected. **Stirrups**—Visalia 2½ inch heavy wood, brass bound. Double rigged. Weight, 32 pounds. Shipping weight, 43½ pounds.

95C2728—Price, each..... **\$88.75**
 95C2729—Same as 95C2728 only single rigged. Price, each..... 86.75



Hereford Light Roping Saddle

Made With
Sampson
Steel Horn
\$79⁵⁵

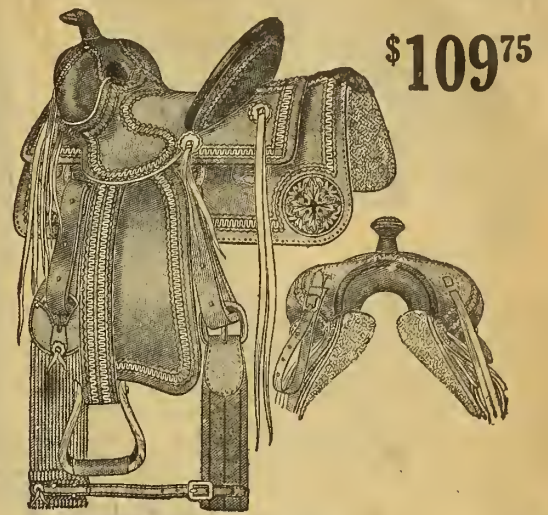
One of our best stock saddles at a popular price. A very attractive design. **Tree**—15 in. hide covered, Sampson steel horn, 14 in. swell. **Front**—Hood style, laced on sides with Horn string on near side of front. Leather bound. **Seat**—Full, seat and jockeys in one solid piece. Leather bound cantle. Steel Strainer. **Skirts**—27x13 in. wool sheepskin lined. **Fenders**—16x10 inches attached to Stirrup Leathers. **Stirrup Leathers**—3 in. doubled at points to lace. **Tie Straps**—1¾ in. full length, 1¾ in. buckle straps on off side. **Stirrups**—2 in. wood Ox Bow pattern, leathered on sides with leather bars and leather foot pieces. **Girths**—Fine Mexican Hair, 6 inches wide, leather chapes. Fancy brass tie ornaments Full Clover Leaf hand stamp design. Double rigged. Weight, 27 pounds. Shipping weight, 42 pounds. **\$79.55**
 95C2590—Price, each.....

THE RANGERS' PRIDE—A ROPER SADDLE

A New Product of the Wardway Saddlery A Distinct Advance in Saddlery Design

Made for heavy roping from the highest grade California Skirting Leather.

- Tree**—15 inch Montana, heavy Beef hide covered.
 - Horn**—Sampson Steel, leather covered.
 - Seat**—Full; Seat, cantle and jockey in one piece.
 - Skirts**—15x29 inch; sheepskin wool lined. Cantle, straight; Leather bound. Deep and extra wide.
 - Stirrup Leathers**—3½ inch; lined at points to lace.
 - Front**—15 inch swell. Solid, no lacing. Heavy bound. ¾ inch rope straps.
 - Fenders**—10x19 inches.
 - Latigos**—1¾ inches wide. Off Billet, 2 inches wide.
 - Cinchas**—5 inch Mexican hard twisted cotton and 3½ in. belting web flank, leathered and connected. Double rigged.
 - Stirrups**—2½ inch brass bound Visalia, leathered top and bottom.
- Weight, of entire saddle, 38 lbs. Shipping weight, about 48 lbs.
- 95C2750—Price, each **\$109.75**



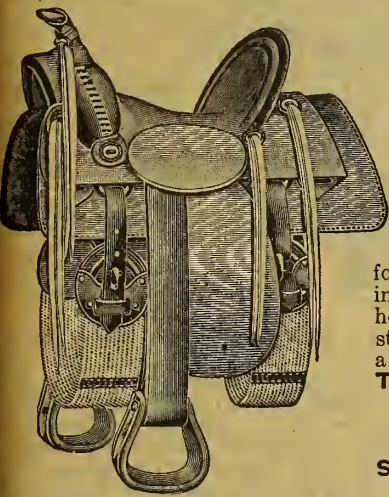
\$109⁷⁵

The Cody Stock Saddle

A Very Popular Plain Saddle

A high grade Saddle cut from California skirting leather and everything in it the very best. Made for the heaviest kind of roping. If the Sampson steel horn should break, we will give you a new saddle.

- Tree**—Pueblo Sampson steel horn. Black rawhide bound front, cantle, Beef hide covered, 15-inch seat, 14-inch swell and front lacing.
- Skirts**—29 inches long and 14 inches deep. California bark tanned, wool



- sheepskin lined. Horn, leather covered with cap.
 - Fenders**—10x18 inch, attached to stirrup leathers.
 - Seat**—Full; seat, jockeys and cantle in one piece.
 - Stirrup Leathers**—3 inch double at points to lace.
 - Tie Straps**—1¾ inch by 5 feet; buckle straps, 2 inches.
 - Stirrups**—Visalia, wood, 2¾ inches, full brass bound. Rings, steel, leather covered. Rope strap, ¾ inch on off-side.
 - Cinchas**—18 strand California Angora White Hair, with leather chapes, wool lined and buckle tongues on each end, and connected. Double rigged.
- Weight, 35 pounds. Shipping weight, 45 pounds.
- 95C2752—Price, each **\$95.75**

The Dan'l Boone Stock Saddle

A High Grade Saddle to Use for Heavy Roping

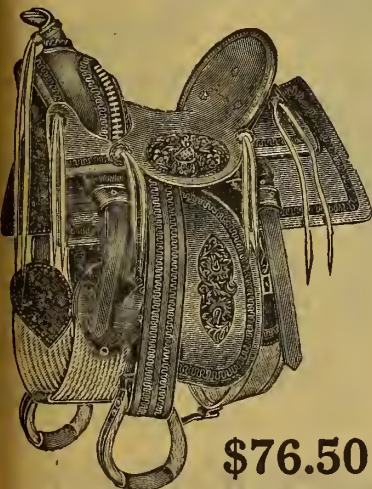
Fancy corner stamped. Made from highest grade California Skirting Leather.

- Tree**—15 inch Cody, hide covered.
- Horn**—Sampson Steel, leather covered.



- Front**—17 inch swell, leather bound.
- Skirts**—14x29 inches. Sheepskin, wool lined.
- Seat**—Seat, cantle and jockey in one piece.
- Stirrup Leathers**—3 inch; lined at points to lace.
- Fenders**—9x17 inches.

- Latigos**—1¾ inches wide. Off Billets, 2 inches wide.
 - Stirrups**—2½ in. brass bound Visalia, leathered top and bottom.
 - Cinchas**—5-inch Mexican hard twisted cotton and 3½ inch belting web flank, leathered and connected. Double rigged.
- Weight of entire saddle, about 37 lbs. Shipping weight, about 47 lbs.
- 95C2707—Price, each **\$95.00**

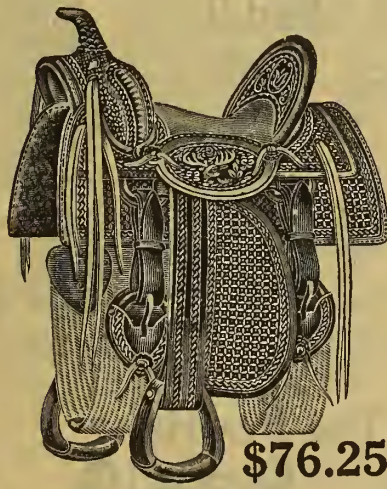


\$76.50

Excelsior

Our Excelsior Saddle has proven a decided success with many ranchmen, due to its durability and ruggedness. Its ability to withstand wet weather conditions is remarkable. It is a "common sense" saddle.

- Not Mailable**
 - Tree**—15 in Sampson steel horn with 15 in. bulge. **Front**—Hood style laced on sides and rawhide strings. Horn string on near side and rope strap on off side. **Seat**—Full; seat and jockeys in one piece. Bound cantle. Steel strainer. **Skirts**—26x14 in. wool sheepskin lined. **Fenders**—9x16 in., attached to stirrup leathers. **Stirrup Leathers**—3 in., lined at points to lace. **Tie Straps**—15 in. on near side, 1½ in. on off side to buckle. Leather covered rings. **Girths**—5 in. Mexican Hair front Girth; Rear, 3½ in. belting web with leather chapes and connecting straps. **Stirrups**—2 in. Ox Bow pattern, brass bound, leather bottoms, Latigo laced, Double rigged.
- Weight, 31 pounds. Shipping weight, 41 pounds.
- 95C2697—Price, each **\$76.50**
- 95C2699—Same as 95C2697, only Single rigged **\$74.00**



\$76.25

Republic

Another of our high-grade saddles made of heavy California skirting leather, Sampson steel horn tree. If the horn should break we will give you a new saddle.

- Tree**—15 inch covered, Sampson steel fork has 14 inch wide bulge, erect leather bound cantle. Deep seat, fancy stamped. **Front**—Hood style, beaded, leather-bound, rawhide laced on sides. Rawhide braided horn. Has rope strap on off side, horn string on near end. **Seat**—Full; seat and jockeys in one piece, steel strainer, fancy floral stamped. **Skirts**—26x13 inch, heavy sheepskin wool lined, fancy embossed stamping. **Fenders**—9x15 inch swell shaped, attached to stirrup leathers. **Stirrup Leathers**—2½ inch, double at points, to lace. **Tie Straps**—1½ inch with 1½ inch buckle straps on off side. **Stirrups**—2 inch Ox Bow pattern, leather bottoms. **Cinchas**—5 in. White Mexican Cotton, with full leather chapes at ends, trimmed with leather rosettes and lace strings. Double rigged.
- Weight, about 31 lbs. Shlp. wt., 41 lbs.
- 95C2722—Price, each **\$76.25**



\$64.25

Pioneer

Made With Sampson Steel Horn

- A popular stock saddle.
 - Best material and workmanship throughout.
 - Tree**—15 inch Arizona hide covered, Sampson steel fork. Fancy stamped. Has 14 inch bulge. **Front**—Hood style laced on side with horn string. **Seat**—Full; seat and jockeys in one piece. Leather bound cantle and front fancy stamped.
 - Skirts**—Length, 24 in. Rounded corners, wool sheepskin lined; fancy, brass star ornaments in skirts. Fancy brass star ornament conchas tied with latigo lace strings. **Stirrup Leathers**—Fancy stamped, 2 inches wide, lined at points to lace. **Tie Straps**—Width, 1½ inches. Have 1½ inch buckle straps on off side. Leather covered rings. **Fenders**—3½x15 inches. Swell shape, border stamped. **Girths**—Two 20-strand White Texas Cotton cinchas with buckle tongues, leather chapes. Double rigged. **Stirrups**—2 inch Ox Bow pattern.
- Weight, 25 pounds. Shipping weight, 35 pounds.
- 95C2654—Price, each **\$64.25**

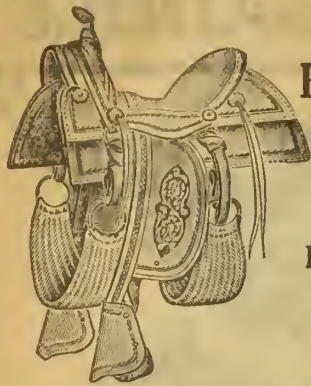


\$49.25

Ranchmen's Special

To meet the ever increasing demand for a saddle that has all the aspects of a good high-grade article and yet within reach of almost any ranchmen's in price, has been the policy established by the Wardway Saddlery. This Ranchmen's Special saddle, containing the genuine Sampson Steel Roping Horn, is only one example of our endeavor to please our customers. Its description follows:

- Tree**—15 inch swell front, Sampson steel horn, 12 inch bulge. **Seat**—Full; seat and jockeys in one solid piece. Leather bound cantle and front. Steel strainer. Fancy stamped. **Skirts**—23 in. sheepskin wool lined. Horn string and latigo tie strings. **Fenders**—7x14 inch attached to Stirrup Leathers. **Stirrup Leathers**—2 inch lined at points to lace, fancy stamped. **Tie Straps**—1½ inch, with 1½ inch buckle straps on off side. Leather covered rings. **Girths**—4 and 5 in. hard twisted Mexican hair. **Stirrups**—1½ inch wood, Ox Bow pattern. Double rigged.
- Weight, 24 lbs. Shipping weight, 34 lbs.
- 95C2666—Price, each **\$49.25**



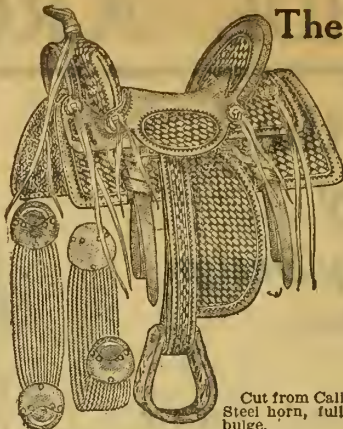
Boys' Ranchman

A
Good Grade
Boys' Saddle
\$31⁵⁵

Tree—13 inch Montana Steel fork. Seat—Smooth solid leather, open in front. Steel strainer. Skirts—20 inches long and 10 inches deep, felt lined. Fenders—7x13 1/2 in. Stirrup Leathers—1 1/2 inch to buckle. Fenders attached. Tie Straps—1 inch. Cinchas—20 strand Texas cotton. Stirrups—3 inch Plain wood, leather covered.

Weight, 14 1/2 pounds.
Shipping weight, 24 1/2 pounds.
95C2758—Price, each.....**\$31.55**

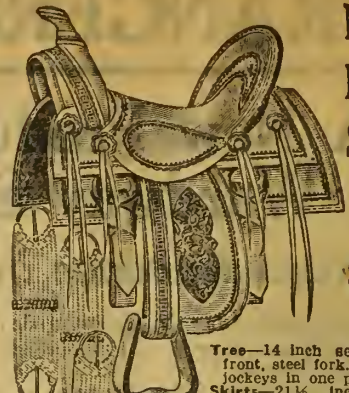
Weight, 14 pounds.
Shipping weight, 24 pounds.
95C2759—Price, with plain wood stirrups, each..... **29.25**



The Famous Winners Saddle

Carries
Our Strong-
est Recom-
mendation

Tree—15 inch seat, about 11 1/2 inches hudge, Sampson steel horn leather covered. Skirts—23 inches long, 12 inches deep, lined with wool sheepskin, cantle leather bound. Seat—Full, jockey and seat all in one piece. Stirrup Leathers—2 inch lined at points, latigo lacing fenders. 8x15 inches attached. Tie Straps—1 1/2 inches x 4 1/2 feet, buckle straps, 1 1/2 inches. Cinchas—15 strand Texas Cotton, leather ends. Stirrups—1 1/2 inch plain Ox Bow, wood. Weight, 23 pounds, Shipping weight, about 30 pounds.
95C2588—Price, each.....**\$47.55**



Improved Hummer Saddle

\$41⁸⁵

Tree—14 inch seat with 10 inch swell front, steel fork. Seat—Full, seat and jockeys in one piece. Steel strainer lined. Skirts—21 1/2 inch and heavy felt lined. Stirrup Leathers—1 1/2 inch to buckle. Fenders—7x14 inch, attached to stirrup leathers. Tie Straps—1 1/2 inch, 1 1/2 inch buckle straps on offside. Girths—15 and 20-strand Texas Cotton. Double rigged. Stirrups—1 1/2 inch wood, Ox Bow pattern.

Weight, 20 pounds. Shipping weight, 26 pounds.
95C2586—Price, each.....**\$41.85**

Same saddle as above with leather covered stirrups.
Weight, 21 pounds. Shipping weight, 26 pounds.
95C2587—Price, each.....**44.3**



La Platte Double Rig Saddle

\$41⁸⁰

The Aristocrat

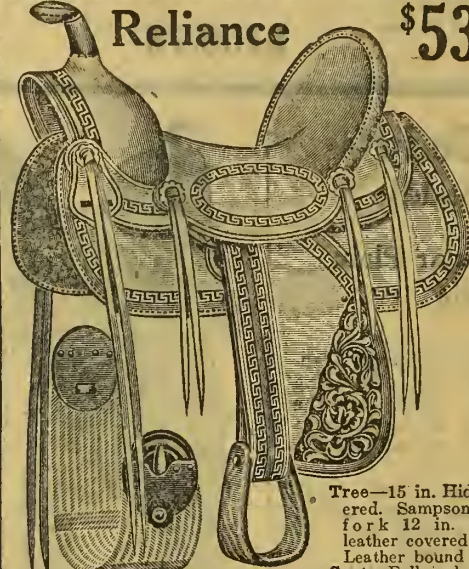
Tree—14 1/2 inch with 11 inch swell front. Steel horn. Front basket stamped. Steel strainer. Seat—Full, seat and jockeys in one piece. Roll beaded cantle. Skirts—22 1/2 x 11 1/2 inch felt lined, basket stamped. Fenders—8x15 inch, basket stamped. Stirrup Leathers—1 1/2 inch to lace, lined at points. Tie Straps—1 1/2 inch, 1 1/2 inch buckle straps on off side. Stirrups—1 1/2 inch wood, Ox Bow pattern. Girths—20-strand Texas Cotton. Double rigged. Weight, about 20 lbs. Shipping weight, 26 lbs.

95C2579—Price, each.....**\$41.80**

Same saddle as above with leather covered stirrups.

Weight, about 20 lbs. Shipping weight, 26 lbs.

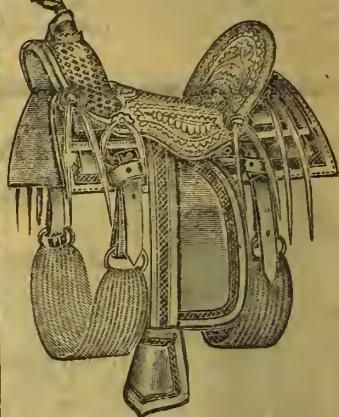
95C2580—Price, each.....**\$44.30**



Reliance

\$53²⁵

Tree—15 in. Hide covered. Sampson Steel fork 12 in. bulge. leather covered horn. Leather bound front. Seat—Full, jockey and steel strainer. Skirts—23 in. wool sheepskin lined. Full rounded corners. Fancy border stamped. Fenders—7x14 in. attached to stirrup leathers. Stirrup Straps—2 1/2 in. doubled at points to lace. Tie Straps—1 1/2 in. on near and off side. Single rig. Girths—20 strand Angora hair girth, with leather ends. Stirrups—2 in. Ox Bow pattern. The saddle has fancy border stamping on stirrup straps, fenders, skirts and seat. Fancy leather rosettes and latigoes, lace strings. Weight, 21 1/2 pounds. Shipping weight, 32 1/2 pounds.
95C2672—Price, each.....**\$53.25**



Western Belle Astride Saddle

\$47⁵⁰

Tree—15 in. La Platte Steel Fork. Jacket Front. Leather covered horn. Seat—Full, seat and jockeys in one piece, covered with calfskin quilted and raised, bound cantle. Steel strainer lined. Skirts—23 inches long. Felt lined. Fenders—8 inches wide, 15 inches long. Stirrup Leathers—2 inch to lace, lined at points. Tie Straps—1 inch, 1 1/2 inch buckle straps on off side. Stirrups—3 inch wood, leather covered. Rigging—Double rig to buckle and tie.

Made of the best oak skirting leather, handsome embossed.

Weight—20 pounds. Shipping weight, 30 pounds

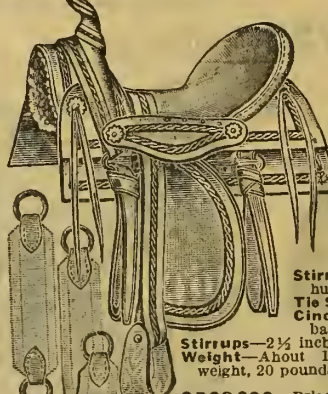
95C2515—Price, each.....**\$47.**



Pride Side Saddle

Tree—18 inch New Western with leaping Horn.
Bars—Wool sheepskin covered.
Skirts—26 1/2 in. full extra wide, long stamped border with floral design in front. Best fair Oak Skirting.
Seat—Skirt and seat in one solid piece. All hand diamond stamped. Heavy Roll around seat.
Housing—Extra large and bordered.
Stirrup Leather—3/4 inch.
Tie Strap—1 1/2 inch.
Girths—5 in. Mexican Hair.

Stirrups—Leather covered, wool lined on side.
Leading Horn—Leather covered and seamed.
Weight—17 pounds. Shipping weight, 27 pounds.
95C2508—Price, each.....**\$43.50**



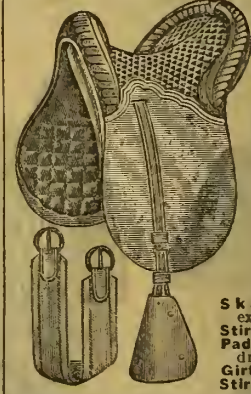
Guthrie Saddle

Tree—14 inch steel fork. Steel strainer.
Bars—Wool sheepskin covered.
Skirts—21 inches long and 10 1/2 inches deep. Ornamented with rosettes and lace strings.
Fenders—7 1/2 x 14 inches attached to stirrup leathers.

Stirrup Leathers—1 1/2 in. to buckle, lined at points.
Tie Straps—1 inch.
Cinchas—3 1/2 inch white cotton back band web.
Stirrups—2 1/2 inch solid bent wood, bolted.
Weight—About 15 pounds. Shipping weight, 20 pounds.

95C2600—Price, each.....**\$30.50**

Same saddle as above with leather covered stirrups.
Weight—about 15 pounds. Shipping weight, 20 pounds.
95C2601—Price, each.....**33.00**



Louisville Saddle

More Than Just A
Ordinary Saddle

Tree—17 in. Double Gullet. Iron Broad Cantle Somerset. Extra deep seat cut from Russ Leather.
Seat—Fine Calfskin with cantle and pommel finely quilted extra long.
Skirts—24 in. from center of seat extra long.
Stirrup Leathers—1 1/2 inch.
Pad—Sheepskin, quilted and headed drill, hair stuffed.
Girth—4 inch corded web to buckle.
Stirrups—3 in. wood, leather covered.

Weight—About 15 pounds. Shipping weight, 20 pounds.
95C2540—Price, each.....**\$35.50**

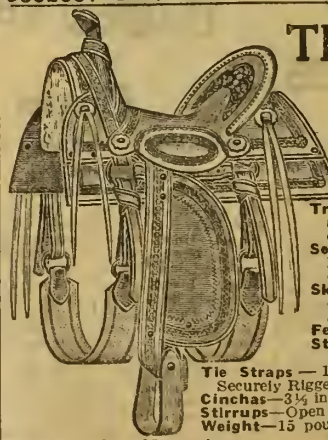
Same saddle as above, with Plain Wood Stirrups.
Weight—About 15 pounds. Shipping weight, 20 pounds.
95C2541—Price, each.....**33.00**



Senorita Astride

A good model for women as well as for men. We have sold this saddle for many years with continued satisfaction.

Tree—16 inch Somerset.
Seat—Shabrack, pigskin impression leather covered.
Skirts—Length, 16 in. hogskin impression with pigskin impression knee puffs.
Pad—Well stuffed with hair, cotton flannel lined.
Stirrup Leathers—1 inch.
Girths—Super cotton to buckle.
Stirrup—Leather covered, wool lined on sides.
Weight—9 pounds. Shipping weight, 15 pounds.
95C2521—Price, each.....**\$25.00**

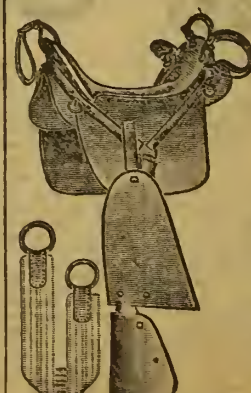


The Prairie Queen Women's Astride Saddle

Tree—14 1/2 inch. Western steel fork. Wool sheepskin covered bars.
Seat—Full, seat and jockeys in one solid piece. Bound cantle.
Skirts—22 in., fancy border stamping. Steel strainer.
Fenders—7x14 ineb.
Stirrup Leathers—1 1/2 inch to buckle.
Tie Straps—1 1/2 inch. Covered Rings. Securely Rigged.
Cinchas—3 1/4 inch. White Back Band Web.
Stirrups—Open wood riveted.
Weight—15 pounds.

Shipping weight, 25 pounds.
95C2500—Price, each.....**\$32.75**

Leather covered stirrups.
Weight—16 pounds. Shipping weight, 26 pounds.
95C2501—Price, each.....**35.25**



McClellan Saddle

Made of
Russet Leather

Tree—14 ineb McClellan.
Skirts—12 ineb.
Seat—Solid leather covered, Brasses and Coat Straps. Imported center.
Bars—Leather covered.
Stirrup Leathers—1 inch.
Fenders—7x12 inches, attached to Stirrup Leathers.
Girths—3 inch corded web to buckle.
Tie Straps—1 inch.
Stirrups—2 1/2 inch wood, leather covered.

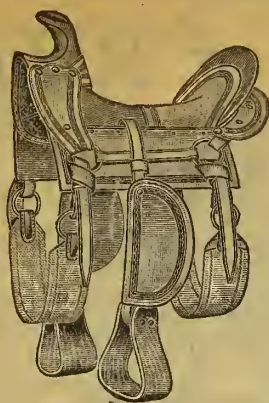
Weight—11 pounds. Shipping weight, 17 pounds.
95C2648—Price, each.....**\$24.75**



Young Man's Saddle

\$21⁷⁵

Tree—13½ inch steel fork Morgan, leather covered horn, rigging securely fastened to tree. Skirts—20 inches long lined with felt. Seat—Full seat, leather bound cantle. Stirrup Leathers—1½ inch to buckle, fenders, 7 inches x 13 inches. Tie Straps—1 inch x 4 feet. Cinchas—3½ inch cotton web. Stirrups—3 inch bent wood. Weight—about 14 lbs. Shipping weight, about 19 lbs.
95C2612—Price, each..... \$21.75

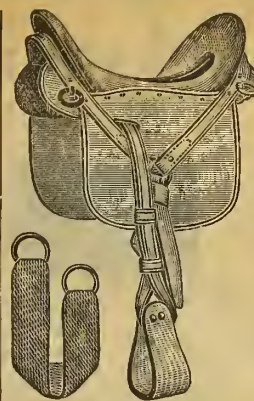


An Excellent Double Rig Saddle

\$17⁴⁰

Something to wish for

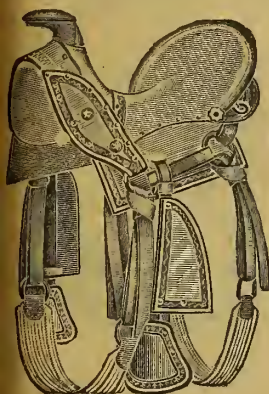
Rawhide covered with the Morgan style horn. Can be furnished with or without leather covered stirrup.
 Tree—13 inch rawhide covered. Morgan horn. Skirts—13½ inches. Fenders—6x12 inch. Seat—Half leather covered. Stirrup Leathers—1 inch with fenders attached. Tie Straps—1 inch, securely rigged with skirts to prevent rings from chafing horse. Cinchas—3½ inch white cotton back band web. Stirrups—3 inch wood. Weight—9½ lbs. Shipping weight 14 lbs.
95C2572—Price, each..... \$17.40
95C2573—Leather covered Stirrups. Weight 10 lbs. Ship. weight 15 lbs. Price, each..... \$19.75



Economy McClellan Saddle

\$16¹⁰

A low priced McClellan Saddle. No leather on seat. Can be furnished with or without leather covered stirrup.
 Tree—14 inch McClellan style rawhide covered. Seat—Bare tree. Skirts—11¼ inches as illustrated. Stirrup Leathers—1 inch. Tie Straps—1 inch. Strong rigged. Cinchas—4 inch woven soft hair. Stirrup—Wood. Weight—8 lbs. Shipping weight, 12 lbs.
95C2565—Price, each..... \$16.10
 Same as above saddle with covered stirrups. Weight—8½ lbs. Shipping weight, 12½ lbs.
95C2566—Price, each..... \$18.00



Special Boys' Pride

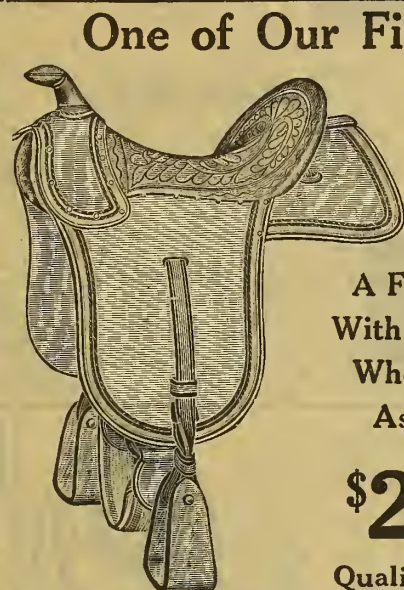
Made for Small Horse or Pony

\$17⁷⁵

For Children Up to 12 Years

Just the saddle for small horse or pony. Double rigged just like father's. It is built strong and correctly, which means safety to the rider. This is one of our big sellers in this style of a saddle. For children up to 12 years of age.

Tree—11 inch Morgan. Horn leather covered. Seat—Full leather covered, reinforced cantle bound and stitched. Skirts—Russet leather. Fenders—6½x12 inches. Stirrup Leathers—¾ inch wide fenders attached. Rigging—Double rigged. Tie Straps—¾ inch. Cinchas—Corded cotton. Stirrups—Boys' 2 inch. wood, leather covered. Weight—7½ lbs. Shipping weight, 12 lbs.
95C2778—Price, each..... \$17.75



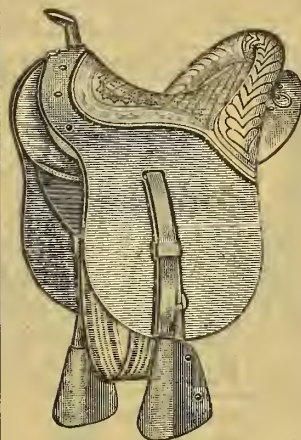
One of Our Finest

A Favorite With Women Who Ride Astride

\$24⁰⁰

Quality First

This is a very stylish Ladies' Astride Saddle which we offer at a low price. Made from good Russet Skirting Leather.
 Tree—14 inch Canby, Steel Fork. Bars—Felt lined. Horn, Leather covered. Seat—soft chrome tanned leather and quilted, padded with gray felt hair. Skirts—11x20 inches from center of seat. Stirrup Leathers—1 in. to buckle. Tie Straps—1¼ in. Cinchas—3 inch web. Stirrups—2½ inch heavy wood. Weight, 14 pounds. Shipping weight, 24 pounds.
95C2524—Price, each..... \$24.00



Nickel Horn Mosby

A Very Popular Saddle

\$41⁹⁵

This is a very popular saddle of this style. It is very easy riding both for the rider and horse. Note the nickel horn. This is the highest grade saddle of this style we make.

Tree—15 inch Nickel Horn Mosby. Skirts—Length, 22½ inches from center of seat. Fair oak skirting leather. Seat—Full covered with calfskin, fancy silk quilted and raised Roll Cantle. Bars—Leather covered solid leather underskirts. Tie Straps—1½ inch. Cinchas—3 inch heavy corded to tie. Stirrup Leathers—1½ inch. Stirrups—2½ inch wood, leather covered. Weight—16 lbs. Shipping weight 21 lbs.
95C2527—Price, each..... \$41.95

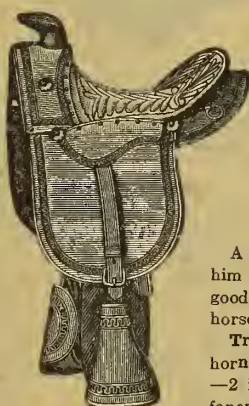


Buster Boys' Saddle

\$11²⁵

A low-priced riding saddle. Russet leather. English pattern. Somerset tree. Can be furnished with or without leather covered stirrups. For children 12 years of age.

Tree—13½ inch English pattern Somerset. Seat—Full covered leather. Skirts—Leather. Pad—Hair stuffed, duck lined. Stirrup Leathers—¾ inch. Girths—Fancy cotton web. Stirrups—2 inch, wood. Weight—5½ pounds. Shipping weight, 10 pounds
95C2765—Price, each..... \$11.25
 Same as 95C2765 with covered stirrups.
 Weight—6½ lbs. Shipping weight, 11 pounds.
95C2766—Price each..... 12.60

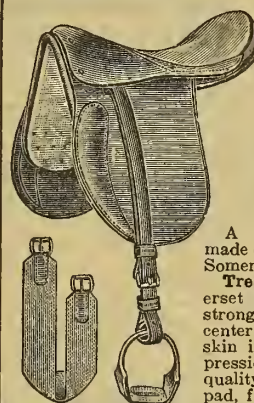


Boys' Chum Saddle

\$14⁶⁵

A saddle that will please your boy and keep him out of doors, and help him to become a good rider. Made just the right size for a small horse or pony.

Tree—11 inch Morgan, leather covered horn. Stirrup Leathers—¾ inch. Stirrups—2 inch, leather covered. Girth—2½ inch fancy web. Seat—soft chrome tanned leather and fancy quilted. Made of russet leather.
 Weight—7 pounds. Shipping weight, about 12 pounds
95C2772—Price, each..... \$14.65



Improved Dexter English Saddle

\$23.50

A popular style saddle made of imitation pigskin and with Somerset tree and knee puffs.

Tree—17 inch Improved Somerset Tree. Steel braced and strong. Skirts—19 inches from center of seat. Russet Leather Pigskin impression and pigskin impression knee puffs. Seat—Best quality. Pigskin impression, lined pad, full hair stuffed and leather faced. Stirrup Straps—Heavy 1 inch. Girth—3½ inch white cotton. Stirrups—Metal. Weight—10½ lbs. Shipping weight, 15 lbs.
95C2547—Price, each..... \$23.50

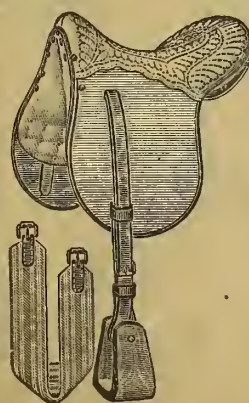


Plain English

\$14⁷⁰

A good strong saddle for ordinary use. It has a high cantle, deep seat and can be used by either boy or man. You will find this saddle a very satisfactory one for this style. Weight 7½ lbs. Shipping weight 12 lbs.

Tree—15 inches. English style. Seat—Plain with side jockeys sewed in, hogskin impression. Stirrup Straps—1 inch. Girth Straps—1 inch. Cinchas—Cotton web. Stirrups—2½ inch wood.
95C2562—Price, each..... \$14.70



Popular Kentucky Saddle

\$22⁹⁵

Tree—16 inches genuine stitched down, iron Gullet. Seat—Fine Russet sheepskin with finely quilted seat, pommel and cantle. Skirts—11 inch Russet leather, very deep round corners. Pad—is made very heavy, bound with leather, heavy drill bottom. Girth—Heavy corded cotton girth. Stirrup Leathers—1 inch. Stirrups—3 inch wood, bolted. Weight—11 pounds. Shipping weight, 17 pounds.
95C2533—Price, each..... \$22.95
 Weight—12 lbs. Ship. wt., 18 lbs.
95C2534—Price, each... \$25.25



Handy Saddle

\$13¹⁰

If you don't ride a great deal and only use a saddle occasionally, here is a good buy for you. It is a well-made, neat appearing saddle, for men weighing up to 150 lbs.

Tree—15 inch Somerset. Seat—Full, leather covered. Skirts—9½ inch, with Pigskin impression. Pad—Full duck lined, hair stuffed. Stirrup Leathers—¾ inch. Girth—2½ inch cotton web. Stirrups—Open, wood. Weight—7 lbs. Shipping weight, 12 pounds.
95C2553—Price, each... \$13.10

The Stockman's Page of Riding Equipment

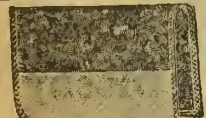
Sizes and Styles to Please the Most Particular Ranger



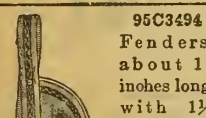
A regular cowboy style, color gray, made from a fine quality of gray felt mixture. Constructed so as to stand the hard and constant wear of daily use. It is bound with 1 1/2 inch web binding. Length, across lower edge is about 31 inches. Actual weight, about 2 pounds. Ship. wt., about 2 1/2 lbs.
95C3241—Price, each \$3.75



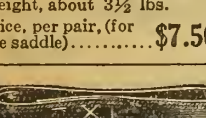
Woven Saddle Blanket. Made of dark gray hair mixture fabric. Cooler horse's back than any other style of blanket. An excellent blanket for hard and constant riders. Will shape itself to the horse's back, and will never gall the animal, when kept dusted and clean. Size, 27 in. long. Weight, about 2 lbs. 10 oz.
95C3220—Each \$2.35



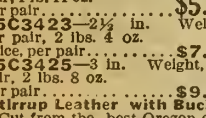
Quilted Saddle Blanket. Made of heavy old gold colored drill, stuffed and quilted with heavy thread. These blankets are made in same style as sweat pads, are large size and are very easy and comfortable on a horse's back under a saddle. Size, about 24 inches long. Weight, each about 3 lbs.
95C3200—Price, each \$1.55



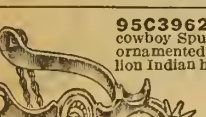
Men's Gray Felt mixture, star in corner, medium grade, bound edge. Size, 24 in. long. Weight, about 15 oz.
95C3206—Each \$1.35



Men's Gray Felt mixture, same as 95C3206 but better quality, with wide plain binding. Star in corner. Size, 24 inches long. Weight, about 1 lb.
95C3207—Each \$2.05



California Style Heavy Russet Stirrup Straps. Stirrup straps, length, 5 ft. 6 in. with lace strings without fenders. Russet leather only.
95C3421—2 in. Weight, per pair, 1 lb. 11 oz. \$5.95
95C3423—2 1/2 in. Weight, per pair, 2 lbs. 4 oz. \$7.95
95C3425—3 in. Weight, per pair, 2 lbs. 8 oz. \$9.95
Stirrup Leather with Buckle
 Cut from the best Oregon oiled skirting leather; length, 4 ft. 6 in., with buckle, russet leather, per pair, 1 lb. 2 oz.
95C3419—1 in. Weight, per pair, 13 oz. \$2.15
95C3420—1 1/2 in. Weight, per pair, 1 lb. 2 oz. \$2.85



Indian Chief cowboy spur, ornamented with silver inlaid Indian heads. Equipped with non-chafing chain. Ten point steel rowels. This spur matches bit 95C3760. Wt., pair, 18 oz.
Pair, \$6.00



Heavy malleable steel heel bands, 2-inch shanks, 2-inch malleable steel rowels, only made with one button, blued finish. Weight, per pair, 13 oz.
Pair, \$2.05



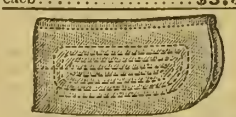
Malleable iron, polished finish lariet spivels.
95C3370—5/8 inch eye. Length, 3 inches. Weight, each, 3 ounces. \$1.50
95C3371—3/4 inch eye. Length, 3 inches. Weight, each, 3 oz. \$1.50
 Either Size.
Each, \$0.85
Dozen, \$8.50



Tackberry's patent Clucha Buckles, XC white metal, plated, for use on heavy stock saddles. Lariat loop, 2 inches; with catch, 1 1/2 inches. Made only in one size. Weight, each 4 oz.
95C3393—Each \$4.20



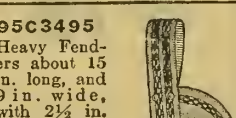
Graduated Gray Blankets, plain gray felt mixture, plain edge. California style. Length, 30 in. Weight, each, about 32 oz.
Price, each \$3.90



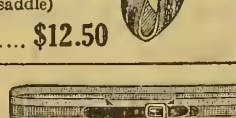
A good grade of plain dark blue felt mixture, graduated saddle blanket similar to 95C3240. Length, 24 in. Weight, about 16 oz.
Price, each \$3.80



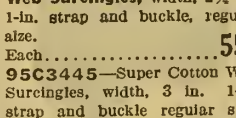
California Style Cinchas; 20 strands; 4 cords; 2 bars; white hard hair; wool lined leather chafes and buckle tongue on each end. Weight, 1 pound 6 ounces.
95C3294—Price, each \$2.40



Fish Cord Girth
95C3297—Hard laid white fish cord, California strand 2 bars, 58 strand leather ends, buckle tongue on each end. Wt., each, about 15 ounces. \$1.95
95C3298—Same as 95C3297 only without leather ends. Price, each \$1.00



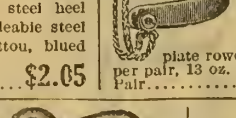
A Reversible Blanket
 Saddle blanket, 36x60 in. dark blue body with green, white and red stripes. Cotton and wool mixture. Weight, about 2 lbs. When folded, blanket is 36 in. deep and 30 in. long.
95C3215—Price, each \$3.00



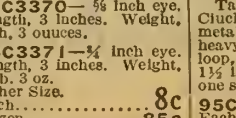
Saddle blanket, 36x66 in., reversible, dark gray body with blue and white stripes on one side and dark blue body with white and red stripes on the other side. Cotton and wool mixture. Weight, 3 pounds.
95C3216—Price, each \$4.00



Double Angora Strand Cinchas
95C3295—With connecting strap; one 15-strand and one 18-strand; color, white; wool lined chafes; buckle tongues. Weight, 1 pound 8 ounces. \$4.50
95C3296—Same as 95C3295, only both cinchas are 20-strand and of the very best grade white hard hair. Weight, 3 pounds 4 oz. Price, per pair \$6.25



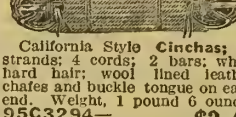
Soft Hair Cinchas, plain grade 4 inches wide.
95C3273—Weight, 12 oz. Price, each \$6.00



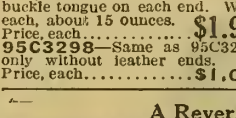
Soft Hair Cinchas, plain grade, 6 inches wide.
95C3274—Weight, 13 oz. Price, each \$7.50



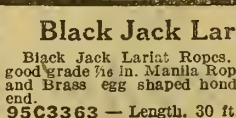
Mexican String Hair Cinchas, 6 inches wide. Weight, 14 oz.
Price, each \$1.05



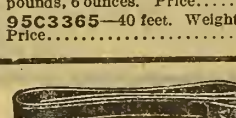
20 strand, 6 cord, 2 bar fancy white and black Hard Hair Cinchas. Weight, 16 oz.
Price, each \$1.55



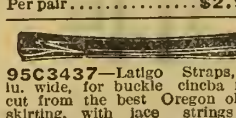
Cotton Web Saddle Girth. Width, 3 inches; length, 2 1/2 feet; with 1 1/2 inch buckle on each end. Weight, 5 ounces.
95C3260—Price, each \$45c



Black Jack Lariat Ropes. Made of good grade 7/8 in. Manila Rope. Tassels and Brass egg shaped hondas on each end.
95C3363—Length, 30 ft. Shipping weight, 2 1/2 lbs. \$2.25
95C3366—Length, 35 feet. Shipping weight, 3 lbs. Each \$2.55
95C3367—Length, 40 feet. Shipping weight, 3 1/2 lbs. Each \$2.85



Riding Cuffs. Made of solid russet leather, all over stamped, tongue laced on the upper ends, one patent snap button on each lower end. Length, 7 inches. Weight, per pair, 8 ounces.
95C3358—Price per pair \$2.65



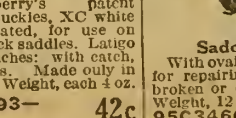
Riding Cuffs. Made of solid russet leather, all over stamped, closed with three patent snap buttons. Length, 7 inches. Wt., per pair, 7 oz.
95C3352—Price, per pair \$2.40



Riding Cuffs. Made of solid russet leather, all over stamped, closed with three patent snap buttons. Length, 7 inches. Wt., per pair, 7 oz.
95C3352—Price, per pair \$2.40



Riding Cuffs. Made of solid russet leather, all over stamped, closed with three patent snap buttons. Length, 7 inches. Wt., per pair, 7 oz.
95C3352—Price, per pair \$2.40



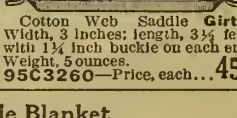
Riding Cuffs. Made of solid russet leather, all over stamped, closed with three patent snap buttons. Length, 7 inches. Wt., per pair, 7 oz.
95C3352—Price, per pair \$2.40



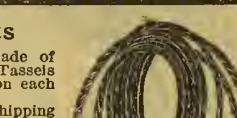
The very best grade of California Strand Cinchas; 32 Strand; 6 cord; 2 bar; white, hard hair. Weight 1 pound 8 ounces.
Price, each \$3.65



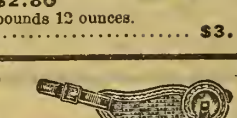
Angora Strand Cinchas; 20 strands; 2 bar; color, soft white hair; plain rings on each end. Weight, 12 oz.
Price, each \$95c



Soft Hair Cinchas, plain grade 4 inches wide.
95C3273—Weight, 12 oz. Price, each \$6.00



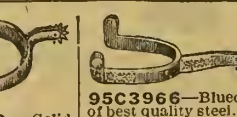
Soft Hair Cinchas, plain grade, 6 inches wide. Weight, 14 oz.
Price, each \$1.05



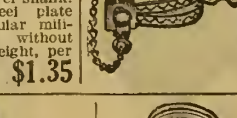
20 strand, 6 cord, 2 bar fancy white and black Hard Hair Cinchas. Weight, 16 oz.
Price, each \$1.55



Cotton Web Saddle Girth. Width, 3 inches; length, 2 1/2 feet; with 1 1/2 inch buckle on each end. Weight, 5 ounces.
95C3260—Price, each \$45c



Black Jack Lariat Ropes. Made of good grade 7/8 in. Manila Rope. Tassels and Brass egg shaped hondas on each end.
95C3363—Length, 30 ft. Shipping weight, 2 1/2 lbs. \$2.25
95C3366—Length, 35 feet. Shipping weight, 3 lbs. Each \$2.55
95C3367—Length, 40 feet. Shipping weight, 3 1/2 lbs. Each \$2.85



Riding Cuffs. Made of solid russet leather, all over stamped, tongue laced on the upper ends, one patent snap button on each lower end. Length, 7 inches. Weight, per pair, 8 ounces.
95C3358—Price per pair \$2.65



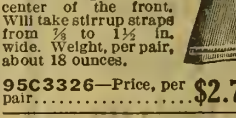
Riding Cuffs. Made of solid russet leather, all over stamped, closed with three patent snap buttons. Length, 7 inches. Wt., per pair, 7 oz.
95C3352—Price, per pair \$2.40



Heavy Malleable Iron Patent Stirrups, Ft. Worth pattern. No joints or holets; bars and bows made in one piece; bars will take stirrup straps wide as 2 1/2 in.; breadth of tread, 2 1/4 in. Wt., per pair, 2 lbs. 5 oz.
95C3315—\$1.00
Price, per pair



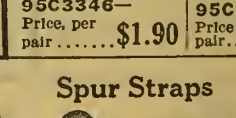
Malleable Iron, same as 95C3315 but Russet leather covered. Stitched all around and extra leather pieces laced on bottom and leather covered bar. Weight, about 2 lbs.
Price, per pair \$3.40



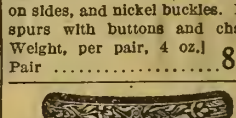
Covered Stirrups, 3-inch wood stirrups, russet leather cover, embossed border, 8 inches long in the center of the front. Will take stirrup straps from 3/4 to 1 1/2 in. wide. Weight, per pair, about 18 ounces.
95C3326—Price, per pair \$2.75



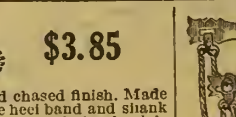
Oxbow stirrups, 1 1/2 inch wood stirrups, oxbow shape, 2 1/2 inch bar bolted through. Weight, per pair, 1 pound.
95C3310—Price, per pair 45c



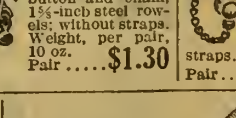
Texas Bolted Wood Stirrups, 4-inch bottoms, Bars, length, 2 inches, and suitable for stirrups leathers from 1 1/2 to 2 inches wide. Weight, per pair, 2 pounds.
95C3305—Price, per pair 40c



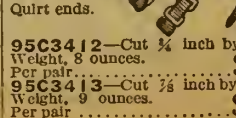
Brass Bound Oxbow Stirrups, 2 inches wide, 2 1/2 inch bars bolted through, leathered on bars and bottoms. Weight, per pair, 1 pound 4 ounces.
95C3321—Price, per pair \$3.00



Oxbow stirrups, 1 1/2 inch wood stirrups, oxbow shape, 2 1/2 inch bar bolted through. Weight, per pair, 1 pound.
95C3310—Price, per pair 45c



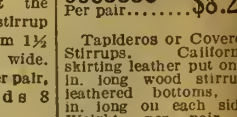
Texas Bolted Wood Stirrups, 4-inch bottoms, Bars, length, 2 inches, and suitable for stirrups leathers from 1 1/2 to 2 inches wide. Weight, per pair, 2 pounds.
95C3305—Price, per pair 40c



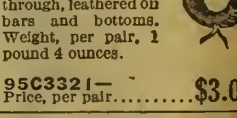
Brass Bound Oxbow Stirrups, 2 inches wide, 2 1/2 inch bars bolted through, leathered on bars and bottoms. Weight, per pair, 1 pound 4 ounces.
95C3321—Price, per pair \$3.00



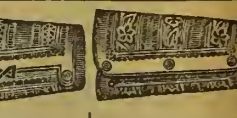
California skirting put on 4-inch Texas wood stirrups, for stirrup straps from 2 to 2 1/2 in.; length, 13 in. on each side. Nickel conchas. Weight, per pair, 2 lbs. 8 oz.
95C3336—\$8.25
Per pair



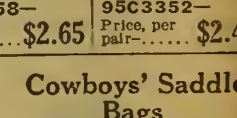
California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



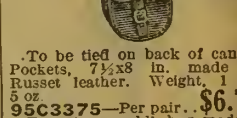
California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



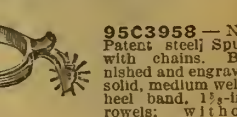
California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



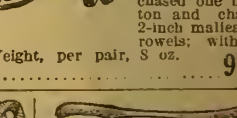
California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



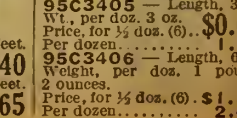
California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



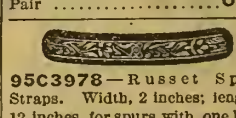
California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



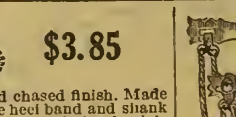
California skirting leather put on 3 in. long wood stirrup, leathered bottoms, 1 1/2 in. long on each side. Weight, per pair, 3 lbs. 4 oz.
95C3341—\$9.75
Per pair



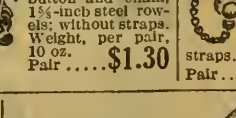
Spur Straps, Texas pattern, made of oiled California leather, with nickel ornaments on sides, and nickel buckles. For spurs with buttons and chain. Weight, per pair, 4 oz.
Price, per pair \$80c



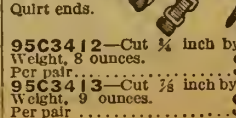
Russet Spur Straps. Width, 2 inches; length, 12 inches, for spurs with one button. Weight, 2 1/2 oz.
Pair \$52c



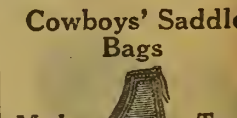
Modern style, good weight band, im- finished, one button and chain; 1 1/2-inch steel rowels; without straps. Weight, per pair, 10 oz.
Pair \$1.30



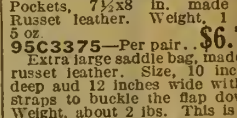
Polished and engraved, solid, medium weight heel band, 1 1/2-inch rowels; without straps. Weight, per pair, 14 oz.
Pair \$2.50



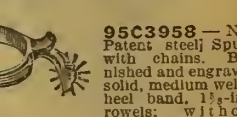
New Patent steel Spurs, with chains. Burnished and engraved, solid, medium weight heel band, 1 1/2-inch rowels; without straps. Weight, per pair, 14 oz.
Pair \$2.50



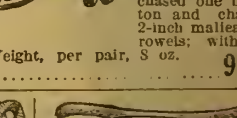
Made in Two Sizes. To be tied on back of cantele Pockets, 7 1/2 x 8 in. made of Russet leather. Weight, 1 lb. 5 oz.
95C3375—Per pair \$6.75



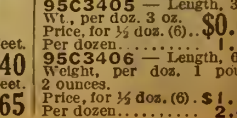
Extra large saddle bag, made of russet leather. Size, 10 inches deep and 12 inches wide with 3 straps to buckle the flap down. Weight, about 2 lbs. This is an extra large and good bag.
95C3379—Price, per pair \$12.50



Saddle Strings, 1/2 in. wide, cut from good grade chrome tanned Lariat Leather.
95C3405—Length, 3 ft. Wt., per doz. 3 oz. \$0.65
Price, for 1/2 doz. (6) \$0.65
Per dozen \$1.20



Saddle Strings, 1/2 in. wide, cut from good grade chrome tanned Lariat Leather.
95C3406—Length, 6 ft. Weight, per doz. 1 pound 2 ounces. Price, for 1/2 doz. (6) \$1.30
Per dozen \$2.40



Saddle Strings, 1/2 in. wide, cut from good grade chrome tanned Lariat Leather.
95C3406—Length, 6 ft. Weight, per doz. 1 pound 2 ounces. Price, for 1/2 doz. (6) \$1.30
Per dozen \$2.40

11.50

Repeater

Has hair pocket and made of black cowhide back and rim, russet cowhide face, sole leather top pad, wide thong stitching on edge, wide welt, good hame room, reinforced throat, tufted top, riveted cap finish, billet sewed on. Buckle and billet top. About 17-in. draft, made for a thick neck horse. Wt., about 8 1/2 lbs.

- 95C9265—18 to 20 in. Each.....\$11.50
- 95C9266—21 to 22 in. Each.....11.75
- 95C9267—23 inches Each.....12.90
- 95C9268—24 inches. Each.....14.25

11.10

Chicago

Has a hair pocket and made of black kangaroo calf-grain leather face. 3/4-inch rawhide ribbon thonged, solid russet leather back and rim, faced with layer of hair. Buckle and billet sewed on, rivet cap finish. Draft, about 17 in. Wt., about 8 lbs.

- 95C9315—Sizes, 18 to 20 in. Each.....\$11.10
- 95C9316—Sizes, 21 and 22 in. Each.....\$11.25
- 95C9317—Size, 23 inches. Each.....\$12.40
- 95C9318—Size, 24 inches. Each.....\$13.65

\$9.25

Regal

Has a hair pocket and made of all russet cowhide; half sweeney, throatless. Russet face, back and rim. Heavy leather thong-sewed wear leather on back, heavy rim. The throat is made with layers of cowhide stitched together and thong-sewed to rim, making it flexible; riveted cap finish. Draft, about 16 1/2 in. Wt., about 7 lbs.

- 95C9320—Size, 18 to 20 in. Each.....\$9.25
- 95C9321—Size, 21 and 22 in. Each.....\$9.40
- 95C9322—Size, 23 inches. Each.....\$10.35

\$11.85

Concord

Has a hair pocket and made of heavy cowhide. Heavy Concord casing, solid back and rim, black. Rim heavy, ample hame space. Russet face with layer of hair. Thongs, 3/4-inch wide. Concord (blind) stitching. Sole leather pad sewed on. Buckle and billet top, rivet cap finish. Draft, about 17 inches. Weight, about 8 1/2 lbs.

- 95C9305—Sizes, 18 to 20 in. Each.....\$11.85
- 95C9306—Sizes, 21 and 22 in. Each.....\$12.00
- 95C9307—Size, 23 inches. Each.....\$13.25
- 95C9308—Size, 24 inches. Each.....\$14.75

\$9.65

Wells

Has a hair pocket and made of extra heavy cowhide, black back and rim. Russet face. Sole leather pad, and buckle and billet top. Back, one piece. Full thong-sewed. Wide welt. Reinforced throat, rivet cap finish. Draft, about 16 inches. Weight, about 7 1/2 lbs.

- 95C9214—Sizes, 17 to 20 in. Each.....\$9.65
- 95C9215—Sizes, 21 and 22 in. Each.....\$9.75
- 95C9216—Size, 23 inches. Each.....\$10.75
- 95C9217—Size, 24 inches. Each.....\$11.85

\$8.70

Rogers

Has a hair pocket and made of all russet cowhide, one piece back, throatless collar. Heavy kip back and rim. Face extended to edge with extra row of stitching. The throat is made with layers of cowhide stitched together and thong-sewed to rim, making it flexible, rivet cap finish. Sole leather pad, and buckle and billet top. Draft, about 15 inches. Weight, about 7 pounds.

- 95C9295—Sizes, 17 to 20 inches. Each.....\$8.70
- 95C9296—Sizes, 21 and 22 inches. Each.....\$8.95
- 95C9297—Size, 23 inches. Each.....\$9.85

\$9.90

Boston

Has a hair pocket and made of black cowhide back and rim, face is double. The outer face of kangaroo grain leather is soft, thong-stitched on billet and sole leather pad, rivet cap finish. Draft, about 16 inches. Weight, about 7 1/2 lbs.

- 95C9270—18 to 20 inches. Each.....\$9.90
- 95C9271—21 and 22 inches. Each.....\$10.10
- 95C9272—23 inches. Each.....\$11.25
- 95C9273—24 inches. Each.....\$12.50



Wonder

A Splendid Value

Heavy black split leather back and rim, with heavy chrome leather face, thong-sewed throughout. Sole leather pad. A big 15-inch draft. Buckle and billet top, heavy rim, and extra wear leather on back. Has no hair pocket. Average wt., about 7 lbs.

- 95C9276—17 to 20 inches. Each.....\$5.35
- 95C9277—21 and 22 inches. Each.....5.50
- 95C9278—23 inches. Each.....6.10

Price is for Collar only

About Our Collars

Out of fairness to your horse, give it a collar that it alone shall wear. If a horse must wear a collar made to fit another, it is often deprived of the ease and comfort necessary to lighten its tasks. An ill fitting collar causes many sore spots from rubbing and pressure; it does not allow the animal to put its full strength into the work. We all know how it feels to walk around in a pair of shoes that do not fit. Your horse does much for you—help it as much as you can and above all, keep it comfortable. Be fair to each horse, and when ordering your collars, make sure to get the right measurements. The size of a collar is found by measuring the length in inches from top (A) to bottom (B), measurements taken on the inside, as shown in the illustration. The draft of a collar is found by measuring the circumference in inches at the heavy part of the collar (C) and (D) as illustrated. Be careful to take exact figures, for our collars are made accurately, and we give you just what you ask for.

Some of our collars have an added feature, the hair pocket allows the collar to fit snugly.

All collars having a hair pocket are so specified. Our full kip collars are made of the best grade collar-leather obtainable. Stuffed with seasoned long rye straw.

When ordering collars add 2 to 2 1/2 pounds for packing.

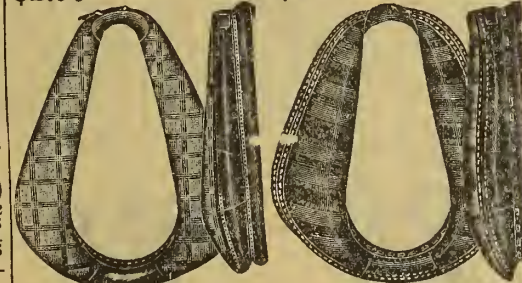
Good Grade Buggy Collars

Made of best kip leather. Leather top pad, one buckle on top. Wear Leathers at Draft. Has no hair pocket, but is strictly first-class in every respect. Sizes, 16 to 22 inches. Average weight, about 5 lbs.

- 95C2346—Buggy weight. Each.....\$4.50
- 95C2340—Same style as 95C2346—only made of all black split leather. Each.....\$3.50

\$2.90

\$4.50



Baker

Our Plow Collars

Plow collars must be comfortable to ensure your getting the maximum amount of work. This model, as well as all our collars, are designed to fit comfortably and avoid the evils which arise from annoying irritations.

Medium weight, made with black, split leather back and rim. Baker cloth face, easy-opener buckle top. Has no hair pocket. Draft, about 14 1/2 inches. Weight, about 5 1/2 pounds.

- 95C9275—Sizes, 17 to 20 inches. Each.....\$2.90
- 95C9274—Sizes, 21 and 22 inches. Each.....\$2.95

General

Heavy Black Split Leather Back and Rim—Thong-sewed throughout. Double ticking face making strong and soft face. Rye straw stuffed. Extra heavy wear leathers. Buckle and billet top. Reinforced throat with extra throat piece. Riveted cap finish. Draft, about 16 1/2 inches. Average weight, 7 pounds.

- 95C9281—Sizes, 17 to 20 inches. Each.....\$4.50
- 95C9282—Sizes, 21 and 22 inches. Each.....\$4.75
- 95C9283—Size, 23 inches. Each.....\$5.25

Excelsior

\$8.65

Has a hair pocket and made with gray chrome tanned leather face. All russet leather kip, rim and back. Has 3/4-inch ribbon thong seams on outside, reinforced, with lock stitch machine seams. Thong-sewed in the middle. Extra wear leather on back, sole leather pads. Draft, about 15 1/2 in. Buckle and billet top. Rivet cap finish. Weight, 6 1/2 pounds.

- 95C9255—Sizes, 17 to 20 inches. Each.....\$8.65
- 95C9256—Sizes, 21 and 22 inches. Each.....\$8.75
- 95C9257—Size, 23 inches. Each.....\$9.75



Standish

\$8.50

Has a hair pocket and made of full kip cowhide, half sweeney, russet face, black back and rim, reinforced with extra throat piece. Extra wear leather on back, extended welt sole leather pads, and thong-sewed throughout, buckle and billet top. To fit horses with heavy necks. Draft, about 15 1/2 inches. Rivet cap finish. Weight, about 7 pounds.

- 95C9200—Sizes, 17 to 20 inches. Each.....\$8.50
- 95C9201—Sizes, 21 and 22 inches. Each.....\$8.75
- 95C9202—Size, 23 inches. Each.....\$9.60

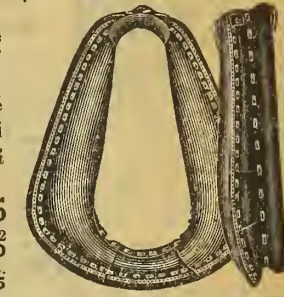


Colonel

\$8.45

Has a hair pocket and made of full kip cowhide. Thong-sewed throughout. Russet face, black back and rim. Extra wear leather on back, reinforced with extra throat piece, extended face to edge with extra row of stitching. Sole leather pad, and buckle and billet top. Draft about 15 1/2 in. Rivet cap finish. Weight, about 6 1/2 pounds.

- 95C9288—Sizes, 17 to 20 inches. Each.....\$8.45
- 95C9289—Sizes, 21 and 22 inches. Each.....\$8.70
- 95C9290—Size, 23 inches. Each.....\$9.55

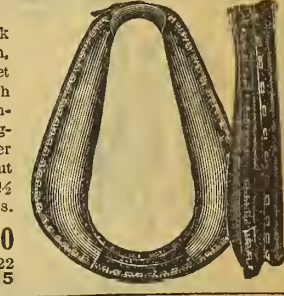


Loyal

\$5.40

Utility Team Collar. Black heavy split leather back and rim, with extra wear leathers. Russet kip face, extended to edge with extra low stitching. Strong reinforced throat. Leather thong-sewed throughout. Sole leather top pad, rivet cap finish. Without hair pocket. Draft, about 14 1/2 inches. Average weight, 5 1/2 lbs.

- 95C9335—Sizes, 17 to 20 inches. Each.....\$5.40
- 95C9336—Sizes, 21 and 22 inches. Each.....\$5.55



Popular

\$4.60

Made half sweeney style, and made of heavy black split leather back and rim. Thong-sewed throughout. Double ticking face making a strong and soft face. Rye straw stuffed. Extra heavy wear leather. Buckle and billet top. Reinforced throat. Draft, about 16 1/2 inches. Rivet cap finish. Weight, about 6 1/2 pounds.

- 95C9262—Sizes, 17 to 20 inches. Each.....\$4.60
- 95C9263—Sizes, 21 and 22 inches. Each.....\$4.85
- 95C9264—Size, 23 inches. Each.....\$5.35

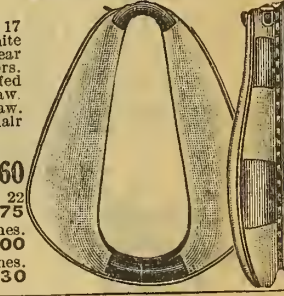


Sterling

\$2.60

Wide Draft Collar, about 17 inches, made of extra heavy white duck, with split leather rim, wear leathers, and line ring protectors. Pressed sole leather pad. Stuffed with clean, fine-cut rye straw. Rim stuffed with long straw. Buckle and billet top. No hair pocket. Wt., about 8 lbs.

- 95C9248—Sizes, 17 to 20 inches. Each.....\$2.60
- 95C9249—Sizes, 21 and 22 inches. Each.....\$2.75
- 95C9250—Size, 23 inches. Each.....\$3.00
- 95C9251—Size, 24 inches. Each.....\$3.30

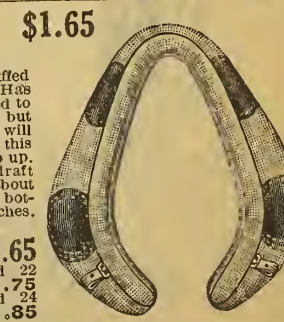


Lakeside

\$1.65

Heavy white duck and stuffed with clean cotton fibre. Has open bottom and not intended to come together when new, but when used and set to neck will come together. The filling in this collar will not pack or lump up. Made with wear leathers at draft and line ring chafe. Draft, about 15 inches. Solid top, open bottom only. Sizes, 17 to 24 inches. Weight, about 7 lbs.

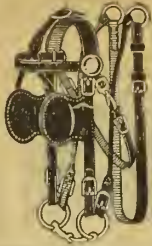
- 95C9369—Sizes, 17 to 20 inches. Each.....\$1.65
- 95C9370—Sizes, 21 and 22 inches. Each.....\$1.75
- 95C9371—Sizes, 23 and 24 inches. Each.....\$1.85



Bridles for Every Horse and Every Purpose



Wellworth Team Bridle
An extra Good, plain Bridle with Pigeon Wing Blinds. 3/4-inch long cheeks, cupped pigeon wing blinds spotted round winker brace, spotted front, 1-inch flat side check, joint ring bit, large rosettes. Shipping weight, about 4 1/2 pounds.
95C5136—Japan (black), trimmed. Each. \$4.50



3/4-inch and 1/2-inch heavy long cheeks, sensible blinds, round winker brace and round reins, ring bit, plain brow band. Shipping weight, about 4 1/2 pounds.
95C5117—1/2-inch. \$4.95
95C5118—3/4-inch. 5.30
Same bridle with flat reins as on 95C5100.
95C5111—1/2-inch. \$3.98
95C5112—3/4-inch. 4.25

Our Feature Bridle Folded Ring Crown Makes it Easy \$7.50 to Adjust

This is the best bridle that we make. Folded Ring Crown Bridle, 3/4-inch short cheek with bit straps and spotted nose band; sensible blinds; folded crown with layer and 1 1/4 billets; combination, double and stitched front and winker brace, round side rein. Shipping weight, each 5 lbs.
95C5167—XC Trimmed (white metal) With long side reins. Each. \$7.50
95C5169—Japan Trimmed (black). With long side reins. Each. 7.50
95C5164—Same as 95C5167 only with flat rein to check over hames. Each. 6.75
95C5165—Same as 95C5169 only with flat reins to check over hames. Each. 6.75



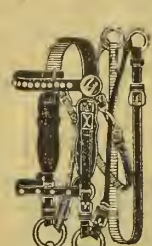
3/4-inch short cheek, bit strap, noseband; sensible blinds, round winker brace; joint ring bits; long, round side rein; spotted front, rosettes. Ship. wt., 4 1/2 lbs.
95C5149—1/2 in. XC (white metal). Each. \$5.75
95C5150—3/4 in. Japan (black). Each. \$5.75
95C5151—1/2 in. XC (white metal). Each. \$6.00
95C5152—3/4 in. Japan (black). Each. \$6.00
For flat side rein, in place of regular, deduct, per bridle. 65c



Morton Team Bridle
Not our best grade, but a good Bridle for the money and one we sell a great many of. 3/4 and 1 1/4-inch long cheeks; sensible blinds; flat winker brace and flat side check. Ship. wt. about 4 1/2 pounds.
95C5100—1/2 in. e h. Japan (black) trimmed. \$3.10
Each.
95C5101—1 1/4 inch Japan (black) trimmed. Each \$3.95



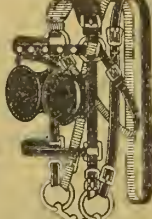
Open Team Bridles
A good, plain, Open Team Bridle, 3/4-in. long cheeks with fancy scalloped inserted safe, with fancy ring face piece, round side check spotted fronts, large rosettes. Ship. wt., 3 1/2 lbs.
95C5137—3/4-inch. XC Trimmed (white metal). Each. \$4.50
95C5138—3/4-inch. Japan Trimmed (black). Each. \$4.50
For short flat reins in place of round, deduct, per bridle. 65c



A high-grade open Bridle 3/4 and 1/2-inch short cheek, bit straps fancy scalloped, inserted safe in cheek, nose hand, round side check, spotted fronts, ring bits. Ship. wt., 4 lbs.
95C5141—1/2 in. XC (white metal). Each. \$5.50
95C5142—3/4 in. e h. Japan (black). Each. 5.50
95C5143—1/2 in. e h. XC (white metal). Each. 5.75
95C5144—3/4 in. e h. Japan (black). Each. 5.75
For short flat reins, deduct, per bridle. 65c



Popular Folded Ring Crown Bridles
Long round rein and gag swivels, 3/4-inch short cheek with bit straps and nose hand; sensible blinds, combination double and stitched front and winker brace. Folded crown with layer. Ship. wt., about 5 lbs.
95C5175—XC (white metal). Price, each. \$5.95
95C5177—Japan (black); Price, each. \$5.95



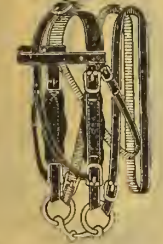
Folded Ring Crown Bridles flat rein; 3/4-inch short cheek with bit straps and nose hand; sensible blinds; combination, double and stitched front and winker brace; folded crown with layer. Ship. wt., about 5 pounds.
95C5174—XC (white metal). Each. \$5.15
95C5176—Japan (black). Each. \$5.15



Percheron Team Bridles
A good Team bridle. 3/4-inch short cheek with bit strap and nose band; sensible blinds; combination winker brace and front; flat side check; joint ring bits. Shipping weight, each, about 4 1/2 pounds.
95C5179—XC Trimmed (white metal). Each. \$4.45
95C5180—Japan Trimmed (black). Each. \$4.45
For Round Reins in place of flat. Add, per bridle. 65c



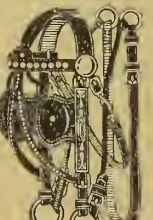
Iowa Team Bridle
1 1/4-inch Cheeks. Extra wide crown, double and stitched with reinforced harness leather layer. Sensible blinds. Combination winker and front. 1-inch flat reins. Jap. buckles. Brass spots on front and winker brace. Jap. bits. Shipping weight, each, about 4 pounds.
95C5178—Each. \$4.75
For round reins in place of flat, add, per bridle. 65c



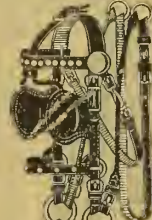
Oakvale Team Bridle
A good, low price, Open Team Bridle. 3/4-inch long cheeks, fancy scalloped inserted safe with face piece, flat side check, plain front, joint ring bit. Shipping weight, about 2 1/2 pounds.
95C5106—Japan trimmed (black). Each. \$2.55



A good grade of Buggy Bridle. 3/4-inch box loop cheeks, patent leather blinds, round winker brace, 3 buckle overcheck with nose band, half cheek joint bit. Shipping weight, about 3 1/2 lbs.
95C5236—Nickel. \$5.50
95C5237—Imitation Rubber trimmed. Each. \$5.50



Two Favorite Bridles
Extra good long box loop cheek bridle, sensible blinds, round winker brace and round reins, spotted front and face piece, ring bits. Shipping weight, 5 lbs.
95C5170—3/4 in. XC (white metal) Each. \$7.10
95C5171—3/4 in. Japan (black). Each. \$7.10
95C5172—1/2 in. XC (white metal). Each. \$7.40
95C5173—3/4 in. Japan (black). Each. \$7.40
For flat reins in place of round, deduct, per bridle. 65c



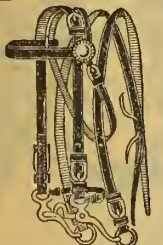
Our best grade 3/4-in. short cheek and nose band with bit strap, sensible blinds, round winker brace and round reins, spotted fronts and nose band, ring bits. Ship. wt., 5 lbs.
95C5128—3/4 in. XC (white metal) Each. \$6.75
95C5129—3/4 in. Japan (black). Each. \$6.75
95C5130—3/4 in. XC (white metal). Each. \$7.00
95C5131—3/4 in. Japan (black). Each. \$7.00
For flat reins in place of round, deduct, per bridle. 65c



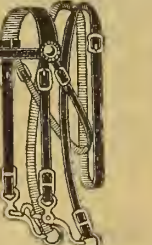
A high-grade Bridle. Sewed round cheeks with 3/8-inch billets, double and stitched front, 3 buckle overcheck with nose band, half cheek nickel joint bit, rosettes. Ship. wt., 2 1/2 lbs.
95C5198—Nickel. \$4.50
Each.
95C5199—Imitation Rubber trimmed. Each. \$4.50
95C5200—Brass trimmed. Each. \$4.50



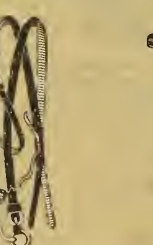
A good open Buggy Bridle. 3/4-inch flat cheeks made to reverse into half cheek nickel jointed bit, check and crown in one piece, 3 buckle overcheck with nose band, double and stitched front, rosettes. Ship. wt., about 2 1/2 lbs.
95C5183—Nickel. \$3.55
trimmed. Each.
95C5184—Imitation Rubber trimmed. Each. \$3.55
95C5185—Brass trimmed. Each. \$3.55



Montana Riding Bridle
Riding Bridle, Montana style, 3/4-inch russet leather cheeks, loose crown buckling in center, extended laps, 3/4-in. reins, length, 6 1/2 feet, nickel buckles and rosettes. Shipping weight, each, 28 oz.
95C3520—Price, without bit. \$5.50



A good Bridle and a big seller. 3/4-inch cheeks, 1/2-inch throat lath and 3/4-inch reins, length, about 4 1/2 feet, port bit and XC (white metal) plated center bar buckles, large Nickel Rosettes. Note that this weight and price includes the bit. Shipping weight, 2 lbs.
95C3501—Price, ea. with bit \$3.85



Our Great Western Riding Bridle. Heavy California Skirting Leather. Plain, round-edge finish. Crown 1 1/4-inch solid leather. Cheeks, 3/4-inch, extended laps. Reins, 3/4-inch x 6 feet. Front 3/4-inch Throat lath, 1/2-inch. Curb strap, 1/2-inch Swedge buckles. Shipping weight, 2 1/2 lbs.
95C3570—Each, without bit \$6.15



Double Headstall Bridle. Made of oiled leather. Russet leather crown and cheeks made in one piece. 3/4-inch double cheeks to buckle on top of crown; 3/4-inch reins, length, 5 feet, with quilt ends; XC (white metal) buckles. Shipping weight, about 1 pound.
95C3505—Each, without bit \$3.50



Made of heavy russet skirting leather. Headstall, cut in one piece, cheeks 1 inch wide and double all around and made to buckle on top, reins 3/4-inch quilt end, length, about 5 ft. to loop in bit. 3/4-inch curb strap. Weight, about 18 oz.
95C3536—Price, without bit, each. \$4.50



Web Bridle with Port Bit
Made from 3/4 in. No. 1 quality web with 3/8-in. all around throat lath, 3/8-inch front, nickel rosettes and XC (white metal) plated port bit. Made for average size saddle horse. We do not make any changes on this style. Ship. wt., 12 oz.
95C3515—Price ea., with bit \$1.25



Ring Crown Riding Bridle
Our New Ring Crown Bridle. Made of good grade of russet skirting leather 3/4-inch double cheeks made to buckle in ring in crown, 3/4-inch reins length about 5 feet, quilt ends, curb strap, 3/4-inch front, throat lath goes clear around. XC (white metal) buckles and bit. Shipping weight, about 2 1/2 pounds.
95C3551—With bit as pictured. Price, each. \$3.95



Houston Riding Bridle
New Montana Style Cow-boy Bridle. Made from good grade of russet skirting leather. Fancy cheeks 3/4-inch nickel buckles and conchas swell front 3/4-inch by 6 feet reins with quilt ends and with buckle and billet at front. Ship. wt., about 2 1/2 lbs.
95C3552—Price, each, without bit. \$6.65



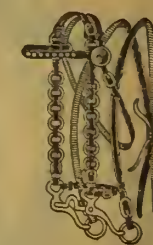
A high-grade Bridle. Made from Oregon oiled russet leather; crown piece 1 1/4-inch, cheeks 1 1/4-inch fancy stamped made for bit to lace in; 3/4-inch front; 3/4-inch throat lath; 3/4-inch buckle and billet reins, length, 7 feet with quilt ends. Nicked buckles. Shipping weight, 33 ounces.
95C3540—Without bit. Price, each. \$6.15



One of our best grades. Heavy Russet leather 1-inch adjustable crown. Solid cheeks, 2 1/4-inch tapering to 3/4-inch at top. Fancy embossed 3/4-inch curb straps. Nickel buckles. 1 1/4-inch Mexican nickel concha ornament, laced in on cheeks and front with chrome lace strings. Rein length, 6 feet 6 inches. Ship. wt., each, 2 lbs. 6 oz.
95C3555—Price, without bit. Each. \$6.75



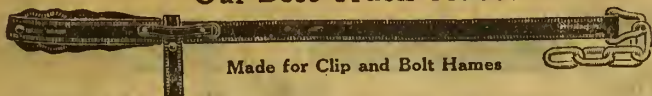
Ozark Riding Bridle
New fringed front, Western style Bridle of fine quality oiled leather crown and billets are 1-inch in one piece with slide loop, 1-inch heavy fringed front, leather rosette tied on; 1-inch reins to buckle in with quilt ends, length, 5 feet with curb strap. Ship. wt., 1 1/2 pounds.
95C3550—Price, each, without bit. \$5.55



Wyoming Riding Bridle
Full Russet Leather. 3/4-inch adjustable double crown, ring on each end; 3/4-inch cheeks, nickel rings and slide loops; 3/4-inch reins, length, 6 feet; buckle, billet, quilt ends, 3/4-inch front; 3/4-inch throat lath; 3/4-inch curb strap. Ship. wt., 2 1/2 lbs. White metal.
95C545—Price, each with XC Port Bit as illus. \$5.50

Traces, Halters and Stallion Bridles

Our Best Truck Traces



Made for Clip and Bolt Hames

We make only one grade of this style, a straight 3-ply, this is our very best, in leather, workmanship, stitching and chains, made heavy 3-ply, 6 feet long not including the 6 link chain, with scalloped safe in front, 1 1/2-inch belly band billets, made in 1 1/2, 1 3/4 and 2 inches wide and for clip and bolt hames.

5C5741—1 1/2-inch for bolt hames, 2-row stitched. Shipping weight, about 18 pounds. **\$28.50**
 Price, per set (4).....

5C5742—1 3/4-inch for bolt hames, 3-row stitched. Shipping weight, about 21 pounds. **32.00**
 Price, per set (4).....

5C5743—2-inch for bolt hames, 3-row stitched. Shipping weight, about 24 pounds. **36.50**
 Price, per set (4).....

5C5744—1 1/2-inch for clip hames, 2-row stitched. Shipping weight, about 17 pounds. **26.50**
 Price, per set (4).....

5C5740—1 1/2-inch for clip hames, 2-row stitched. Shipping weight, about 18 pounds. **29.00**
 Price, per set (4).....



Made for Clip and Bolt Hames

A good grade of heel chain traces, made 3-ply, 6 feet long not including the 6 link chain which is clipped in, with jointed clips for bolt hames, 1 1/2-inch belly band billets, scalloped safe in front. All 2-row stitched.

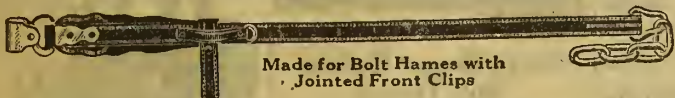
5C5750—1 1/2-inch with jointed clips for bolt hames. Shipping weight, about 18 pounds. **\$23.75**
 Price, per set (4).....

5C5751—1 3/4-inch with jointed clips for bolt hames. Shipping weight, about 20 pounds. **26.25**
 Price, per set (4).....

5C5748—1 1/2-inch without jointed clips, for clip hames. Shipping weight, about 16 pounds. **22.75**
 Price, per set (4).....

5C5749—1 3/4-inch without jointed clips, for clip hames. Shipping weight, about 18 pounds. **25.25**
 Price, per set (4).....

5C5756—1 1/2-inch belly band billets only. Price each..... **.55**



Made for Bolt Hames with Jointed Front Clips

Our best grade of heel chain traces, made straight 3-ply, 6 feet long not including the 6 link chain which is sewed in, with jointed clips for bolt hames, 1 1/2-inch belly band billets, scalloped safe in front. All 2-row stitched.

5C5780—1 1/2-inch with jointed clips for bolt hames. Shipping weight, about 18 pounds. **\$27.50**
 Price, per set (4).....

5C5781—1 1/2-inch with jointed clips, 2-row stitched, for bolt hames. Shipping weight, about 18 pounds. **30.00**
 Price, per set (4).....



New Duplex Steel Cable Trace

The Cables are anchored at each end in a solid plate, these covered with good harness leather and the center between the cable (which are at the outer edge of the trace) is filled in with leather and the layer of leather 1 1/2 inches wide on top and 2 rows of stitching. There is a cap that fits over the ends of the leather so that no water can get into the trace. There is a Jointed Clip at front end, and a 6-link heel chain at back end, and 1 1/2-inch belly band billet. Weight, per set, about 24 pounds.

5C5755—Cable trace. Price per set of 4..... **\$27.25**

Team and Express Traces

Traces for either Express or Team Harness, with clip cockeyes on the back ends. These are double and stitched and are exceptionally good traces. Made in three widths. Average shipping weight, per set of 4, about 10 pounds.

95C5705—1 1/2 in. x 6 ft. Per set (4).....	\$14.05	95C5708—1 1/2 in. x 6 1/2 ft. Per set (4).....	\$15.25
95C5706—1 1/2 in. x 6 ft. Per set (4).....	16.05	95C5709—1 1/2 in. x 6 1/2 ft. Per set (4).....	17.65
95C5707—1 1/2 in. x 6 ft. Per set (4).....	19.15	95C5710—1 1/2 in. x 6 1/2 ft. Per set (4).....	20.80

Team and Express Traces

Our best quality heavy double and stitched straight 3 ply, 2 row stitched, cockeye sewed in.

Length, 6 feet.				Length, 6 ft. 6 in.			
Art. No.	Width	Shp. Wt.	Per Set (4)	Art. No.	Width	Shp. Wt.	Per Set (4)
95C5719	1 1/2 in.	4 lbs.	\$15.75	95C5722	1 1/2 in.	4 1/2 lbs.	\$16.75
95C5720	1 1/2 in.	5 lbs.	19.65	95C5723	1 1/2 in.	5 1/2 lbs.	20.65
95C5721	1 3/4 in.	5 1/2 lbs.	22.65	95C5724	1 3/4 in.	6 lbs.	24.50

Team Traces for Moeller Metal Hame Tugs

Team Traces for Moeller Metal Hame Tugs. Double and stitched, with clip cockeye, and hook on front end. Length, 5 ft. 10 in. Weight, about 10 lbs.

95C5711—1 1/2-inch. Price, per set (4)..... **\$16.35**

95C5712—1 3/4-inch. Price, per set (4)..... **19.25**

Concord Traces with Cockeyes

95C5729—Heavy Single Strap Concord Traces, cut from No. 1 Trace Leather with double and stitched front points, single strap bodies, cockeyes sewed in. Length, 6 feet. Price, per set (4)..... **\$19.30**

95C5730—1 1/2-inch x 2 1/2-inch bodies. Shipping weight, about 10 pounds. Price, per set (4)..... **35.25**

95C5731—1 1/2-inch x 2 1/2-inch bodies. Shipping weight, about 11 pounds. Price, per set (4)..... **21.95**

Lumber Style Traces

95C5747—1 1/2 inches wide, 5 feet long. Heavy, straight 3-ply and 3-row stitched, with Finery Hook and Dee, 36-inch heavy butt chains. Made for bolt hame, 1 1/2-inch billets. Weight, per set, about 25 pounds. Price, per set (4)..... **\$30.50**

95C5757—Same as 95C5747 only 2 inches wide and 3-row stitched. Weight per set, about 25 pounds. Price, per set (4)..... **35.25**

95C5758—Same as 95C5747 only 2 1/4 inches wide and 3-row stitched. Weight, per set, about 30 pounds. Price, per set (4)..... **38.75**

Traces for Buggy Harness

Double and stitched, flat traces to buckle into hame tugs cut from good stock. Flat round edge. Average shipping weight, about 4 pounds.

Art. No.	Width	Length	Per Pair
95C5808	1 1/2 in.	6 ft.	\$4.75
95C5809	1 1/2 in.	6 ft.	5.00
95C5810	1 1/2 in.	6 ft. 6 in.	5.15
95C5811	1 1/2 in.	6 ft. 6 in.	5.40

Double and Stitched Raised Traces

Extra quality cut from heavy stock and raised round edge. Average ship. wt., about 2 lbs.

Art. No.	Width	Length	Per Pair
95C5818	1 1/2 in.	6 ft. 6 in.	\$6.10
95C5819	1 1/2 in.	6 ft. 6 in.	6.45

A Good Grade Black Leather Halters

5-Ring Style Selected Stock.

95C5022—1-inch riveted. Weight, 19 oz. Ea..... **\$1.80**

95C5023—1 1/4-inch riveted. Weight, 25 oz. Ea..... **\$2.10**

Extra Large Halters

95C5024—1 1/4-in. riveted, as 95C5023, only extra large. Weight about 32 oz. Price, each..... **\$2.60**

Hames and Traces

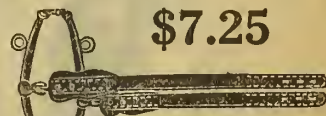
\$10.75



For common single wagon harness, clip hames, painted red XC metal (white) plated ball tops; traces 1 1/2 in. 5 ft. long doubled and stitched, clipped to hames, 18-in. heel chains, top and bottom hame straps. Hames are not suitable for use in collars larger than 21 in. Shipping weight, per pair 11 lbs.

95C5700—Price, per pair..... **\$10.75**

\$7.25



For buggy harness, 3 1/2 lbs., japanned black wrought iron hames; 6 ft. 6 in. single strap traces clipped on. Hames, length, 17 to 22 in., with Metal Loop Hame Straps. State length of hames wanted. Av. ship. wt., per pair, 6 lbs.

95C5695—1 1/4 in. traces. Price, per pair..... **\$7.25**

Chain Piping

Leather Pipes, length, 24 in. to cover trace chains for plow harness. Common or standard quality; no binding on ends. Weight, per set about 2 lbs.

95C6109—Per set of four for two horses. Price, per set..... **\$3.75**

Extra Heavy Chain Piping to cover trace chains in plow harness. Heaviest and best quality; bound on both ends, three lengths. Per set of 4 for two horses.

Art. No.	Length	Weight	Price set of 4
95C6110	30 in.	3 lbs	\$5.75
95C6111	36 in.	3 1/2 lbs.	7.75
95C6112	42 in.	4 1/2 lbs.	7.75

Cow Halter

Good black harness leather, tubular riveted. Weight, each, 9 and 15 ounces.

95C5040— **\$1.15**
 1-inch Each.....

95C5041— **\$1.45**
 1 1/2-inch Each.....

Web Cow Halters

12 cord Fawn color web with Jute Rope Tie

95C5042— **80c**
 Each.....



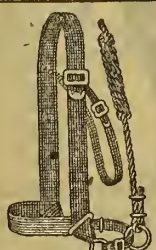
Extra Heavy Web Halter. Adjustable 13 Cord Heavy Web Halter, with strong web throat latch, web chin strap, web front neck rosettes and rope nose. The head and nose part is one piece, without sewing or splicing. Wt., 9 ounces.

95C5018— **80c**
 Price, each.....



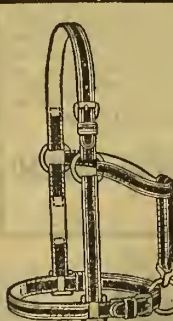
Standard Web Halter. Made from heavy 12 cord web. 1 1/2-inch wide. Adjustable web throat latch and chin-strap with rope tie cut full size. A good heavy web chin strap and rope tie. Weight, 9 oz.

95C5035— **55c**
 Price, each.....



Heavy Web Halters. Heavy, adjustable web halter. One continuous piece of web from end to end, no stitching to rip. Heavy web chin strap and rope tie. Weight, 9 oz.

95C5031— **70c**
 Price, each.....



Our Best Halter

This is our best quality leather halter made of first selection of leather and with sewed laps 5 ring style, without the strap. Weight, about 25 ounces.

95C5026—1 1/4-inch strap. Price each..... **\$3.15**

95C5027—1 1/2-inch straps. Weight, about 32 ounces. Price each..... **\$3.60**

Extra Large Halter

95C5028—1 1/2-inch straps extra large, and laps, best quality. Weight, about 36 ounces. Price, each..... **\$3.95**



Round Rope Halter

A good Rope Halter made of 1/2-inch strong sisal rope, with stand and nose piece, stall and nose piece, rope tie. Weight, 10 ounces.

95C5057— **40c**
 Price, each.....

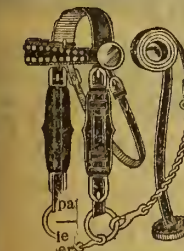


Braided Rope Halter

Hand Woven Sisal Rope Halter, 1 1/2-inch head and nose piece, stall and nose piece, rope tie. Weight, 10 ounces.

95C5000— **50c**
 Price, each.....

Stallion Bridles



Black or Russet. One of our Good Grades. 1 1/2-inch necks, fancy scalloped inserted bits, shaped and spotted fronts, 1 1/2-inch heavy jointed bits, 1 1/2-inch by 12 feet lead straps with chain and 3-inch stopper at end. Ship. wt., about 3 1/2 pounds.

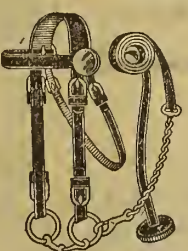
95C3572—Nickel trimmed. Black Leather with bit. **\$10.25**
 Each.....

95C3574—Nickel trimmed. Russet Leather with bit. **\$10.75**
 Each.....

Fine Russet Leather

Brass wire buckles and large brass rosettes. Cheeks front and nose bands are fancy shaped. Doubled and stitched and fancy inlaid, red patent leather. All made heavy and strong. 1 1/2-inch, lead line, length, 13 ft., with chain on one end and large stopper on the other end. Shipping weight, each, 3 1/2 lbs.

95C3573—Price with bit. **\$12.50**
 out bit. Each.....



Black Leather

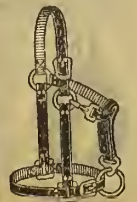
A Good Serviceable Stallion Bridle. 1-inch heavy cheeks, nickel buckles and rosettes, heavy front, 1-inch by 12 feet rein, with large stopper at back end and 18-inch chain to attach to bit, heavy crown. Shipping weight, about 3 1/2 pounds.

95C3571—Price each **\$8.00**
 with bit.....

Extra Heavy Halter

Made of chrome tanned water Buffalo hide, with a russet finish. The strongest halter of its kind on the market, has 4 tubular double capped rivets in each lap. Made in one size, 1 1/4 in. Weight about 30 ounces.

95C5010— **\$2.05**
 Price each.....



Colt or Pony Halter

Black harness leather, tubular riveted and strong, 5-ring style.

95C5013—1-inch head without tie strap. Wt. 16 oz. **\$1.35**
 Each.....

A Page of High Grade Leather Work



Metal Hame Tugs

Best grade Moeller Metal Hame Tugs with leather safe under plate, with leather end and jointed clip attached. Japan (black) trimmed. Weight, per set (4), about 11 lbs.

95C5939—1 1/2-inch Japan (black). Price, per set (4)..... **\$8.95**

95C5940—1 1/2-inch Japan (black). Price, per set (4)..... **\$9.55**



Hame Tugs

2-Loop Solid Hame Tugs, double and stitched, with Champion trace buckles. XC white metal plate; for use on clip hames in slip tug harness; length, 12 in.

Art. No.	Width	Weight	Per Set (4)
95C5941	1 1/4 in.	3 lbs.	\$4.55
95C5942	1 1/2 in.	3 1/2 lbs.	4.95
95C5943	1 3/4 in.	4 lbs.	5.60



Leather Hame Tugs

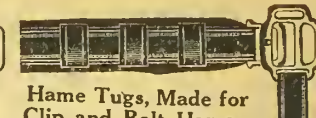
Solid leather Hame Tugs for use on iron hames in single or double light driving harness. Length, 10 in. With box loops and either nickel or imitation rubber buckles, and Jap (black) clips to attach to hames. Weight, 1 1/2 lbs.

95C5948—1 1/2 in. Nickel. Price, per pair (2)..... **\$2.55**

95C5949—1 1/2 in. Imitation Rubber. Price, per pair (2)..... **\$2.55**

95C5950—1 1/2 in. Nickel. Price, per pair (2)..... **\$2.70**

95C5951—1 1/2 in. Imitation Rubber. Price, per pair (2)..... **\$2.70**



Hame Tugs, Made for Clip and Bolt Hames

Three loop folded, made for use on clip hames with champion trace buckles and belly band straps without belly bands. Lengths, 18 in.

Art. No.	Width	Trim	Weight	Per Set (4)
95C5956	1 1/2 in.	XC	5 lbs.	\$8.75
95C5957	1 1/2 in.	Jap	5 lbs.	8.75
95C5958	1 1/2 in.	XC	5 1/2 lbs.	9.50
95C5959	1 1/2 in.	Jap	5 1/2 lbs.	9.50

Team Back Bands

95C6235—Made of heavy harness leather. Width, 3 in., length, 3 ft., 1 1/4 in. billet on each end. These pads have three leather loops on top so they can be used with either single back strap or crotch back strap breeching. Wt., each, 20 oz.

Per pr. (2)..... **\$4.40**

Cotton Web Backbands For Team Harness

Made from heavy, No. 1 Cotton Backband Webbing. These are not the common cotton backbands usually offered for sale, but are extra heavy and will give several years of service. Cotton backbands with leather billets and roller buckles.

95C6224—4-in. Wt., per pair, 11 oz. Per pair (2)..... **\$2.65**

Fancy Spotted Leather Team Backbands

Width, 3 inches

Fancy Spotted Team Backbands. Cut from good grade harness leather with felt-lined center, 1 1/4-in. Buckles and billets. Loop and ring on top. Length, about 42 in.

95C6254—Price, per set (2), for two horses..... **\$5.95**

Ship, wt., per set, about 5 lbs.

Cotton Web Backbands For Chain Trace Harness

An excellent backband for plow purposes. Made of heavy No. 0 Cotton Webbing, width, 4 in., length, 42 in., with harness leather ends and snap chaps. Ship, wt., per pair, about 2 lbs.

95C6259—Per pair (2)..... **\$2.75**

Web Team Backbands

Heavy No. 0 webbing, bound ends, metal book, about 42 in. long. Wt., per pair, about 2 lbs.

95C6269—Width, 4 in. Price, per pair (2)..... **\$1.70**

Leather Backbands For Chain Trace Harness

With heavy leather loops on each end for chains to pass through; are used in horse or ox plow harness.

95C6239—3 inches. Wt., per pair, about 2 lbs. Price, per pair (2)..... **\$4.35**

95C6240—3 1/2 inch. Wt., pair, 2 1/2 lbs. Per pair (2)..... **\$4.95**

95C6241—4-in. Wt., pair, 3 lbs. Per pair (2)..... **\$5.75**

Hame Tugs, Made for Clip and Bolt Hames

Laced loop, folded hame tugs for use on clip hames. Champion buckles with billets but without belly bands. Length, 18 inches.

Art. No.	Width	Trim	Weight	Per Set (4)
95C5910	1 1/2 in.	XC	5 1/2 lbs.	\$10.50
95C5911	1 1/2 in.	Jap	5 1/2 lbs.	10.50
95C5912	1 1/4 in.	XC	6 1/2 lbs.	11.25
95C5913	1 1/4 in.	Jap	6 1/2 lbs.	11.25

Hame tugs same as above, only with a solid head for bolt hames; length about 20 inches.

Art. No.	Width	Trim	Weight	Per Set (4)
95C5915	1 1/2 in.	XC	6 lbs.	\$12.00
95C5916	1 1/2 in.	Jap	6 lbs.	12.00
95C5917	1 1/4 in.	XC	6 1/2 lbs.	12.75
95C5918	1 1/4 in.	Jap	6 1/2 lbs.	12.75

Hame tugs same as above only made with solid head for bolt hames; length 20 inches.

Art. No.	Width	Trim	Weight	Per Set (4)
95C5964	1 1/2 in.	XC	5 1/2 lbs.	\$10.15
95C5965	1 1/2 in.	Jap	5 lbs.	10.15
95C5966	1 1/2 in.	XC	5 1/2 lbs.	10.30
95C5967	1 1/2 in.	Jap	5 1/2 lbs.	10.30

Team Breast Collar

To be used in place of hames and collar on farm harness, to give relief to a horse suffering from sore shoulders. Breast part width, 4 inches.

Heavy Breast Collars and Traces

Single strap breast collars with shaped centers. 1 1/4-inch single strap traces sewed on, and with double neck straps with line terrets on each side. All made heavy and strong, with nickel and imitation rubber trimming.

Ship, wt., about 4 lbs.

95C5687—Nickel trimmed. Price, each..... **\$7.50**

95C5688—Imitation rubber trimmed. Price, each..... **7.50**

Made from one piece of heavy leather, cut 8 in. wide and turned over 1 1/2 in. layers on each end with Champion trace buckles and heavy dees for a breast strap; 1/2 in. neck straps on each side, the top part being 4 in. wide with 1 1/2 in. layer. Drop terrets riveted on for lines to pass through. Japan (black) buckles. To use with 1 1/2 in. traces. Shipping weight, each 3 lbs.

95C5669—Price, each..... **\$11.75**

Superior Back Pad

Four in. wide, harness leather top felt lined plunked edge, brass spotted around edge; brass bows. Layer over top, 1 1/2-in. skirts to reverse. Wt., per pair, about 4 1/2 lbs.

95C6126—Price, per pr. **\$6.10**

Comfort Back Pad

This new back pad is well made throughout. It will quickly adjust itself to fit your horse's back, making it a very comfortable back band. 4 1/2-in. double and stitched harness leather, felt lined. Layer on top with black metal dee in end. Brass side bows, and 1 1/2-in. Market straps. Wt., per pair, 5 lbs.

95C6146—Price, per pair (2)..... **\$8.10**

95C6148—Same pad XC (white metal) trimmed. Per pair (2)..... **\$8.10**

Popular Back Pad

A Very Good Value in a High Grade Back Pad

\$12.50

Six inches wide at swell, double and stitched harness leather top, felt lined pinked edge, brass spotted around edge, brass bows, layer over top, and 1 1/2-inch skirts. Weight, per pair, about 6 1/2 lbs.

95C6145—Price, per pair... **\$12.50**

Flat Team Pad

Fancy Spotted Flat Team Pad, lined with good quality felt, has heavy layer drop terrets and hook, 1 1/4-inch adjustable market straps to attach to trace buckles, furnished in XC (white) metal or Jap (black) trimmings; XC trimmed has nickel spotted edge housing; Jap trimmed has brass spotted edge housing.

Weight, per pair, 4 1/2 lbs.

95C6143—XC trimmed. Price, per pair..... **\$7.35**

95C6144—Jap trimmed. Per pair..... **7.35**

Pads for Slip Tug Harness

\$6.25

95C6160—All harness leather, hair stuffed bottom, wide swell shape and metal dees in end with terrets and hooks. 1 1/4-inch heavy slip tugs adjustable skirts with extra liner in trace loop XC (white metal) trimmed. Wt., abt. 7 lbs. Price, per pair (2)..... **\$10.15**

95C6161—Same as above, only Japan (Black) trimmed. Price, per pair (2)..... **\$10.15**

95C6173—1 1/4 in. XC trimmed slip tug skirts only as used in 95C6160 pads. Price, per set (4)..... **\$6.25**

95C6174—1 1/4 in. Japan trimmed slip tug skirts only as used in 95C6161 pads. Price, set (4)..... **\$6.25**

Team Back Pad

New Style Adjustable Mollie Tree. Harness leather pad, full sewed around edge, solid harness leather top and bottom, has regular extended skirt with safety ring. 1 1/4-in. adjustable market straps attached to trace buckles. Jap (black) metal or XC (white) metal or Jap (black) trimmed. (Weight, per pair 7 1/4 pounds.)

95C6149—XC trimmed with market straps as shown. Per set (2)..... **\$9.20**

95C6150—Trimmed Jap with market straps as shown. Per set (2)..... **\$9.20**

Team Back Pad

All harness leather, wide swell shaped, creased and stitched edge, hair stuffed Mollie Adjustable tree, 1 1/4 inch skirts to reverse, XC (white metal) and Japan (black) trimmed. Weight, per pair, about 6 1/2 lbs.

95C6124—XC trimmed. Price, per pair..... **\$7.50**

95C6125—Japan trimmed. Price, per pair..... **\$7.50**

Flexible Team Back Pads

All plain black harness leather with stuffed pads. Made without plates, flexible and suitable for any size horse. XC (white metal) plated hooks and terrets. Weight, per pair, 3 1/2 lbs.

95C6169—XC trimmed. Price, per pair (2)..... **\$3.95**

95C6170—Jap trimmed. Price, per pair (2)..... **3.95**

95C6171—XC Market Straps, 1 1/4-inch, as used on 95C6143 pads. Wt., per set, 1 1/4 lbs. Price, per set (4)..... **\$2.85**

95C6172—Jap Market Straps, 1 1/4-inch as used on 95C6144 pads. Weight per set, 1 1/4 lbs. Price, per set (4)..... **\$2.85**

Team Back Pads

All harness leather swell shaped, stitched edges, hair stuffed, Mollie adjustable tree, with wear leather and dee, XC (white metal) and Japan (black) trimmed. Weight, per pair, about 4 1/2 lbs.

95C6120—XC trimmed. Price, per pair..... **\$6.50**

95C6121—Japan trimmed. Per pair..... **\$6.50**

Can use 95C6173 and 95C6174 slip tug skirts on these pads.

Buggy Harness Gig Saddles

Gig Saddles, 3-inch, with sewed swell back, Steel Tree and Dee bear, 1-inch and 3/4-inch bellyband straps. Nickel, brass or imitation rubber mountings. Prices do not include shaft tugs or bellybands. Weight, each, 3 1/2 pounds.

95C6202—Nickel trimmed. Price, each..... **\$5.25**

95C6203—Imitation rubber trimmed. Price, each..... **\$5.25**

95C6204—Brass trimmed. Price, each..... **\$5.25**

Padded Skirt Gig Saddle

Extra line quality, genuine hand laced patent leather skirts, patent leather jockeys, full quilted patent leather pad, 3 in. saddles with 3/4 in. bellyband straps. Wt., each, 3 lbs.

95C6216—Nickel Trimmed. Each..... **\$7.50**

95C6217—Imitation Rubber Trim. Each..... **\$7.50**

95C6218—Brass Trimmed. Each..... **\$7.50**

Single Strap Express Saddle

95C6190—4-inch heavy express saddle, hair stuffed kersey lined bottom, heavy 3 1/4-inch single strap skirts, 1 1/4-inch bellyband billets, 1 1/2-inch double and stitched bearers, heavy brass terrets and hook. Wt., about 7 lbs. Price, brass trimmed, each..... **\$8.25**

95C6191—Same as above, only nickel trimmed. Price, each..... **\$8.25**

Eastern Side Backers

A very popular side backer, made 1 1/2 inch, heavy single ply leather, with 1 1/4 inch extension strap and 1 inch support straps with snaps. Weight, about 8 lbs.

95C6012—Price, per set (4)..... **\$17.50**

Sheep and Cow Bell Straps

Made of black harness leather with XC white metal buckles. Straps 24 inches long for sheep.

Art. No.	Width	Ship Weight	Price Each	Price Doz.
95C6500	3/4 in.	2 oz.	.52	\$3.00
95C6501	1 in.	3 oz.	.32	3.60
95C6502	1 in.	4 oz.	.35	4.00

Cow Bell Straps

Heavy black harness leather, 3 feet long.

Art. No.	Width	Ship Weight	Price Each	Price Doz.
95C6503	1 1/4 in.	7 oz.	.50	\$6.90
95C6504	1 1/2 in.	9 oz.	.75	8.70
95C6505	1 3/4 in.	12 oz.	1.00	11.40

Web Cow Bell Collar

95C6506—1 1/2 inches wide; 36 inches long, brown Web, with patent buckle. Weight, about 6 ounces. Price, each..... **40c**

Team Cruppers

95C6008—Folded Cruppers for team harness, such as are generally used on all ordinary grades of farm harness. Folded bodies with 3/4-in. Japan (black) buckles on end to attach to forks in back of straps. Wt., 4 oz. Price, each..... **52c**

Crupper Fork and Crupper

1 1/2 inch wide with snap and with felted crupper, black snap and buckles. Weight, each, about 8 ounces.

95C6010—Price, per pair of 2..... **\$2.00**

Check-Up Straps

95C6005—3/4-inch Center Check-up Strap. Weight, per pair, 8 oz. Japan (black) trimmed. Price, per pair (2)..... **\$1.35**

Buggy Harness Shaft Tugs

To be used on single buggy harness where Griffith wrap style, bellyband is used. Nickel, brass or imitation rubber buckles.

95C5920—Size, 1-inch. Nickel. Weight, 8 ounces. Price, per pair..... **\$1.38**

95C5922—Imitation Rubber, 1 inch. Weight, 8 ounces. Price, per pair..... **\$1.38**

95C5924—Brass, 1 inch. Weight, about 8 ounces. Per pair..... **\$1.38**

Express Shaft Tugs

Henry Shaft Tugs for Express Harness, made with dee and 1 1/4 inch Bellyband Billets, japanned and brass buckles.

95C5936—1 1/2 in. brass har buckle, 1 1/4 in. Billets. Weight, 36 oz. Price, per pair..... **\$3.70**

95C5935—1 1/2 in. japanned buckle and leather loop, 1 1/4 in. Billets. Weight, per pair, 21 oz. Price, per pair..... **\$2.15**

Shaft Tugs

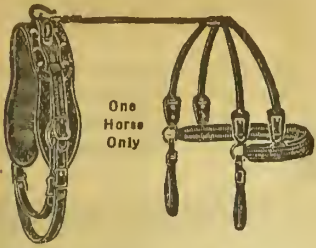
For single buggy harness, with dee and 3/4-inch billets for bellybands, box loops and with 1-inch nickel, brass or imitation rubber buckles. Weight, per pair, about 16 oz.

95C5928—Nickel. Pair..... **\$2.15**

95C5929—Imitation Rubber. Per pair..... **2.15**

95C5930—Brass. Per pair..... **2.15**

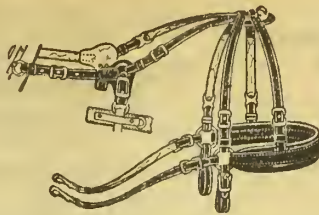
Reliable Slip Harness



One Horse Only

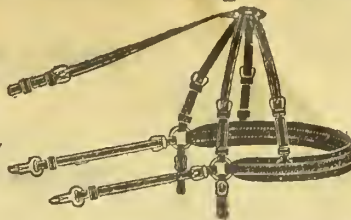
Saddle, 4 inch swell harness leather skirts and pad, nickel spotted housings, dee shaft tugs and flat bellybands; Breaching, folded with layer, 3/4 inch back straps, 1 inch side straps, 1 inch hip straps, double, nickel spotted. Made suitable for horses weighing up to 1,100 lbs.
95C5978—Weight, per set, 9 lbs.
 Price, per set. **\$14.65**

Guaranteed Harness and Strapwork



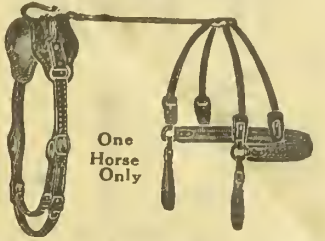
Made in Our Own Factory

Breaching—folded with 1-inch layer, 3/4-inch lazy straps, 1 inch single side straps, 3/4-inch hip straps made to reverse into breaching, 3/4-inch back straps, 3/8-inch shoulder straps and 1 1/2-inch Market tugs, Japan (black) trimmed. Weight, about 10 lbs.
95C6092—Price, per set (2) **\$22.75**



Team breaching, folded with layer, 1 inch single side straps with twin loops 3/4-inch lazy straps 3/4-inch double hip straps made to reverse into breaching, 1 1/2-inch single back straps through to hame straps, hip and back straps sewed into metal trace carrier on top. Made in Japan (black) trimmed. Weight, per set, about 8 1/2 lbs.
95C6071—Price, per set (2) **\$17.95**

Georgia Slip Harness



One Horse Only

Saddle, 4 in. swell harness leather top and bottom stuffed pad, dee shaft tugs and double bellybands; Breaching folded with layer, 3/4-inch back straps, 3/8-inch hip straps, 3/8-inch side straps. No other parts included than those mentioned. Made only in one standard size to fit horses weighing up to 1,100 lbs. For use on one horse only.
95C5972—Weight, each, 3 1/2 lbs.
 Price, each **\$12.75**

Back and Hip Straps



Back and Hip Straps for double farm harness, 1 in. back straps, to go to pad and with trace carriers sewed in and with folded crupper buckled, 1 in. hip straps sewed into trace carriers; lazy straps for traces buckled on the hip straps. Weight, per set, 3 1/2 to 4 1/2 lbs.
95C5983—Set for 2 horses. Price, per set **\$6.95**

Hip Breaching

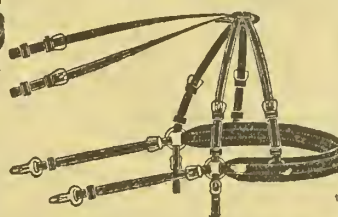


For team Harness heavy single strap with loop on top, and made in three sizes and side strap with snaps to snap into Martingale.

Article No.	Bodies	Side Straps	Weight	Per Set (2)
95C6063	1 1/4	3/4-in.	2 3/4	\$5.50
95C6064	1 1/2	1-in.	3	6.50
95C6065	2	1 1/2-in.	3 3/4	7.25

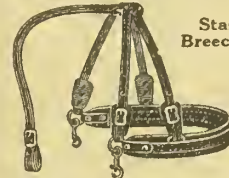
For double buggy harness, 1 1/4-inch bodies with loops, 3/4-inch side straps. Weight, per set, about 2 1/2 lbs.
95C6062—Per set (2 horses) **\$5.45**

Team Breaching



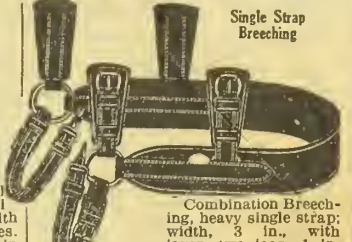
Team Breaching folded with layer, 1 in. single side straps with twin loops, 3/4 in. lazy straps, 3/4 inch double hip straps made to reverse into breaching, 3/4 inch double back straps through to hames, hip and back straps sewed in metal trace carrier on top, made Japan (black) trimmed. Weight, per set, about 9 lbs.
95C6072—Per set (2) **\$18.95**

Stage Breaching



Common Team Breaching, intended for use with plow harness having all chain traces. Not suitable for use with leather traces. Made in three sizes. Breaching folded with layer. Snaps in breaching rings to fasten in chain traces; no side straps. Weight, per set, 6 1/4, 7 1/4 and 8 1/2 lbs.

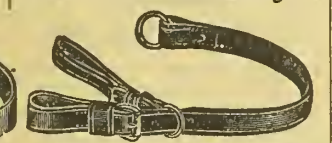
Article No.	Hip Strap Double	Back Strap Single	Per Set
95C6035	3/4 in.	1 in.	\$10.50
95C6036	1 in.	1 1/4 in.	11.50
95C6037	1 1/4 in.	1 1/2 in.	12.50



Combination Breaching, heavy single strap; width, 3 in., with layer two loop, 1 in. double lead ups as shown in illustration. 1 in. double side straps. Japan (black) trimmed. Weight, per set, 7 lbs.
95C6057—Price, per set (2) **\$15.95**



Truck style Martingale Made Chicago style, cut from No. 1 selected extra heavy leather. Single strap body running from belly band to collar, and with 1 1/2-inch extra heavy extension strap running from ring on body to neck yoke or chain. The best Martingale we make and cut extra size for large horses. Made full 1 1/2 inch and full 1 1/4 inch wide. Wt., each, about 30 to 40 ounces.
95C5830—3/4 inch throughout. Price, each **\$3.25**
95C5831—1/4 inch throughout. Price, each **\$4.25**



Best Grade Team Martingales Made double and stitched around front loop, giving double wear around neck yoke. Heavy and selected leather, roller buckles and leather loop sewed, 3/4-inch cewd collar strap, standard length.

Art. No.	Width	Weight	Each
95C5824	1 1/4 in.	17 oz.	\$2.40
95C5825	1 1/2 in.	19 oz.	2.75
95C5826	2 in.	24 oz.	3.25



Flat Wagon Breaching. Cut from good grade stock, with Hand Copper Riveted Cross Straps. Two sizes only.
95C6045—Breaching body, 3 in. Per set, for two horses **\$13.50**
95C6046—Breaching body, 4 in. Per set, for two horses **\$15.50**
 Average shipping weight per set, about 7 lbs.



Quick Shift Breaching Breaching folded with 1-inch single reverse side straps and 1-inch lead ups. Furnished with or without extra snap hip as preferred. Weight, per set, 7 1/4 pounds.
95C6048—XC white metal trimmed without snap hip strap. Price, per set **\$11.95**
95C6049—Jap. (black), without snap hip strap. Price, per set **\$11.95**
95C6050—Plain snap 1-inch hip strap with snap to attach to above breaching. Weight, per set, 23 oz. Price, per set (4) **\$2.15**



Buggy Breaching Single strap, Single Buggy Breaching. Body 1 1/2 in., with scalloped point layers, turnback 3/4-in., with crupper sewed on, 3/4-in. side straps, hip strap split, 3/4-in. points. Either nickel or imitation rubber trimmed. Weight, per set, 2 1/2 lbs.
95C6077—Nickel. Each **\$5.95**
95C6078—Imitation rubber. Each **5.95**

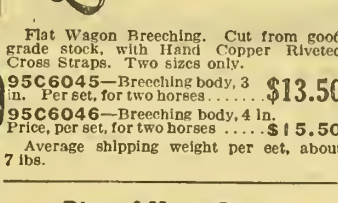
Team Martingale



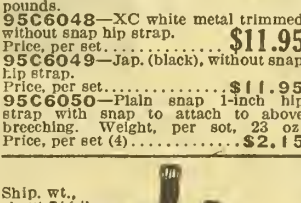
Our best grade, standard length and heavy, sewed at front and back end, with ring in loop and sliding ring, no collar strap. Japan (black) trimmed.
95C5847—Size, 1 1/2 in. Weight, 16 oz. Price, each **\$1.90**
95C5848—Size, 1 1/4 in. Weight, 18 oz. Price, each **\$2.20**
95C5849—Size, 2 in. Weight, 20 oz. Price, each **\$2.60**



A good grade, standard length, sewed at back end, with ring in loop, bar buckle at front end, sliding ring and 3/4-inch riveted collar strap. Japan (black) trimmed.
95C5836—Width, 1 1/2 in. Weight, 16 ounces. Price, each **\$1.75**
95C5837—Width, 1 1/4 in. Weight, 17 oz. Price, each **\$2.00**



Riveted Hame Straps Good quality black harness leather. Jap. buckles and iron loops riveted in. Made up in length 21 in. Wt., each, about 3 to 7 oz.
95C5761—3/4 in. 1 in. Each **33c 38c**
 Extra long black harness leather, buckles and iron loops riveted in. Length, 24 in. Wt., each, about 5 to 8 oz.
95C5767—3/4 in. 1 in. Price, each **37c 42c**

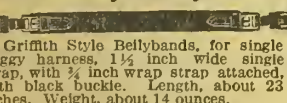


Shifting Team Breaching wide fold with 1-inch layer, 1-inch Single Reverse Side Straps as on 95C6048, leadeup, 1-inch for 1-inch hip straps.
95C6042—XC (white) metal trimmed. Per set (2) **\$11.25**
95C6043—Japan (black) trimmed. Per set (2) **11.25**



Back and Hip Straps only as used in ordinary breaching team or farm harness. 1-inch crotch back straps to run to rings in hames, 1-inch hip straps sewed in metal trace carrier on top, no cruppers. XC white metal or Japan (black) trimmed. Weight, per set, 3 1/4 lbs.
95C5994—XC. Per set (2) **\$9.25**
95C5995—Jap. per set (2) **9.25**

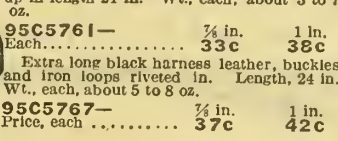
Griffith Style Bellybands



Griffith Style Bellybands, for single buggy harness, 1 1/2 inch wide single strap, with 3/4 inch wrap strap attached, with black buckle. Length, about 23 inches. Weight, about 14 ounces.
95C5897—Price, each **\$1.45**



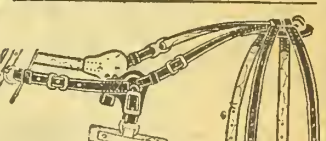
Neckyoke Straps For double buggy harness; made from heavy No. 1 leather. To buckle from collars to neckyoke, made up in length, 3 ft. 6 in. Imitation rubber buckles.
95C5860—1 1/4 in. Imitation Rubber Weight, 9 oz. Each **\$1.35**
95C5862—1 1/2 in. Imitation Rubber Weight, 12 oz. Each **\$1.60**



Special Rawhide Hame Straps Made from Water Buffalo hides, chrome tanned, extra heavy and will give wonderful service. Has roller buckle and metal loops, russet color. Length, 21 in. Wt., each, about 3.5, and 7 oz.
 Price, each **3/4 in. 23c 1 in. 26c 1 1/2 in. 32c**
95C5787—Same as above only 24 inches long. Wt., each, about 4.5 and 8 oz.
 Each **3/4 in. 30c 1 in. 36c 1 1/2 in. 42c**

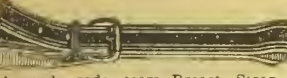


Double Breaching Straps Our best grade side straps for Breaching on double team harness. Length, 6 ft. Regularly made, buckles and leather loops sewed in, Japan (black) trimmed. Weight, 1 lb. 13 oz.

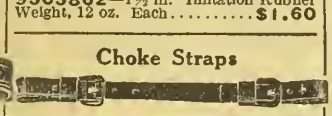


Back and Hip straps only to be used with breaching that have 1-inch lead up tugs, have 1-inch double hip straps, 1-inch back straps and 1-inch shoulder straps with 1 1/4-inch market tugs metal trace carrier on top of hip. Japan (black) trimmed. Weight, about 4 pounds.
95C5996—Price, per set **\$10.85**

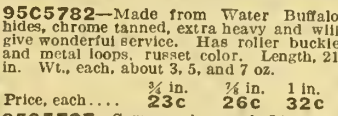
Standard Grade Breast Straps



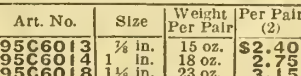
A good grade, team Breast Strap, reinforced lap where strap attaches to ring on hame, 1 1/2 in. wide, 4 ft. 6 in. long. Japan (black) trimmed. Weight, each, about 20 oz. Made with metal loops.
95C5878—Price, each **\$1.60**
95C5879—Same Strap, but 1 1/4 in. wide. Price, each, for one horse **\$1.90**



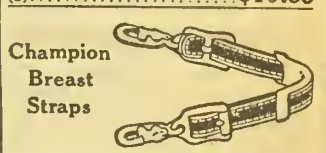
Choke Straps Our best grade, for use with double buggy harness with buckle and billet. Made from best selected leather, either nickel or imitation rubber buckles. Length, 39 in. Width, 3/4 in. Weight, each, 7 oz.
95C5884—Price, each **\$1.20**



Folded Team Bellybands Length, 1 ft. 9 in., with 1 1/4 and 1 1/2 inch buckles on each end.
95C5903—1 1/4 in. Each **\$1.20**
95C5904—1 1/2 in. Each **1.30**
 Weight, 14 oz.
95C5902—For light double harness. Length, 1 ft. 7 in., with 3/4 in. Japan (black) buckles on each end. Weight, 7 oz. Each **\$1.00**



Double Bellybands **95C5909**—For single buggy harness where dee shaft tugs with billets are used. Inside strap, 1 1/2 in., outside strap, 3/4 in., attached together by two leather loops, 3/4-in. imitation rubber buckles on each end. Length, about 23 inches. Weight, each, 10 oz. Each **\$1.45**

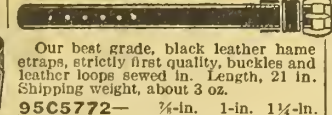


Champion Breast Straps **95C5854**—Width, 1 1/4 in.; length, 2 ft., doubled and stitched, combination buckle and 1-inch lead up on each end and slide in the center. Durable. Only made in one length, width and style. Price, Each **\$1.35**

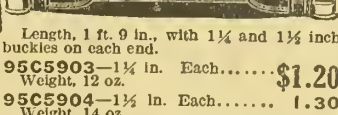
Heavy Breast Straps



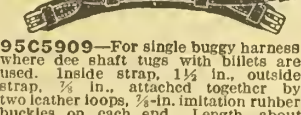
Our best grade, heavy breast strap, reinforced lap where strap attaches to ring on hame, 4 ft. 6 in. long, leather loops. Japan (black) trimmed.



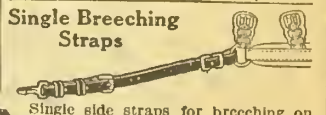
Sewed Hame Straps Our best grade, black leather hame straps, strictly first quality, buckles and leather loops sewed in. Length, 21 in. Shipping weight, about 3 oz.
95C5772—3/4 in. 1-in. 1 1/4 in. Price, each **43c 50c 60c**
95C5777—Hame straps, extra long, black leather; buckles and leather loops sewed in. Length, 27 in. Price, each **53c 60c**



Plow Bellybands Plow Bellyband, single strap, good stock, leather loop on each end to go over chain traces. To buckle on one side. Length, 39 in. Weight, 8 oz.
95C5890—Width, 1 1/4 in. Each **\$1.10**
95C5891—Width, 1 1/2 in. Weight, 9 oz. Each **\$1.35**
95C5892—Width, 1 1/2 inches. Weight, about 16 ounces. Price, each **\$1.55**



Back and hip straps, used in 95C1016 Plow Harness, Back straps are cut to width, 1 1/2 in. Hip straps are 1 1/2 in. with bolt snap to snan into trace chains. Weight, per set, about 5 lbs.
95C5989—For 2 horses. Price **\$8.95**
95C5990—Same style only made 3/4-inch back and hips. Price, per set (2) **\$5.50**

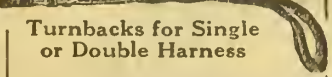


Single Breaching Straps Single side straps for breaching on team harness. Made to reverse into breaching ring and with snap and buckle on other end. Weight, about 15 ounces.
95C6016—1 inch. **\$1.70**
95C6017—1 1/2 inch. Per pair (2) **1.90**

Article Number	Wt. Oz.	Width In.	Price Each
95C5867	12	1 1/2	\$1.55
95C5868	14	1 1/2	1.85
95C5869	16	1 1/2	2.20
95C5870	20	2	2.60

Breast Straps, extra length and extra weight, for lumber harness or heavy Concord harness; cut from No. 1 selected stock. Length, 5 ft. 2 in.

Article Number	Width In.	Wt. Oz.	Price Each
95C5871	1 1/4	14	\$2.15
95C5872	1 1/2	15	2.50
95C5873	2	21	2.95

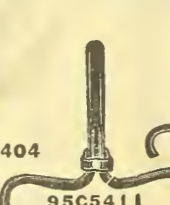


Turnbacks for Single or Double Harness Scalloped and lined, round crupper sewed on; without hip strap. Weight, each, 8 oz.
95C6000—Nickel **\$2.00**
95C6001—Imitation Rubber **2.00**
 Turnbacks or Back Straps with cruppers to buckle on. Weight, each, 9 oz. Each **\$2.35**
95C6002—Nickel **\$2.35**
95C6003—Imitation Rubber **2.35**

A Page of Necessary Harness Accessories



95C5404



95C5406

Blinds and Cheeks
For buggy bridles, 3/8-inch box looped cheeks, first quality square patent leather blinds, with round winker brace sewed in, nickel or imitation rubber buckles. Shipping weight, per pair, 18 ounces.
95C5404—3/8-inch, nickel. \$2.75
Price, per pair for 1 bridle.
95C5405—3/8-inch, imitation rubber. Price, per pair for 1 bridle. 2.75

Winker Stays
For buggy blind bridles, the round parts to be sewed into corners of blinds, flat center piece to crown of bridle. Shipping weight, each, 3 ounces.
95C5406—Price, each. 50c

Team Winker Stays
Heavy for Team or Work Harness. Blind Bridles. Heavy round parts to be sewed into blinds. 3/4 flat billet to buckle in crown. Brass spot in center. Shipping weight, 5 ounces.
95C5411—Price, each. 58c

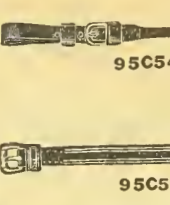


95C5402

Blinds and Cheeks
For team bridle, 3/8-inch short cheek with bit strap and nose band and round winker brace sewed in, a good grade, Japan (black) buckles. Shipping weight, per pair, about 32 ounces.
95C5402—XC (white metal) \$2.60
Per pair for one bridle.
95C5403—Japan (black) 2.60
Per pair for one bridle.

Buggy Bridle Cheeks
Round Bridle Cheeks for Buggy Bridles, black leather 3/8 in., buckles either nickel or imitation rubber. Good quality. Ship. wt., per pair, 6 oz.
95C5422—1 in. Nickel. \$1.45
Price, per pair for 1 bridle.
95C5423—3/4 in. imitation rubber. Price, per pair for 1 bridle. \$1.45

Team Throat Latches
95C5428—Width, 3/4 in., length, 1 1/2 in., black leather XC metal (white) plated buckles on each end. Shipping weight, 4 oz. Price, each. 45c



95C5422

Throat Latches
For buggy bridles. Width, 1/2 in.; length, 1 1/2 in., black leather; either nickel or imitation rubber buckles on each end. Shipping weight, each, 3 oz.
95C5429—Nickel. 43c
Price, each.
95C5430—Imitation Rubber. Price, each. 43c

Team Bridle Cheeks
Wide leaf chafe buckle on one end, buckle and billet on the other end. Japan (Black) trimmed. Made in two sizes. Shipping weight, per pair, about 12 ounces.
95C5416—3/4 in. buckles. \$1.05
Price, per pair (2).
95C5417—3/4 in. buckles. 1.15
Price, per pair (2)

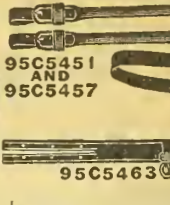


95C5416

Single Over-Check Reins
For buggy bridles with nose band, 3/4 in. back 3 buckles either nickel or imitation rubber. Shipping weight, each, 9 oz.
95C5440—Nickel \$1.75
Trimmed. Price, each.
95C5441—Imitation rubber trimmer. Price, each. 1.75

Buggy Bridle Crowns
Bridle Crowns for buggy bridles, layer on center and overcheck loops, width, 1 1/2 in. in center, length, 24 in. Shipping weight, 5 ounces.
95C5446—Price, each. 75c

Check Reins
Round Side Check Reins 1/2 in. billets, for buggy bridles. Either nickel or imitation rubber buckles. Shipping weight, each, 8 ounces.
95C5451—Nickel \$2.05
Trimmed. Price, each.

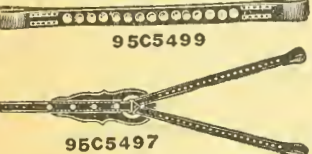


95C5451 AND 95C5457

95C5452—Imitation Rubber. \$2.05
ber. Price, each.
Round Side Check Reins for Farm or Work Bridles
3/4 in. billets. The round parts are 18 in. long on each end of the reins, connected by a flat strap 3/4 in. wide. Shipping weight, each, 14 ounces.

95C5457—XC metal (white) trimmed. Price, each, for one bridle. \$1.98
95C5458—Jap (black) trimmed. Price, each, for one bridle. 1.98

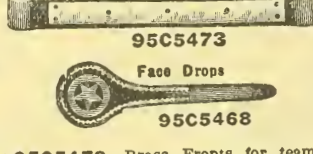
Bridle Crowns
Bridle Crowns for team bridles, 1 1/2 in. bodies, 3/4 in. billets on each end. Total length, 24 in. Shipping weight, 6 ounces.
95C5463—Price, each. 70c



95C5499

Bridle Fronts for Buggy Bridles
95C5499—Width, 3/4 in.; Length, 15 in. Made of Harness leather with brass spots. These fronts are strong and durable. They are made of good grade harness leather and will give excellent service. Wt., 1 1/2 oz. 45c

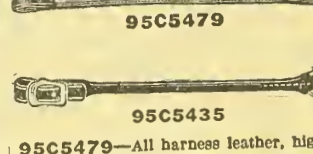
95C5497—3/4-inch billet spotted and 3/8-inch forks thickly spotted and with loops at end, to loop around bridle cheeks, billet and forks sewed into ring and safe under ring. Brass spotted. Price, each. \$1.00



95C5473

Face Drops
95C5468—Brass Fronts for team bridles, solid brass plates securely riveted on the front side. These fronts will give good service and are very ornamental on harness. Total length, 17 in. Weight, 2 1/2 and 3 ounces.
95C5473—Width, 3/8 in. 45c
Price, each.
95C5474—Width, 1 in. 50c
Price, each.
95C5468—Face drops. Made of patent leather with fancy leather binding all around and with 2 3/4 in. brass circle with star center securely attached. Top end is good harness leather. Total length, 15 in. Wt., about 2 oz. 95c

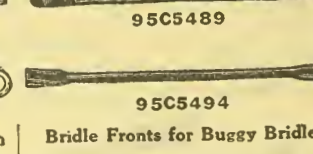
95C5479—All harness leather, high oval raise. Width, 3/4 in., 2 rows imitation stitched. Plain but substantial. Total length, 15 in. Weight, 1 oz. 25c



95C5479

95C5435—Team Rounds only. Without center checks. Length, 18 in. with buckle and billet on one end and ring rounded into other end. Shipping weight, each, 4 oz. 60c

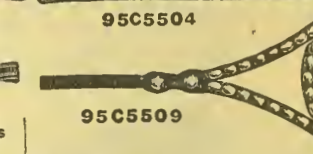
95C5435—Team Rounds only. Without center checks. Length, 18 in. with buckle and billet on one end and ring rounded into other end. Shipping weight, each, 4 oz. 60c



95C5489

95C5489—Bridle Fronts for team bridles, plain black harness leather bridle front, two-ply of leather stitched on each edge, raised in center. Width, 3/4 in. Total length, 16 in., strong and durable article. Weight, each, 2 oz. Each. 35c

95C5494—Bridle Fronts, round leather bridle fronts for either buggy or team bridles, all plain black; solid and durable. Total length, 16 in. Weight, 1 oz. Each. 50c



95C5504

95C5504—Fancy Bridle Fronts for work harness, heavy, strong and very ornamental. These fronts cut, 1 1/2 in., are 17 in. total length, leather loop on each end and 16 large size peanut shaped brass spots. Weight, each, about 3 1/2 ounces. Price, each. 85c

95C5509—Brass Spot Face Pieces for team bridles. Buckles on the center of the bridle crown. Shipping weight, each, about 6 ounces. \$1.10



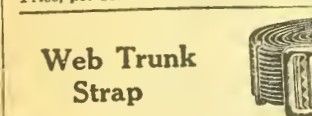
Rope Plow Line

95C5604—Length, 39 feet, with snap on each end to snap in bit. These lines will not kink, and are water-repellent. Lines are for single horse. Shipping weight, about 3 lbs. For single horse line. \$1.50
Price, per set.



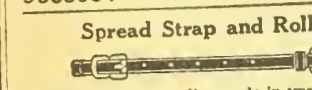
Black Web Team Lines

95C5599—Web Team Lines, made from heavy No. 1 black web. Width, 1 inch and intended for plowing or general farm work. The best quality of this kind of line. Length, 18 feet. Shipping weight, per set, 2 lbs. \$3.30
Price, per set.
95C5600—Same as 95C5599, only heavy 1 1/2 inch x 18 feet. Shipping weight, about 2 1/2 lbs. \$4.00
Price, per set.



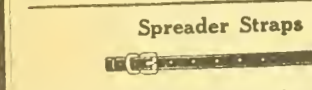
Web Trunk Strap

1 1/2 inches wide, 8 feet long. Heavy brown web with patent buckle, strong, light and durable. Weight, about 14 ounces.
95C5654—Price, each. 85c



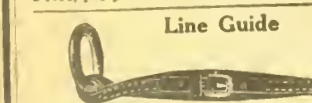
Spread Strap and Roller

The iron part of roller made in two parts which adjust so you can put the line in the roller. With its use a line never becomes twisted. Jap (black) finish.
95C7135—Spread Roller, with 3/4-inch x 2 1/2-inch leather spread strap. Weight, pair, 4 ounces. Price, per pair (2). 70c



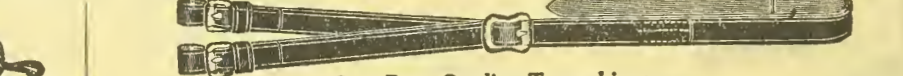
Spreader Straps

95C5614—Black Leather Spreader Strap. Width, 3/4 in.; length, 24 in.; with buckle and metal loop. Weight, about 3 ounces. 38c
Price, per pair (2).
95C5615—Black Leather Spreader Strap. Width, 3/4 in.; length, 24 in.; with buckle and metal loop. Weight, about 3 ounces. 48c
Price, per pair (2).
95C5616—Same as 95C5615 only extra long. 3/4 inch x 36 inches, weight, about 5 ozs. 75c
Price, per pair (2).



Line Guide

Designed by us for the proper control of the lines when driving a single horse. Black leather body with a buckle and billet on the center to buckle over the turnback at the hip strap and with a 1 1/2 in. black rubber ring sewed in on each end. Length, 10 in.
95C6138—Weight, each, 1 1/2 oz. \$1.05
Price, each.



Our Best Quality Team Lines

This grade is cut from first class line leather which is plump and runs even and sound throughout. Full sewed lap, has buckle and billet front ends, with leather loops. Jap (black) buckles. The article numbers indicate length and width.

Article Number	Lines, 1-inch			
	Jap (black)	95C5537	95C5539	95C5541	95C5543
Length, feet	15	18	20	22
Wt., about, lbs.	4 1/2	5 1/2	5 1/2	6
Price, per set	\$8.75	\$10.25	\$11.25	\$12.25

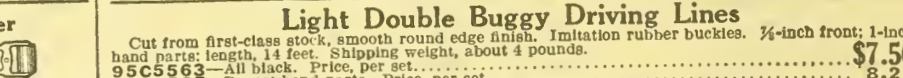
Article Number	Lines, 1 1/2-inch		Lines, 1 1/2-inch			
	Jap (black)	95C5547	95C5549	95C5551	95C5553	95C5555	95C5557
Length, feet	18	20	22	18	20	22
Wt., about, lbs.	5	5 1/2	6	3	6 1/2	6 3/4
Price, per set	\$11.75	\$12.75	\$13.50	\$13.25	\$14.25	\$15.25



Team and Buggy Lines

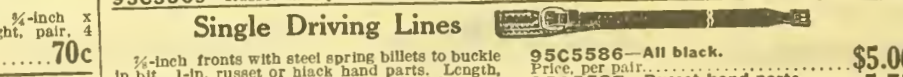
Cut from good stock. Made up with Jap (black) buckles. Has safety buckles on ends and best grade flat spring snaps. Reinforced laps. A good grade line throughout. Sewed laps.

Article No.	Lines, 3/4-inch		Lines, 1-inch		Lines, 1 1/2-inch	
	95C5525	95C5526	95C5527	95C5528	95C5529	95C5530
Length, feet	15	18	15	18	20	18
Wt., lbs.	4	4 1/2	4 1/2	4 1/2	5	5 1/2
Price per set	\$6.50	\$7.50	\$7.95	\$8.95	\$9.75	\$10.10



Light Double Buggy Driving Lines

Cut from first-class stock, smooth round edge finish. Imitation rubber buckles. 3/4-inch front; 1-inch hand parts; length, 14 feet. Shipping weight, about 4 pounds. \$7.50
95C5563—All black. Price, per set. 8.25
95C5565—Russet hand parts. Price, per set.
Same as above only 1-inch fronts and 1 1/2-inch hand parts. Shipping weight, about 4 1/2 pounds. 9.00
95C5567—All black. Price, per set. 9.75
95C5569—Russet hand parts. Price, per set. 9.75



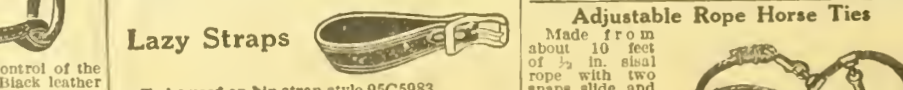
Single Driving Lines

3/4-inch fronts with steel spring billets to buckle in bit. 1-in. russet or black hand parts. Length, about 13 ft. Shipping weight, per pair, 2 lbs.
95C5574—All black. \$4.75
Price, per pair.
95C5575—Russet Hand Parts. Price, 5.25
per pair.
Single Flat Driving Lines, 3/4 in. fronts, with steel spring billets to buckle in bit. 1 1/2 in. hand parts. Either all black leather or black fronts with russet hand parts. Length, about 13 feet. Shipping weight, per pair, about 3 lbs.
95C5586—All black. \$5.00
Price, per pair.
95C5587—Russet hand parts. 5.75
Price, per pair.
Single Flat Driving Lines, 1-in. fronts with steel spring billets to buckle in bit. 1 1/2 in. russet or black hand parts. Length, about 13 ft. Shipping weight, about 3 lbs.
95C5588—All black. \$5.25
Per pair.
95C5589—Russet hand parts. 6.25
Per pair.



Single Express Lines

Heavy Single Express Line, width 1 inch; 13 feet long; all black leather. Japan (black) buckles on front ends. Only one style. Weight, per pair, 3 pounds.
95C5594—Price, per pair. \$4.95



Adjustable Rope Horse Ties

Made from about 10 feet of 3/4 in. sisal rope with two snaps slide and thimble. Wt., each, 13 oz.
95C5645—Price, each. 65c

Buckle and Billet Hitching Straps

Made of first quality black harness leather about 7 ft. long. Buckle and billets sewed.

Art. No.	Width In.	Wt. Oz.	Each
95C5621	3/4	8	\$0.95
95C5622	3/4	9	1.05
95C5623	1	10	1.25
95C5624	1 1/4	12	1.50

Riveted Snap Hitching Straps

Black Harness leather. Length, 7 feet. Best grade flat spring snap riveted on.

Art. No.	Width In.	Weight Ounces	Each
95C5665	3/4	7	\$0.80
95C5666	3/4	8 1/2	.95
95C5667	1	9 1/2	1.05
95C5668	1 1/4	11 1/2	1.28

Web Hitching Straps

95C5670—Best grade Black web; width, 3/4-inch, length, 7 ft. with flat spring snap riveted on. Weight about 6 oz. 38c
Price each.

Latigo Halter Straps

Special Latigo Halter Straps made from a special tanned Latigo leather brown in color and very strong with loop end.

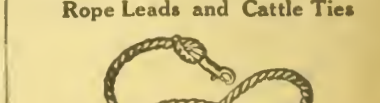
Art. No.	Width In.	Weight Ounces	Each
95C5634	1	7	\$1.00
95C5635	1 1/4	9	1.20

Neck Halters



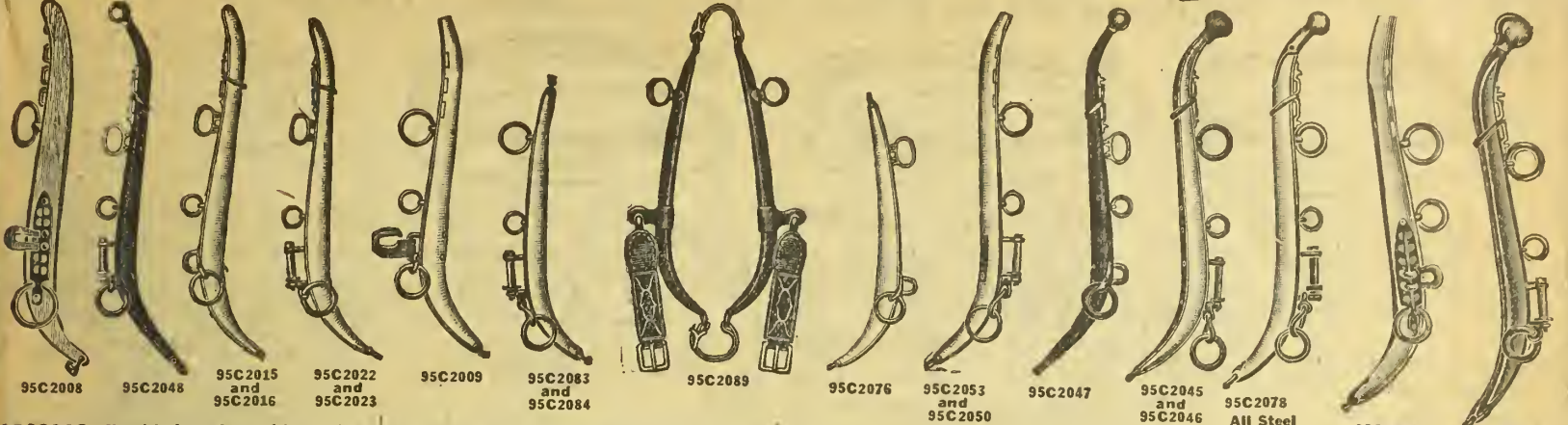
Can be adjusted by buckle to fit any horse's neck.
95C5651—1 1/2 in. neck strap; 1 1/2 in. x 7 ft. tie. Weight, 1 1/2 lbs. \$2.85
Each.
Web Neck Halter, heavy russet web 1 1/2-inch wide, 10 ft. long, 2 snaps. Weight each, about 12 ounces.
95C5653—Price, each. 80c

Rope Leads and Cattle Ties



Made from 3/4-inch sisal rope. Length, about 6 ft. 3 in., with bolt snap clamped on. Weight, each, 6 oz.
95C5629—Price, each. 30c
Adjustable Rope Cattle Ties, made from 8 ft. of 3/4-inch strong sisal rope with one snap and one slide. Weight, each, 8 oz.
95C5640—Price, each. 40c

Hames, Harness, Hardware, Housings and Pads



95C2008—Varnished wood, metal hame strap loop. Adjustable draft, with breast strap ring. Fit collars, 18 to 22 inches. Weight per pair, about 4½ lbs. Price, per pair..... **\$1.45**

95C2009—Oiled Concord heavy wood, hook hames. Heavy steel on back mortised hame strap loops. Weight, per pair, about 4½ lbs. Fits collars, 19 to 23 inches. Price, per pair..... **\$2.30**

95C2015—Iron over top all black wood Hames. Has combination-hame strap loop, and breast ring carried in both bolt and clip. Fit collars 18 to 22 inches. Weight, per pair, about 4½ lbs. Clip Hames, per pair..... **\$1.60**

95C2016—Bolt Hames, per pair..... **1.75**

95C2022—Iron Overtop Hames, painted black with XC metal (white) plate, long clip, or bolt. To fit 18 to 22-in. collars. Weight, per pair, 4½ lbs. Price, per pair..... **\$2.05**

95C2023—For Bolt Hames, per pair..... **2.20**

95C2055—Wood Iron clad, Red bolt hame, like style as 95C2046 Hame, only it has 1½ inch brass ball top made bolt style. Fits collars 19 to 22 inches. Weight, per pair, about 6 lbs. Price, per pair (2)..... **\$3.05**

95C2043—Iron clad, Red, 1½ inch XC white metal) ball top, combination loop. Style like 95C2046 made in clip and bolt draft and will fit collars 19 to 22 inches. Clip style. Price, per pair..... **\$2.50**

95C2044—Bolt style, Price, per pair..... **2.65**

95C2047—Steel Hames, Japanned (Black) with combination hame strap loop. 1½ inch Brass ball only. Fit collars, 18 to 22 inches, made clip and bolt. Weight, per pair, 6 lbs. For Brass Ball Clip Hame. Price, per pair..... **\$3.25**

95C2048—For Brass ball bolt hame. Price, per pair..... **3.40**

95C2087—Same as 95C2047, only Nickel ball top, in clip and bolt style.

95C2087—Clip style. Per pair..... **\$3.35**

95C2088—Bolt style. Per pair..... **3.55**

95C2045—Clip Hames. Steel bound. Red wood hames. 2½-inch Brass Chicago ball balance of trimmings. Black finish. Weight, per pair, about 4½ lbs. Price, per pair, Clip style..... **\$3.42**

95C2046—Bolt style. Price, per pair..... **3.57**

95C2095—Same as 95C2045, only 2½-inch Nickel Chicago ball top in Clip and bolt style.

95C2095—Clip style. Per pair..... **\$3.60**

95C2096—Bolt style. Per pair..... **3.75**

95C2059—Hame. Oiled Concord, heavy wood adjustable draft hames. Mortised loops for hame straps, heavy steel back. Fit collars, 18 to 21 in. Weight, per pair, about 6½ lbs. Price per pair..... **\$2.30**

95C2050—Oiled Concord, heavy wood bolt hames, mortised loop, heavy steel back. Fit collars, 17 to 20 inches. Weight, per pair, about 5 lbs. Price, per pair..... **\$2.20**

95C2053—Same as 95C2050, except to fit collars 18 to 22 inches. Weight, per pair, 5½ lbs. Price, per pair..... **\$2.40**

95C2064—Our Monarch All Steel Hame, 2-inch brass Chicago ball, balance of hame all black. Combination hame strap loop. Made in bolt and clip style. Weight, per pair, about 6 lbs. Clip hame. Price, per pair..... **\$3.75**

95C2065—Bolt hame. Price, per pair..... **3.90**

95C2097—Same as 95C2064, only with 2-inch Nickel Chicago ball, in clip and bolt style.

95C2097—Clip style. Per pair..... **\$3.95**

95C2098—Bolt Style. Per pair..... **4.10**

95C2078—All steel Dandy bolt hame painted Red, Brass dandy ball top and brass line ring and brass plated on the back half way down (known as a long spot trimmed.) An attractive and a very strong hame. Fits collars up to 20 to 22 inches. Weight, per pair (2) about 6 lbs. Price, per pair (2)..... **\$5.25**

We Do Not Break Pairs of Hames

95C2076—Black wood low top Clip Hames, all black trimmings. Sizes, 17 to 21 inches. Weight, per pair, 3¾ lbs. Price, per pair (mention size wanted)..... **\$1.25**

95C2083—Oiled Concord low top, heavy steel bound bolt Hames. Fit collars, 20 to 22 inches. Weight, per pair, about 6 lbs. Price, per pair (mention size wanted)..... **\$2.15**

95C2084—All steel Japanned (Black) finish, low top, bolt Hames. Fit collars, 18 to 20 inches. Weight, per pair, about 6 lbs. Price, per pair (mention size wanted)..... **\$2.25**

95C2085—Same as 95C2084, only Clip style. Per pair..... **\$2.12**

95C2000—Japanned (Black) Iron Buggy Hames, with clips. Sizes 18 to 21 inches. Weight, per pair, 3½ lbs. Price, per pair..... **\$1.00**

95C2089—Iron Hames and Hame Tugs. We use full iron hames with hame straps, and box loop hame tugs; hames, sizes, 17 to 21 inches. Be sure to state size of hames wanted. Weight, per pair, 4 lbs. With full Japanned (black) hames, 1½ in. with Japanned buckles..... **\$3.50**

95C2090—1½-in. Japanned (black) buckles. Per pair..... **\$3.75**

We do not break pairs of hames.

95C6805—Polished Lone Star Hame Ratchets adjustable draft hames. Weight, per set of about 12 ounces. Price, per set of (4)..... **75c**

95C6805—Brass Dandy Hame Tops, opening, inch; length, about 6½ in.; ball, 1½ in. Weight in 8 oz. Price, each..... **75c**

95C6806—Same, nickel plated. Price..... **80c**

95C6807—Solid brass Chicago Hame balls, inches in diameter, can be used on hame like 2045 and 95C2065 and similar hame. Weight 11 ounces. Price, each..... **70c**

95C6809—Same as 95C6807, only Nickel ed. Price, each..... **75c**

All zinc Collar Pads. Highest grade quality. Suitable for all ordinary horse collars. With straps to attach to collar. This is a large size pad. **95C2125**—Weight 8 oz. Price, each..... **50c**

95C6896—Polished Flanged Rollers for bolt hames. 2½ in. over all. Weight, per set, about 12 ounces. Price, per set of (4)..... **35c**

Loops for Adjustable Hames

Malleable iron. Can be used on any adjustable hames. Will fit perfectly. Easy to adjust. Weight, per pair, about 10 oz.

95C6890—Price, per pair..... **25c**

95C6816—Hame Clips. Price does not include rivets. Weight, per dozen, 40 oz. Price, per dozen..... **50c**

95C6821—Hame Staples, with burrs. Made of best quality malleable iron extra heavy. Weight, per dozen, 30 oz. Price, per dozen..... **45c**

95C6826—Common Hame Line Rings. With stubs and burrs for hames like 95C2023. Weight, of four, 6 ounces. Price, per set of (4)..... **25c**

95C6827—Concord Hame Line Rings. 2-inch rings, polished, with studs and burrs, for hame like 95C2050. Weight of set of (4), about 8 ounces. Per set (4)..... **35c**

95C6841—Hayden's Hold Back plates with rings for use on wooden hames, polished finish. Made in rights and lefts and sold in pairs. We do not break pairs. Weight, per pair, about 7 oz. Per pair..... **27c**

Hame Repair Clips.

Made out of sheet steel bent to fit the lower point of our wood hames.

95C6831—Clip without loop. Weight, 11 oz. Per dozen..... **45c**

95C6832—Clip with loop. Weight, 1 lb. 4 oz. Per dozen..... **90c**

95C6834—Screw Hame Bottom Loops. Loop will admit 1 in. strap. Japanned finish. Weight, per dozen, 11 oz. Price for 6..... **32c** For dozen..... **60c**

Iron Hame Rivets

95C6851—Hame Rivets, 1 in. oval head, put up in 1-lb. packages. We do not break packages. Weight, 1 lb. Price, per pkg., 1 lb..... **16c**

95C6899—Polished Hame starts, for bolt hames (threaded) to be used at bottom. Weight, per set of 4, about 12 oz. Price, per set of 4..... **45c**

95C6898—Hame Starts for bolt hames (not threaded), to be used at top. Weight, per set of (4), about 12 oz. Price, per set of (4)..... **45c**

95C6897—Polished threaded Hame bolts, for bolt hames. Length, about 3½ inches. Weight, per set of (4), about 12 oz. Price, per set of (4)..... **35c**

Hair Collar Pads

These pads are both sane and sanitary. Side of hair with rows of stitching, strap on each end. width, 7 in. length, 10 in. Weight, about 2. Price, each..... **45c**

2118—Price, each..... **45c**

Heavy Express Pads

Heavy gray felt mixture pads, to use under heavy saddle on Express harness with straps at each end.

95C6026—Size, 5x20 in. Wt., 8 oz. Each..... **70c**

95C6027—Size, 6x20 in. Wt., 8 oz. Each..... **75c**

95C6028—Size, 7x20 in. Wt., 10 oz. Each..... **85c**

Fancy Felt Gig Sweats

Gig Sweat

To be used under saddles on single or double buggy harness. A hair mixture pad and extra long with straps at each end, and thread whipped all around edge. Size, 4½x18 inches. Weight, about 3 oz. **95C6096**—Each..... **25c**

95C6106—To be used under Saddles of both single and double Buggy Harness. Gray felt mixture with a patent leather top and strap at each end. An extra good pad. Size, 4½x18 inches. Weight, about 4 oz. Price, each..... **35c**

Moeller's Iron Hame Tugs, 2 loop, as used in long tug harness, XC metal (white) plate. 4 lbs. Price, per set of (4)..... \$2.05

95C6811—Size, 1½ in. Weight, per set of (4), 5½ lbs. Price, per set (4)..... **\$2.45**

Swing Back Pad

95C2164—The Patent Swing Back Top Neck Pad. These Pads are made of heavy sole leather perforated in the center, flexible and self-adjusting. The perforated part is clear of the horse. Weight, each, 11 oz. Price, each..... **65c**

Breast Collar Housing

95C6133—Felt Breast Collar Housing with shaped curved or "V" centers and patent leather tops, extra quality. 4 straps on each. Size, 3½x36 in. Wt., each, 7 oz. Each..... **\$1.50**

Large Hame Housings

95C2106—Made of black leather, lined; two rows of stitching all around the edge. Made exactly as shown in illustration. Size, 12x16 in. on each side. Weight, each, 3½ lbs. Price, each, for one horse..... **\$9.75**

Sweat Pad

A High Grade Pad

Made of long staple wool, carried through double bur-lap by slender needles thus perforating the fabric and making a durable and sanitary pad, about 10 inches wide, 4 hooks. Sizes, 18 to 25 inches. Weight, about 12 ounces. **95C2153**—Price each..... **70c**

Collar Pad

95C2159—Wool Sheep Skin Collar Pads, made of heavy harness leather lined with wool skin, tanned with wool oil. Width, 6 in.; length, 12 in. two ¾-in. straps, length, 18 in. to buckle around collar. Weight, each, 7 oz. Price, each..... **\$1.05**

Hair Gig and Express Housings

Made of hair with four rows stitching and strap on each end, securely riveted with two rivets so they cannot pull out. Made in two sizes.

95C6118—4½ x 18 inches. Weight, each, 6 oz. Price each..... **42c**

Heavy Hair Express Housings. Made same as 95C6118 only heavy and wide for Express Harness Saddles. Weight, about 15 ounces.

95C6040—6x20 in. Price, each..... **52c**

95C6041—7x20 in. Price, each..... **59c**

Fancy Housing

95C6123—H a s buckle and billet at each end, to hold it to Gig Saddle or Coach Pad. Made of black patent leather with shape tops and large rolls with black binding on each edge, fine felt bottoms. This makes a very fine housing for either single or double buggy harness. Size, 4½x16 in. Weight, each, 8 oz. Price, each..... **\$1.20**

Yellow Sweat Pad

95C2145—Extra good quality. All old gold, about 12 inches across draft; 4 hooks, 5 rows quilting stuffed with composite stuffing. Wt., each, about 2½ lbs. Sizes, 18, 19, 20 in. Price, each..... **75c**

Sizes, 21 and 22 in. Price, each..... **80c**

Sizes, 23, 24, 25 in. Price, each..... **85c**

Sole Leather Top Pads

95C2132—The best quality heavy dressed sole leather top collar pad, to use under heavy collars with metal plate to center and two straps. This is large size pad. Weight, about 5 ounces. Price, each..... **45c**

Large Collar Housings

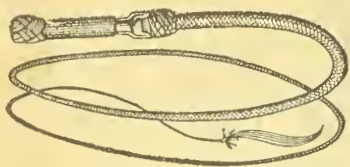
95C2112—Large Brass Trimmed Collar Housings for heavy dray collars. Made of heavy harness leather with large brass spots around edge. Size, 8½x14 in. Weight, each, about 12 oz. Price, each..... **\$2.50**

Order Sweat Pads 1 inch longer than your collars.

Order Sweat Pads 1 inch longer than your collars.

Riding and Driving Whips of Lasting Quality

And Harness Oils and Dressings to Keep Your Harness in Condition

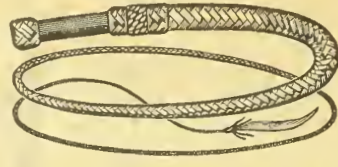


Drovers' Whip

Good Quality whip at a popular price

Our new shot loaded, 12-plait, russet latigo tanned calf leather, patent tip top, solid brass nickel-plated revolving handle, leather covered, white buck point. Two leather buttons, back snap.

95C8831—Length, 6 ft. Wt., 20 oz.	\$4.20
95C8832—Length, 8 ft. Wt., 25 oz.	
Price, each	\$4.75
95C8833—Length, 10 ft. Weight, 30 oz.	
Price, each	\$5.20
95C8834—Length, 12 ft. Weight, 40 oz.	
Price, each	\$5.65
95C8835—Length, 14 ft. Weight, 54 oz.	
Price, each	\$6.15
95C8837—Same whip as 95C8831, only made 8-plait. Length, 10 ft. Weight, about 30 oz. Price, each	\$4.35
95C8838—Length, 12 ft. Weight, about 40 oz. Price, each	\$4.75
95C8839—Length, 14 ft. Weight, about 54 oz. Price, each	\$5.25



Patent Drovers' or Cattle Whip

Jacksonville Drovers Whips, solid leather center, with a patent unbreakable steel revolving handle, 8-plait latigo tanned leather, heavy white French calf, 4-plait point, heavy double white leather interlaced button and buck snap. Lacing at the handle. California style.

Article No.	95C8785	95C8786
Length.....	10 ft.	12 ft.
Weight.....	24 oz.	28 oz.
Price, each.....	\$3.20	\$3.60

Jacksonville Drovers Whips, shot loaded center, with a patent unbreakable steel revolving handle, 8-plait latigo tanned leather, heavy white French calf, 4-plait point, heavy double white leather interlaced at the handle. California style, leather button and buck snap.

Article No.	95C8787	95C8788
Length.....	10 ft.	12 ft.
Weight.....	30 oz.	32 oz.
Price, each.....	\$3.75	\$4.15



Boys' Drover Whips, solid leather center, 6-plait rawhide, leather button, revolving handle. California style.

Art. No.	95C8797	95C8798	95C8799
Length.....	6 ft.	7 ft.	8 ft.
Weight.....	12 oz.	14 oz.	17 oz.
Price, each.....	\$1.15	\$1.35	\$1.50

Drover or Cattle Whips

Solid leather center, Jacksonville knot, 8-plait kip leather, white calf point, revolving wood handle. California style, leather button and snap.

Art. No.	95C8804	95C8805
Length.....	9 ft.	10 ft.
Weight.....	16 oz.	17 oz.
Price, each.....	\$2.20	\$2.70

Drover Whips, solid leather center, Jacksonville knot, 8-plait latigo leather, white French calf point, revolving wood handle. California style, leather button and buck snap.

Art. No.	95C8806	95C8807
Length.....	10 ft.	12 ft.
Weight.....	27 oz.	21 oz.
Price, each.....	\$2.75	\$3.10

Drover Whips, shot loaded center, Jacksonville knot, 8-plait latigo leather, white French calf point revolving handle. California style, leather button and buck snap.

Art. No.	95C8808	95C8809
Length.....	10 ft.	12 ft.
Weight.....	23 oz.	27 oz.
Price, each.....	\$3.10	\$3.50

Patent Australian Style Drover or Cattle Whip

Fine 12-plait latigo leather, buckskin point, shot loaded center, with an unbreakable patent steel revolving leather covered handle, white buck point and snap, fine hand made long button and heavy large head button.

Article No.	95C8814	95C8815
Length.....	10 ft.	12 ft.
Weight.....	30 oz.	33 oz.
Price, each.....	\$4.75	\$5.25

Fine 12-plait specially tanned drum head rawhide, shot loaded center, patent solid steel revolving leather covered handle, white buck point and snap, fine hand made long button and heavy large head button.

Article No.	95C8816	95C8817
Length.....	10 ft.	12 ft.
Weight.....	29 oz.	35 oz.
Price, each.....	\$5.70	\$6.20

Whip Lashes

Rawhide Whip Lashes, weigh from 3 to 6 oz. each. 4-plait. Made from the oiled finished rawhide, soft and pliable, but very tough.

95C8771—Length, 4 ft.	30c
Price, each.....	
95C8772—Length, 5 ft.	36c
Price, each.....	
95C8773—Length, 6 ft.	42c
Price, each.....	

Whip Crackers

We do not break dozens.

95C8765—Whip Crackers, half silk, half cotton, length, 7 in. Per dozen.....

35c

95C8766—Whip Crackers, all silk best quality, length, 7 in. Per dozen.....

50c

Weight, per dozen, about 1 oz.

Leather Covered Wagon Whips



95C8745—Leather Covered Team Whips, half-rawhide center russet leather cover; white horsehide tops. Length, 7 ft. Ship. wt., 2 1/2 lbs. Each.....

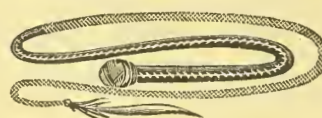
\$1.60

95C8746—All leather Express Whips, solid shot loaded rawhide, russet leather covers, buckskin stitched, length, 8 ft. Ship. wt., 2 lbs. Each.....

\$2.40

95C8747—Extra quality Wagon Whips. Heavy rawhide center stocked Java body, covered with 6-plait drum rawhide. Length, 7 1/2 ft. Ship. wt., each, 2 lbs. Each.....

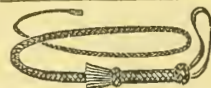
\$2.65



Shot Loaded Mule Whip

The genuine Mule Skinners. The real Western Style Mule Whip, made of double cover latigo leather, for one-half length, the other half being 8-plait buckskin. The body is buck stitched by hand, shot loaded, finished with head button.

Article No.	95C8828	95C8829
Length.....	6 1/2 ft.	7 1/2 ft.
Weight.....	21 oz.	29 oz.
Price, each.....	\$3.30	\$3.80



Stallion Whips

95C8759—All-Leather Stallion Whips, with solid leather center and covered with 6-plait oil tanned white horsehide with oiled finish Boston snap, two buttons and wrill; length, 4 1/2 ft. Ship. wt., 12 oz. Each.....

\$1.00



Team Whips

Body, solid leather with steel spike in center of handle, leather stitched handle, plated with patent drum, rawhide entire length, buck snap, leather loop.

Article No.	Lgth.	Weight	Price Ea.
95C8752	5 ft.	16 oz.	\$1.25
95C8753	6 ft.	17 oz.	1.55
95C8754	7 ft.	18 oz.	1.90

Riding Quirts



Riding Quirts. Fine 6-plait, braided calfskin, shot loaded, two tassels. Length of body, 18 inches; total length of quirt, 31 inches, weight, 10 oz.

95C3915—Each.....

\$1.25

Shot loaded, double cover, fine 16-plait leather, 3 leather buttons and loop. Length of body, 20 inches; total length of quirt, 36 inches. Weight, about 10 oz.

95C3908—

Each.....

\$3.05

Our new shot loaded quirt, double cover, 12-plait French calf, white and russet checked handle and striped 3 leather buttons and loop handle. Length of body, 20 inches; total length of quirt, 36 inches. Weight, each, about 12 oz.

95C3925—Each.....

\$2.25



White Calfskin Riding Quirts

Extra fine quality and finish, 12-plait fine white calfskin, shot loaded, two tassels and three buttons, all hand braided. Length of body, 20 inches; total length of quirt, 36 inches. Weight, each, 12 oz.

95C3920—

Each.....

\$2.80



Plain Leather Quirts

Riding Quirts. Best oiled leather cover, buckskin stitched, two tassels shot loaded. Length of body, 18 inches; total length of quirt, 31 inches. Weight, each, 10 oz.

95C3910—Each.....

\$1.05



Rawhide Center Riding Whip

Fair thread cover, 6-plait maroon and white handle, japanned cap, half silk snap, satin finish. Length, 3 ft. Weight, 2 oz. A very inexpensive whip that will give good service.

95C3905—Each.....

65c

Our Best Grade Whip Lashes

Six-plait genuine white buckskin lash, California style, silk snap. Weight, 12 to 14 oz.

95C8767—Length, 10 feet. Price, each.....

\$2.35

95C8768—Length, 14 feet. Price, each.....

\$3.65

Horse Hide Whip Lashes

A good grade whip lash, 4-plait, white horse hide leather, with thread cracker. Weight from 10 to 12 oz.

95C8769—10 foot length. Price, each.....

\$0.85

95C8770—12 foot length. Price, each.....

1.00

Harness Oil Blacking



95C8344—Reliable Harness Oil Blacking. A combination of Neatsfoot and other oils. A superior product for softening and preserving leather. Is jet black and the black will not smut or settle. In 1-quart cans. Wt., per can, about 2 1/2 lbs. Each.....

50c

Reliable Oil Neatsfoot Compound

95C8300—Specially prepared in our Laboratory for use on harness, saddles, fly nets, boots, shoes and all articles of leather. This oil is of high quality and very superior merit. In 1-quart cans. Weight, per can, 2 1/2 lbs. Price per can.....

60c



Improved Circle Brand Harness Oil



Keeps leather soft and pliable. Contains only highest grade stock, properly compounded. The addition of Neatsfoot and Kid Oil keeps leather soft and pliable, and entirely water-proof. Used to good advantage on any similar leather surfaces exposed to weather and hard usage.

95C8331—1/2-gal. cans. Wt., 4 1/2 lbs. Price, per can.....

65c

95C8332—One-gallon cans. Wt., 8 1/2 lbs. Price, per can.....

90c

95C8333—Five-gallon cans. Wt., 43 lbs. Price, per can.....

\$3.40

Miller's Harness Soap



95C8310—This is the most popular Harness Soap ever offered to the buying public. Weight, per cake, 12 oz. Price, per cake.....

42c

Reliable Harness Soap



A strictly first class article that oils, softens, preserves and beautifies the harness. It is jet black and the only Soap Dressing that will not sink or mold.

95C8315—1-lb. box. Ship. wt., 1 1/4 lbs. Price, each.....

40c

95C8316—2 1/2-lb. box. Shipping weight, 3 lbs. Price, each.....

65c

95C8317—5-lb. box. Shipping weight, 6 lbs. Price, each.....

\$1.10

Reliable Metal Polish



95C8349—For cleaning and polishing brass, copper, nickel, zinc, tin, silver and gold, such as brass signs, railings, harness trimmings, show cases and all household articles. Does not leave deposits in corners and crevices, nor will it stain or deface woodwork or other material with which it comes in contact. Will not scratch. Pleasant odor and does not contain acids or anything injurious to metal or hands. Put up in 1-pint cans. Weight, 17 oz. Each.....

35c

Harness Dressing

95C8337—Frank Miller's Harness Dressing for harness, saddles, fly nets, etc. Gives a beautiful finish, does not lose lustre. Directions on every can. This preparation has been on the market for years, and has always given satisfaction.

Pint cans, each.....

50c

95C8338—Quart cans. Each.....

90c

Weight, each, about 2 1/2 lbs.

Hoof Oil

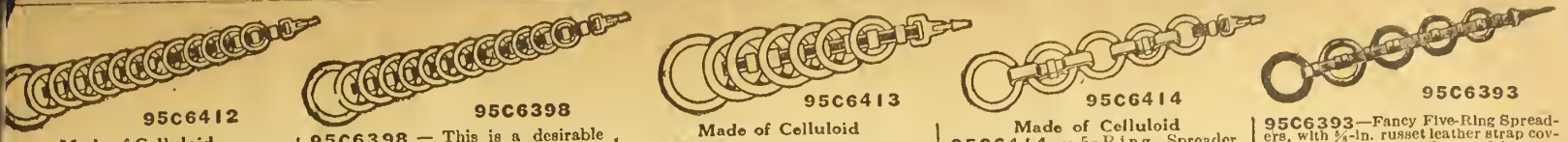
Standard Hoof Oil. A reliable preparation for softening the hoof, thus preserving a healthy condition of the feet. It is specially effective in healing barb wire scratches, cuts, wounds galls, and for thrush or foot rot.

95C8325—1/2-gallon can. Weight, 4 1/2 lbs. Price, each.....

75c

95C8326—1-gallon cans. Weight, 8 1/2 lbs. Price, each.....

\$1.00



95C6412
Made of Celluloid
95C6412—All white rings made of celluloid, 13 rings graduated from 1/4 inch at the end to 1 1/4 in. next to top; on 1/2 inch black strap and 13 white celluloid loops with black snap. Length about 20 inches over all. Weight, each about 14 oz. Price, each **\$3.12**

95C6398 — This is a desirable sort of ornament. Red, Blue, White assorted duranoid ring spreader. Duranoid rings are made of a composition with iron ring in center; length over all about 16 inches. Weight, about 12 ounces. Price, each **\$1.25**

Made of Celluloid
95C6413—All White 7-Ring Spreader, 7 loops on 1/2-in. black strap, with snap on end. Lgth. overall, 14 in. Wt., ea., abt. 10 oz. Price ea. **\$1.80**
95C6415—Spreader, same as above, only with fifteen 1 1/4-in. celluloid rings and bottom ring 1 1/2 in. Wt., each, about 19 oz. Price, each **\$3.05**

Made of Celluloid
95C6414 — 5-Ring Spreader. Looped together with extended loops, with strap and snap on end. Length, over all, 15 inches. Weight, about 8 ounces. A dependable piece of harness in every respect and priced very low considering the quality. Price, each **\$1.50**

95C6393—Fancy Five-Ring Spreaders, with 1/2-in. russet leather strap covered with strip of sheet brass. Rings are red, blue and white. They taper in size toward the snap. The larger ring is 2 in. inside diameter, the smaller 1 1/4 in. Duranoid rings are used. Eleven brass slide loops on each. Extreme length, 16 inches. Weight, each, 7 oz. Price, each **\$1.20**

95C6368—An ornament for the bridle that has proved very popular. Our Fancy glass rosettes, with glass center and metal rim. Diameter, 1 1/2-in. Weight, per pair, about 2 ounces. Price, about 25c

Center Rings with Fancy Drop
95C6434—Fancy Center Line Rings with drops. Made of heavy black patent leather with fancy leather binding all around and with 2 1/2-in. brass heart center securely attached; white Duranoid ring. Entire length, 7 1/4 in. Weight, about 3 oz. Price, each **69c**

Black Rubber Rosettes
95C6358 — Black Terraloid Bridle Rosettes commonly called rubber; neat appearing and nothing to soil or tarnish; requires no cleaning. Diameter, 1 1/4 in. Weight per pair, 1 oz. Price, each **12c**

95C6388—New Brass Spreaders, 1/2-inch black strap, with four solid brass discs, raised-center with snap and large white Celluloid ring on ends. Brass slide loops. Length, 12 inches. Weight, about 5 oz. Price, each **98c**

Made of Celluloid
95C6404—With Bright Red leather strap, 4 white celluloid loops and three small and one large white celluloid rings. Length over all, 9 inches. Weight, each, 3 ounces. An attractive piece of decoration that catches the eye. Price, each **95c**

Brass Rosettes
95C6373—These 2 1/2 inch Brass Rosettes are a commendable sort of ornament. They are extra heavy and best quality, polished oval face or Team Bridles. Wt., per pair, 3 oz. Price, per pair **25c**

Glass Initial Rosettes
95C6363—Initial Rosettes, for Bridles, clear crystal face, gilt, scalloped and black letters, any letter in the alphabet one letter on each rosette. Be sure to mention the letter desired. Diameter, 1 1/2 inches. We do not break pairs. Weight, per pair, 2 ounces. Per pair **35c**

95C6378 — 2 1/2 in. Brass, extra heavy and extra good quality team bridle rosettes, oval face with double dome in center. Weight, per pair, abt. 2 ounces. Price, per pair **30c**

95C6383—New Brass Disc Spreaders, 1/2 inch heavy leather strap with four solid brass discs, and large white Celluloid ring on ends. Discs are held in place by brass slide loops. Weight, about 5 oz. Price, each **95c**

Made of Celluloid
 Made same as 95C6404 only longer.
95C6406—A spreader that is sure to please everybody is this one with a Bright, Red Leather Strap, with 6 white celluloid loops and five small and one large white celluloid rings. Length, 12 in. Weight, each, 3 1/2 ounces. Price, each **\$1.40**

Fancy Hip Spreaders
95C6444—Made of harness leather, double and stitched, with one row of round spots. White Duranoid ring on lower end and a black snap on upper end to snap on ring of hip. Length of leather part, 9 in. Weight, each, 6 oz. This is an item that has pleased many of our customers. Price, each **95c**

95C7541 — Overcheck Bits, finely nickel-plated. To be used as a separate bit on overdraw check reins. Although very inexpensive these bits are of a good quality. Wt., each, 1 1/4 oz. Price, each **12c**

95C7590 — Fine English Steel Curb Chalus, nickel finish; length, 8 1/2 inches, with steel hooks on each end. Can be used on coach bit 95C7565 or any other style you may desire. It is well made and neatly finished. Ship. wt., each, 3 oz. Each **60c**

95C6435 — These White Celluloid Center rings, with white celluloid heart, with red center are unique as harness decorations. The Heart is 4 1/2 by 4 in. The diameter of ring, is 3 in. Wt., about 2 oz. Price, each ... **70c**

95C6411—Celluloid Spreaders composed of 3 solid celluloid rings, interlocked, assorted fancy colors. Weight, per string 1 1/2 oz. A brilliant and attractive ornament which we recommend. Per string **85c**

The Bit Your Horse Needs



You'll Find on This Page

95C3750 — Hand Forged Steel Ranch Bit. Extra strong with heavy cheeks, heavy mouth bar with port and large rings in cheeks for bridle. Mouth bar length, 5 in. fine blued finish. Weight each, 12 oz. A bit that will do good service. Price, each **\$1.80**

95C3760 — Indian Chief Riding Bit. Made for high spirited horses. Solid gun metal cheeks, ornamented with fine silver medallion Indian heads. Five-inch mouth bar, with long port and brass roller. Weight, 18 ounces. Each **\$4.20**

95C3775—This is our New All Western Star Riding Bit. Solid gun metal cheeks, ornamented with fine silver star medallion. Five-inch steel mouth bar; long port, with brass roller. Weight, 18 oz. Each **\$4.25**

95C3725—U. S. Regulation. Made of wrought steel. Used for single rein cavalry bridles. Length of cheeks, 8 in., length of mouth bar, 5 in., only one size or shape. Weight, 20 oz. Fine blued finish. Each **\$3.40**

The Cowboy's Pride
95C3765 — X C (white) metal plated Cowboys' Curb Bits, with roller and rein chains. This is a good bit for such a low price and will give unlimited satisfaction. Weight, 18 ounces. Each **\$1.40**

95C3770 — Patent Leg Pattern, nickel plated and engraved finish. Double link rein chains with swivels on one end and "S" rings on the other end for bridle reins. Mouth bar 5 in. long, brass roller in port. Made from high-grade malleable steel. Wt. abt. 20 oz. Ea. **\$4.30**

95C3755 — Hand Forged Steel Cowboy Bit. Cheeks strong, large rings on the upper ends, large loose rings on the lower ends. Mouth bar length, 5 inch, and has a V-shaped port in the center. Fine burnished finish. Wt., each, 16 oz. Each **\$2.45**

95C3740 — Mexican Short Cheek Port Bits, nickel plated and chased. Heavy port mouth bar. Made for dry and warm climates. Weight, each, 10 ounces. Each **\$1.35**

95C3735 — Fine Nickel-plated Texas Port Bits, small copper roller on port bar. Large rings for bridle straps. Weight each, 10 oz. For southern use. Each **98c**

95C3720 — English two-ring riding hits for use on single rein riding bridles. Short port, finely nickel plated. Weight, 9 oz. Any horseman will like this. Each **\$1.30**

95C3715—Kentucky Racking Bits. Heavy mouth bar with short port, solid bottom bar to prevent the cheeks from spreading. Nickel plated finish. Wt., each about 10 oz. Each **\$1.35**

95C3716—A bit for a hardmouthed horse or mule. It is jointed and known as a saw bit XC (White Metal) finish. Weight, each, 12 oz. For breaking horses. Price, each **68c**

Globe Port Bit
95C3745—Our new style Malleable Western riding bit, a well known style, has large rings, no roller on port, finely nickel plated. Wt., 9 oz. Each **68c**

The Buckeye Bit
95C7560—A standard bit and a favorite for the past twenty-five years. Fine XC (white) metal, plain finish. Made in one standard size. Weight, each, 13 oz. Each **70c**

95C7555 — Rockwell Bridle Bits, jointed mouth, XC (white) metal, plate finish. Wt., 10 3/4 oz. each. Each **43c**

95C7518—For pullers and vicious horses it is unexcelled. Fine XC (white) metal plate. Weight, 12 oz. Each **42c**

95C7530—The most practical, humane and safest driving bit in the market. Used either as safe or ordinary bit; XC (white) metal plate. Wt., 16 oz. Each **95c**

Springsteen's Bit
95C7535 — X C (white) metal plated. In this bit there is comfort and control; it is a positive prevention for the worst side-puller. Wt., 17 1/2 oz. Each **\$1.60**
 Very desirable from every standpoint.

95C7500 — Stiff mouth, 2 1/2-inch rings, 6-inch mouth bar, heavy for work harness. XC (tinued). Weight, each 10 1/2 oz. Price, each **15c**

95C7510—Nickel plated, heavy stiff mouth. Wt., 7 1/2 oz. Each **30c**

95C7570 — Flexible rubber mouth driving hits, nickel plated, half check snaffles. Weight, each, 8 oz. Each **70c**

95C7545 — Single Twisted Wire Bits, jointed mouth, 2 1/2-in. rings, XC (white) metal, plated. Wt., 6 oz. Each **25c**

95C7547 — Double Twisted Wire Bits, jointed mouth, half check snaffles. XC (white) metal, plated. It is a strong, well made, neatly finished bit. Weight, each, 7 oz. Price, each **35c**

Wilson's 4-Ring Bits
95C7550—Outside rings, 2 1/2 in.; inside rings, 1 1/2 in. Fine XC (white) metal, plated. Wt., 10 oz. each. Each **42c**

Repair Parts That Are Frequently Needed

Eastern Style Hook Heel Chains	Snap Heel Chains	Heel Chains	Round Wire Halter Chains	Flat Link Halter Chains																																							
 <p>Swivel and Screw Dee Hook End Heel Chains. 6 links 5/16-inch wire. Made in three sizes. Can be used on any team or express trace.</p> <p>95C6865—Size of Dee, 1 1/2 inches. Ship. wt., 5 1/2 lbs. Price, per set of 4..... \$1.50</p> <p>95C6866—Size of Dee, 1 3/4 inches. Ship. wt., 5 1/2 lbs. Price, per set of 4..... \$1.55</p> <p>95C6867—Size of Dee, 2 inches. Ship. wt., 5 3/4 lbs. Price, per set of 4..... \$1.60</p>	 <p>Made of 3/8-in. wire, 4 links, with snap, about 15 in. Can be used either for repair or for lengthening traces. You will find the snap a great convenience and time saver.</p> <p>95C6868—Weight, per set, about 5 lbs. 4 oz. Price, per set (4)..... \$1.30</p>	 <p>With Swivels and Screw Dees. Can be used either for repair work or for new work on team traces. Six links, swivel and screw dee, 5/16-inch wire, made in three sizes.</p> <p>95C6861—Size, 1 1/2 in. Weight, 5 lbs. Price, per set (4)..... \$1.35</p> <p>95C6862—Size, 1 3/4 in. Weight, 5 lbs. 2 oz. Price, per set (4)..... \$1.40</p> <p>95C6863—Size, 2 in. Weight, 5 lbs. 4 oz. Price, per set (4)..... \$1.45</p>	 <p>Uniformly made of hard steel wire. A strong, safe chain at a low price.</p> <table border="1"> <tr> <th>Give Art. Number</th> <th>95C5045</th> <th>95C5048</th> </tr> <tr> <td>Medium Wire</td> <td>Medium Wire</td> <td>Medium Wire</td> </tr> <tr> <td>Length, feet.</td> <td>4 1/2</td> <td>6</td> </tr> <tr> <td>Size.</td> <td>00</td> <td>00</td> </tr> <tr> <td>Gauge.</td> <td>10</td> <td>10</td> </tr> <tr> <td>Weight.</td> <td>14 oz.</td> <td>20 oz.</td> </tr> <tr> <td>Each</td> <td>30c</td> <td>37c</td> </tr> </table>	Give Art. Number	95C5045	95C5048	Medium Wire	Medium Wire	Medium Wire	Length, feet.	4 1/2	6	Size.	00	00	Gauge.	10	10	Weight.	14 oz.	20 oz.	Each	30c	37c	 <p>Bright finish, steel chain, welded steel links, like safety chain, very strong.</p> <table border="1"> <tr> <th>Give Art. Number</th> <th>95C5051</th> <th>95C5052</th> </tr> <tr> <td>Length, feet</td> <td>4 1/2</td> <td>6</td> </tr> <tr> <td>Size.</td> <td>00</td> <td>00</td> </tr> <tr> <td>Links</td> <td>1 1/2 x 1/2</td> <td>1 1/2 x 1/2</td> </tr> <tr> <td>Weight.</td> <td>14 oz.</td> <td>15 oz.</td> </tr> <tr> <td>Each</td> <td>48c</td> <td>60c</td> </tr> </table>	Give Art. Number	95C5051	95C5052	Length, feet	4 1/2	6	Size.	00	00	Links	1 1/2 x 1/2	1 1/2 x 1/2	Weight.	14 oz.	15 oz.	Each	48c	60c
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Each	48c	60c																																									

Success Hame Fasteners



95C6856—Stronger and more easily adjusted than any other hame strap or patent fastener. Place the heavy end into the loop of the hame and hammer down the hook so that the fastener cannot become detached. Weight, each 12 ounces. Each..... **45c**

Lumber Style Butt Chain



95C6875—Lumber style trace butt chains, 36 inches long, 5/8 inch wire swivel and with ring at end. Weight, per set of 4, about 9 1/2 pounds. Price per set of (4)..... **\$2.25**

Trace Chains



95C6873—Medium weight, bright finish trace chains, made from the very best material, and known as 7-8-2—meaning, 7 feet long, 8 links to the foot and number 2 wire which is 1/4 inch. Weight, per pair, 6 lbs. Price, per pair (for one horse)..... **\$1.20**


95C6874—Extra heavy, bright finish trace chains, made from the very best material, and known as 7-8-0—meaning 7 ft. long, 8 links to the foot and number 0 wire, which is 5/8 inch. Weight, per pair, 10 lbs. Price, per pair (for one horse)..... **\$2.00**

Breast Chains



95C6879—Bright Breast Chains, with "Ts" or toggles on each end. These chains are very serviceable, very convenient and very cheap. Made of twisted link chain, size 3/4 in iron, with bright polished finish. Length, 26 inches. Weight, per pair, 2 lbs. 10 oz. Per pair (2)..... **90c**

Jointed Concord Clips



Concord Clip attachment for bolt hame so you can clip the trace and have a joint at the hame. Is made in sizes as follows: Sizes are for hame bolt; end that attaches to trace is standard width. Malleable iron. Jap. (Black) finish.

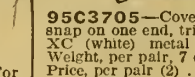
Article Number	Width where attached to Hame	Weight	Price Each
95C7329	2 in.	12 oz.	33c
95C7330	2 1/2 in.	12 1/2 oz.	38c

Trace Splicers



95C7165—Malleable Iron Jap. (Black). For mending traces. For traces of buggy, express or farm harness. Weight, per dozen, 1 lb. 2 oz. 48c Per dozen..... **25c**

Adjustable Breast Chain



95C6888—Superior quality made of refined malleable iron non-breakable. Imitation rubber finish and brass tongues on snaps. Length, 32 inches, including snaps. Wt., per pair, about 4 lbs. 5 oz. Price, per pair..... **\$2.00**

Check Rein Spring



The illustration shows a spring which is intended to take the jar off the check rein and not break the check book; can be used on side check bridles, as well as overcheck bridles. Made in one size only, japanned (black) finish. Weight, each, 1 1/2 ounces. **95C7352**—Price, each..... **30c**

Patented Clip Cockey



95C7197—Made of the best malleable iron, Jap. (Black). 1 1/2 inch high-grade, clip cockey. Made to fit any trace. Weight, per set, about 23 ounces. Price, per set of (4)..... **45c**

Trace Splicer




95C7170—Joint Trace Splicer for the rapid splicing of farm traces. Ninety-five per cent of the traces that break are broken in the buckle hole. These splicers are intended to repair such traces. Polished malleable iron. Insert malleable end toward heel of trace. Weight, per dozen, 1 lb. 8 oz. Price, each..... **8c** Price, per dozen..... **92c**

Knee Caps



Russet leather, lined with good felt, not bound Weight, about 10 ounces. **95C6260**—Price, per pair..... **\$3.50**


Gag Runners



Malleable iron. Japan (black) finish. To be attached to the billets on the crowns of bridles for side check reins to pass through.

Article Number	Sizes	Wt., per Doz.	Price per Set (4)
95C7368	3/4 in.	1 lb.	18c
95C7369	3/4 in.	1 lb.	20c

Jointed Concord Clips



95C7331—Jointed Concord Clips for use on bolt traces, style our 95C-5741, the clevis which goes into the trace can be used on 1 1/2 in., 1 3/4 in. or 2 in. trace. Weight, per set of (4), about 3 pounds. Price, per set of (4)..... **\$2.00**

Breast Strap Slides



Japanned (Black) iron, to use on breast straps of team harness. A very satisfactory slide.

Article Number	Sizes	Weight Each	Price Each	Price Dozen
95C7147	1 1/2 in.	6 oz.	8c	\$0.95
95C7148	1 3/4 in.	6 1/2 oz.	9c	1.05
95C7149	2 in.	7 oz.	11c	1.20

Ankle Boots



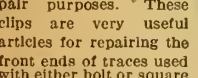
95C6312—Ankle Boots can be used on either front or hind ankles. Heavy leather shield, kersey lining and warp, 2 straps. Weight, per pair, 6 ounces. Price, per pair..... **\$1.15**

Spread Strap Roller



The iron part of roller made in two parts, which adjust so you can put the line in the roller. With its use a line never becomes twisted, but is held in proper shape. Jap. (black) finish. **95C7134**—Spread Strap Roller, without strap. Weight, per pair, 3 ounces. Price, per pair..... **18c**

Straight Concord Clips



Concord clips for repair purposes. These clips are very useful articles for repairing the front ends of traces used with either holt or square staple hames, or the heel ends of any traces. Japanned (Black) finish. Malleable iron.

Article Number	Size Inches	Weight Each	Price Each
95C7311	1 1/2	5 oz.	10c
95C7312	1 3/4	5 oz.	12c
95C7313	2	6 oz.	14c
95C7314	2 1/4	7 oz.	16c

Drop Check Hooks



To rivet on back bands, made of malleable iron, with hinge. **95C7357**—Japan (black) finish. Weight, 3 ounces. Price, each..... **17c**

Quarter Boot



95C6317—Quarter Boots, strictly first quality, close fitting, protects inside of pastern, 3 straps, small, medium or large. Shipping weight, per pair, 16 ounces. Per pair..... **\$5.25**

Dunlap Safety Check Hook



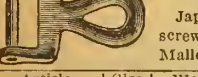
As shown in illustration; for single or double buggy harness. Weight, 1 1/2 ounces.

95C7374—Nickel plated. Price, each..... **18c**

95C7375—Imitation rubber. Price, each..... **18c**

95C7376—Brass. Price, each..... **18c**

Cockeyes



Japanned (Black) finish screw cockeyes, best quality. Malleable iron.

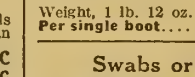
Article Number	Size In.	Weight Per Dozen	Price of 6	Price Dozen
95C7180	1 1/2	2 lbs. 3 oz.	\$0.47	\$0.92
95C7181	1 3/4	2 lbs. 8 oz.	.54	1.05
95C7182	2	2 lbs. 10 oz.	.68	1.30
95C7183	2 1/4	2 lbs. 12 oz.	.85	1.65
95C7184	2 1/2	3 lbs. 10 oz.	1.05	2.00
95C7185	2 3/4	3 lbs. 12 oz.	1.15	2.25

Drop Terrets



Made to rivet on back bands, hinged. Weight, 2 1/2 ounces. **95C7335**—Japan (black) finish. Price, each..... **15c**

Ankle Boots



95C6295—Ankle Boots, molded russet leather, one strap. These are the highest quality, low-priced ankle boots we offer. Weight, per pair, 4 ounces. Price, per pair..... **60c**

Horse Breakers



95C6285—Our Special Horse Breaker. Simple, practical, safe and effectual. Can be used for a breeding hopple, or for breaking purposes, and is especially valuable when used to break vicious horses of the dangerous habit of kicking. The breaker should be supported from the horse by means of a surcingle. Our price does not include a surcingle. Weight, each, 4 lbs. **\$5.00** Each.....

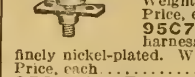
Our Utility Cockeyes



Made with screw bolt, and used in hame tug and clip hame; also used in trace. In three sizes, 1 1/2, 1 3/4 and 2 in. Malleable iron. Jap. (Black).


Art. No.	Size	Weight	Price of 4
95C7190	1 1/2 in.	12 oz.	48c
95C7191	1 3/4 in.	14 oz.	54c
95C7192	2 in.	16 oz.	65c

Pad Screws



95C7202—Wrought iron, for pads or back bands of team harness. Japan (black) finish. Weight, per dozen..... **55c** Per 1/2 dozen..... **30c**

Swabs or Soaking Boots



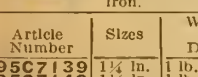
95C6271—Soaking Boots to buckle over horses' hoofs to keep them soft. Made of heavy gray felt. Two straps and buckles on each, and three extra rows of stitching. Soak well with water and apply in the evening. They will keep wet all night. Weight each, 6 oz. Each..... **70c**

The Never Fail Interfering Device



95C6261—The Genuine Never Fail Interfering Device. They will spread the colt's gait and make him a wide traveler. Every horseman will understand the merits of them when seen. Weight, each, 3 ounces. Price, each..... **55c**

Repair Dees



With screw bolts for repairing the ends of breeching bodies or replacing broken or worn out rings in the ends of martingales. Japanned (black) finish. Malleable iron.

Article Number	Sizes	Weight Per Dozen	Price of 6	Price Per Dozen
95C7139	1 1/4 in.	1 lb. 8 oz.	50c	\$0.96
95C7140	1 1/2 in.	1 lb. 11 oz.	50c	1.00
95C7141	1 3/4 in.	2 lbs.	50c	1.00
95C7142	2 in.	2 lbs. 4 oz.	75c	1.50


Iron Repair Hame Terrets



For use on 3 1/2 pound Iron buggy hames. Be sure to specify finish. **95C7320**—Japanned (Black) finish, band pattern. Each..... **15c**

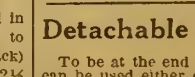
95C7321—Nickel plate. Wire pattern. Each..... **20c**

Trace Carriers



95C7160—To be sewed in back straps of team harness to hold up the traces. Japan (black) finish. Malleable iron. Wt., each, about 2 1/2 ounces. Price, each..... **11c** Price, per dozen..... **\$1.30**

Detachable Cockey



To be at the end of a dart hole trace, so trace can be used either on a sword end, or hook end Whiffletres. Japan (black) finish. Weight, per pair, 10 ounces. **95C7198**—Price, per pair..... **25c**

Harness Attachments and Repair Parts

Improved Flat Tongue Harness Snaps

Jap (Black) finish. The springs are made of steel. Best grade of this style of snap.

Art. No.	Sizes	Weight	Per 1/2 Doz.	Per Doz.
5C7077	1 1/2 in.	1 lb. 3 oz.	34c	\$0.68
5C7078	1 in.	1 lb. 5 oz.	36c	.72
5C7079	1 1/4 in.	1 lb. 6 oz.	48c	.96
5C7080	1 1/2 in.	1 lb. 14 oz.	60c	1.20
5C7081	1 1/4 in.	2 lb.	65c	1.30
5C7082	2 in.	2 lb. 2 oz.	75c	1.50
5C7083	2 in.	2 lb. 5 oz.	83c	1.65

Flat Tongue Harness Snaps

Malleable iron. Jap. Black finish. We have the heaviest and the best snaps of this type made.

Art. No.	Size	Weight	Per 1/2 Doz.	Per Dozen
5C7035	1 1/2 in.	12 oz.	25c	\$0.50
5C7036	1 in.	13 oz.	26c	.52
5C7037	1 1/4 in.	1 lb. 10 oz.	45c	.90
5C7038	1 1/2 in.	1 lb. 12 oz.	58c	1.15

5C7050 — Triumph Bit Snaps, aluminum steel springs, length 2 1/2 in. Malleable iron, XC (White) Metal. Weight, per doz., 1.6c Per dozen, 90c

5C7045 — Bag Snaps, malleable iron, nickel plated bag, or baby snaps. Will take strap 1/2 in. Weight, per doz., 22c Per 1/2 dozen, 42c

Conway's Loop

Malleable Iron. Japan (Black) Finish.

Art. No.	Size	Weight, Per Doz.	For 1/2 Doz.	Per Doz.
5C7295	3/4 in.	7 oz.	14c	26c
5C7296	1 in.	8 oz.	15c	30c
5C7297	1 1/4 in.	9 1/2 oz.	18c	35c
5C7298	1 1/2 in.	1 1/4 lb.	25c	50c

Twin Loops

Angular Twin Loops. Malleable iron. These loops are adjustable to any thickness of strap and the buckle is free to move to any position desired on a same strap or any other style of a reverse strap. Japanned (Black) finish.

Article Number	Size	Weight	For 1/2 Doz.	Per Doz.
5C7303	3/4 in.	5 oz.	14c	26c
5C7304	1 in.	6 oz.	15c	30c
5C7305	1 1/4 in.	7 oz.	18c	35c
5C7306	1 1/2 in.	10 oz.	23c	45c

Halter Loop and Rings

Malleable iron, Japanned (Black) finish. The sizes given are the sizes of the openings in the loops.

Article Number	Size	Weight	Per Doz.	Price Each	Per Dozen
5C7022	1 in.	1 lb. 6 oz.	5c	52c	62c
5C7023	1 1/4 in.	1 lb. 12 oz.	6c	62c	72c
5C7024	1 1/2 in.	1 lb. 14 oz.	7c	72c	

Halter Squares

Japanned (Black) malleable iron.

Art. No.	Sizes	Wt. per doz.	Price doz.
5C7015	1 x 1 1/2	7 1/2 oz.	30c
5C7016	1 1/4 x 1 1/2	12 oz.	36c
5C7017	1 1/2 x 1 1/2	1 lb. 2 oz.	48c

Brass Loops

Solid Brass Slide Loops polished inside.

5C7029	Size, 1/2 in.	Weight, per dozen, 1 1/2 oz.	27c
5C7030	Size, 3/4 in.	Weight, per dozen, 1 1/2 oz.	30c

Above loops used for connecting any size rings when making spreader straps.

Celluloid Loops

Article Number	Diam. Inch	Color	Weight per doz.	Per Dozen
5C7002	3/4	Red	3/4 oz.	28c
5C7003	3/4	Red	1 oz.	34c
5C7004	3/4	Red	1 1/2 oz.	40c
5C7005	3/4	White	3/4 oz.	28c
5C7006	3/4	White	1 oz.	34c
5C7007	3/4	White	1 1/2 oz.	40c
5C7008	3/4	Blue	3/4 oz.	28c
5C7009	3/4	Blue	1 oz.	34c
5C7010	3/4	Blue	1 1/2 oz.	40c

Super Cotton Girth Web

5C8916 — Super Cotton Girth Web, 3 in. wide, heavy weight for surcingle and saddle girths; fancy stripes only; put up in rolls containing 15 yards. Weight, per roll, 2 lbs. Per yard, 23c Per roll, \$3.20

5C8917 — Heavy, 12-cord Cotton Girth Web, 2 1/2 in. wide; colored stripes; put up in rolls containing 15 yards. Weight, per roll, 2 lbs. Per yard, 25c Per roll, \$3.50

5C8925 — Cotton Halter Web, 13-cord, 1-5/8 in. wide. Colors, red, white or blue only. Put up in rolls containing 30 yards. Shipping weight per roll, 3 1/2 lbs. Per yard, 17c Per roll, \$4.50

5C8926 — Worst Line or Rein Web, 7-cord; 1 1/2 in. wide. Colors, red or blue only; mention which color is wanted. Put up in rolls containing 15 yards. Wt., per roll, 1 1/4 lbs. Per yard, 21c Per roll, \$2.25

Bolt Snaps

Covett's Banner Bolt Snaps. The principal feature of this snap lies in the spring being entirely covered, shutting out all foreign substances. Malleable Iron. XC (White) metal.

Art. No.	Sizes	Weight	Per 1/2 Dozen	Per Dozen
95C7055	1/2 in.	1 3/16 lb.	44c	\$0.88
95C7056	1 in.	1 1/4 lb.	45c	.90
95C7057	1 1/4 in.	1 1/2 lb.	70c	1.40
95C7058	1 1/2 in.	1 5/8 lb.	80c	1.60

Combination Neck Yoke and Breast Strap Slide. A strong, safe and durable snap. It is indispensable to the farmer, as it is practically the only snap that can be used successfully on farm machinery. Malleable Iron. Japan (Black) finish.

Art. No.	Size	Weight	Each	Per Doz.
95C7126	1 1/2 in.	11 oz.	38c	\$4.50
95C7127	2 in.	12 oz.	40c	4.70
95C7128	2 1/2 in.	13 oz.	42c	5.00

Imperial Harness Snaps

The best grade of this style snap. Black finish.

Art. No.	Sizes	Weight	For 1/2 Dozen	Per Dozen
95C7115	3/4 in.	12 oz.	\$0.55	\$1.05
95C7116	1 in.	1 lb. 4 oz.	.57	1.15
95C7117	1 1/4 in.	1 lb. 9 oz.	.59	1.15
95C7118	1 1/2 in.	1 lb. 11 oz.	.68	1.35
95C7119	1 3/4 in.	1 lb. 3 lb. 7 oz.	.85	1.70
95C7120	1 1/2 in.	1 lb. 3 lb. 9 oz.	1.00	2.00
95C7121	2 in.	1 lb. 4 lb. 2 oz.	1.13	2.25

Open Eye Bolt Snaps

95C7195 — Extra heavy snap. Size of eye, 3/4 inches length over all, 5 inches. Useful for all kinds of repair purposes where an extra strong snap is required. Black finish. Weight, each, 3 ounces. Price, each, 40c

95C7066 — Covett's Open Eye Bolt Snaps, for repairing breast chains. Size of eye, 1/2 inch. Length over all, 4 inches. Black finish. Wt., each, about 3 oz. Price, each, 20c

Breast Strap Roller Snaps

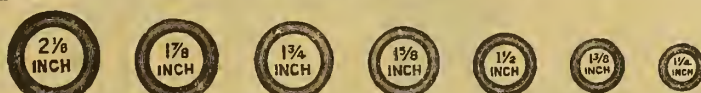
Made with a large roller, tongue strongly riveted with Norway iron rivets, each rivet beaded on both ends. Malleable iron. Jap. (Black) finish.

Art. No.	Size	Weight	Each	Per Doz.
95C7087	1 1/2 in.	9 oz.	35c	\$4.10
95C7088	1 3/4 in.	10 oz.	38c	4.45
95C7089	2 in.	11 oz.	41c	4.80

95C7104 — Combination buckle and snap for 1 1/2-inch breast straps. Japan (black) finish. Weight, per pair, 1 pound. Price, per pair, 50c

Double Snap

95C7129 — Extra heavy, black finish with brass plated tongue to use on breast chains, or any place where a heavy double snap is required. Weight, each, 6 oz. Price, each, 25c



Tyraline Rings (Made of Celluloid)

Tyraline Rings, red, white or blue. Made of Celluloid. Article Number indicates color. Sizes given are manufacturers' dimensions, which are slightly less than standard.

Sizes	Red	White	Blue	Weight Per Doz.	Price Each	Price Per Doz.
1 1/4 in.	95C6925	95C6932	95C6939	3 oz.	15c	\$1.65
1 1/2 in.	95C6926	95C6933	95C6940	4 oz.	17c	1.90
1 3/4 in.	95C6927	95C6934	95C6941	5 oz.	20c	2.20
1 1/2 in.	95C6928	95C6935	95C6942	6 oz.	22c	2.50
1 1/2 in.	95C6929	95C6936	95C6943	8 oz.	27c	3.00
1 3/4 in.	95C6930	95C6937	95C6944	11 oz.	31c	3.60
2 in.	95C6931	95C6938	95C6945	12 oz.	35c	4.05

Japan Harness Rings

Malleable Iron Harness, Halter and Breaching Rings. Japanned (Black) finish only.

Article Number	Diameter	Weight Per Dozen	Per Dozen
95C6975	3/4 in.	13 oz.	12c
95C6976	1 in.	2 1/2 oz.	14c
95C6977	1 1/4 in.	2 1/2 oz.	16c

Article Number	Diameter	Weight per Doz.	Per Dozen	Per Dozen
95C6978	1 in.	5 1/2 oz.	10c	\$0.18
95C6979	1 1/4 in.	5 3/4 oz.	12c	.21
95C6980	1 1/2 in.	6 oz.	12c	.23
95C6981	1 3/4 in.	12 1/2 oz.	21c	.38
95C6982	1 1/2 in.	14 oz.	23c	.43
95C6983	2 in.	12 1/2 lb.	24c	.46
95C6984	2 1/4 in.	11 1/2 lb.	32c	.68
95C6985	2 1/2 in.	2 1/2 lb.	45c	1.00
95C6986	3 in.	2 1/2 lb.	50c	1.00

Duranoid Rings

Made of composition with iron ring in center.

5C6955 — Red. 1 1/4 in.	40c
For 1/2 dozen, 75c	
5C6956 — White. 1 1/4 in.	40c
For 1/2 dozen, 75c	
5C6957 — Blue. 1 1/4 in.	40c
For 1/2 dozen, 75c	
Weight, per dozen, 12 oz.	

Solid Brass Rings

Solid Brass Harness, Halter or Breaching Rings, extra fine finish.

Article Number	Diam.	Weight	For 1/2 Doz.	Doz.
95C6991	3/4 in.	3 1/2 oz.	20c	\$0.38
95C6992	1 in.	3 3/4 oz.	22c	.42
95C6993	1 1/4 in.	5 1/2 oz.	38c	.75
95C6994	1 1/2 in.	13 1/2 oz.	47c	.93
95C6995	1 3/4 in.	22 oz.	67c	1.32
95C6996	2 in.	29 oz.	75c	1.50

Black Rubber Rings

95C6969 — Plain, light in weight, but strong; diameter, 1 1/2 in. Price, each, 10c

Wood Center Rings

95C6950 — Boxwood Center Rings, red, white or blue; large and strong. Inside diameter, 2 in. Outside diameter, 3 1/2 in. Wt., each, 1 oz. State color. Per dozen, 54c Each, 5c

Bone Trimming Rings

Sizes given are all inside measurements. Diameter, about 1 in.

95C6962 — Red. Per doz.	52c
95C6963 — White. Per doz.	52c
95C6964 — Blue. Per doz.	52c

Weight, per dozen, 2 oz.

Trace Buckles

Double Loop, Champion trace buckles, made of malleable iron. XC (white) metal and Japan black finish.

Art. No.	Sizes	Weight Per Doz.	Price Each	Per Doz.
95C7230	1 1/2 in.	4 1/2 lbs.	16c	\$1.75
95C7231	1 1/4 in.	5 1/2 lbs.	17c	1.95

Jap (Black)

95C7232	1 1/2 in.	4 1/2 lbs.	15c	\$1.65
95C7233	1 1/4 in.	5 1/2 lbs.	16c	1.85

Harness Spots

Used for ornamenting all kinds of Team, Buggy and Express Harness. Solid metal. Nickel and brass finish. Wt., per dozen, 3 oz.

Article Number	Finish	Size	Per Doz.
95C6342	Nickel Plated	3/4 in.	8c
95C6343	Nickel Plated	1/2 in.	9c
95C6344	Nickel Plated	1 in.	10c
95C6345	Nickel Plated	1 1/4 in.	13c
95C6346	Nickel Plated	1 1/2 in.	15c
95C6347	Nickel Plated	1 in.	18c
95C6348	Solid Brass	3/4 in.	8c
95C6349	Solid Brass	1/2 in.	9c
95C6350	Solid Brass	1 in.	10c
95C6351	Solid Brass	1 1/4 in.	13c
95C6352	Solid Brass	1 1/2 in.	15c
95C6353	Solid Brass	1 in.	18c

Solid Brass Block Letters for attaching to harness housings, or other leather goods. Two sizes. Weight, each, 1 oz.

95C6336 — Size 3/4 in.	9c
Each, 10c	
Per dozen, \$1.00	
95C6337 — Size, 1 in.	10c
Each, 11c	
Per dozen, \$1.10	

Be sure to state size and letter wanted.

Standard Harness Roller Buckle

Malleable Iron. Japanned (Black) or XC (white) metal finish.

Article Number	Sizes	Weight Per Dozen	Price Per Doz.
95C7210	3/4 in.	5 1/2 oz.	24c
95C7211	1 in.	7 oz.	28c
95C7212	1 1/4 in.	8 oz.	31c
95C7213	1 1/2 in.	11 1/2 oz.	46c
95C7214	1 3/4 in.	15 oz.	58c
95C7215	1 1/2 in.	1 lb. 4 oz.	68c
95C7216	2 in.	1 lb. 9 oz.	80c

Article Number	Sizes	Weight Per Dozen	Price Per Doz.
95C7219	3/4 in.	5 1/2 oz.	22c
95C7220	1 in.	7 oz.	24c
95C7221	1 1/4 in.	8 oz.	28c
95C7222	1 1/2 in.	11 1/2 oz.	

Handy Equipment for the Horse Owner

Lakeside Shearing Machines

The Lakeside Horse and Cattle Clipping Machine (shown to the left), is small but substantially constructed. The tripod piece and the two-piece upright are made of metal throughout. Height set up, 42 in. Equipped with concave knives, flexible steel, coiled shaft, web covered, and flexible chain. The sheep shearing machine (shown to the right), is of similar construction, but has a flexible jointed, ball-bearing arm shaft in place of the web covered, coiled, chain drive shaft.

These machines turn easily, requiring little labor to operate. In fact they are of such simple construction that even a boy can learn to operate one of these machines in a very short time by carefully following the simple and complete instructions that accompany each machine.

- 95C13—Improved Lakeside Horse Clipping Machine, without grinder. Ship. wt., 40 lbs. Price, each.....\$13.65
- 95C14—Combination sheep shearing and horse clipping machine. Without grinder weight, about 60 lbs. Price, Complete.....\$26.35
- 95C40—Horse Clipper Handle, complete with knives. Ship. wt., 18 oz. Price.....\$3.75
- 95C50—Horse Clipper Top Plates. Ship. wt., 8 oz. Each.....\$1.20
- 95C61—Horse Clipper Lower Plates. Ship. wt., 8 oz. Each.....\$1.65

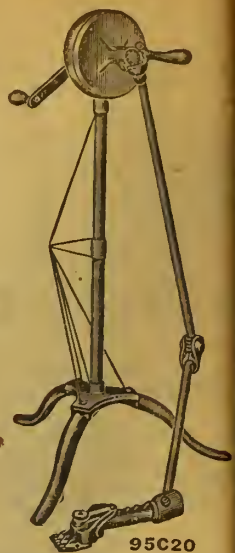
- In the shearing head of our shearing machines, the Knives are easily adjusted, and stay sharp longer than any other style of knife.
- 95C20—Improved Lakeside Sheep Shearing Machine, complete, including four cutters, and four combs without grinder. Boxed, ship. wt., about 50 lbs. Price, each.....\$17.55
 - 95C22—Extra Lower Plates. Ship. wt., 3 oz. Each......65
 - 95C23—Extra Upper Plates. Ship. wt., 1 oz. Each......25
 - 95C24—Price of Grinder only, packed and shipped separately. Ship. wt., 12 lbs. Price.....\$4.75

Customers who cannot properly sharpen the plates can send them to us by mail, packed securely against breakage, and we will do the work at a minimum cost of comb and cutter for sheep shear, per set, 50c; horse clipper, per set, 70c. Be sure to include the necessary return shipping charges.

When ordering new top or bottom plates be sure to return your old one to us as a sample.



95C13



95C20



Our Best Feed Bag

95C8909—Extra heavy weight, white cotton duck with leather bottom and extending up about 6 in. all around, with ventilator and 1-in. leather strap to go over head. A bag that will give satisfaction. Wt., ea. about 30 oz. Price, each.....\$2.20



Popular Feed Bag

95C8907—This is a good, low-priced feed bag, and a popular one. It is of medium weight, white cotton duck, with leather bottom, and ventilator and 1/2-in. leather strap to go over head. Wt., ea. abt. 12 oz. Price, each.....\$1.25



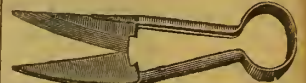
Extra Good Feed Bag

95C8908—Heavy wt., white cotton duck, with leather bottom and extending up about 3 in. all around with ventilator, and 1/2-in. leather strap to go over head. A very good bag. Wt., ea., abt. 16 oz. Price, each.....\$1.65



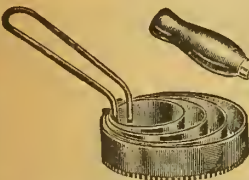
Cribbing Muzzles

95C8900—Wire Cribbing Muzzles, heavy head stall. Made of good quality harness leather and steel drawn wire. Good full size. Can be adjusted. They prevent a horse from cribbing, while they do not prevent him from eating hay or grain. Wt., each.....\$2.85

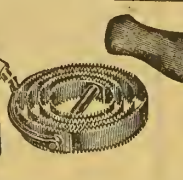


Horse or Mule Shears

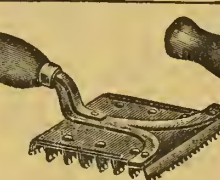
95C6780—Horse or Mule Shears with curved blades for trimming manes, tails, or around fetlocks. Half polished blades; made from a high grade of shear steel, which has been tempered by a patent process. Wt., each, about 6 oz. Price, each.....45c



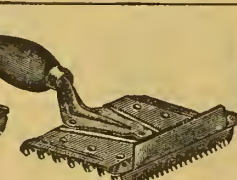
Many horse owners prefer circular combs. We handle a high grade circular comb, wire handle. Nothing to give out, a wonderful value. Wt., about 10 oz. Its value is exceptional. 95C6725 Price, each.....20c



95C6726—Patent Circular. Extra heavy steel shank passing through handle and riveted; steel knockers. This is the highest grade comb of its kind on the market. Wt., each 11 oz. Price, each.....30c



95C6731—Curry Combs. The Climax. All steel, oxidized, finish. 8-bar, closed back. Extra heavy steel shank passing through handle and riveted, steel knockers. The handle is extra well braced. Wt., each, 11 oz. Price, each.....31c



95C6736—Made of all steel. Eight bars riveted, shanks passing through handles and riveted. Black enameled handles, brass ferrules. Scraper all steel, riveted to curry comb. Weight, each, about 9 oz. Price, each.....35c



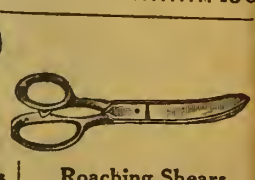
Fetlock Clippers

95C6763—A very satisfactory clipper. Nickel-plated steel, and entirely suitable for any person having only occasional use for clippers of this style. Wt., ea., 6 oz. Price, each.....\$2.00



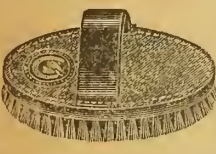
Hand Horse Clippers

95C6764—New Market pattern our high grade Horse or Dog Clippers. A practical and durable clipper. Will give good service. Wt. each, 17 oz. Price, each.....\$3.00

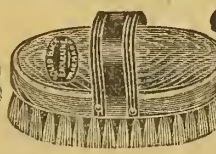


Roaching Shears

95C6785—Roaching Shears. Made of laid steel. Perfectly uniform in temper which makes them keep an even cutting edge. Especially made for trimming horses' manes, tails, fetlocks, etc. Length, about 8 in. Wt., each, 7 1/2 oz. Price, each.....\$2.25



95C6600—Oval shape, flat face Horse Brush. Nine rows gray tampico center and white outside. Embossed back with good leather strap. Size of brush 8 1/2 in. by 4 1/2 in. Wt., each, 7 oz. Price, each.....48c



95C6605—Compactly filled with the good quality of brown India fibre. This is a large size brush, a good cleaner, and very serviceable. Oval shaped bard wood backs. Size, 8 1/2 inch by 3 1/2 inch; leather handle. Wt., each 11 oz. Price, each.....35c



95C6721—Large size 3x8 1/2 in. Horse and Cattle Cards. Wire teeth, wood back and handle. This comb has sold exceedingly well and has satisfied many customers. Wt., about 7 oz. Price, each.....50c



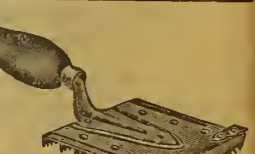
95C6700—Mane Comb Shedder and Sweat Scraper combined. A good, strong iron mane comb, with a rubber shedder or sweat scraper, 5 1/2 in. long on the back. Far superior to a wooden sweat scraper. Wt., each, 8 oz. Price, each.....30c



95C6705—Humane Reformed Curry Comb. Galvanized steel, bronze finish. Self-cleaning as no hair can stick to the teeth or clog between bars. Slightest tap on its face cleans it. Solid leather handle; size, 6 1/2 x 4 1/2 in. Wt., each, about 6 oz. Price, each.....18c



95C6741—Curry Comb. All steel, 8 bars, open back. Shanks running through handles and riveted carrying handles. Steel ferrules, plain knockers, japanned finish. Wt., each, 6 oz. Price, each.....20c



95C6746—Warranted steel. 8-bar, extra heavy steel, enameled-handle pinned to wrought iron shank. Wt., each, 8 oz. A satisfactory comb that will stand hard and rough wear. Price, each.....25c



95C6675—Extra quality, solid russet leather back, with buckle on band strap. Large oval face, with nineteen rows of stiff natural yellow Russia bristles brass wire drawn. All the material in this brush is first-class in every way. Size of brush, 8 1/2 in. by 4 1/2 in. Wt., ca., 12 oz. Price, each.....\$3.75



95C6670—An extra quality brush. Guaranteed all bristles, black in color, brass wire drawn, russet leather back stitched around edge, wide leather handle. Size of brush about 8 1/2 x 4 1/2. Wt., each, about 12 oz. A truly serviceable brush. Price each.....\$2.00



95C6660—This Brush is made on the U. S. Army pattern. It has fifteen rows of gray mixed imported bristles, very closely set. The back and strap are of the best quality of russet grain leather, and the backs are stitched with one row of wire and one row of thread, as shown in cut. Size of brush, 8 1/2 in. by 4 1/2 in. Wt., ca., 12 oz. Price, each.....\$1.60



95C6665—This Brush is made on a genuine leather block with fifteen rows of stiff black Chinese bristles, brass wire drawn. The back and strap are made of heavy black grain leather. This is the best all-bristle brush we ever sold for the money and a favorite with many of our customers. Size of brush, 9 x 4 1/2 in. Wt., each, 8 oz. Price, each.....\$1.30



95C6650—Extra well fitted with imitation unbleached Russia bristles. Finished with the finest quality of russet grain leather back and strap. A large, good-looking brush that will give satisfactory service. Size of brush, 8 1/2 in. by 4 1/2 in. Wt., 10 oz. each. Price, each.....\$1.35



95C6640—This brush is large with oval face and leather back. Very closely filled with strong gray imported tampico. Strap heavy russet leather. This is an extra large sized brush, well filled and will give satisfactory service. Size of brush, 9 1/2 in. by 4 1/2 in. Weight, 10 oz. each. Price, each.....\$1.20



95C6655—Steel Wire Horse Brushes. With heavy oval shaped wood backs. Made of the same grade of wire as 95C6645 brushes, but have a greater cleaning surface. Size of back, 3 1/2 in wide by 8 in. long. Lgh. of wire, about 1 1/2 in. Wt., each, 13 oz. Price, each.....\$1.00



95C6635—Very closely filled with the finest quality of Peerless rice root, trimmed 1 1/2 inches clear of the block. Backs are made of clear, white, hard maple, beautifully polished, size 10 in. by 2 1/2 in. Russet grain leather hand shields on each side of the brush. Weight, each, 15 oz. Price, each.....95c



95C6645—Steel Wire, Dandy Horse Brushes, made of a special grade of tempered steel wire. They remove dandruff and loose hair, are easily kept clean. Finely finished wood backs. Lgh. of backs, about 9 in.; lgh. of steel teeth, about 1 1/2 in. Wt., each, in box, 10 oz. Price, each.....85c



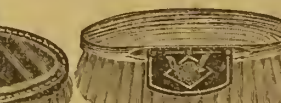
95C6620—Made from the very finest and most carefully selected Mexican rice root. Beautiful white maple backs, finished with shellac. Leather finger guards on each side of brush. Length of back, 10 in. This is an excellent brush at the price. Wt., each, 14 oz. Price, each.....85c



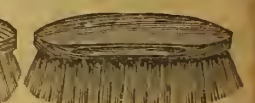
95C6625—A brush which we can recommend. Leather back and leather band strap. This brush is closely filled with gray tampico center and has a row of black imported bristles outside. This is a very low price for brushes with genuine leather backs and has proven very successful. Size of brush, 8 1/2 x 4 1/2 in. Wt., 9 oz. Price, each.....95c



95C6615—This style of brush has an oval shape, leather back heavy harness leather strap, 11 rows of stiff black imported tampico. These brushes are good size, well filled and are exceptionally good value, and good sellers. Size of brush, 9 x 4 1/2 in. Wt., 9 oz. Price, each.....70c



95C6610—Tampico Dandy, or Dandruff Brush. These brushes are made from a fine grade of gray Tampico, specially prepared, the fibre being 2 in. long. The face of the brush is rounded and is extra heavily stocked. The back is 10 in. by 2 1/2 in. With finger guards. White shellac finish. Wt., each, about 15 oz. Price, each.....75c



95C6630—Solid hard wood backs, highly polished, compactly filled with best quality of India fibre trimmed 1 1/2 in. clear of the block. Length of brush, 9 1/2 in. Wt., each, 10 oz. This is a brush that will give service far in excess of the price. Price, each.....45c

Tools and Supplies for the Repair Man

Rex Riveting Machine



95C8140—Made of best malleable iron with case-hardened steel plunger and automatic adjustment for different lengths of rivets. They are neatly finished japanned and are first class machines in every way. Will set No. 1 tubular rivets or split rivets as easily and as well as any of the higher priced machines. Height, 6½ in. Weight, each, 2 lbs. Price, each, **\$1.20**

No. 1 Riveting Machine



95C8135—Has vise for holding straps, rods, bolts, etc. Of best malleable iron and steel. Sets a rivet in one second. No adjustment. All ordinary lengths. No. 1 tubular rivets or split rivets may be used. Weight, 6 pounds, 8 ounces. Price, each, **\$3.00**

Good Luck Riveting Machine



95C8130—Made of gray iron, about 6½x7 inches in size. Sets either tubular or split rivets. Weight, about 2 lbs. 3 oz. Price, each, **75c**


The Lever Riveting Machine



95C8125—Hold machine in one hand and goods with the other. A handy tool for the use of livermen, harnessmakers, farmers or teamsters, for repairing lines, halters, or all ordinary strap work. Use tubular rivets. Weight, each, 3 lbs. Price, each, **60c**

Tubular Rivets

100 in a Box



No. 1 Japanned Tubular Harness Rivets, put up in small boxes containing 100 rivets of one size. Be sure to state length wanted. Average weight, per box, about 5 oz.

95C8145	¾" Size	24c
95C8146	⅞" Size	25c
95C8147	1" Size	26c
95C8148	1¼" Size	27c
95C8149	1½" Size	29c
95C8150	1¾" Size	31c
95C8151	2" Size	33c

Dipping Tank



Galvanized steel, heavy wire basket.

195C7385—30 gal. Height, 28 in. Diam. basket, 19 in. Height, 16 in. Price, each, **\$7.80**
Ship. wt. 35 lbs.

195C7386—60 gal. Height, 30 in. Diam. basket, 23 in. Height, 16 in. Ship. wt. 43 lbs. Price, each, **\$9.25**

Myers' Sewing Awl



Comes packed complete with one straight and one curved needle, one reel waxed thread, small wrench and screw-driver combined, and complete set of directions for use. Weight, about 3 ounces.

95C8113—Price, each, **65c**
Add for extra needles (curved or straight) 8c each. Add extra for one-quarter pound tubes of thread for filling spools, **\$1.35** price, per tube.
Add extra for beeswax for waxing thread, per cake, **10c**. Add extra for reels filled with thread. Each, **18c**

Horse Blanket Pins



95C7399—Safety Blanket Pins, fine brass nickel-plated finish, hooded points. Size, 3½ inches. Weight, each, 1 ounce. Price, each, **6c**
Per dozen, **65c**

95C7400—All steel blanket pins 3½ inches long. Weight, per dozen about 10 ounces. Price, for 6, **1.20c**
Price, per dozen, **35c**

Leather Splitters



Iron frames, new pattern. Can be set to any gauge desired and can be fastened to any work bench, will split up to 6 inches in width.

95C8223—Sizes, 6 in. Wt., 6 lbs. Price, each, **\$9.25**

Assorted Tubular Rivets

100 in a Box

95C8163—Tubular Rivets, No. 1 Japanned Tubular Harness Rivets for repairing or making all kinds of strap work. Put up in small boxes containing 100 rivets of assorted sizes from ¾ inch to 2 inch. Weight, 4 ounces. Price, per box, **27c**

Edge Tool



95C8229—Common Edge Tools, used for removing the sharp corners on new strap work, 5 in. long. Weight, each, ¼ oz. Price, each, **28c**

Wax


95C8279—Black Wax, used by harness-makers and shoemakers for making wax ends. Weight, per half, ½ oz. per doz. halves, 12 oz. Price, per half, **2c**
95C8280—Per doz. halves, **18c**

Patent Awl Handles



95C8185—Patent Awl Handles. Awls held securely in place by metal cap, that screws onto awl socket. You can change awls in a moment without breaking them. A small iron wrench which fits cap, with each handle. Price does not include an awl blade. Weight each, 2 ounces. Price, each, **28c**

Bark Tanned Black Harness Leather



The leather we offer you is bark tanned leather, made in the old-fashioned way. Graded and selected by us.

Due to the uncertainty in the leather market we reserve the right to change the price of Harness leather without notice. You will, however, always enjoy the benefit of our latest quotations.

95C8109—Diamond W "B" Grade Harness Leather. Whole sides only. Wt., from 15 to 21 lbs. Price, per pound, **96c**

95C8110—Diamond W "B" Grade Trace Leather, 22 to 24 pounds, whole sides. Price, per pound, **97c**

95C8111—Harness Leather Belles in pieces. Average weight, from 3½ to 5 lbs. Used for repair purposes. Price, per pound, **52c**

95C8118—Diamond W Backs only. No. 1 Grade Harness Leather. Wt., from 13 to 16 lbs. Price, per lb., **\$1.11**

95C8121—Diamond W Backs only. Trace leather. Weight, from 16 to 19 lbs. Price, per lb., **\$1.12**

We will furnish as near the weight ordered as possible, but do not cut the sides or pieces.

Harness Needles, Awls and Handles



95C8198—Harness Needles, put up in papers of 25 needles, assorted sizes, 0 to 4. Weight, per package, ¼ oz. Price, per paper, **19c**

95C8199—Straight Harness Awl Blades, small, medium and large sizes, assorted. Wt., per dozen, ¼ oz. Per dozen awls, **50c**

95C8200—Common Turned Sewing Awl Handles. Weight, 5 ounces. 2 for, **6c**


Harness-makers' Horse



195C8273—Harness-makers' Stitching Horse. Any man can do his own repairing and save his time as well as his money. Seat, lever and rounds made of Missouri Hickory with jaws of hard Maple. Weight, 18 lbs. Price, without jaw strap, **\$6.90**
Each, **85c**

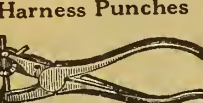
95C8274—Jaw Strap (weight, about 8 oz.), add **\$1.00**

Osborne Steel Compasses



95C8217—Tool Steel Compasses. Osborne's best make, for channeling leather so that the stitches will be below the surface. Can be adjusted by means of a set screw. Length, 4¼ in. Weight each, 1 ounce. Price, each, **\$1.10**


Harness Punches



95C8168—Revolving Spring Punches, with six tubes that drive in. All steel standard quality. Assorted sized tubes in each punch. Weight, 12 oz. Price, each, **\$1.40**

No extra tubes or repairs for this punch

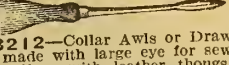
Creasers



Single Edge Creasers for harness makers. Osborne's tools and first quality; Nos. 2, 3 and 4. Article number governs sizes. Weight, 1½ oz.


95C8205—Size, 2. Price, **70c**
95C8206—Size, 3. Price, **70c**
95C8207—Size, 4. Price, **70c**

Collar Awls



95C8212—Collar Awls or Drawing Awls, made with large eye for sewing horse collars with leather thong or whangs; very best material, turned wood handles. Length, 9 in. Weight, 2 ounces. Each, **65c**

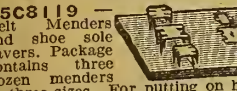
Round Saddlers' Knives



95C8252—Round Knives. Good quality steel, 5 in. blades, rosewood handles. Weight, 2 ounces. Each, **\$1.45**

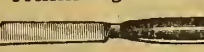
95C8253—Round Knives. Osborn's goods, made of best quality steel, oval rosewood handles. Blades measure 5 inches across point to point. Weight, 2 oz. Price, each, **\$2.35**

Zig-Zag Harness Menders




95C8119—Zig-Zag Menders and shoe sole savers. Package contains three dozen menders in three sizes. For putting on huckles, mending lines and other strap work. Weight, per package, 6 ounces. Price, per package, **\$3.40**
Per dozen packages, **\$3.40**

Trimming Knives



95C8234—Common Square Point Trimming Knives, fine steel blades, turned wood handles. Weight, 1 oz. Each, **23c**


Pricking Wheel



Stationary Pricking Wheel for marking straps for stitches; Osborn's make, Nos. 5, 6, 7 and 8. The number means the number of stitches to an inch.

95C8244—Size, 5. Price, **95c**
95C8245—Size, 6. Price, **95c**
95C8246—Size, 7. Price, **95c**
95C8247—Size, 8. Price, **95c**

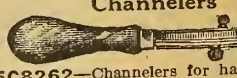
Finishing Wheels



Stationary Finishing or Overstitch Wheels. Osborn's make; round shank, black handles; Nos. 5, 6, 7 and 8. The number means the number of stitches to the inch. Weight, 1½ oz.

95C8190—Size, 5. Price, **\$1.25**
95C8191—Size, 6. Price, **1.25**
95C8192—Size, 7. Price, **1.25**
95C8193—Size, 8. Price, **1.25**

Channelers



95C8262—Channelers for harness-makers' use. For cutting channels for stitches in traces, and other strap work. Weight, 3 ounces. Price, each, **\$1.95**

Sleigh Bells on Strap



95C9008—Sleigh Bells, 30 fine quality No. 2 (1¼-in.) wrought steel Arctic bells, finely nickel-plated. Riveted on black leather strap. Length, 7 ft. 3 in. Weight, per strap, 2½ pounds. Price, per strap, **\$3.20**

Loose Swedish Sleigh Bells



Very loud, yet sweet in tone. Made from the finest bell bronze and highly polished. Can furnish only the following sizes:

Article No.	Size	Diam. In.	Wt. Each	Price Each	Price per Doz.
95C9040	No. 7	2	5	\$0.55	\$6.50
95C9041	No. 8	2½	6	.63	7.45
95C9042	No. 11	3	8½	.94	11.15
95C9043	No. 13	3½	10	1.12	13.30
95C9044	No. 15	3¾	11½	1.27	15.10

Imitation Bear Robes



This Cub Bear Robe is an attractive and well made selection. It is made from inspected Japanese goat skins and is dyed. The dyeing process, however, has no effect upon the quality of the hide or hair. The lining is of a superior quality plain plush and finished with a double border and scalloped edge. This robe is constantly growing in popularity for it conforms with the fashion and sells at extremely low prices.

95C4866—Size, about 54x66 inches. Dyed brown. Weight, 10 pounds. Price, ea. **\$29.90**
95C4860—Same as 95C4866 only dyed black. Price, each, **\$29.95**
95C4867—Same as 95C4866 only extra large size, 60x70 inches. Weight, 11 pounds. Price, each, **\$33.90**
95C4861—Same as 95C4867 only dyed black. Price, Each, **\$33.95**

Buffalo Fur Cloth Robes



Made of three seamless parts, viz.: The face, of all wool fur cloth with heavy back. Interlining, of genuine rubber drill of superior quality, which does not get hard and crack in cold weather, and makes the robes wind and waterproof; the back, or lining, made of the best Astrakhan cloth, handsome and serviceable. Double row border of high-grade felt.

95C4887—Black 54x62 10½ **\$15.85**
95C4888—Brown 54x62 10½ **15.85**
95C4889—Black 54x72 11½ **18.10**
95C4890—Brown 54x72 11½ **18.10**

Gray Goat Skin Robes

The Best Quality Robe of Its Kind

95C4875—Lined with fancy felt cloth, scalloped border. Size, 47x59 in. Weight, 5½ lbs. Each, **\$14.85**

95C4876—Lined with heavy blanket lining, single border. Size, 48x60 in. Weight, 6½ lbs. Each, **\$15.50**

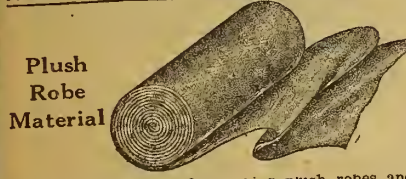
95C4877—Standard size; lined with extra heavy plain plush, scalloped borders in fancy color. Size, 48x60 in. Weight, 7½ lbs. Each, **\$20.25**

95C4878—Large size; deodorized, lined with heavy blanket lining, scalloped felt border. Size, 54x66 in. Weight, 8½ lbs. Each, **\$19.80**

95C4879—Large size; Oriental goat fur robes, deodorized, lined with extra quality plain plush and rimmed with scalloped felt border. Size, 54x66 in. Weight, 9½ lbs. Each, **\$25.50**

95C4880—Extra large size; deodorized Oriental goat fur robes, lined with super quality plain plush, fancy double scalloped borders. Size, 60x70 in. Weight, 12 lbs. Each, **\$29.75**


Plush Robe Material



First quality plush, for making plush robes and lining fur robes. Can be furnished in Green or Black. State color wanted. Shipping weight, about 2 pounds.

95C4925—60 inches Wide, Color, Green. Price, per yard, **\$3.15**
95C4926—60 in. Wide, Color, Black. Price, per yard, **\$3.15**

Felt Robe Border



Fancy scalloped single felt robe border, to be used for Auto or Buggy Robes. Made in Black, Green, or Brown. Be sure to mention color wanted. Ship. wt., about 2 oz.

If no color is mentioned in order, we will send green.

95C4927—Price, per yard, **10c**

Heavy Buffalo Cloth Robes

Article Number	Color	Size Inches	Weight	Price Each
95C4885	Black	54x62	9½	\$14.75
95C4886	Brown	54x62	9½	14.75

Extra Heavy Buffalo Cloth Robes

Article Number	Color	Size Inches	Weight	Price Each
95C4887	Black	54x62	10½	\$15.85
95C4888	Brown	54x62	10½	15.85
95C4889	Black	54x72	11½	18.10
95C4890	Brown	54x72	11½	18.10

Gray Goat Skin Robes

The Best Quality Robe of Its Kind

95C4875—Lined with fancy felt cloth, scalloped border. Size, 47x59 in. Weight, 5½ lbs. Each, **\$14.85**

95C4876—Lined with heavy blanket lining, single border. Size, 48x60 in. Weight, 6½ lbs. Each, **\$15.50**

95C4877—Standard size; lined with extra heavy plain plush, scalloped borders in fancy color. Size, 48x60 in. Weight, 7½ lbs. Each, **\$20.25**

95C4878—Large size; deodorized, lined with heavy blanket lining, scalloped felt border. Size, 54x66 in. Weight, 8½ lbs. Each, **\$19.80**

95C4879—Large size; Oriental goat fur robes, deodorized, lined with extra quality plain plush and rimmed with scalloped felt border. Size, 54x66 in. Weight, 9½ lbs. Each, **\$25.50**

95C4880—Extra large size; deodorized Oriental goat fur robes, lined with super quality plain plush, fancy double scalloped borders. Size, 60x70 in. Weight, 12 lbs. Each, **\$29.75**

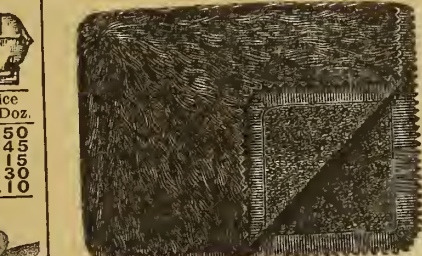
Plush Robe Material



First quality plush, for making plush robes and lining fur robes. Can be furnished in Green or Black. State color wanted. Shipping weight, about 2 pounds.

95C4925—60 inches Wide, Color, Green. Price, per yard, **\$3.15**
95C4926—60 in. Wide, Color, Black. Price, per yard, **\$3.15**

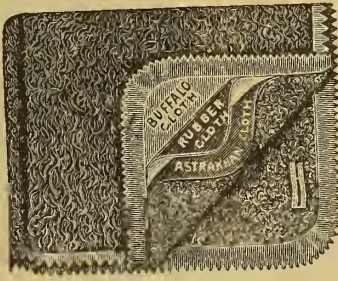
Imitation Bear Robes



This Cub Bear Robe is an attractive and well made selection. It is made from inspected Japanese goat skins and is dyed. The dyeing process, however, has no effect upon the quality of the hide or hair. The lining is of a superior quality plain plush and finished with a double border and scalloped edge. This robe is constantly growing in popularity for it conforms with the fashion and sells at extremely low prices.

95C4866—Size, about 54x66 inches. Dyed brown. Weight, 10 pounds. Price, ea. **\$29.90**
95C4860—Same as 95C4866 only dyed black. Price, each, **\$29.95**
95C4867—Same as 95C4866 only extra large size, 60x70 inches. Weight, 11 pounds. Price, each, **\$33.90**
95C4861—Same as 95C4867 only dyed black. Price, Each, **\$33.95**

Buffalo Fur Cloth Robes



Made of three seamless parts, viz.: The face, of all wool fur cloth with heavy back. Interlining, of genuine rubber drill of superior quality, which does not get hard and crack in cold weather, and makes the robes wind and waterproof; the back, or lining, made of the best Astrakhan cloth, handsome and serviceable. Double row border of high-grade felt.

95C4887—Black 54x62 10½ **\$15.85**
95C4888—Brown 54x62 10½ **15.85**
95C4889—Black 54x72 11½ **18.10**
95C4890—Brown 54x72 11½ **18.10**

Heavy Buffalo Cloth Robes

Article Number	Color	Size Inches	Weight	Price Each
95C4885	Black	54x62	9½	\$14.75
95C4886	Brown	54x62	9½	14.75

Gray Goat Skin Robes

The Best Quality Robe of Its Kind

95C4875—Lined with fancy felt cloth, scalloped border. Size, 47x59 in. Weight, 5½ lbs. Each, **\$14.85**

95C4876—Lined with heavy blanket lining, single border. Size, 48x60 in. Weight, 6½ lbs. Each, **\$15.50**

95C4877—Standard size; lined with extra heavy plain plush, scalloped borders in fancy color. Size, 48x60 in. Weight, 7½ lbs. Each, **\$20.25**

95C4878—Large size; deodorized, lined with heavy blanket lining, scalloped felt border. Size, 54x66 in. Weight, 8½ lbs. Each, **\$19.80**

95C4879—Large size; Oriental goat fur robes, deodorized, lined with extra quality plain plush and rimmed with scalloped felt border. Size, 54x66 in. Weight, 9½ lbs. Each, **\$25.50**

95C4880—Extra large size; deodorized Oriental goat fur robes, lined with super quality plain plush, fancy double scalloped borders. Size, 60x70 in. Weight, 12 lbs. Each, **\$29.75**

Don't force your horses to strain and tug. Use Graphite Axle Grease.

Montgomery Ward & Co. Chicago

A Choice Selection of Motor Robes

Light Weight

Greenland
Auto
Robe



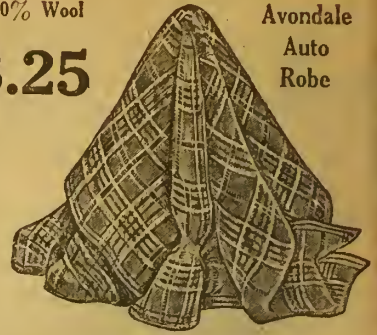
About 80% Wool
\$12.45

Reversible Auto Robe in beautiful rich tones of plain brown and blue. It can be used on either side. About 80 per cent wool and just the weight for Fall or Spring driving. You can make no mistake in selecting this robe and the quality, we believe, will far exceed your expectation.

95C4706—Size about 54x74 in. Weight, about 5 1/4 lbs. Price, each..... **\$12.45**

Heavy Weight

Avondale
Auto
Robe



About 80% Wool
\$13.25

This robe has sold well in all seasons of the year, and has proven a popular favorite. It is of rich dark brown and beautiful shades of plaids and stripes; 1 in. turned lay all around and three rows of stitching; back is plain dark brown. Can be used either side, about 80 per cent wool.

95C4708—Size, 54x74 in. Weight, about 5 1/2 lbs. Price, each..... **\$13.25**



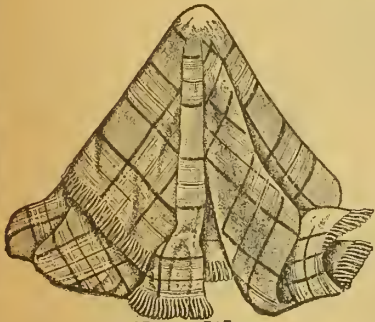
Leopard and Mink Pattern Plush Robe

This is a beautiful robe as well as a serviceable one. Has pockets for two people. Choice of Leopard skin or Mink pattern. Made of extra quality plush with a plain plush back, scalloped border and a good grade of rubber interlining, making a 3-ply robe. Generous size and suitable weight.

Size, about 54x74 inches. Weight about 11 1/2 pounds.

95C4931—Leopard skin pattern. Price, each..... **\$23.75**
95C4932—Same as above, but Mink pattern. Price, each..... **23.75**

A New Line of High Grade Auto Shawl Robes

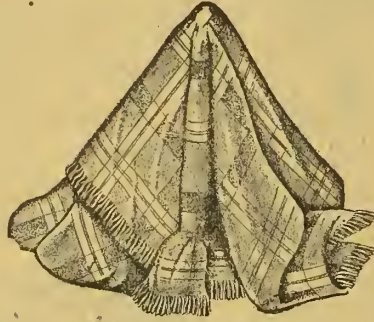


Klondike

In our endeavor to satisfy the demand for a robe that can be used for many purposes we are now listing these four shawl robes.

This all wool shawl robe has a rich grey ground with a yellow and burnt sienna plaid and an occasional soft green stripe. It is 60x80 inches including the fringe on two sides only. Weight, 5 1/4 pounds. This makes an excellent robe for general use and one that will serve many purposes. It can be thoroughly and easily cleaned and will prove a very satisfactory selection.

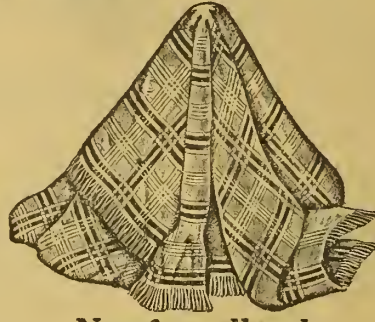
95C4716—Price, each..... **\$12.95**



Hudson Bay

This is our best 100 per cent wool shawl robe. Its softness allows it to be tucked in securely about the person affording ample protection against the cold. It is just the robe to take on the auto trip or to be included in your camping outfit. It is a plaid made up of pleasing colors including a brown background with broad green and double white stripes; the back of the robe is a rich blue. This heavy durable robe will satisfy the most particular purchaser. Size 60x80 inches, with fringe. Weight, about 5 1/4 pounds.

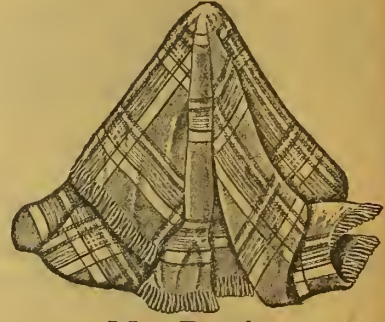
95C4719—Price, each..... **\$20.95**



Newfoundland

This guaranteed all wool robe has the remarkable asset of being light weight and yet sufficiently warm to keep out the cold. It is a plaid design made up of three shades of gray and alternate stripes of green. This robe is of washable wool and therefore can always be kept clean. It can be used as an auto or steamer rug, and is also quite desirable for the tent or camp. Size, 60x80 inches including fringe on two sides only. Weight, 4 pounds.

95C4715—Price, each..... **\$10.90**



Mt. Ranier

Two very desirable all wool shawl robes in a choice of patterns. The colors are guaranteed to be fast and the robe can be washed without injury to the fabric.

95C4718—This number is a beautiful plaid, made up of a dark green background with harmonious stripes of red, blue, yellow, and black. It is 60x80 inches including fringe. Weight, about 5 pounds. Price, each..... **\$15.95**

95C4717—Same as 95C4718 only blue background with red, white and black stripes. Size, 60x80 inches including fringe. Weight, about 5 pounds. Price, each..... **\$15.95**



Long Mohair plush, fancy tiger pattern, rubber interlined in center, and plain plush back. Pliable and practically storm-proof. Double felt border. A very beautiful and high grade robe.

95C4750—Size, 54x66 in. Wt., about 10 lbs. Price, each..... **\$19.45**

Plush With Rubber
Back—
Waterproof **\$8.55**



Plush
Robe
in Natural
Colors

\$15.85

95C4765—A high grade fancy double plush robe, plain plush back. Size, 54x66 inches. Weight, about 8 pounds. Price, each..... **\$15.85**

Interlined
With
Rubber

\$18.55

95C4766—Same as 95C4765 only rubber interlined. Size, 54x66 inches. Weight, about 9 pounds. Price, each..... **\$18.55**



Double plush shaded brown background, with medallion tiger head center. Plain plush back, can be used either side.

95C4800—Size, about 50x60 inches. Wt., about 7 lbs. Price, each..... **\$11.50**

Double Plush Rubber
Interlined
Robe **\$15.60**



These Waterproof Robes are Strictly High Quality

Goodyear rubber cloth on one side, good, rich, fine quality plain green plush on the other side; two rows of stitching all around the edge. Dust, wind and water proof.

95C4898—Size, about 48x60 in. Weight, 6 lbs. Price, each..... **\$8.55**

Waterproof Lap Robes, auto size, extra quality, heavy rubber cloth on one side, plain green raised plush on other side.

95C4899—Size, about 54x72 in. Weight, 8 lbs. Price each..... **\$10.40**

Made of two-ply regular robe plush—fully interlined with an extra heavy rubber drill making a three-ply robe, wind, water and storm proof. Plain green raised plush face, black plush back.

95C4922—Size, about 54x72 in. Weight, 11 lbs. Price, each..... **\$15.60**
95C4923—Size, about 54x84 in. Extra quality plush. Desirable for automobiles. Weight, 12 1/2 lbs. Price, each..... **\$17.65**

Not rubber interlined. Same quality double plush robes as above only not rubber interlined. Size, about 50x60 inches. Weight, about 5 1/2 pounds.

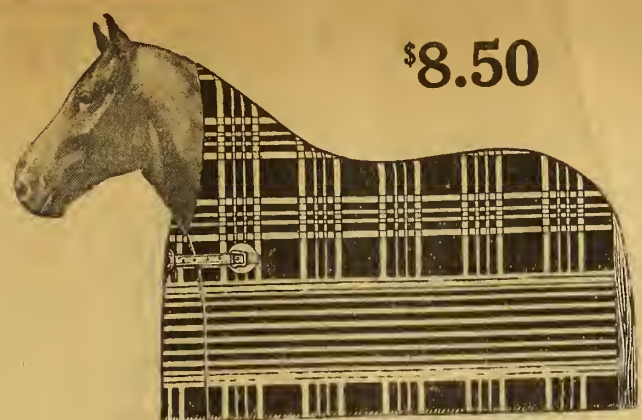
95C4909—Price, each..... **\$9.60**
95C4913—Same as 95C4909 only extra large size, 54x72 inch. Weight, about 7 1/2 pounds. Price, each..... **\$12.80**



Winter Blanket
\$7.85

The colors are rich and harmonious, and the quality is exceptionally fine. It is closely woven, soft and fluffy, and will please the most exacting in every way. A very high class blanket.

95C4547—Size, 84x90 inches. Weight, about 7 pounds. Price, each.....**\$7.85**
95C4548—Size, 90x90 inches. Weight, about 9 pounds. Price, each.....**\$10.00**



\$8.50

Perfection Plaid Blanket

A new Box Plaid Pattern. Black background, with fancy all-over plaids in two-tone brown and yellow effects. Exceptionally strong, close woven warps and about 75 per cent wool.

95C4649—Size, 84x90 in. Weight, about 7 lbs. Price, each.....**\$8.50**



\$6.95

A warm, bright, pleasing plaid pattern, in medium weight and of excellent construction; very desirable for ordinary road use. An exceptional value at price quoted.

95C4509—Size, 80x84 inches. Weight, about 6 pounds. Price, each.....**\$6.95**
95C4510—Size, 84x90 inches. Weight, about 7 pounds. Price, each.....**\$7.50**



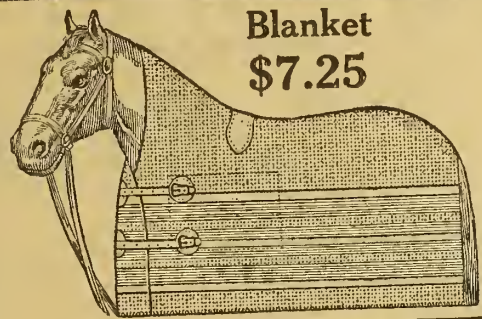
Northwest Blanket
\$5.95

Woven from heavy brown stock, with tough double warps. Has beautifully blended border and body stripes. Is fluffy, warm and strong.
95C4571—Size, 84x90 inches. Weight, about 8 pounds. Price, each.....**\$5.95**
95C4572—Size, 90x90 inches. Weight, about 9 pounds. Price, each.....**\$7.65**

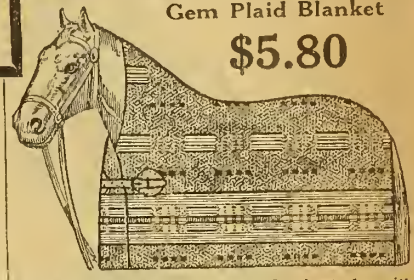
Meadow Brook

Body is of extra quality dark Oxford blanket fabric. The double warps are heavy and close. Has heavy shaped hame leathers, double front strap fasteners, reinforced on inside with large heavy duck stays.

95C4550—Size, 84x90 inches. Weight, about 7 pounds. Price, each.....**\$7.25**

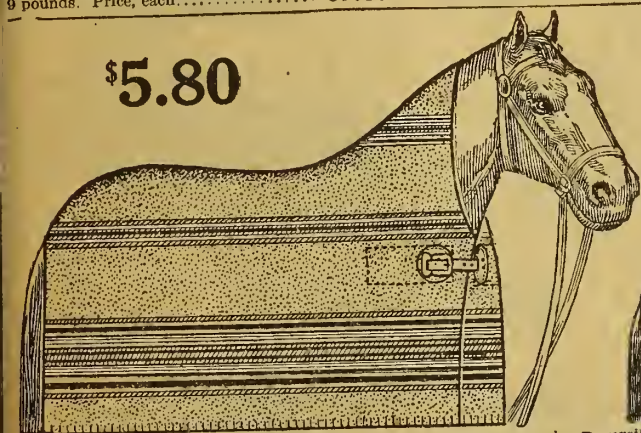


Blanket
\$7.25



Gem Plaid Blanket
\$5.80

Made especially for us. Good stock, with soft wool finish, and extra heavy strong cotton warps, making a very durable blanket.
95C4532—Size, 80x84 inches. Weight, about 6 pounds. Price, each.....**\$5.80**
95C4533—Size, 84x90 inches. Weight, about 7 pounds. Price, each.....**\$6.70**



\$5.80

Blizzard Storm-Proof

One of our big Leaders in price and quality.

This is the warmest, heaviest and fluffiest blanket ever offered by us at the unusually low prices. It is cut from heavy stock, making it extra warm, exceptionally good wear.

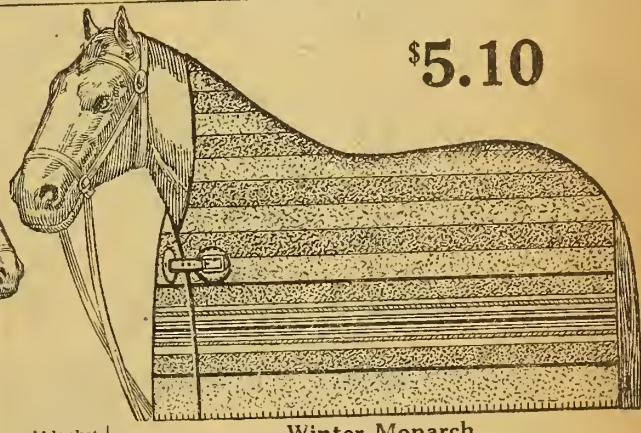
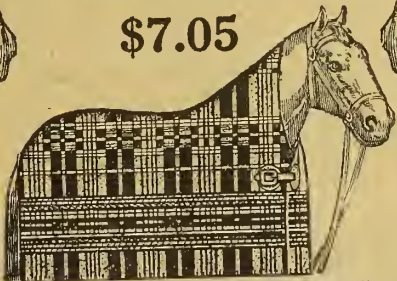
95C4500—Size, 84x90 in. Wt., about 8 lbs. Each.....**\$5.80**
95C4501—Size, 90x90 in. Wt., about 9 lbs. Each.....**6.50**
95C4502—Size, 90x96 in. Wt., about 10 lbs. Each.....**7.75**

Indian Chief Plaid Blanket

\$7.05

Reversible box plaid pattern. Looks and feels like an all wool blanket. The warps are well woven and the pattern one of the most attractive plaids we have ever seen.

95C4579—Size, 80x84 in. Weight, about 6 pounds. Price, each.....**\$7.05**
95C4580—Size, 84x90 in. Weight, about 7 pounds. Price, each.....**8.10**

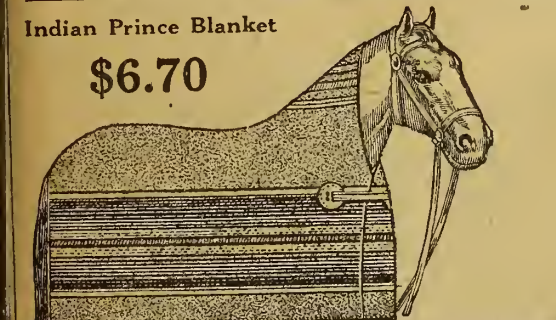


\$5.10

Winter Monarch

This is a blanket we have handled for years, and has always been one of our big sellers.

In the Monarch we offer you a well constructed, serviceable storm blanket. At the low price we quote, this blanket is an exceptionally good value. Breast strap and buckle sewed in and reinforced. Large to completely cover the average size work horse.
95C4564—Size, 84x90 in. Weight, about 7 1/2 lbs. each. Price.....**\$5.10**

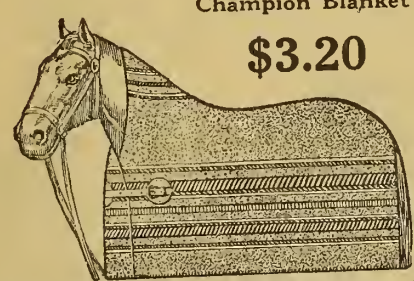


\$6.70

Indian Prince Blanket

Body closely woven of heavy double warps and wool-mixed filling with broad fancy border and body stripes. It is heavy, warm and strong. Just the blanket for large horses.

95C4678—Size, 84x90 in. Wt., about 7 lbs. Price, each.....**\$6.70**
95C4679—Size, 90x90 in. Wt., about 9 lbs. Price, each.....**8.35**

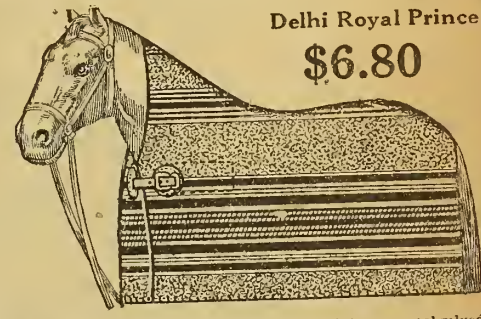


Champion Blanket

\$3.20

Gray body with fancy stripes. Although priced very low this blanket can be depended upon to wear very satisfactorily.

95C5052—Size, 76x80 in. Wt., about 5 lbs. Price, each.....**\$3.20**
95C5053—Size, 80x84 in. Wt., about 5 1/2 lbs. Price, each.....**3.50**
95C5054—Size, 84x90 in. Wt., about 6 lbs. Price, each.....**4.00**
95C5056—Size, 90x96 in. Wt., about 7 lbs. Price, each.....**4.80**

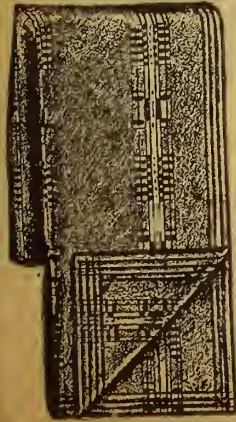


Delhi Royal Prince

\$6.80

An ideal Blanket for large horses. Body is of rich, brown wool mixed stock, warm and fluffy, with beautifully blended broad border and body stripes.

95C4663—Size, 84x90 in. Wt., about 7 lbs. Price, each.....**\$6.80**
95C4664—Size, 90x90 in. Wt., about 9 lbs. Price, each.....**8.40**



Princess Motor Robe

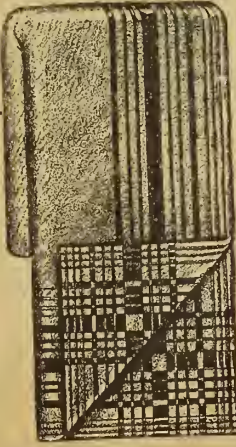
\$6.35

Contains about 75 per cent wool, well made, good warp, fluffy and soft. Dark blue body and fancy plaid stripes. 1 1/2 in. turned lay all around and 3 rows of stitching.
95C4725—Size, 54x74 in. Wt., about 4 1/2 lbs. Price, each.....**\$6.35**

Yukon Motor Robe

\$6.60

Good medium priced robes. Can be used either side; brown body on one side and dark blue body on the other. Has 1 1/2 inch turned lay all around and 3 rows of stitching. About 75% wool.
95C4726—Size, 54x74 in. Wt., about 4 1/2 lbs. Price, each.....**\$6.60**



Iceland Motor Robe

\$5.75

An extra big bargain in a 50 per cent wool robe, a dark gray and black body, with fancy stripes. Has 1 inch turned lay all around, and 3 rows of stitching.
95C4709—Size, 54x74 inches. Weight, about 4 1/2 pounds. Price, each.....**\$5.75**



Warm Well-Made Horse Blankets Priced Low

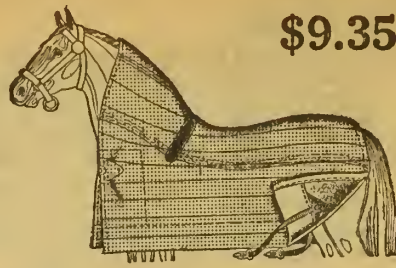


\$4.95

Popular Storm Blanket

This is a good medium grade blanket, and one with which we have had the best of success. It is large enough for horses up to 1250 lbs. Medium weight, brown duck outside, lined with mixed kersey fabric lining extending the full length; adjustable strap with snap on breast; gore inserted for the neck on the front end. 18 rows of stitching. There are no hame leathers on these blankets.

95C4326—Size, width, 80 in.; length, 72 in. Weight, about 6 lbs. Price, each (for 1 horse).....**\$4.95**



\$9.35

Our Winner Storm Blanket

This is an extra heavy brown duck outside, with heavy kersey lining, reinforced under buckle and strap, full quilted, with hame leathers and trace leathers, our best and heaviest storm blanket. It is sure to please you.

95C4353—84x84 in., weight, about 10 lbs. Each, (for 1 horse) **\$ 9.35**
 95C4354—84x90 in., weight, about 11 lbs. Each, (for 1 horse) **10.05**
 95C4355—90x90 in., weight, about 12 lbs. Each, (for 1 horse) **10.50**

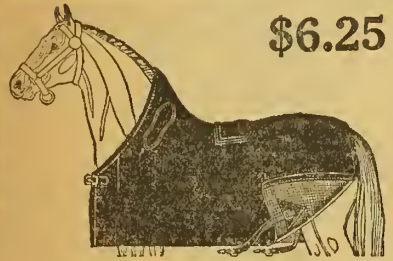


\$7.05

Lumberman's Special

This is a blanket of superior quality that serves its purpose. It shelters your horse from the most biting wind and sleet. It is of heavy brown duck kersey lining; reinforced on top; twenty rows of stitching; hame leathers, trace carriers and adjustable strap sewed on in front.

95C4305—Width, 84 in. Length, 84 in. Weight, about 8 pounds. Price, each (for 1 horse).....**\$7.05**
 95C4306—Width, 84x90 in. Weight, about 9 pounds. Price, each (for 1 horse).....**\$7.50**

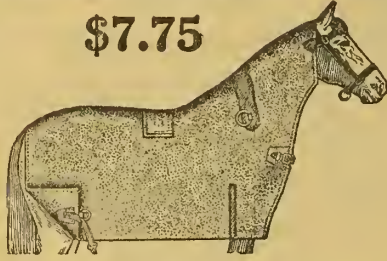


\$6.25

Oiled Duck Covers Over Hames

There are times when your horse needs protection from the cold rains that have such ill effects on his body. Our rain covers offer just the protection he needs. This is one of our fine black oiled water-shed drill hame covers, made of standard quality cotton drill, thoroughly water-repellent, with hame leathers, trace straps and adjustable front strap, also line pocket.

95C4410—Weight, 4 1/4 lbs.; length, 5 ft. 3 in. Price, each (for 1 horse).....**\$6.25**

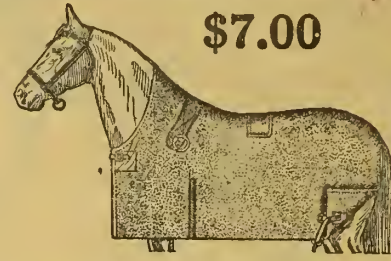


\$7.75

Windsor Rain-Protector Covers

The duck used in these covers is known as 12 oz. sail duck, very durable and close woven. The water-proofing is a chemical process by which every fibre of the cloth is rendered water-repellent. The treatment tends to make the fabric stronger, if anything, than the original duck. The cover finished in a deep tan color, like Army Khaki. The fabric remains pliable under any and all conditions, will not get hard or stiff in the coldest weather yet is porous. Attractive in appearance and will stand hard wear. Extra strong hame leathers with line rings, leather trace carriers with snaps, reinforced breast piece, line pocket and adjustable front straps.

95C4340—Cover to head. Weight, 4 1/4 lbs. Length from ears to tail, 7 ft. 6 in., and from tail to breast fasteners, 6 ft. 6 in. Price, each (for 1 horse).....**\$7.75**
 95C4341—Cover over hames. Weight, 3 3/4 lbs. Length from collar to tail, 5 ft. 6 in., and from tail to breast fasteners, 6 ft. 6 in. Price, each (for 1 horse).....**\$7.00**



\$7.00

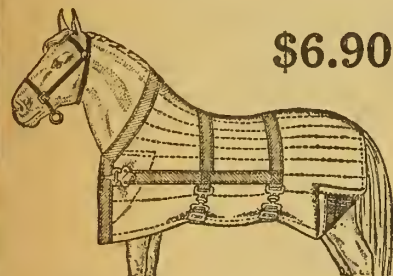


\$6.75

Oiled Drill Cover to Head

A favorite among many of our customers. It is a fine black, oiled drill, rain protector, head horse cover. Hood and body in one piece covering the whole horse, keeping him warm and dry in any kind of weather. Made of standard quality drill and thoroughly water-repellent with fine pocket trace straps and adjustable front strap. Full length oiled cover. Length, 7 ft. 6 in.

95C4400—Weight, 5 1/4 lbs. Price, each (for 1 horse).....**\$6.75**

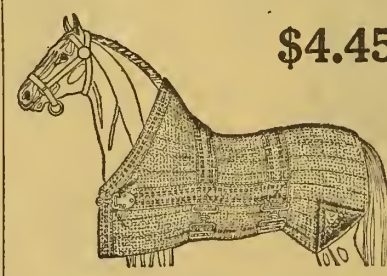


\$6.90

Khaki Stable Blanket

Heavy khaki duck with full plaid fabric lining of good quality. Trimmed with 2-inch boot web around neck and front and sureingles. Substantial metal front fastener; 18 rows of stitching reinforced breast piece.

95C4255—Length, 76 in. Weight, about 6 1/2 lbs. Price, each (for 1 horse).....**\$6.90**
 95C4256—Length, 80 in. Weight, about 7 1/2 lbs. Price, each (for 1 horse).....**\$7.25**
 95C4257—Length, 84 in. Weight, about 8 lbs. Price, each (for 1 horse).....**\$7.75**

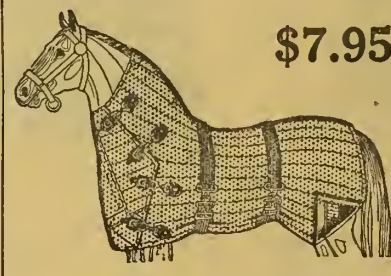


\$4.45

Fit-Well Burlap Blanket

Fit-Well wide Sureingle Blanket—fits the horse properly. Full lined with superior quality brown kersey fabric. Eight rows of stitching, bound neck and front, with two 3 1/2-inch wide adjustable web sureingles, and extra wide stay to second sureingle. Strong leather strap, and snap fastener sewed on and riveted.

95C4200—Length, 76 in. Weight, about 7 1/2 lbs. Price, each (for 1 horse).....**\$4.45**
 95C4201—Length, 80 in. Weight, about 8 lbs. Price, each (for 1 horse).....**\$4.75**

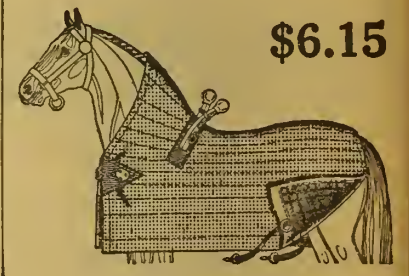


\$7.95

Northwest Blizzard

Our best grade blanket in this style. Storm Blanket made of heavy brown duck, extra durable blanket—fabric lined, folded breast with strap and buckle fasteners, reinforced on top of neck, strong full quilted, two 3 1/2-in. extra fine adjustable web sureingles.

95C4330—Size, width, 80 in.; length, 84 in. Weight, about 9 lbs. Price, each (for 1 horse).....**\$7.95**
 95C4331—Size, width, 80 in.; length, 90 in. Weight, about 10 lbs. Price, each (for 1 horse).....**\$8.35**



\$6.15

Wonder Storm Blanket

Heavy brown duck outside and full lined with fancy kersey striped heavy lining, turned up and hemmed on bottom edges. Hame leathers, heavy trace straps and adjustable strap on front. Gore inserted for neck on front end, twenty rows of stitching.

95C4300—Width, 80 in.; length, 80 in. Wt., abt. 7 lbs., according to size. Price, each (1 horse).....**\$6.15**
 95C4301—Width, 80 in.; length, 84 in. Weight, about 8 lbs. Price, each (for 1 horse).....**\$6.40**



\$5.15

Quilted Duck Stable

12-row, stitched and quilted Brown Duck Stable Blanket. Made from heavy brown duck, full lined throughout, with extra quality, kersey fabric lining, reinforced breast piece. Two extra wide heavy adjustable boot web sureingles. Substantial snap and dee front fastener. Weight, 5 1/4, 5 1/2, 6 1/2 pounds.

95C4232—Length, 76 inches. Price, each (for 1 horse).....**\$5.15**
 95C4233—Length, 80 inches. Price, each (for 1 horse).....**5.35**
 95C4234—Length, 84 inches. Price, each (for 1 horse).....**5.55**

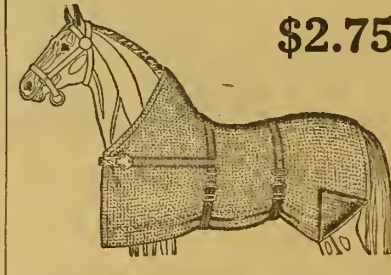


\$3.25

Peerless Plaid Stable

The fabric lining and outside of the blanket are woven together with a center lining of best quality, finely woven burlap, making a blanket that is heavy and warm. The pattern is a neat, square block plaid, in two-tone brown colors. The neck, front, bottom and rear of the blanket are bound all around with 2-in. boot web trimmings. Two wide 2-in. heavy boot, web sureingles. Extra reinforcements.

95C4217—Length, 76 in. Weight, about 5 lbs. Price, each (for 1 horse).....**\$3.25**
 95C4218—Length, 80 in. Weight, about 5 1/2 lbs. Price, each (for 1 horse).....**3.50**



\$2.75

Premier Stable Blanket

Anyone wishing a medium grade blanket should try our Premier. It has found favor in many stables, and speaks for itself. It fits itself comfortably to any horse by means of the sureingles, always an attractive feature in any blanket. The Premier is a burlap stable blanket, made from 10-ounce mangled finish burlap, 1/2 lined with gray mixed lining, two adjustable web sureingles, snap and dee fastener on front.

95C4243—Length, 72 in. Wt., about 3 lbs. (1 horse).....**\$2.75**
 95C4244—Length, 76 in. Wt., about 3 1/2 lbs. (1 horse).....**2.90**



\$2.40

Unlined Stable Blanket

For a low priced blanket we recommend this unlined stable blanket as one that will give good service. It is of Brown Duck. Weight, about 1 1/2 to 2 1/4 lbs., according to size.

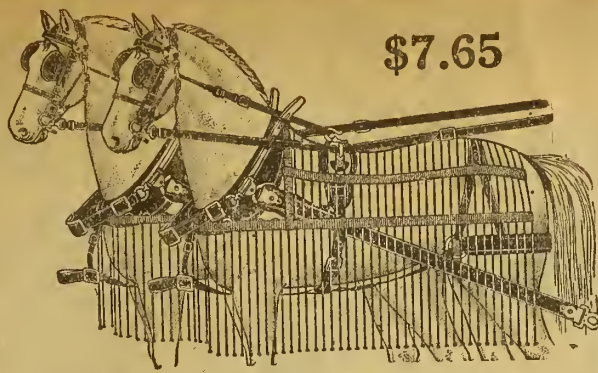
95C4205—Length, 72 in. (For 1 horse).....**\$2.40**
 95C4206—Length, 76 in. (For 1 horse).....**2.50**
 Heavy Burlap, Unlined Blanket, made from 10-oz. mangled burlap; leather snap fastener. Weight, about 2 to 2 1/4 lbs., according to size.
 95C4211—Length, 72 in. (For 1 horse).....**\$2.00**
 95C4212—Length, 76 in. (For 1 horse).....**2.15**



\$2.30

Standard Cattle Covers

Protect your Cows from Flies. This means more milk with less feed. Made of good quality burlap. Snaps around cow's breast with a wide surcingle and short stay, back of fore legs. Surcingle goes around each hind leg of the cow. Cover cannot slip to one side, or come off. Medium size. Length, 62 inches. Weight, about 2 lbs. 4 oz. **\$2.30**
95C4036—Price, each (for 1 cow).....
95C4037—Same style cover as 95C4036, but made from good quality heavy brown duck. Wt., each, about 26 ounces.
 Price, each (for 1 cow).....**\$3.45**



\$7.65

Our National Brand Fly Nets

A High Grade all Leather Team Net

Round, heavy Black leather Team Nets. Body and Breast from selected harness leather. 5 bars, 3/4-inch wide, and heavy, length, 5 ft. Extra length lashes. Breast piece 3 ft. from ring to ring, buckling in center. Body of net, entire length from center of breast piece to tip of tail piece, length, 6 ft. 4 in. Lashes are applied at center bar of net and guaranteed not to come out, but if the lashes should come loose in center will give you a new net. **\$7.65**
95C125—With 70 lashes. Weight, 6 1/4 lbs. Price, each (for 1 horse).....
95C146—Same style as 95C125 only not quite as heavy. Made in 60 lashes and 5 1/2-inch bars. Weight, about 5 pounds. Price each (for 1 horse).....**\$4.60**

Braided Bar Cord Nets

Our highest grade braided bar cord nets. There is nothing better made in a cord net. Body and Breast style, 3-ply cord hand braided bars, with lashes woven in so they cannot slip. Full size 60-inch bars, and 7 1/2-foot lashes, woven stays around the front and with breast piece. Yellow lashes with solid black braided bars. Weight, about 3 pounds. **\$3.95**
95C3113—55 lashes. Price, each, for one horse.....
95C3114—70 lashes. Same style and grade as above, but Yellow lashes with black and white braided bar. Weight, about 3 1/2 lbs. Price, each, for one horse.....**\$4.50**
95C3115—100 lashes, same style and grade as above, but Yellow lashes with black and white bars. Weight, about 4 lbs. Price, each, for one horse.....**\$5.75**
95C3116—Extra large, but same style and grade as above. 84 brown lashes 8 1/2 foot with yellow and purple braided bars. 66 inches long. Ship. Wt., 4 lbs. Price, each, for one horse.....**\$6.10**

Ajax Web and Leather Bar Cord Net

Made of 2-ply hard twisted Yellow Cord with a web under bar and a leather top bar about 60 inches long. 7 1/2-foot lashes with metal hands at ends to keep lashes from unraveling and lashes are sewed between the bars to keep them from slipping. Weight, 3 lbs. **\$3.50**
95C3120—60 lashes. Price, each, for one horse.....
95C3121—70 lashes. Price, each, for one horse.....**3.75**

Our Highest Grade Cord Nets

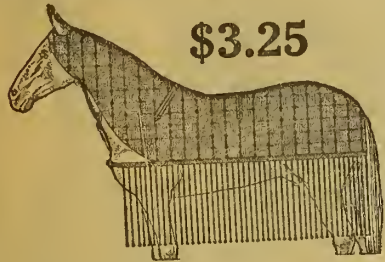
Body and Breast style, 3-ply cord, hand braided bars with lashes woven into bars to keep them from slipping. Full size, 60-inch bars and 7 1/2 feet lashes, woven stays around the front and breast piece. Yellow lashes with solid yellow hand braided bars. There are double the number of lashes over the back as they are from the lower bar down, the best grade in this style of a net. Wt., about 2 1/2 lbs. **\$3.98**
95C3127—84 lashes over top and 42 lashes below lower bar. Price, each for one horse.....
95C3128—100 lashes over top and 50 lashes below, Yellow lashes with yellow and black braided bars. Weight, about 3 lbs. Price each for one horse.....**\$4.95**
95C3129—140 lashes over top and 70 lashes below, Brown lashes with yellow and white braided bars. Weight, about 3 1/2 lbs. Price, each for one horse.....**\$5.80**
95C3130—180 lashes over top and 90 lashes below, Yellow lashes with black and white bars. Weight, about 5 lbs. Price, each for one horse.....**\$6.65**



\$2.30

Russet Leather Net

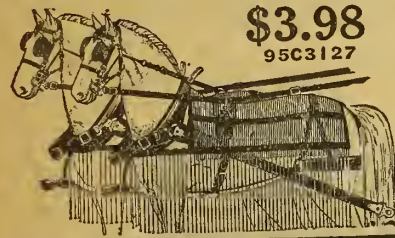
Intended for those who want a leather net at a low price. We sell a great many, but do not recommend them to those who are looking for a good net. Made of bolting leather stapled to bars, strings are pieced in the center and extra long. Length is 5 ft. 4 in. on center bar is large net, will fit average large horse; 70 strings in body, breast piece extra. Strings are close together which keeps flies off the horse. Weight, of net, 5 1/2 lbs. **\$2.30**
95C3141—
 Price, each.....



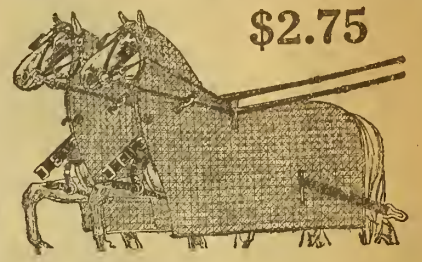
\$3.25

Combination Cover and Fly Net

Attractive heavy ecru color netting. Leather trimmed hame and terret holes; reinforced ear holes and front fastener. 50 old gold cotton cord lashes, long enough to protect the horse's legs from flies and mosquitoes. Weight, about 1 lb. 6 oz. **\$3.25**
95C4027—Length, 90 in. (for 1 horse)
 Price, each for one horse.....



\$3.98
95C3127



\$2.75

Norman Fly Cover

Made of closely woven, strong open weave construction fabric in a rich ecru color. Especially adapted for horses during plowing, harvesting and threshing seasons as a protection against flies, mosquitoes, buffalo gnats, etc. Leather trimmed hame and terret holes, duck trimmed ear boles, and leather trace hobs. **\$2.75**
95C3013—Length, 90 in. Wt., abt. 28 oz.
 Price, each for one horse.....
95C3014—Length, 100 in. Wt., about 32 oz. **\$2.95**
 Price, each for one horse.....
95C3015—Length, 110 in. Wt., about 36 oz. **\$3.15**
 Price, each for one horse.....

To be fastened to bridle. Made of galvanized steel wire cloth, rim bound with two ply heavy duck. Slide rings riveted on with leather straps. Shipping weight, about 1 lb. **35C**
95C3150—Price, each.....
95C7051—Double Snap to be used with Nose Protector. Same style as 95C7050 on page 969, only smaller. Size about 1 1/4 in. Price, 2 for.....**15c**



Our Price on These Horsehide Driving

\$1.98 Pair **Gloves is Less Than Today's** **\$1.98** Pair
Cost to Manufacture

You Save a Dollar on Every Pair You Buy

An Unlined Glove for Chauffeurs, Drivers, Farmers, Mechanics, Engineers, Machinists and those requiring a Medium-Weight Glove for Service



35C7252—Sizes, 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 10 1/2, 11. Color, Olive Drab. Ship. wt., 6 oz. **\$1.98**

This glove is made of selected quality buffed horsehide. A splendid, well made driving glove that is very comfortable on the hand and fits like a dress glove. It is full out seam sewn. Closed gore at wrist with adjustable leather wrist strap. Can be supplied in Olive Drab only. Be sure to state size wanted.

A very timely and fortunate purchase from the French Government enables us to offer you this excellent glove, made especially for officers of the French Army, at fully one-third less than we could sell it for today under present market conditions. It is representative of the highest workmanship, with the best and most carefully selected leather throughout. It is chrome tan and will not become hard after having been wet. When soiled it can be washed in soapy water or gasoline. It is very strong, yet soft and pliable. You can save one dollar on every pair you order at this very low price and it would be decidedly to your advantage to buy several pair, as this offer is most unusual and may never be duplicated.

35C7251—Sizes, 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 10 1/2, 11. Color, Olive Drab. Ship. wt., 5 oz. **\$1.98**

This glove is made of selected quality grain horsehide. A well made, serviceable driving glove, fits correctly and is as neat as a dress glove. Is full out seam sewn made with one clasp fastener at wrist. Be sure to state size wanted.

Try Circle Brand Harness Oil on that old harness hanging in the barn.

Montgomery Ward & Co Chicago

Sattley Standard Farm Equipment

Quality Implements

Made in Our Own Factory at
Springfield, Illinois
Sold to You at a Worth While
Saving in Price

Standard Design

Strong, Heavy Construction
Full Weight

Shipped from a Warehouse
Near You

Quick Service on Repairs

All our implements and farm equipment are sold with the understanding that they are to be perfectly satisfactory to you in any fair field trial—if they fail to satisfy you in any way you are privileged to return them at our expense—and your money will be refunded.

We will replace without charge any defective parts. We guarantee to furnish you repairs in all the years to come for any Sattley item you may order from us now.

You are always assured of repair parts for any implements you buy from Montgomery Ward & Company. We are always in a position to supply your repair parts. We carry a big stock of repairs and can supply your needs quickly. Repair stations are located at the following points:

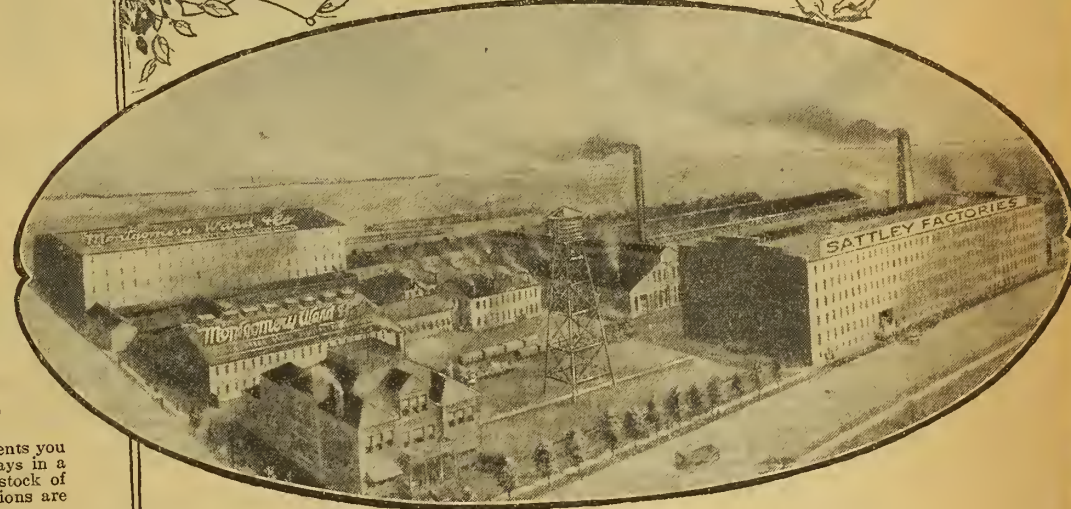
Engine Repair Stations
Chicago, Ill. Kansas City, Mo. Fort Worth, Tex.
Jackson, Mich. Portland, Ore.

Separator Repair Stations
Chicago, Ill. Kansas City, Mo. Springfield, Ill.
Portland, Ore. Fort Worth, Tex.

Sattley Implement Repair Stations
Chicago, Ill. Kansas City, Mo. Springfield, Ill.
Portland, Ore. Fort Worth, Tex.

In cases of emergency telephone or wire us at Chicago and we will see that the repairs are shipped promptly as per your instructions.

We have established these stations to give you quick service on repair parts as well as on complete machines.



Quick Shipment from Warehouse Nearest You

Stocks of Sattley Implements, Separators, and Engines are carried at the following warehouse houses throughout the country:

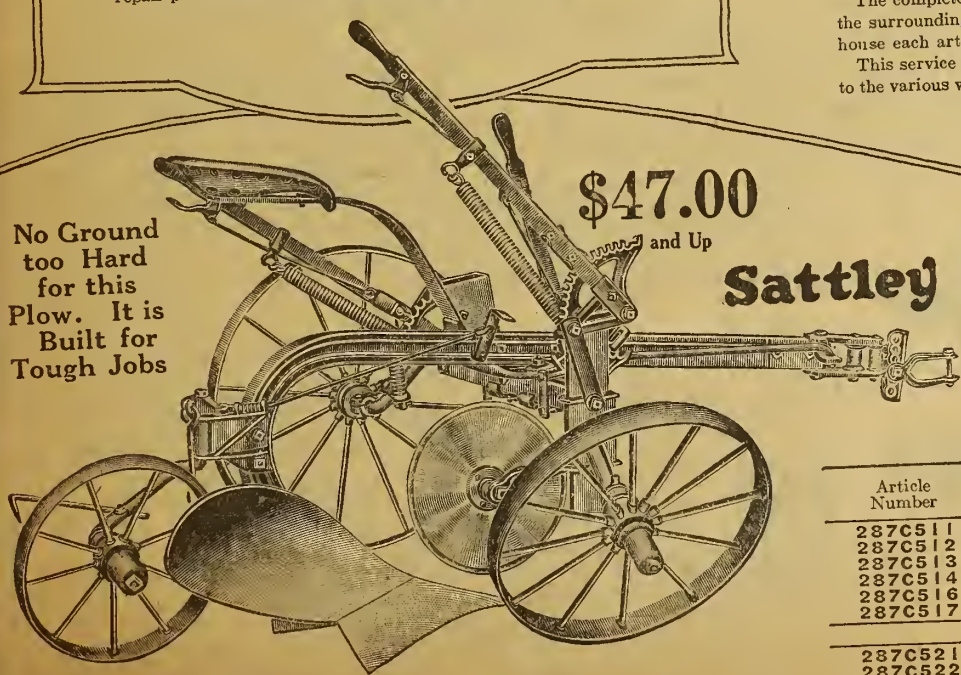
Des Moines, Ia.
Springfield, Ill.
Fort Worth, Texas
Oklahoma City, Okla.

Omaha, Nebr.
Jackson, Mich.
Oakland, Calif.
Portland, Ore.
Pittsburgh, Pa.

Saint Paul, Minn.
Atlanta, Ga.
Kansas City, Mo.
 Fargo, N. Dak.

The complete line is not carried at all points, but each warehouse carries the articles most used in the surrounding territory and you will see from the descriptions and price tables from which warehouse each article is shipped.

This service means quick delivery to you and a big saving in freight charges, for all articles are sent to the various warehouses in carload lots and you pay freight only from the warehouse.



No Ground too Hard for this Plow. It is Built for Tough Jobs

\$47.00 and Up

Sattley Royal Sulky Plow

Heavy reinforced steel cross bars; beam can be adjusted for bottoms of different widths cut. Coil springs insure easy operation. Steel and malleable in construction throughout.

The Sattley Royal Sulky is furnished regularly with the Sattley rolling coulter weed hook, and our regular three-horse evener.

The Stubble and Turf and Stubble series have soft-center steel moldboard and share. The alfalfa bottoms have soft-center moldboard and solid steel shares.

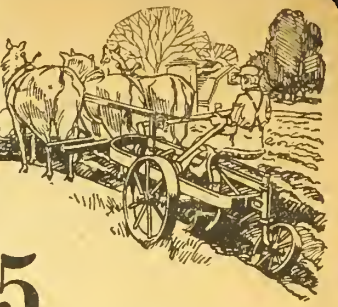
Article Number	Cut Inches	Style	Ship. Wt., Lbs.	Price	Extra Shares	
					Article No.	Price, Each
287C511	14	Stubble	390	\$47.00	X14	\$3.85
287C512	16	Stubble	395	47.50	X16	4.15
287C513	14	Turf and Stubble	393	47.75	X14	3.85
287C514	16	Turf and Stubble	398	48.25	X16	4.15
287C516	14	Alfalfa Land	398	49.75	AX14	3.85
287C517	16	Alfalfa Land	403	50.25	AX16	4.15
Sattley Royal Sulky—Left Hand						
287C521	14	Turf and Stubble	393	\$49.85	X14LH	\$3.90
287C522	16	Turf and Stubble	398	50.35	X16LH	4.20

Shipped from our factory at Springfield, Illinois

Our warehouses are service stations established for your benefit.

Montgomery Ward & Co Chicago

Sattley Riding Plows



Sattley Gang Plow

\$86.25

Up

Steering Rod. See Description Below Explaining How it Prevents "Side-Thrust" on Tongue

Levers, Convenient to Operate

Single Bail Lightens the Draft

Solid Front Beam Brace

Adjustable Clevis

Solid One-Piece Steel Frame

Oil-Tight, Dust-Proof Wheel Box

Highest Quality Steel Bottoms

Single Bail Makes Light Draft

Quality of Plowing. The bottoms of the Sattley plows are carried in the frame upon a single bail which allows the plow bottom to be carried in the ground at a uniform depth, not being affected by the wheels or the plow frame in running over the unevenness of the surface of the ground, thus insuring a level plowed field under all conditions.

Lightness of Draft upon the Horses. In connection with the single bail feature we use a bell crank arrangement for carrying the side pressure directly to the rear wheel, thus relieving the landside pressure and lessening the draft upon the horses.

The bell crank works with a free, rocking motion, preserving at all times the perfect flexibility of the plow in the soil and at the same time carrying the pressure from the mold-boards directly to the rear wheel.

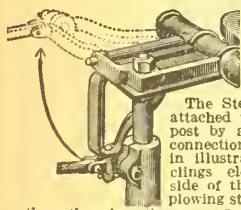
Equalizer gives Furrow Horse More Room. Special care is taken of the furrow horse by equipping the plow with the famous Sattley equalizer which gives the furrow horse more room. This prevents the rub of the tugs and side straining which tires the furrow horse and naturally results in tendency on his part to lag and thereby cause imperfect plowing.

Bottoms. Shares and moldboards of highest grade soft center steel specially tempered to produce good scouring qualities. Sattley bottoms have double shin which consists of a piece of high carbon steel welded on top of moldboard to give added wearing qualities. This shin is about 25 per cent larger than that on other plows. Share is reinforced by having a piece of high carbon steel welded on top of the point.

Sattley Rolling Coupler. Tempered Steel Blade of best quality, equipped with long malleable hubs, riveted by wide flanges to either side. The hubs on each side are 2 1/2 inches long, having a greater bearing than is used on most couplers and gives the Sattley Coupler its great wearing qualities.

Equipment. Equipped regularly with the famous Sattley Rolling Coupler, Weed Hooks and Sattley patented 4-Horse Equalizer and neekyoke.

Hinged Arm for Steering Rod Prevents "Side Thrust"



The Steering Rod is attached to the tongue post by a hinged arm connection (as shown in illustration), which clings closely to the side of the post, when plowing straight ahead, thus throwing the pressure of the rear wheel directly against the post.

This overcomes the common defect of "side thrust" on the tongue. In turning around in either direction, this hinged arm swings out automatically at right angles with the tongue post (as shown by the dotted line), bringing the rear wheel around in exact time with the front one, and then drops back against the tongue post as before, locking the rear wheel rigidly in position in the corner of the furrow.

Sattley Gang Plows—Right Hand

Article Number	Cut Inches	Ship Wt. Lbs.	Style	Price at Chicago or Springfield Illinois	Price at Saint Paul Minn., or Omaha, Neb.	Price at Fargo, North Dakota	Extra Shares Article No. 287C173		
							Share No.	Price, each Chicago or Springfield	Price, each Omaha, Fargo or Saint Paul
287C551	Two-12'e	730	Stubble	\$86.25	\$89.95	\$91.70	X12	\$3.50	\$3.60
287C552	Two-14'e	740	Stubble	87.25	90.95	92.70	X14	3.85	3.95
287C553	Two-12'e	735	Turf & Stubble	87.50	91.25	93.00	X12	3.50	3.60
287C554	Two-14'e	745	Turf & Stubble	88.50	92.25	94.00	X14	3.85	3.95

Sattley Gang Plows—Left Hand—Shipped from Springfield

287C561	Two-12's	735	T & S	\$90.50			X12LH	\$3.55	
287C562	Two-14'e	740	T & S	91.50			X14LH	3.90	

Extra Prairie Breaker Bottoms—Right Hand Only.

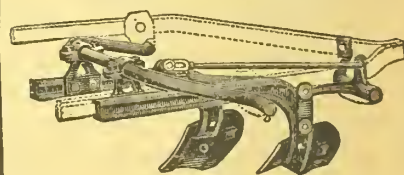
287C567	—12-in. Prairie Breaker Bottom, including extra share.	Per bottom	\$16.55
287C568	—14-in. Prairie Breaker Bottom, including extra share.	Per bottom	17.10

5-Horse Evener in Place of 4-Horse

For 5-Horse Ahead Evers in place of 4-Horse Evener, Extra	\$1.10
For 5-Horse Strung-Out Evener in place of 4-Horse Evener, Extra	2.40

Shipped from Springfield, Omaha, Fargo or Saint Paul Warehouse.

Bell Crank and Connecting Rod



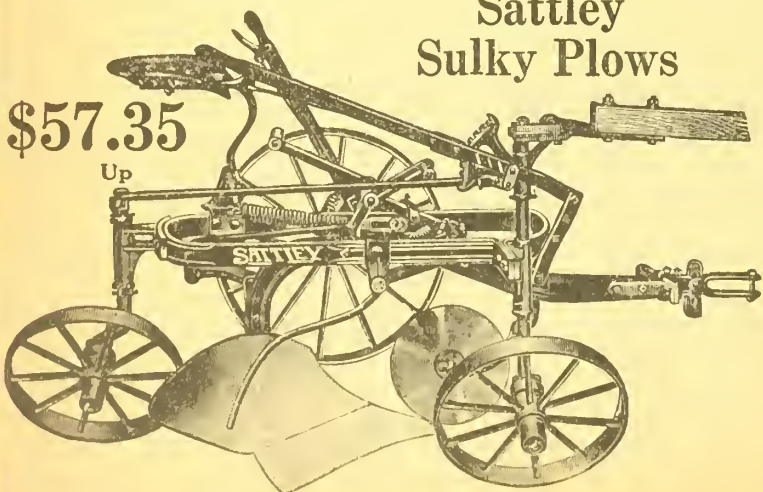
This illustration shows the Bell Crank and connecting rod which lighten the draft because they carry the side pressure directly to the rear wheel.

Perfect Suction at any Depth. An adjustable connecting rod controls the vertical action of the bell crank, keeps the plow bottom in proper relation to the soil, thereby maintaining the uniform suction of the bottoms. This rod is adjustable so that the suction can be adjusted as the shares become worn, making it possible to do perfect work even as the plow wears from long, hard service.

Sattley Sulky Plows

\$57.35

Up



Identical in principle to the Sattley Gang Plow. Absolutely impossible for the bottoms to carry any portion of the weight of the frame or operator. The Sattley bottoms are positively carried by the wheels always, no matter how rough or uneven the ground. This makes a lighter draft and insures cutting level furrows regardless of the unevenness of the field.

Other features are the steering rod which prevents side thrust; the solid one-piece steel frame; oil tight, dust-proof, wheel box; convenient operating levers; adjustable clevis and highest quality steel bottoms. Equipped regularly with the Sattley rolling coupler, weed hook and a 3-horse evener.

Sattley Sulky Plows—Right Hand

Article Number	Cut Inches	Ship. Wt. Lbs.	Style	Price at Chicago or Springfield Illinois	Price at Saint Paul or Omaha	Price at Fargo, N. Dak.	Extra Shares Article No. 287C173		
							Share No.	Price ea. at Chicago or Springfield	Price ea. at Fargo, Omaha or Saint Paul
287C571	14	472	Stubble	\$57.35	\$59.75	\$61.00	x14	\$3.85	\$3.95
287C572	16	477	Stubble	57.85	60.25	61.50	x16	4.15	4.25
287C573	14	475	Turf & Stubble	58.35	60.75	62.00	x14	3.85	3.95
287C574	16	480	Turf & Stubble	58.85	61.25	62.50	x16	4.15	4.25
287C575	14	480	Alfalfa	59.85	62.25	63.50	Ax14	3.85	.....
287C576	16	485	Alfalfa	60.35	62.75	64.00	Ax16	4.15	.....

287C568—14-inch Prairie Breaker Bottom—Right Hand Only—Including Extra Share. Price at all Warehouses \$17.10
 287C569—16-inch Prairie Breaker Bottom—Right Hand Only—Including Extra Share. Price at all Warehouses 17.65

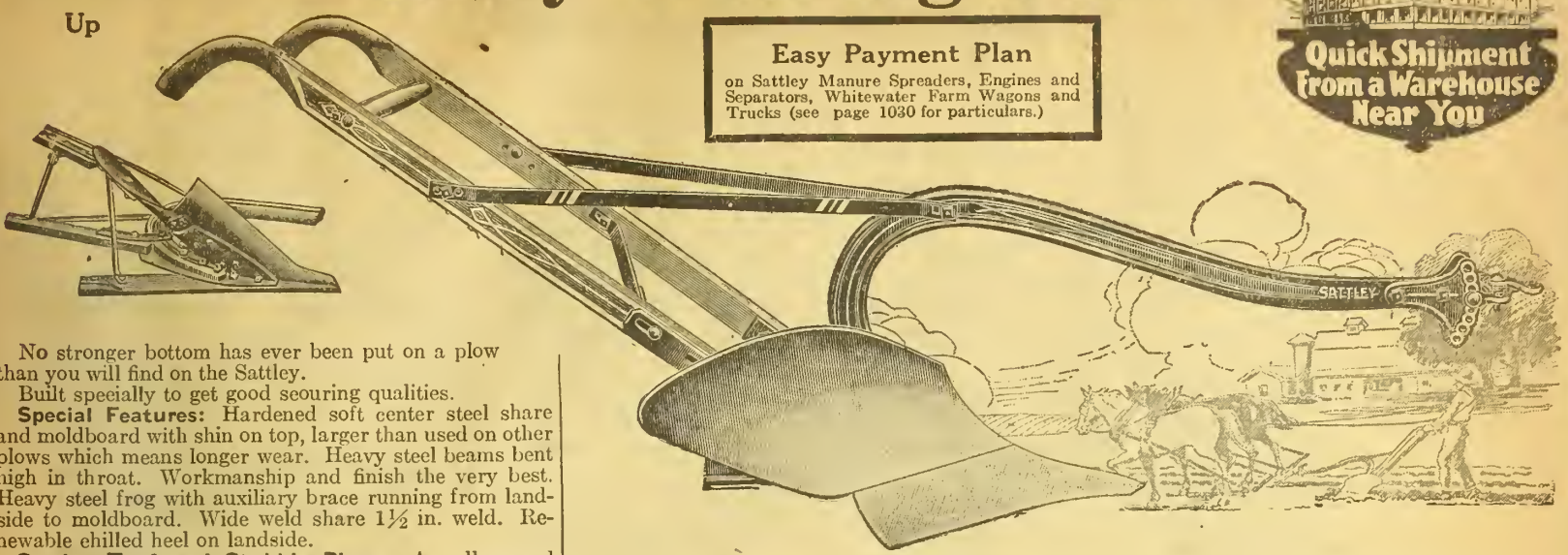
Sattley Sulky Plows—Left Hand—Shipped from Factory at Springfield, Ill.

287C578	14	475	Turf & Stubble	Price...	\$60.25	Extra Share Price...	\$3.90
287C579	16	480	Turf & Stubble	Price...	60.75	Extra Share Price...	4.20

\$15.25 Sattley Walking Plows



Easy Payment Plan
on Sattley Manure Spreaders, Engines and Separators, Whitewater Farm Wagons and Trucks (see page 1030 for particulars.)



No stronger bottom has ever been put on a plow than you will find on the Sattley.
Built specially to get good scouring qualities.
Special Features: Hardened soft center steel share and moldboard with shin on top, larger than used on other plows which means longer wear. Heavy steel beams bent high in throat. Workmanship and finish the very best. Heavy steel frog with auxiliary brace running from landside to moldboard. Wide weld share 1 1/2 in. weld. Renewable chilled heel on landside.
Sattley Turf and Stubble Plows: An all-around general purpose plow. Very satisfactory in clover sod, grass, etc. The long graceful curve of the moldboard lays the sod flat in even regular laps, which presents an excellent surface for harrowing. Also used for work in old ground.
Sattley Stubble Plow: For plowing in stubble land, or old ground and particularly efficient in weedy trashy land. The easy turn of the moldboard inverts the furrow in such a manner as to cover trash perfectly and leave land level.

Article Number	Size Cut Inches	Style	Ship. Wt. Lbs.	Price at Factory Springfield, Illinois	Price at Saint Paul or Omaha	Price at Fargo, N. Dakota	Extra Shares Article Number 287C173		
							Share No.	Price at Springfield	Price at Omaha, Saint Paul or Fargo
287C601	12	Turf and Stubble, Right Hand	112	\$15.25	\$15.35	\$16.15	X12W	\$3.50	\$3.60
287C602	12 1/2	Turf and Stubble, Right Hand	115	17.25	18.35	19.15	X14W	3.35	3.95
287C603	16	Turf and Stubble, Right Hand	120	20.00	20.60	20.90	X16W	4.15	4.25
287C605	12	Stubble, Right Hand	103	14.90	15.50	15.80	X12W	3.50	3.60
287C606	14	Stubble, Right Hand	111	17.50	18.10	18.40	X14W	3.35	3.95
287C607	16	Stubble, Right Hand	118	19.65	20.25	20.55	X16W	4.15	4.25
287C611	12	Turf and Stubble, Left Hand	112	15.25	15.35	16.15	X12WLH	3.55	3.60
287C612	12 1/2	Turf and Stubble, Left Hand	115	17.25	18.35	19.15	X14WLH	3.35	3.95
287C613	16	Turf and Stubble, Left Hand	120	20.00	20.60	20.90	X16WLH	4.20	4.25

Sattley Brush Plows \$16.25

Quick Shipments from Springfield, Illinois, Saint Paul, Minnesota, Fargo, North Dakota.

Especially designed for work in the timber and brush lands. Particularly strong and well braced. The steel standard is also very heavy and is rigidly bolted by two large bolts to both beam and landside. The entire construction of the bottom is exceptionally strong and well designed to meet the requirements of this kind of work. As on all our other plows the handles are straight, detachable and interchangeable upon plows of similar styles. Note our brush plow is furnished with a Solid Steel Share, that can be hammered out when worn by hard work. Equipped with Reversible cutter. Made in right hand only.

Article Number	Size Cut In.	Shipping Weight	Price at Springfield, Ill.	Price at Saint Paul Minnesota	Price at Fargo N. Dakota	Extra Shares Article No. 287C171		
						Share No.	Price at Springfield	Price at Saint Paul or Fargo
287C655	12 1/2	115 lbs.	\$16.25	\$16.85	\$17.15	X12W	\$2.40	\$2.50
287C656	14	120 lbs.	17.25	17.85	18.15	X14W	2.65	2.75

Sattley Prairie Breaker \$22.50

A dependable plow designed for hard service. Solid steel moldboard heavy steel standard cap, bolted with two bolts to the beam, extra braced. Beam is of selected oak-stock, reinforced underneath with a heavy steel strap. The construction throughout makes this plow specially adapted for prairie breaking. The share lays very flat to insure the best penetrating and cutting qualities. The moldboard has a long, easy curve which turns the sod completely over and lays it perfectly flat enabling it to retain the moisture. Regularly equipped with slip share attached with two bolts to landside, where most plows use but one; also equipped with gauge wheel and rolling couler. One extra share. Made in right hand only.

Article No	Size Cut Inches	Ship. Wt. Lbs.	Price at Springfield, Ill.	Price at Saint Paul Minnesota	Price at Fargo N. Dakota	Extra Shares Art. No. 287C171		
						Share No.	Price at Springfield, Ill.	Price at Saint Paul or Fargo
287C652	14	165	\$22.50	\$23.25	\$23.65	NC24	\$3.45	\$3.55

Sattley Blackland Walking Plows Right Hand Only \$11.00

Made with a strong steel beam that is bent high in the throat to prevent choking. Seasoned oak handles securely braced and bolted. Has a peculiar turn to moldboard which makes it especially suited to stiff waxy black soil. The high tempered surface of soft center steel moldboard and solid steel share insure good scouring.

Shipped from our Factory at Springfield, Illinois

Article Number	Size Cut Inches	Shipping Weight	Price Including Extra Share	Extra Shares Article No. 287C171	
				Share No.	Price Each
287C626	8	80 lbs.	\$11.00	D8W	\$1.70
287C627	9	82 lbs.	12.25	D9W	1.85
287C628	10	85 lbs.	12.60	D10W	2.00
287C629	12	115 lbs.	15.75	D12W	2.60
287C630	14	118 lbs.	18.25	D14W	2.85

Sattley Middle Buster An Old Favorite \$12.55

A very popular plow in the Cotton and Tobacco growing states. It is very effective in mixed sandy and black lands. Built with an extra heavy steel beam with high throat. Solid steel moldboard, and share. Regularly furnished with a rudder to guide and steady the plow. Handles are of well seasoned oak. Ship. wts. 90, 95 and 100 lbs.; shares: 7 1/2, 8 and 8 1/2 lbs.
287C658—Middle Buster, 10 in. Price at Springfield, Ill. \$12.55 Price at Omaha, Nebr. \$13.00
287C659—Middle Buster, 12 in. Price at Springfield, Ill. \$13.15 Price at Omaha, Nebr. \$13.65

287C662—Extra share, 12 in. \$2.00
287C663—Extra share, 14 in. \$2.20

← Climax One-Horse Plows → Steel Beam \$7.35

With Extra Share

Steel Beam	Cuts Ins.	Ship. Wt.	Price	Ext. Shares Art. No.	Price
187C834—Pony,	7	60	\$7.35	187C827	\$0.51
187C836—A. O.,	8	63	8.30	187C829	.67
187C840—C. O.,	10	85	11.00	187C833	1.00

Wood or Steel Beam. Right Hand Only. Extra Share with each Plow. Solid Steel Bottoms.

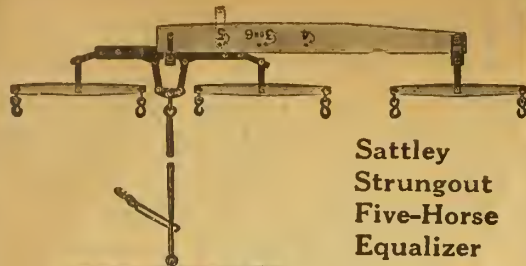
Light Draft, especially adapted for cotton and corn lands but suitable for all stubble and light sod plowing with one horse. Very successful for gardens, nurseries or orchard work. Have steel moldboard, steel share, sloping landside, solid steel frogs and an adjustable slip heel. Wood handles are strong and well made. Wood beams, selected quality of tough hardwood. Steel beams are double flange and well arched. Adjustable clevises. One extra share furnished with each plow. Weight, extra share: Pony, 2 1/2 pounds; A. O. 3 1/4 pounds; B. O. 3 1/2 pounds; C. O. 4 1/2 pounds.

Wood Beam \$5.15

With Extra Share

Wood Beam	Cuts Ins.	Ship. wt.	Price at Chicago	Price at Atlanta	Ext. Shares Art. No.	Price at Chicago or Atlanta
187C826—Pony,	7	37	\$5.15	\$5.45	187C827	\$0.51
187C828—A. O.,	8	42	6.00	6.35	187C829	.67
187C830—B. O.,	9	43	6.60	6.95	187C831	.80

Sattley Eveners



Sattley Strungout Five-Horse Equalizer

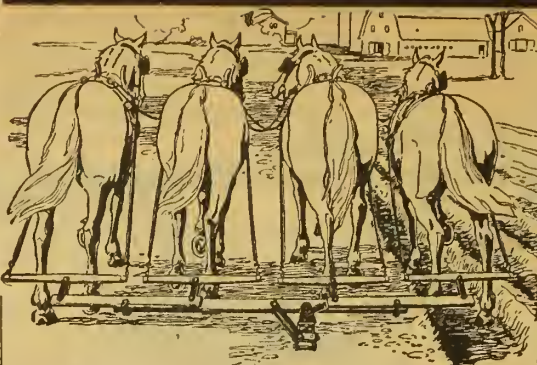
Can be used with 3, 4 or 5 Horses.

The Sattley 5-Horse Strungout Evener is a very convenient Combination Hitch, and can be changed around for a 3-Horse-Abreast or a 4-Horse Strungout Hitch. Made throughout of the best hard wood, malleable iron and steel.

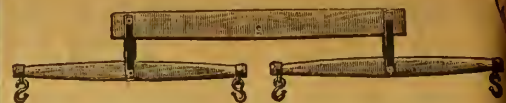
In order that it may fit all plows, this evener is furnished with a special hitch for attaching to frame hitch plows or plows having a small frame on ends of beams. For plows, with regular beam clevis, this special hitch is not needed. Weight, about 100 lbs.

287C1290 —Sattley 5-Horse Strungout Evener. Complete with special hitch.....	Price at Springfield, Ill.	Price at Omaha or Saint Paul	Price at Fargo, N. D.
	\$12.35	\$12.85	\$13.10

If special hitch is not wanted, deduct..... **.75c**



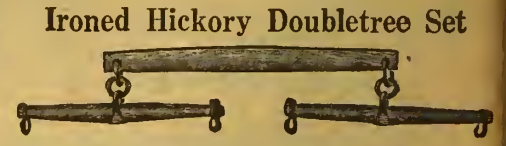
Sattley Plow Equalizers enable you to do good work because they give the furrow horse ample room so he does not keep crowding over against the next horse.



Sattley Two-Horse Set

Popular style Evener. Made of thoroughly air-dried oak, painted Red. Very strong and durable. Length of singletrees, 27 inches. Length of doubletree, 34 inches. Shipping weight about 15 pounds.

287C1280 —Sattley Two-Horse Set.....	Price at Chicago or Springfield, Ill.	Price at Atlanta, Ga.
	\$1.45	\$1.55

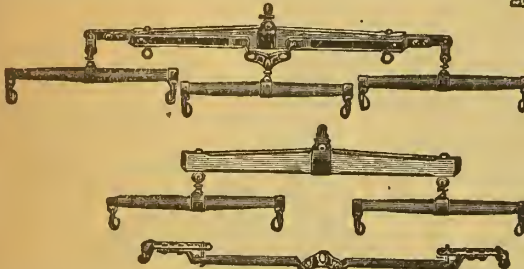


Ironed Hickory Doubletree Set

A first-class farm outfit. Suitable for heavy plowing, harrowing, grading and other farm work. All selected hickory stock. Fine doubletree. Varnished. Size, 1 1/2 x 3 1/2 x 42 in. Singletrees 2 1/2 x 30 in. Weight, per set, 15 lbs.

187C8865 —Price per set.....	\$1.85
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Combined Two and Three-Horse Sets



Handy for all around use. Easily and quickly changed to a two-horse set. Evener 2x4x46 in. Made of hickory. Total length with extension irons, 56 in. Singletrees 2 1/2 x 28 in. Weight 33 lbs.

187C1361 —Price per set.....	\$6.35
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\$9.00 Four Horse Five Horse \$10.50

These Patented Sattley Equalizers are guaranteed to overcome all tendency toward side draft. They are for use with Gang Plows, Sulks, etc. If turned upside down can be used on left-hand plows. Are well made throughout, of the very best hard wood, malleable iron and steel, and have been designed for heavy work. In order that they may fit any plows these Equalizers are furnished with a Special Hitch for attaching to frame hitch plows or plows having a small frame on ends of beams. For plows with regular beam clevis this Special Hitch is not necessary and you may order the Equalizer without it at a reduction in price as shown below.

287C1284 Sattley Four Horse Equalizer. Complete with Special Hitch. Weight, 75 lbs.	Price at Springfield, Ill.	Price at Saint Paul or Omaha	Price at Fargo, N. D.
	\$9.00	\$9.40	\$9.60
287C1287 Sattley Five Horse Equalizer. Complete with Special Hitch. Weight, 105 lbs.	10.50	11.00	11.75

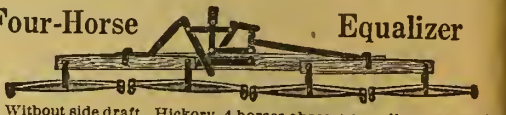
If special hitch is not wanted on either of these deduct **.75c**



Sattley Three-Horse Evener

All wood parts of thoroughly seasoned straight grained oak. Large and strong. Suitable for heaviest plowing. For plowing, harrowing, grading or for use on any implement without tongue. All wood parts are made of thoroughly seasoned oak, full size. Length of main evener, 44 in.; short evener, 30 in.; singletree 27 in. Steel books and clevises. Painted Red. Shipping weight 30 pounds.

287C1281 3-Horse Evener.....	Price at Springfield, Ill.	Price at Saint Paul or Omaha	Price at Fargo, N. D.
	\$3.65	\$3.80	\$3.90



Four-Horse Equalizer

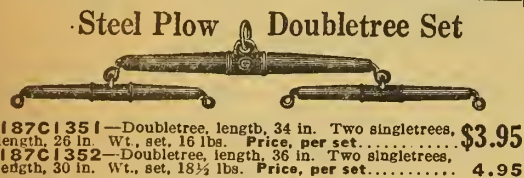
Without side draft. Hickory, 4 horses abreast on sulky or gang plow with one in furrow and three on unplowed ground pull equally. Coupled shorter than most equalizers, reduces draft. Length, 115 in. Weight, 63 lbs.

187C1366 —Price, Four-Horse Equalizer.....	\$7.80
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All Steel Plow Set

Painted Doubletree, 2 1/2 x 36 inches. Singletrees 2 x 26 inches. Weight, about 16 1/2 pounds.

187C1369 —Price, per set.....	\$2.95
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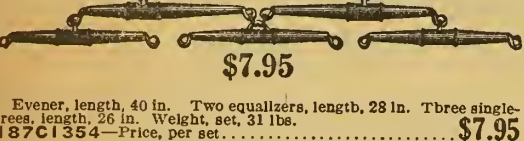


Steel Plow Doubletree Set

187C1351—Doubletree, length, 34 in. Two singletrees, length, 26 in. Wt., set, 16 lbs. Price, per set..... **\$3.95**

187C1352—Doubletree, length, 36 in. Two singletrees, length, 30 in. Wt., set, 18 1/2 lbs. Price, per set..... **4.95**

Steel Three Horse Set



\$7.95

Evener, length, 40 in. Two equalizers, length, 28 in. Three singletrees, length, 26 in. Weight, set, 31 lbs.

187C1354 —Price, per set.....	\$7.95
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Four-Horse U-Bar Set

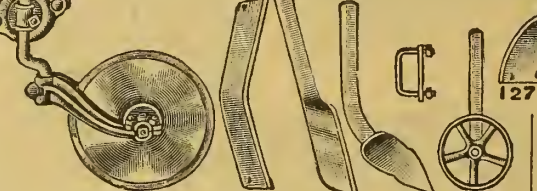


\$13.35 Set Complete

Made of pressed Steel U-Bar. Four horse evener 62 inches long. Two horse eveners 32 inches long. Singletrees, 26 inches long. Shipping weight, 60 lbs.

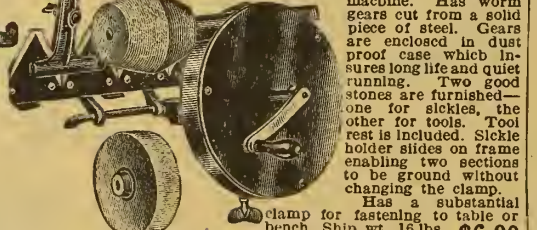
187C8805 —Price per set.....	\$13.35
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Plow Attachments



- 121 and 122**—Sattley 13 in. Coultter for walking plows. Has round stem and Universal clamp for wood or steel beam. Shipping wt., 18 lbs. Price, each..... **\$3.25**
- 187C121**—Sattley 15 in. Coultter for steel beam riding plows round stem. Ship. wt., 26 lbs. Price, each..... **\$4.25**
- 87C123**—Quincy cutter. Furnished with clamp and fits wood or steel beam. Ship. wt., 9 lbs. Price, each..... **\$1.45**
- 87C124**—Hanging Cutter. Furnished with clamp. Fits either wood or steel beam. Ship. wt., 9 lbs. Price, each..... **\$1.65**
- 87C125**—Steel Joiner. Furnished with clamp to fit steel beam only. Ship. wt., 15 lbs. Price, each..... **\$2.25**
- 87C126**—Gauge Wheel. Has 8 in. wheel and clamp fits either wood or steel beam. Ship. wt., 11 lbs. Price, each..... **\$0.92**
- 87C127**—Fin Cutter, bored with holes to fit Sattley plows. Ship. wt., 4 lbs. Price, each..... **\$0.90**

Superior Sickle and Tool Grinder



A very high-grade machine. Has worm gears cut from a solid piece of steel. Gears are enclosed in dust proof case which insures long life and quiet running. Two good stones are furnished—one for sickles, the other for tools. Tool rest is included. Sickle holder slides on frame enabling two sections to be ground without changing the clamp. Has a substantial clamp for fastening to table or bench. Ship. wt., 16 lbs.

87C331 —Extra Tool Wheel.....	\$6.00
87C332 —Extra Sickle Wheel.....	1.25

Steel Cultivator Singletree

187C8092—Length, 26 in. Painted Red. Wt. 3 lbs. Price..... **\$1.20**

Easy Payment Terms on Wagons and Manure Spreaders. See Page 1030.

Four-Horse Equalizer for Sulky Plow



\$10.45

Properly Constructed—Satisfaction in Service. Positively no side draft. Pulley and cable arrangement insures perfect equalization of draft. The spring absorbs shocks should you hit any hard substance. Weight, 55 pounds. Main Evener, length 64 in. Doubletrees, 34 in. Singletrees, 27 1/2 in.

187C1364 —Price, per set.....	\$10.45
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Strap End Plow and Wagon Singletree



187C8850—Made of hickory. Ironed, varnished. Length, 36 in. Diameter of wood, 2 1/2 in. Weight, 7 lbs. Each..... **\$1.12**

187C8851—Length, 28 in. Diameter of wood, 2 1/2 in. Weight, 4 1/2 lbs. Each..... **.75**

Steel Two and Three-Horse Equalizer



Adapted for plows, wagons, seeders, disc harrows, or any implement or vehicle. Two horses are worked on one side of the pole against one on the other without side draft. It is all steel except singletrees. Can be changed to 2-horse evener. Wt 56 lbs.

187C1362 —Price, per set.....	\$8.95
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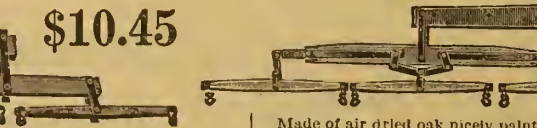
Plow Singletree



Hickory, varnished, with steel straight center clip and steel end clips with hook.

187C8840 —Diam. 2 1/2 inches, length 28 in. Wt. 3 lbs. Each.....	63c
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Sattley Six-Horse Disc Harrow Eveners



Made of air dried oak nicely painted. Very heavy and strong. The load is equally distributed among all the horses. Length of main evener, 92 inches. The two three-horse eveners can be detached and used separately. Weight, 76 lbs.

287C1291 —Sattley Six-Horse Disc Harrow Evener.....	Price at Springfield, Ill.	Price at Omaha or Saint Paul	Price at Fargo, N. D.
	\$10.75	\$11.15	\$11.35

Repairs and Renewals for Farm Machinery

Finished and Fitted Plow Shares



With Bolts Ready to Attach
Right-hand shares only, as listed below. When ordering give article number, size of share wanted, name or make of plow, and all marks on back of old share. Ship. wt. of 12-in. shares, 10 1/2 lbs., of 14-in. shares, 12 lbs., of 16-in. shares, 13 lbs. Mark Plainly Article Number at top of Price Column and Marks on Shares.

Marks on Share	Size Inches	Thickness Inches	Article 187C76 Soft Center Price	Number 187C77 Solid Steel Price
Climax—Right Hand				
R-12	12	5/16	\$3.65	.....
R-14	14	5/16	4.05	.....
R-16	16	5/16	4.45	.....
242	12	5/16	3.75	.....
245	14	5/16	4.15	.....
254	12	5/16	3.75	.....
256	14	5/16	4.15	.....
258	12	5/16	3.75	.....
81-12	12	5/16	3.80	.....
81-14	14	5/16	4.20	.....
81-16	16	5/16	4.60	.....
Climax—Left Hand				
252	12	5/16	3.75	.....
254	14	5/16	4.15	.....
256	12	5/16	3.75	.....
242	12	5/16	3.75	.....
245	14	5/16	4.15	.....
Bradley—Right Hand				
L45	14	5/16	3.90	.....
L70	16	5/16	4.30	.....
19-1478X	14	5/16	4.15	.....
Canton or P and O—Right Hand				
54	16	5/16	4.30	.....
42	14	5/16	3.90	.....
266	16	5/16	4.45	.....
268	16	5/16	4.45	.....
Case—Right Hand				
A D L	16	5/16	4.55	.....
SGL 12	12	5/16	3.65	.....
SGL 14	14	5/16	4.05	.....
SGL 16	16	5/16	4.45	.....
Deere—Right Hand				
F 33	14	5/16	3.90	.....
P 33	14	5/16	4.15	.....
40	16	5/16	4.30	.....
40	16	5/16	4.30	.....
X 42	14	5/16	4.30	.....
33	14	5/16	4.15	.....
33	14	5/16	4.15	.....
31	12	5/16	3.90	.....
42	14	5/16	4.15	.....
42	14	5/16	4.15	.....
46	16	5/16	4.30	.....
46	16	5/16	4.30	.....
152	12	5/16	3.75	.....
157	14	5/16	4.15	.....
162	16	5/16	4.55	.....
215	12	5/16	3.75	.....
217	14	5/16	4.15	.....
218	16	5/16	4.55	.....
Defiance or La Crosse—Right Hand				
97	12	5/16	3.65	.....
97	14	5/16	4.05	.....
92	16	5/16	4.45	.....
Emerson—Right Hand				
N-14-R	14	5/16	3.15	.....
N-14-R	14	5/16	3.15	.....
N-16-R	16	5/16	3.55	.....
N-16-R	16	5/16	3.55	.....
Moline—Right Hand				
C 1	14	5/16	3.90	.....
F D 11	16	5/16	4.30	.....
F D 1	14	5/16	3.90	.....
F D 1	16	5/16	4.30	.....
H 1	16	5/16	4.30	.....
D 16	16	5/16	4.30	.....
CY 12	12	5/16	3.75	.....
CY 14	14	5/16	4.15	.....
CW 16	16	5/16	4.55	.....
DW 14	14	5/16	4.15	.....
DW 16	16	5/16	4.55	.....
Oliver—Right Hand				
8	16	5/16	4.30	.....
8	14	5/16	3.90	.....
DS 8	14	5/16	3.90	.....
DS 8	14	5/16	3.90	.....
Rock Island—Right Hand				
40	16	5/16	4.55	.....
32	14	5/16	4.15	.....
68	14	5/16	4.15	.....
70	14	5/16	4.15	.....

Sattley Plow Shares



We carry a large stock of Sattley plow shares and will ship promptly. These shares, made in our Sattley factory, are perfect fitting. When ordering, be sure to give article number and exact figures and letters on the back of old share. Many Sattley shares are made both right and left hand and we will always ship right hand unless otherwise ordered.

187C171—Solid Steel Shares.

Article	Price	Article	Price
X12WC	\$2.50	D112W	\$2.50
X14WC	2.75	D114W	2.75
X16WC	3.00	B12	2.45
X12C	3.50	B14	2.45
X14C	3.75	NB12	2.25
X16C	4.00	NB14	2.25
D8W	1.70	186 or F16	6.00
D9W	1.85	181 or F12	5.50
D10W	2.00	182 or F14	5.50

187C173—Soft Center Steel.

Article	Price	Article	Price
X12W	\$3.50	X16	\$4.15
X14W	3.85	74W14	3.85
X16W	4.15	79W14	3.85
72W12	3.50	186 or F16	4.15
77W12	3.50	181 or F12	3.85
X12	3.55	182 or F14	3.85
X14	3.85	64W16	4.15
		69W16	4.15

187C174—Cast Shares.

Article	Price	Article	Price
GX12	\$1.40	GX16	\$1.80
GX14	1.60		

187C175—Sattley Engine Plow Shares.

Article	Price	Article	Price
X14E	\$6.00	ARB14E	\$4.45
F14E	6.00	D114E	5.00

Shipping weight same as Finished and Fitted Shares.

Mower and Reaper Knives



Tempered Steel. Ground Knives, complete with head. Can be furnished to fit any of the well known makes. Odd knives can be shipped direct from factories. Purchaser paying charges. Be sure to give name of the machine and number and letter on the old knife head. If you cannot give number, send sketch of the old head; also give size of the sections.

187C90—Smooth, 4 1/2-foot knife, 18 sections. Shipping weight, 10 pounds. **\$2.35**

187C92—Smooth, 5-foot knife, 20 sections. Shipping weight, 11 pounds. **\$2.45**

187C94—Smooth, 6-foot knife, 24 sections. Shipping weight, 13 1/2 pounds. **\$2.65**

187C90—Smooth, 4 1/2-foot knife, 18 sections. Shipping weight, 10 pounds.

Champion	A415	Milwaukee	PG6
A415 have sections 3 x 3 1/2 inch only	D463	Oshorne	K284
Deering	F123	Oshorne	K774
Deering	F123	Plano or Jones	J94
King of the Meadow	9	Emerson (Standard)	M195
McCormick	M139	Wood	1810

187C92—Smooth, 5-foot knife, 20 sections. Shipping weight, 11 pounds.

Acme	T6	Emerson (Standard)	M203
Buckeye	864	Oshorne	294 or M195
Champion	A415	King of the Meadow	9
A415 have sections 3 x 3 1/2 inch only	M139	McCormick	M139
Champion	A870	Milwaukee	PG6
Deering	F123	Oshorne	K774
Deering	D463	Oshorne	K284
Emerson (Standard)	M203	Plano-Jones	J94
Wood	1810	Wood	1810

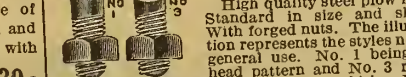
187C94—Smooth, 6-foot knife, 24 sections. Shipping weight, 13 1/2 pounds.

Acme	T6	Emerson (Standard)	M203
Buckeye	864	Emerson (Standard)	M203
Champion	A415	Oshorne	294 or M195
A415 have sections 3 x 3 1/2 inch only	K43	McCormick	M139
Champion	A870	McCormick	M139
Deering	F123	Milwaukee	PG6
Deering	D463	Oshorne	K774
Wood	1810	Plano-Jones	J94
Wood	1810	Wood	1810

3 1/2 inch only

Champion	A870	Emerson (Standard)	M203
Deering	F123	Emerson (Standard)	M203
Deering	D463	Oshorne	294 or M195
Wood	1810	McCormick	M139
Wood	1810	Milwaukee	PG6
Wood	1810	Oshorne	K774
Wood	1810	Plano-Jones	J94
Wood	1810	Wood	1810

Plow Bolts



High quality steel plow bolts. Standard in size and shape. With forged nuts. The illustration represents the styles now in general use. No. 1 being key head pattern and No. 3 round head pattern. Diameter, 3/8 in. When ordering be sure to state length wanted. Average ship. wt., per dozen, 1/4 lb.

37C101—Style No. 1.

Length	Per Dozen
1 1/4 inches	19c
1 1/2 inches	21c
1 3/4 inches	23c
2 inches	25c

37C102—Style No. 3.

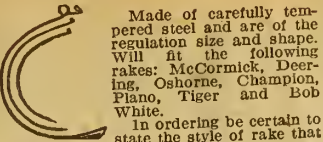
Length	Per Dozen
1 1/4 inches	20c
1 1/2 inches	22c
1 3/4 inches	24c
2 inches	26c

Section Rivets

No. 6 or 7/16-inch Section Steel Rivets in 1-pound boxes. Can furnish in 1/2 or 3/4-inch length with hung head or with countersunk head. State length and style head wanted. Put up in 1-pound boxes. We do not mix packages or sell less than a box.

37C16	— Bung head, 3/4 in. Per box	21c
37C17	— Bung head, 1/2 in. Per box	22c
37C18	— Countersunk, 3/4 in. Per box	21c
37C19	— Countersunk, 1/2 in. Per box	22c

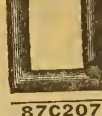
Hay Rake Teeth



Made of carefully tempered steel and are of the regulation size and shape. Will fit the following rakes: McCormick, Deering, Oshorne, Champion, Plano, Tiger and Bob White. In ordering be certain to state the style of rake that you use. Also state whether the rake is to the right or the left, and send a full sized sketch on paper. Unless you give us this information, we cannot fill the order. We cannot supply any except the styles as given above. Shipping weight, 2 pounds. **32c**

37C24—Price, each..... **32c**

Link Chain Belting



For use on mowers, binders, corn shellers, feed cutters, etc. When ordering chain for repairs, be sure to give number of chain; also lay one link on paper and mark around outside and inside with pencil, showing size and shape of links.

Size No.	Shp. Wt. Per Ft.	Links Per Foot	Working Strain	Price Per Foot	
37C207	25	4 oz.	13.3	75 lbs.	15c
37C209	32	5 oz.	10.4	160 lbs.	15c
37C211	33	5 oz.	8.6	225 lbs.	16c
37C213	34	6 oz.	8.6	225 lbs.	16c
37C215	35	7 oz.	7.4	250 lbs.	17c
37C217	42	9 oz.	8.8	300 lbs.	17c
37C219	45	9 oz.	7.4	350 lbs.	20c
37C220	52	12 oz.	7.4	450 lbs.	20c
37C221	55	12 oz.	7.3	500 lbs.	25c
37C223	62	16 oz.	7.3	650 lbs.	31c
37C224	72	2 lbs.	5.9	800 lbs.	31c
37C225	072	2 lbs.	7.3	870 lbs.	43c

Plow Handles

Made of clear, air-seasoned oak; hand holds finished smooth, balance in rough. For right-hand plows only. Size, 1 1/2 x 2 1/2 inches. Entire length, including hand, 5 feet. Shipping weight, each, 4 pounds.

187C50—Straight handles, each..... **39c**

187C51—Single bend, each..... **42c**

187C52—Moldboard head, each..... **45c**

Malleable Knife Guards



Complete with guard plates. We carry a large stock to fit the well known machines. Give name of machine and number, and letter on the old guard, otherwise we can't fill order promptly. Weight, 1 pound. **26c**

37C98—Price, with plate..... **26c**

Buckeye	775X	Milwaukee	S37
Champion	A811	Milwaukee	PK5
Champion	A831	Oshorne	K280
Deering	F2 1/2 or D442	Oshorne	K514
Deering	D693	King of the Meadow	K
Emerson (standard)	H or M504	Plano or Jones J110 or	J136
Johnson	1811	Plano or Jones	J386
McCormick	M462	Plano	L180
McCormick	MA989	Wood	A
McCormick	495	Wood	PP

Disc Harrow Blades

Concave disc blades of same quality as used on all standard makes of disc harrows. Made of high-grade, open hearth steel. Three sizes, 16, 18 and 20-inch, all have 1 1/8-inch square hole to fit 7/8-inch shaft. Average shipping weights, 7 1/4, 10 1/2, 13 1/4 pounds respectively.

Article Number	Width Inches	Gauge	Price
187C193	16	11	\$1.10
187C194	18	10	1.55
187C195	20	9	1.95

Olson Tool Steel Adjustable Plow Points

Right Hand Plows Only. Made of Swedish tool steel. Will fit practically every make of walking or riding plow. Slips on point of share and bolts through landside. No drilling or blacksmith work required. Nearly as firm and solid as if welded on. A bolt with eccentric head is furnished with each point and slotted end with second inner slot of sufficient adjustability to meet the bolt hole and landside point of nearly all plows. Can be adjusted for depth. For right-hand plows only. Shipping weights; No. One, 2 pounds each; No. Two, 2 1/2 pounds.

37C54—No. 1 point without an cutter, for prairie breakers or deep subsoil plowing. Price, each..... **70c**

37C55—No. 2 point with cutter as illustrated. Weight, 3 1/2 pounds. Price, each..... **85c**

37C56—No. 2 point with cutter as illustrated. Weight, 3 1/2 pounds. Price, each..... **90c**

37C57—No. 2 point with cutter as illustrated. Weight, 3 1/2 pounds. Price, each..... **90c**

Sattley Jointer—Coulter

These are the New Style Jointer-Coulters Being Used All Over the Country, Especially on Tractor Plows

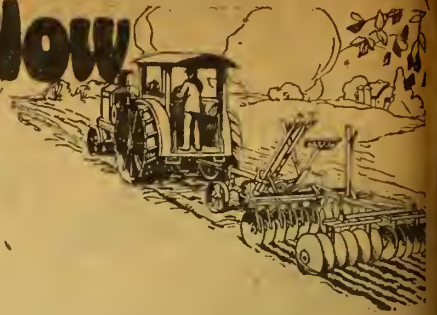
With these New Jointer-Coulters on your plow all of the grass, weeds and trash in your field will be completely covered in the corner of the furrow leaving a clean field surface. They represent the very latest improvement in plow equipment and should be used in every trashy field.

Two styles. One for horse gangs and sulky plows has regular Sattley Coulter bearings and clamps for fastening to any make of plow beam. The other an extra heavy Jointer-Coulter is made for tractor gangs. It has heavy Sattley bearings and is made extra heavy throughout. No clamp is furnished with it as every tractor plow carries its own style of clamp. The Jointer is made of specially hardened solid steel.

Article No.

287C178—Jointer Coulter for horse gang plows and Sulkes, stem and clamp, 15-in. blade. Wt., 35 lbs. **\$8.50**</

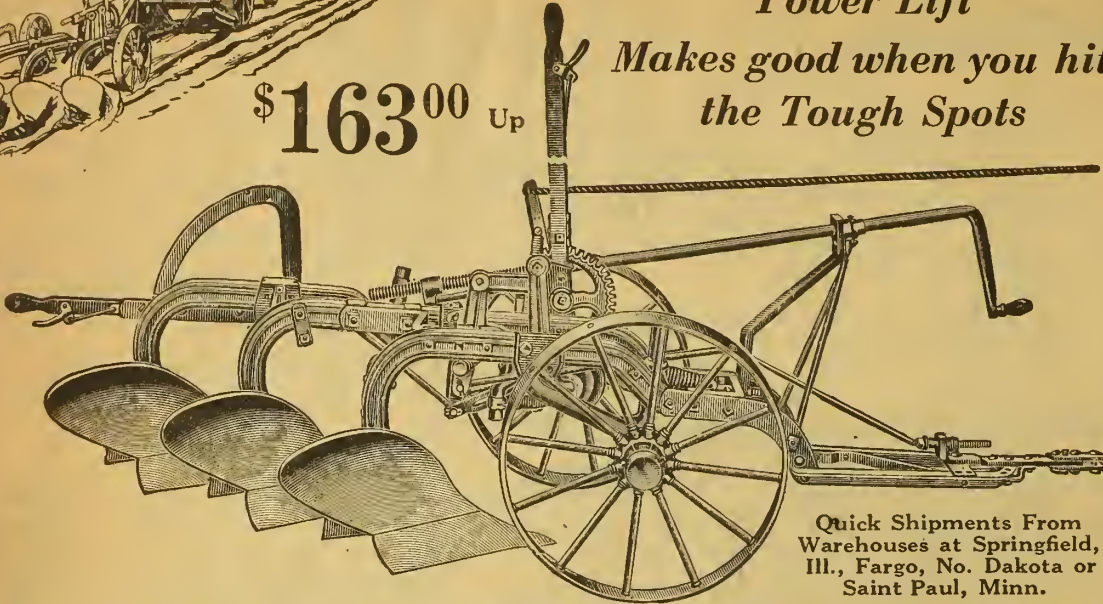
SATTLEY Tractor Gang Plow



Power Lift

Makes good when you hit
the Tough Spots

\$163⁰⁰ Up



Quick Shipments From
Warehouses at Springfield,
Ill., Fargo, No. Dakota or
Saint Paul, Minn.

Equipment. Plows furnished with three 14-in. bottoms, either stubble, turf and stubble or breaker bottoms. Rolling coulters and tractor lugs also furnished. Right hand only.

Universal hitch fits any tractor. Adjustable up and down or side to side. Rigid hitch permits backing.

With the rigid form of hitch, these plows may be backed by the engine when circumstances make it necessary to do so. This is also helped by the fact that these plows carry no castor wheel in the rear.

By means of a hand lever, one bottom may be raised when only two bottoms are to be used in extra deep plowing, or when soil conditions render traction for engine below normal. In raising or lowering plow, no adjustment of hitch is necessary.

The Ideal One-Man Outfit

A single cord and one crank lever, both within easy reach, enable the operator to manage this tractor plow with ease. One pull of the cord operates a strong rugged clutch on the land wheel and this raises the bottom five to fifteen inches above ground. Another pull releases bottoms, which take their original depth.

Stubble and turf and stubble bottoms made of soft-center steel. Breaker bottoms are solid steel. Your profits, your success with the tractor, depend in a large measure upon the selection of the right plow. In offering the Sattley Tractor Gang Plow made in our own factory, we do so only after rigid tests have proven to us that this is the plow best suited for use with the small tractor, under practically all field and soil conditions.

Maximum strength is secured with the least possible weight. The entire weight of the plow is directly above the bottom, which insures an even depth in the most stubborn soil.

Unusual Clearance. One very striking feature is the remarkable clearance under the beams, which makes it practically impossible for trash or stalks to accumulate and clog the bottom.

The new system of bracing and reinforcing the beams with heavy, high-carbon steel, removes nearly all strain from the bolts. All bolts are extra large and lock-washed.

Article No.	Style	Shp. wt. lbs.	Price at Springfield, Ill.	Price at Saint Paul, Minn.	Price at Fargo, N. D.	Ext. Shares Art. No. 287C175		
						Share Number	Price each at Springfield, Ill.	Price each at Fargo or Saint Paul, Minn.
287C501	Stubble Bottoms	1030	\$163.00	\$168.25	\$170.90	F14E	\$6.00	\$6.10
287C502	Turf and Stubble Bottoms	1065	164.50	169.75	172.40	X14E	6.00	6.10
287C505	Breaker Bottoms with extra shares	1090	165.75	171.00	173.65	ARB14E	4.45	4.55
287C507	Set of 3 weed hooks	.....	2.75	2.85	2.95	.....	.....	.....
287C179	For 3 jointer coulters (as shown on page 981) in place of regular coulters add.	.....	10.00	10.50	10.75	.....	.....	.....

Sattley "Gee-Haw" Sulky Plow

THE SATTLEY GEE-HAW SULKY PLOW meets the demand for a light, frameless, poleless, low lift Riding Plow. It is built with special reference to great strength and handles the soil and works successfully under more difficult conditions than any other Riding Plow of this type.

A LANDING LEVER, conveniently located, permits the turning of the front wheel either to or from the land. Thus the plow can be held on a side hill, the furrow can be straightened up and the plow guided around obstacles in the field.

THE SEAT is set well back and toward the unplowed ground, thus allowing the plow to turn square corners in either direction without upsetting.

The front furrow wheel is designed with long axle stem so that the wheel can be raised clear in turning toward the plowed ground, thus allowing a "gee" turn.

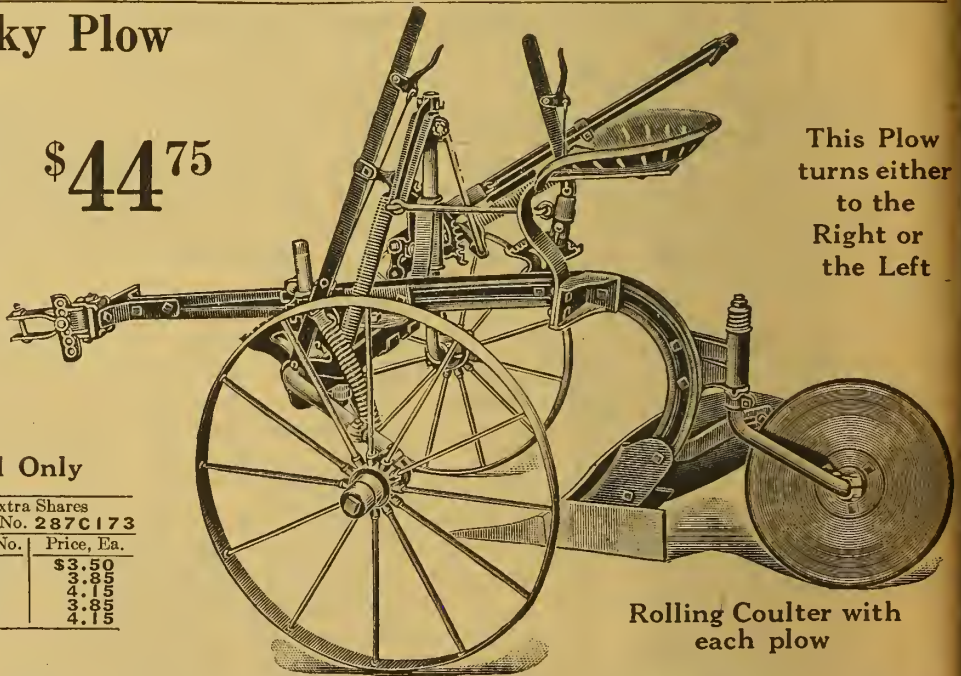
THE REAR WHEEL, which is of pressed steel, is equipped with a relief spring which allows it to castor when making a "gee" turn.

Many farmers desire to throw "in" one year and "out" the next, and this plow is especially built with that idea in view.

Soft center Steel Shares and Moldboards. Regular Sattley Quality throughout.

Furnished with our well known Rolling Coulters and Weed Hook and our regular Three-Horse-Abreast Evener.

\$44⁷⁵



This Plow
turns either
to the
Right or
the Left

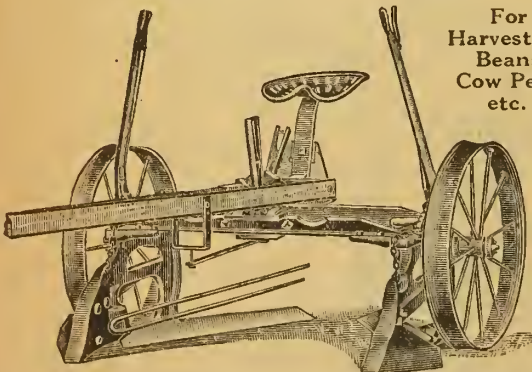
Rolling Coulters with
each plow

Sattley "Gee-Haw" Sulky Plow—Right Hand Only

Article Number	Size and Style	Weight Lbs.	Price	Extra Shares	
				Article No. 287C173	Price, Ea.
287C591	12-in. Turf & Stubble	390	\$44.75	X12	\$3.50
287C592	14-in. Turf & Stubble	393	45.75	X14	3.85
287C593	16-in. Turf & Stubble	398	46.25	X16	4.15
287C594	14-in. Stubble	389	45.00	X14	3.85
287C595	16-in. Stubble	392	45.50	X16	4.15

Shipped from factory, Springfield, Ill.

Bean Harvester Wood Frame or Steel Frame



For
Harvesting
Beans
Cow Peas
etc.

For harvesting Beans, Cow Peas, etc. Furnished in either wood or steel frame. 18 extra strong throughout. Wheels 30 inches high, 4-inch concave face. Wheels track 4 feet 10 inches outside to outside edge of tires. Can be set out to track 5 feet 4 inches. This, together with the adjustment of the blades, makes the machine adaptable for rows of any practical width.

Axles are cone shaped and protected from dust by cap. Cleaners are steel rods attached to the guards. Blades are best extra heavy tempered steel beveled and sharpened at cutting edge and highly polished.

Each harvester furnished with evener bar and neckyoke. Shp. wt., about 500 lbs.

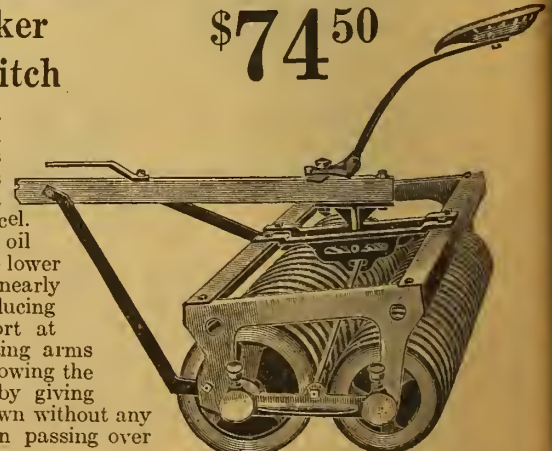
287C1091—Wood frame Bean Harvester. Price.....\$41.30
287C1092—Steel frame Bean Harvester. Price.....43.25

Shipped from factory in Ohio.

Multi-Crusher and Packer For Tractor or Horse Hitch

\$74⁵⁰

Rigid frame, steel angles 3x2½ in. with truss rod from end to end. With this arrangement no washers or collars are required to take up space at the hubs from the result of wear. Built extra strong throughout. Shafts, 1½ round steel. Bearings are dust proof and have hard oil cups. Draft braces run from tongue to lower end of standards and connect at a point nearly in line with the shaft, thereby greatly reducing neck weight of tongue. Tongue support at lower end is pivotally connected to supporting arms which are provided with slotted holes, allowing the pivot connection to oscillate and thereby giving the double disc frame free play up or down without any tilting or discomfort to the driver when passing over dead furrows or uneven ground.

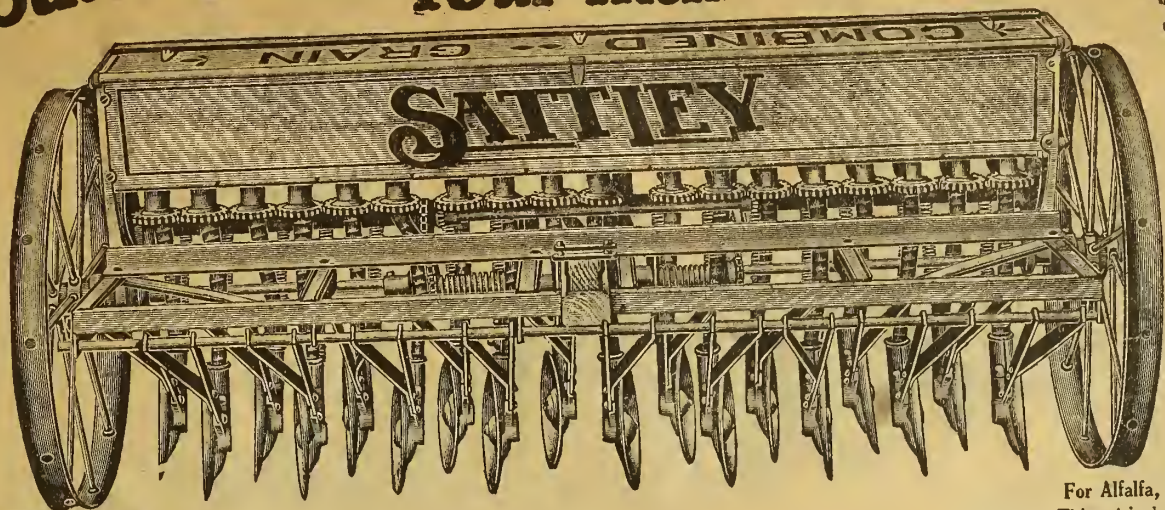


287C1070	7-ft. Multi-Crusher with long tongue but without hitch or neckyoke. Weight, 1100 lbs. Price.....	\$74.50
287C1071	7-ft. Multi-Crusher with stub tongue and foretruck but without hitch. Weight, 1150 lbs. Price....	80.00
287C1072	8-ft. Multi-Crusher with stub tongue and foretruck but without hitch. Weight, 1250 lbs. Price....	89.35
287C1073	10-ft. Multi-Crusher with stub tongue and foretruck but without hitch. Weight, 1500 lbs. Price....	106.65
287C1074	7-ft. Multi-Crusher with stub tongue and tractor ball. Weight, 1075 lbs. Price.....	74.35
287C1075	8-ft. Multi-Crusher with stub tongue and tractor ball. Weight, 1200 lbs. Price.....	82.25
287C1076	10-ft. Multi-Crusher with stub tongue and tractor ball. Weight, 1440 lbs. Price.....	101.50
287C1077	Tractor ball. Weight, 5 lbs. Price.....	1.50
287C1078	Neckyoke. Weight, 5 lbs. Price.....	1.90
287C1079	3-horse hitch. Weight, 21 lbs. Price.....	5.25
287C1080	4-horse hitch. Weight, 44 lbs. Price.....	6.50
287C1081	Foretruck. Weight, 65 lbs. Price.....	7.50

Shipped from factory in Ohio.

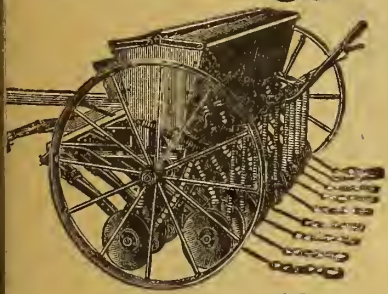
Sattley Combined Grain & Clover Drill

Four inch



Sows less seed to a furrow but drills more furrows. When grain is drilled in four-inch rows weeds do not have a chance to grow in the case where rows are seven and eight inches apart. Even if the ground is free from weeds there is a lot of wasted space with seven and eight-inch rows because the main roots do not spread more than four inches. With four-inch drilling you utilize all the space.

A set of suction plates is sent with each drill. By putting them between disc boot and draw bar the angle of the disc can be changed. With the edges setting almost straight ahead the rear discs throw very little dirt on rows made by front discs. This is desirable in drilling winter wheat or work in very loose soil or when sowing grass seed in growing grain in the Spring.



Capacity of Drill

Barley, 3 to 10 pecks. Blue Grass, 5 to 32 lbs. Cow Peas, 3 to 10 pecks. Japan Clover, 15 to 50 lbs. Millet, 23 to 98 pounds. Oats, 2 1/2 to 7 1/2 pecks. Orchard Grass, 8 to 36 pounds. Rye, 3 to 10 pecks. Soy Beans, 4 to 11 pecks. Vetch, 3 to 6 1/2 pecks. Wheat, 3 to 10 pecks. Alfalfa, 5 1/2 to 10 pounds. Alsike Clover, 4 to 14 1/2 pounds. Red Clover, 4 to 14 1/2 pounds. Timothy, 5 to 26 pounds. Fertilizer, 80 to 400 pounds.

Complete Outfit for All Kinds of Grains and Grass Seeds, with or without Fertilizer. Sows Seeds and Fertilizers in rows 4 inches apart. For Wheat, Oats, Barley, Rye, Soy Beans, Alfalfa, Red Mammoth or Japanese Clover, Timothy, Orchard Grass, Cow Peas, etc. Only 2 Horses required.

The discs, 18 in all, are high carbon steel, self sharpening, and 10 in. diameter. Diameter of drive wheels, 30 in. with 3 in. tires. Sows about 72 inches wide. Hopper holds about 2 bushels of grain and will sow from 75 to 600 pounds of fertilizer per acre.

A broadcast grass seeder is regularly furnished so that timothy, clover, alfalfa and other small seeds can be sown broad cast in front of the discs when drilling wheat, oats, etc.

A complete equipment includes combination hopper for grain, small seeds and fertilizing; broad cast grass seeder; pole with neckyoke and doubletrees; acre measure and quantity indicator.

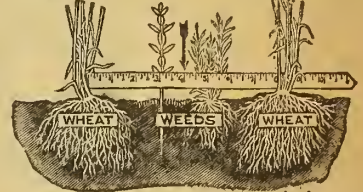
For some sections where the fertilizer feature is not desired, we furnish the drill built without the fertilizer hopper. The fertilizer hopper is not a separate attachment and you cannot put it on the drill after it leaves the factory. Complete directions for operating sent with each machine.

- 287C1399—Sattley Combined 4-in. Grain and Clover Drill without fertilizer hopper. Price..... \$135.40
- 287C1400—Sattley Combined 4-in. Grain and Clover Drill, Complete with fertilizer hopper. Weight, 1,020 pounds. Price..... \$149.50
- 287C1401—Extra for substantial foot board..... 4.75

Shipped from Warehouse near Chicago.

For Alfalfa, Clover and Grass Seeds

This 4-inch drill is especially well adapted for drilling any and all kinds of grass seeds, because it puts the rows close together, thereby getting a better stand than can be had when rows are further apart, or when broadcasted and much of the seed lost.

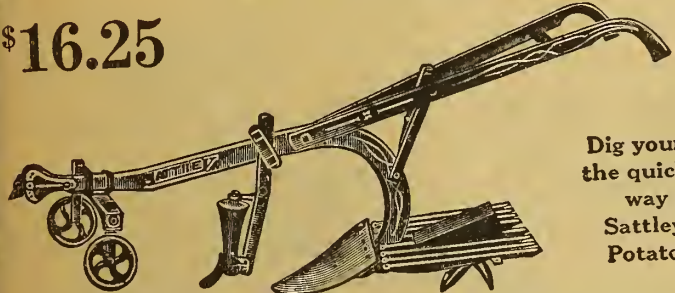


When wheat is drilled in 4-inch rows weeds do not have a chance to grow in between the rows as is the case where rows are 6, 7 or 8 inches apart. This drill plants grain where other drills leave space that is frequently occupied by weeds, thereby taking nourishment from the ground which could just as well be used for growing grain.

Sattley Rustler Potato Digger

Wide Shovel with Reinforced Point!

\$16.25



Dig your Potatoes the quick and easy way with a Sattley Rustler Potato Digger

A large revolving wooden spool mounted above a heavy malleable point clears the vines and trash from in front of the shovel. The point picks up the vines and the revolving spool allows them to roll off on either side instead of accumulating in front.

The grate receives a constant shaking motion by the revolving of the large star wheel underneath, which thoroughly shakes the potatoes free from the soil and leaves them clean upon the surface of the ground.

The 18-inch shovel is particularly well shaped to insure the best possible penetration, and is very heavily reinforced for several inches up from the point. This not only keeps it from wearing off so rapidly, but also provides abundant stock for drawing out purposes whenever it is found necessary to sharpen it.

The bars of the shaker grate are made of heavy steel. Shp. wt., 146 lbs. Price..... \$16.25

287C665—Digger Complete with double gauge wheel. Shipped from Chicago or Factory at Springfield, Illinois.

Superior Force Feed End Gate Seeder

\$19.30

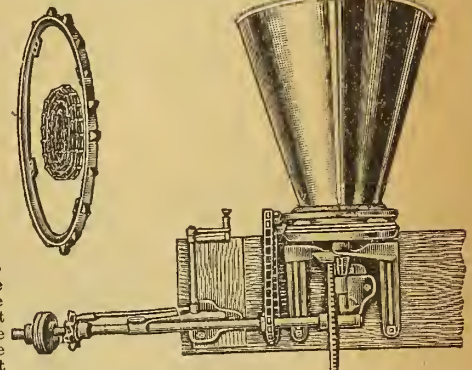
Attaches to rear end of ordinary Farm Wagon Box. A corrugated roller force feed device driven by sprocket wheels and chain belting, automatically feeds an even flow of seed.

Even distribution and uniform feed. The amount of seed can be gauged exactly and the flow will be uniform. The feed roller does not grind or crush the grain. The seeder can be thrown in or out of gear and the feed roller stops with the seeder. Two feed gauges regulate the amount of seed and swing on pivots at either side of the feed opening. They work independently, so the machine can be set to increase or decrease the cast on either side.

This is a special advantage in wind. It sows the same amount per acre whether the horses walk fast or slow. Furnished with end board to take the place of end gate; large sprocket wheel to attach to wagon wheel and all chains necessary to operate. Shipping weight, 90 lbs. \$19.30

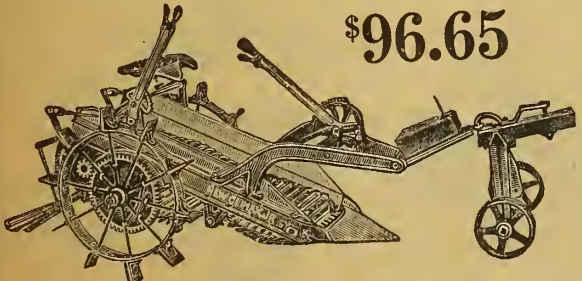
287C1418—Price..... \$19.30
287C1419—Superior Force Feed End Gate Seeder with Grass Seed Attachment. 100 lbs. Price..... \$23.10

Shipped from warehouse near Chicago.



Climax Junior Potato Digger

\$96.65



Two-horse digger intended to meet demand of small farms. Where it is necessary to use three or four horses, we recommend purchase of Climax Senior digger, shown opposite. Main frame has channel steel sides; easier to handle, stronger and more durable than cast frame diggers. Elevator chain of 7/16 inch crucible spring steel frame diggers. Elevator chain of 7/16 inch crucible spring steel loosens soil from potatoes before they reach back of elevator. Lever at operator's right raises and lowers shaker screen while digger is in operation.

Width of elevator inside, 20 inches. Fork rower adjusted from main gear. Plow Point high carbon, soft center, steel, thickness 3/16 inch, beveled to avoid going too deep.

Shaker Fork has spring steel tines, diameter, 7/16 inch; fastened to frame by threaded ends and nuts. Furnished with lead tongue truck. Adjusting levers convenient to operator. 30-inch drive wheels with malleable traction arms. Shipping weight, 625 pounds.

287C1800—Climax Junior 2-Horse Digger. Price..... \$96.65

Shipped from factory near Chicago.

Lever Adjustment, Light Draft, Soft Center Steel Plow, Crucible Spring Steel Endless Carrier Chain.] Digs and Cleans Potatoes, Separates Vines and Trash.

The frame is made of channel steel. Lever Adjustment with special foot leverage permits operator to control machine easily. Vine Carriers governed by two large adjustable coil springs. Vine carriers separate vine from potatoes and reduce labor of picking, as weeds and vines are thrown to one side and separated from potatoes.

Pickers arranged so that one or two teeth can be used as desired. Shaker Fork has tines of high carbon spring steel, 7/16 inch at base, securely fastened to malleable side frame. Diameter of wheels, 30 inches. Made of steel with 1 1/2 inch cold rolled steel axles. Main beams or draft arms malleable iron, securely fastened to heavy 5-inch steel channels in frame, with draft equally divided. Gears and pinions interchangeable.

Endless Chain is of 7/16-inch round crucible spring steel, each alternate link being high and low, in turning perfect operation while in action. It passes over special agitator sprocket and is in constant motion, causing loose soil to fall from potatoes reach back of machine. Links properly gauged to avoid loss of small sized potatoes.

Agitators, in two complete sets, cause constant wavy motion to chains, practically insuring screening in the heaviest and hardest soil. Set of smaller agitators furnished for light soil.

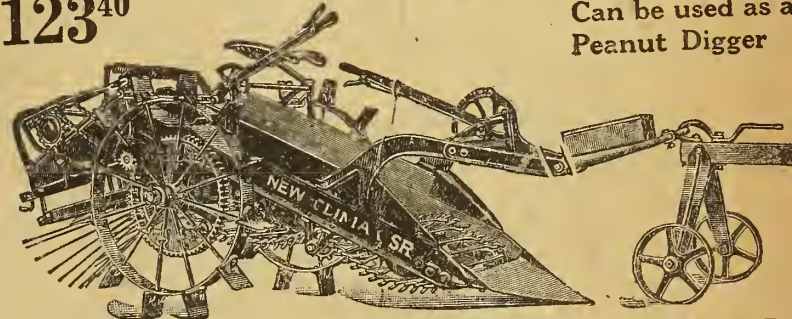
Plow Point is fin or turn-up type, high carbon soft center steel, 5/16 inch thick, properly beveled and polished easily. All power driving parts key seated, avoiding weakness, lost motion, and much breakage. Bearings, 4 in. all, have compression grease cups. Truck regularly furnished guides machine. For uneven or hilly ground pivot axle truck that adjusts itself to angle of draft or grade of ground can be furnished at extra charge in place of regular truck. Width of digger inside elevator, 22 inches. Shipping weight, 975 pounds.

287C1805—Climax Senior Four-Horse Digger. Price..... \$123.40

Shipped from factory near Chicago.

Climax Senior Potato Digger

\$123.40

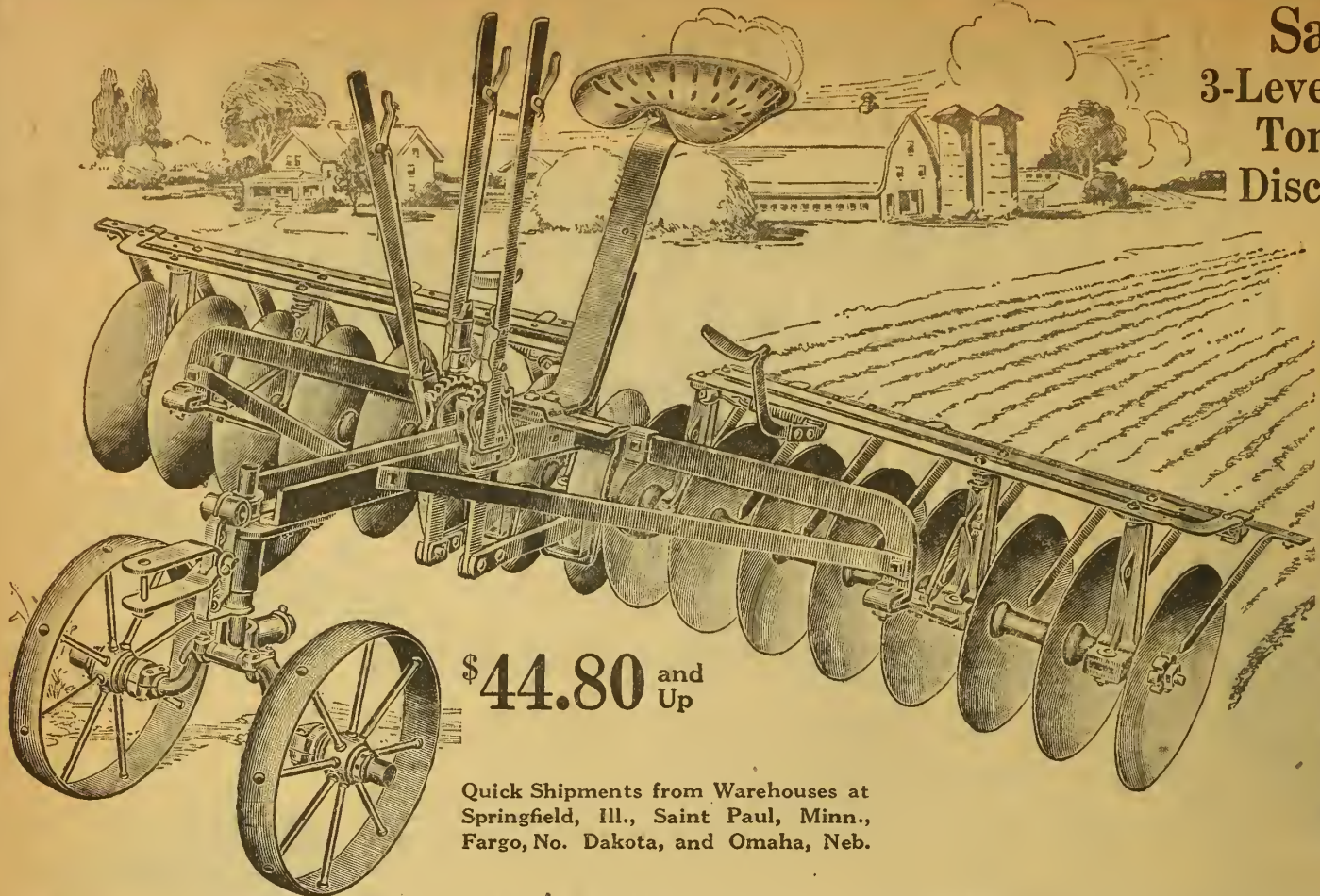


Can be used as a Peanut Digger

Protect your farm products and machinery with Canvas Covers.

Montgomery Ward & Co Chicago

Sattley 3-Lever Model X Tongueless Disc Harrow



Special Features

High Arch Frame Avoids trash gathered in front of discs. W braced, extra strong Special Pressure Lever—Enables driver to regulate pressure in gangs without leaving his seat. Double Lever Seat Spring—Rides easier and is safe. Discs ground to a knife edge and polished—insures quicker penetration—scour like plow shares. Protected for shipment—makes lower freight rates. Foot Pressure Steel Scrapers—Cleans all discs from the center to the edge with a knife-like stroke, never break and can't get loose. Steel Stub Posts—Will not warp or rot. Standard and Bearing Box One Piece—Extra strong.

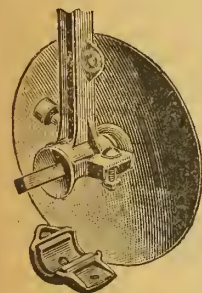
\$44.80 and Up

Quick Shipments from Warehouses at Springfield, Ill., Saint Paul, Minn., Fargo, No. Dakota, and Omaha, Neb.

Three-horse eveners furnished with 6 foot, and 4-horse eveners furnished with 7, 8, 9 and 10 foot harrows. Neck yokes are not furnished.

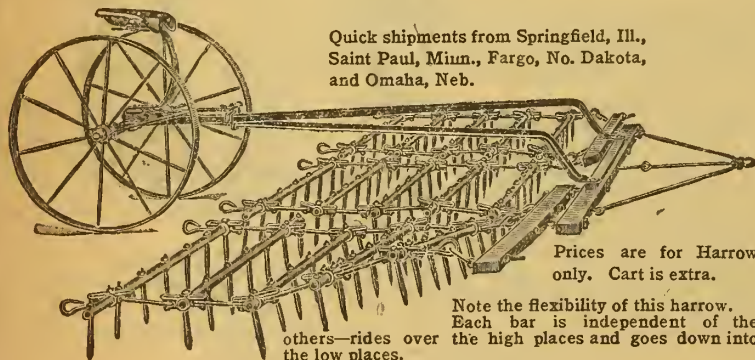
Article No.	No. of Discs	Diam. of Discs, In.	Width of Cut, Ft.	Ship. Wt., Lbs.	Price at Springfield, Ill.	Price at Omaha, or Saint Paul, Minn.	Price at Fargo, N. D.
287C901	12	16	6	455	\$44.80	\$47.20	\$48.40
287C902	14	16	7	515	50.15	52.75	54.05
287C903	16	16	8	590	55.35	58.30	59.80
287C904	18	16	9	620	59.35	62.35	63.85
287C905	20	16	10	650	61.90	65.15	66.80
287C906	12	18	6	491	48.50	.....	.....
287C907	14	18	7	557	54.60	.....	.....
287C933—Extra for tongue and tongue post. No yoke.				50	3.25	3.50	3.65
287C934—Extra for steel weight boxes. Per pair.				30	2.85	3.00	3.10

Bearings and Standard



Upper half of Bearing Box and Standard proper are one solid piece, making strong rigid construction and doing away with bolted connections, which jar loose and cause trouble. Spool is heavy chilled iron with great wearing qualities. Bearing proper is hard maple. Each Bearing Box is fitted with hard oil cup.

Quick shipments from Springfield, Ill., Saint Paul, Minn., Fargo, No. Dakota, and Omaha, Neb.



Prices are for Harrow only. Cart is extra.

Note the flexibility of this harrow. Each bar is independent of the others—rides over the high places and goes down into the low places.

Sattley All Steel Flexible Drag Harrow

This Harrow Never Loses a Tooth—Cultivates Every Foot of Ground

You can operate this harrow with the teeth standing straight up or slanting backward. Hitch from one side and the teeth slant backward; hitch from the other side and the teeth stand straight up. The Pipe Bars are extra strong and it is not at all likely you will ever be able to damage one of them in any way. The teeth are securely fastened in the bars so there is absolutely no danger of them ever losing out. There are 35 teeth 1/2-inch size to each section; and we cannot furnish the harrow in any styles except as quoted below. The malleable couplings for connecting the bars make this harrow flexible, and permit you to fold it up for storing away or moving from one place to another.

Sattley Harrow Cart

Do not wear out your shoes walking. Ride on a Sattley Cart—it is less expensive and you can do more work.

Seat convenient to levers on harrow. Simple method of reducing the hard work of the operator. The automatic lock mechanism allows the wheels to readily adapt themselves to the line of the harrow when turning corners. Extension arms are intended to attach to the draw bars of harrows. Will fit any of the well known makes of spike tooth harrows only, not suitable for spring tooth harrows. Length, 70 in. front of wheels to the even bolts. Wheels are steel; diameter, 36 in., with 3-inch oval tires.

Article No.	Width of Cut and Number of Sections	Number of Teeth	Ship. Wt., Lbs.	Price at Springfield, Illinois	Price at Saint Paul or Omaha	Price at Fargo, No. Dak.
287C1345	12 ft. 2 Sections	70	210	\$19.50	\$20.55	\$21.05
287C1346	18 ft. 3 Sections	105	315	29.50	31.10	31.90
287C1347	24 ft. 4 Sections	140	420	39.00	41.20	42.25
287C1349	Sattley Harrow Cart	.....	124	12.00	12.65	12.95

5-in-1 Garden Tool

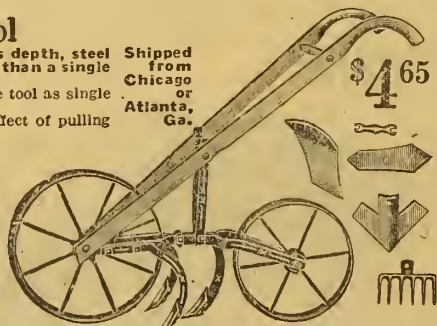
A great labor saver. Rear wheel gauges depth, steel frame, steel wheel. Much easier to guide than a single wheel tool.

Rear wheel can be taken off so you can use tool as single wheel cultivator.

Handles attached to front axle, have the effect of pulling on the tool frame. The attachments can be readily adjusted; diameter, front wheel, 18 inches; rear wheel, 14 inches. The attachments furnished are sufficient to cultivate almost any garden crop and include one reversible bull tongue, three cultivator teeth, one sweep, one turn-shovel, one rake and wrench. Shipping weight, 25 pounds.

Shipped from Chicago or Atlanta, Ga.

\$4.65



Article No.	Price at Chicago	Price at Atlanta
287C868	\$4.65	\$5.00

Little Giant 14-Tooth Lever Harrow

For working close to small plants such as corn, potatoes, cotton, tobacco, etc. Thoroughly pulverizes, but throws no dirt on the plants. It is also used as a smoother with the sharp points down in order to cut and level the surface. The teeth are diamond shaped, can be reversed, adjusted up or down and the slant changed as desired. Side teeth 3/8x11 inches. Strong steel frame, steel handle braces. Can be adjusted in width from 10 1/2 to 33 in. Shipping weight, 55 lbs.

Price at Chicago Atlanta, Ga.

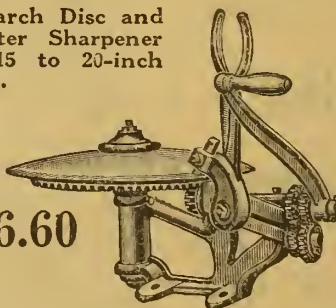
\$7.25



287C853—Price with spreading lever	\$7.25	\$8.15
287C856—Long handle braces. Wt. 2 1/2 lbs. Extra	.35	.40
287C857—Lead wheel wt., 5 1/2 lbs. Extra	.75	.85
287C858—Extra teeth. Wt., 1 lb. Each	.14	.15

Monarch Disc and Coulter Sharpener for 15 to 20-inch Discs.

\$6.60



All farmers know that discs must be kept sharp to do good work and especially to cut hard ground or sod land. With this sharpener, if the disc is bent or warped it can be straightened, which is not possible on a great many other machines of this kind on the market. The blades can be removed easily by turning disc bottom side up. Has centering device to accurately center any disc. No clattering or jumping of the cutter. Improved roller carrier steadies discs. Double gear makes disc revolve slowly and gives great power to the machine. All cast working parts, steel shafts. Full directions with each machine. Can be bolted to bench or plank or upright post. The position of the machine makes it convenient to put on the disc.

187C1020—Price, shipping weight, about 42 pounds	\$6.60
187C1021—Extra tool steel knives. Each, wt., 4 oz.	.30
187C1022—10x2 1/4-in. Pulley to use with power, weight, 10 pounds	1.25

Sattley Disc Harrow Trucks

\$7.35



Can be used on any disc harrow by sawing off the regular tongue near the ends of the tongue braces. Prevents violent jerking and neck weight of tongue. There is less tendency to side draft, as the harrow follows the truck. Constructed almost entirely of steel and has sufficient strength to stand the hardest use on any harrows. Wheels are steel; with wide oval-shaped tires, and dust-proof, oil-retaining boxes. Furnished with clevis to which evener is attached, the draft being directly in line with stub tongue. Regularly furnished to use without tongue, an offset with tongue plate to attach tongue furnished extra when ordered.

287C955—Tongueless Truck. Ship. wt., 55 lbs. Price	\$7.35
287C956—Offset axle with tongue plate to attach guiding tongue when needed on hillsides or slopes. Ship. wt., 10 lbs. Price	1.25

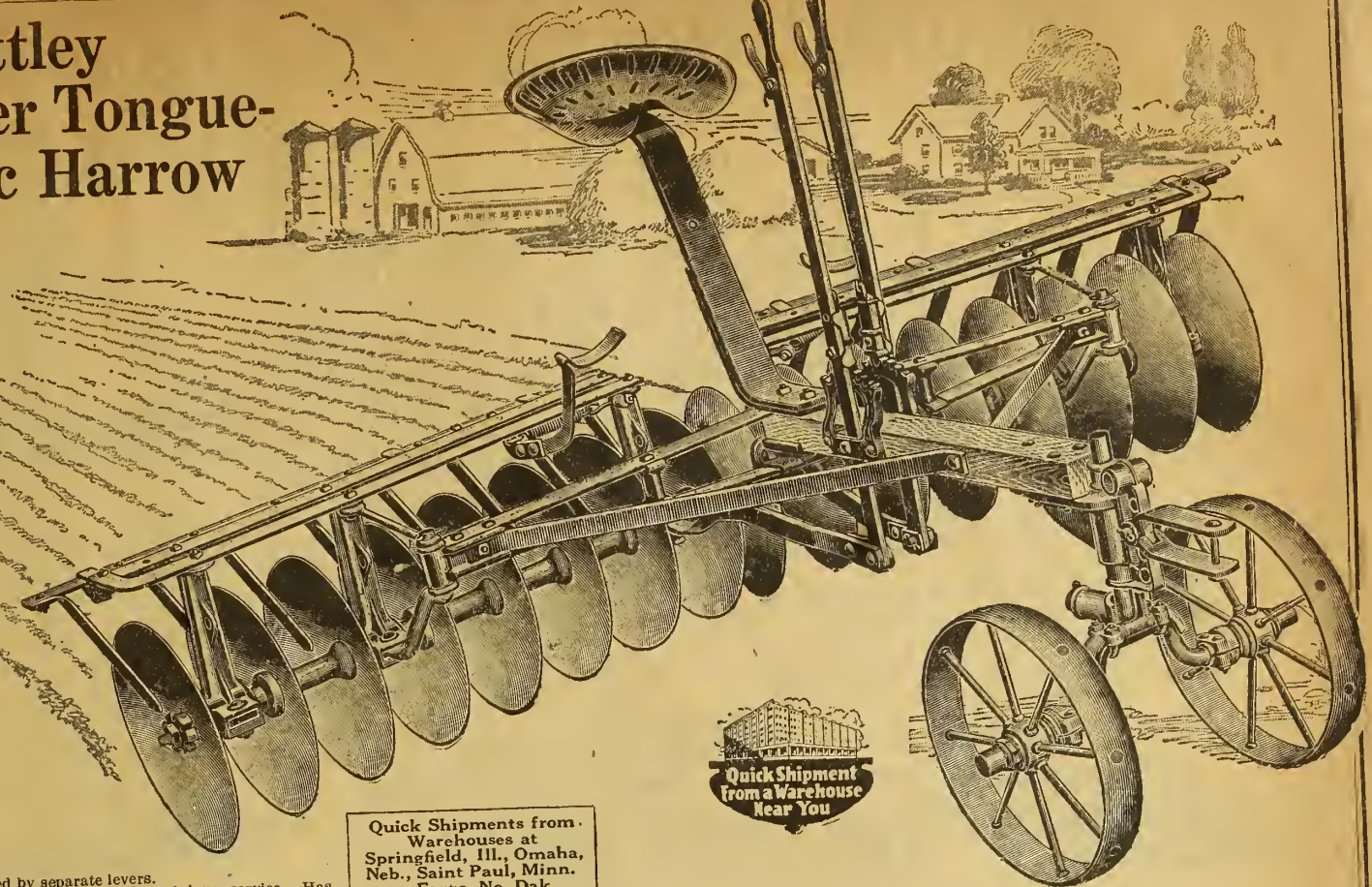
Shipped from our factory at Springfield, Ill.

Sattley Two-Lever Tongueless Disc Harrow

\$33.00
and up

Special Features

Powerful steel frame, triangle construction.
Vibrating spring steel rollers—never break and can't get loose.
Standard and bearing box piece—extra strong.
Discs ground to knife edge and polished—they scour and therefore do better work.
Discs protected for shipment—makes low weight rates.
Adjustment under frame for changing center pressure.
Double bearings.
Double seat spring.
Impers on gangs relieve side strains.



Quick Shipments from Warehouses at Springfield, Ill., Omaha, Neb., Saint Paul, Minn., or Fargo, No. Dak.



Gangs individually controlled by separate levers. A harrow you can depend upon for hard work and long service. Has all the splendid features of the Sattley three-lever harrow shown on opposite page, except it does not have the third lever and has different style frame and seat post. Is equipped with the well known Sattley scraper blades, and finely tempered steel discs together with the Sattley harrow rack and double spring seat.

Article Number	No. of Discs	Diameter of Discs Inches	Width of Cut, Feet	Shp. Wt., Pounds	Price at Springfield, Ill.	Price at Omaha or Saint Paul, Minn.	Price at Fargo, N. D. or Atlanta, Ga.
87C920	8	16	4	350	\$33.00	\$34.75	\$35.60
87C921	10	16	5	380	36.50	38.40	39.35
87C922	12	16	6	435	42.25	44.45	45.55
87C923	14	16	7	490	45.50	47.95	49.15
87C924	16	16	8	545	50.00	52.75	54.10
87C933—Extra for tongue and tongue post, no yoke.				50	3.25	3.50	3.65
87C934—Extra for steel weight boxes. Per pr.				30	2.85	3.00	3.10

Maple Bearings

These bearings are of hard maple. Length, 2 1/16 in. Outside Dia., 2 1/16 in. Inside Dia., 1 1/16 in.

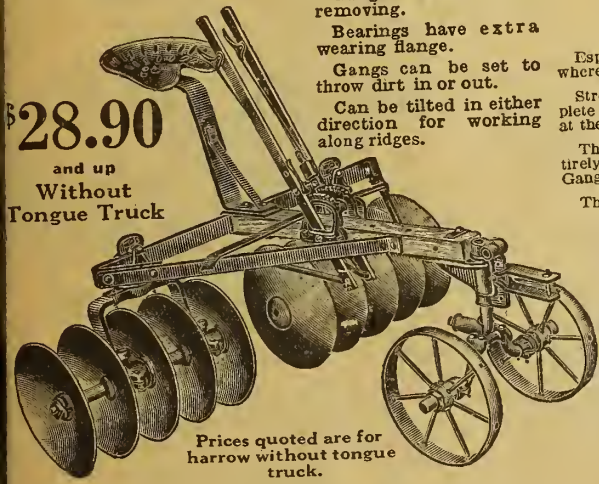
87C935—Hard maple bearings for Sattley harrows.

Price, Per pair at factory or warehouses **30c**

Special Features

Gangs reverse without removing.
Bearings have extra wearing flange.
Gangs can be set to throw dirt in or out.
Can be tilted in either direction for working along ridges.

\$28.90
and up
Without Tongue Truck



Prices quoted are for harrow without tongue truck.

Sattley Reversible Disc Harrow

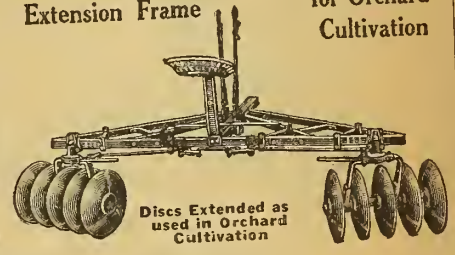
Especially Adapted to Orchards, Vineyards, Etc.

Especially adapted to orchards and vineyards, and for use on plantations where the ordinary high wheel cultivator cannot be used.
Strength is one of the principle features. The frame proper forms a complete triangle with the tongue passing clear through it and having a steel loop at the base which envelopes the rear bar.
The disc gangs are all complete in themselves and each is controlled entirely by its own lever. Adjustment for width can be easily and quickly made. Gangs reverse without removing and can be tilted in either direction.
The space between the discs is just a little over 7 inches, the extreme width of 4-disc gang being 21 1/4 inches.
Width of cut of 8 Disc Harrow with gang set close, 39 inches; with gang set wide, 52 inches. Width of cut of 10 Disc Harrow with gangs set close, 52 inches; with gangs set wide, 65 inches.

Article Number	Harrow Without Truck	Shp. Wt. Lbs.	Price With Truck
287C941	Six 16-in. Discs	300	\$28.90
287C942	Eight 16-in. Discs	320	31.40
287C943	Eight 18-in. Discs	330	33.60
287C945	Ten 16-in. Discs	345	33.80
287C946	Ten 18-in. Discs	360	36.65

287C955—Tongue Truck Extra..... \$7.35
287C933—Tongue and Post for Truck 3.25
Shipped from our factory at Springfield, Ill.

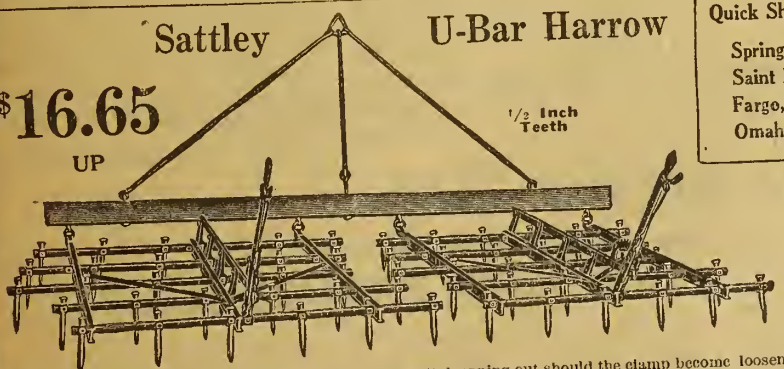
Extension Frame for Orchard Cultivation



287C949—When desired we can furnish a frame as illustrated above to be used with this Harrow for orchard cultivation. The frame can be quickly and easily attached and gives nearly double the range of the regular frame without adding much to the weight of the machine. An 8 Disc Harrow with the Extension of the machine. An 8 Disc Harrow with the Extension of the machine will have a width of 67 inches, and with the Gangs set out to the limit of the extension the machine will have a width of 110 inches. Weight, 85 lbs.
Price, Extension Frame only..... **\$7.95**

Sattley U-Bar Harrow

\$16.65
UP



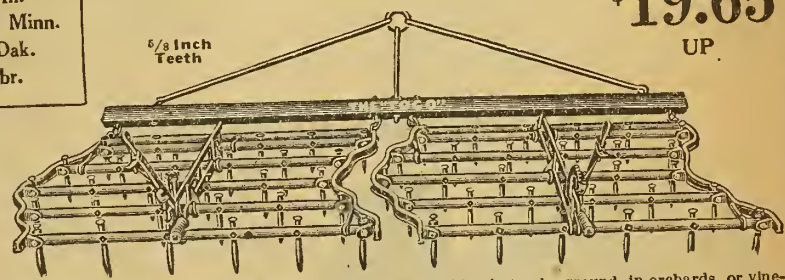
Each individual tooth is fully headed which prevents its dropping out should the clamp become loosened in any way. The teeth are care fully arranged and spaced on the bars so as to cover the ground thoroughly and not to track. They are held together by specially designed clamps which bolt directly through the bar.
The levers which regulate the slant of the teeth are amply long and conveniently placed to permit of easy operation while the harrow is in motion.
Sattley steel "U"-Bar Harrows are equipped with 1/2 inch teeth and put up in the sizes listed below:

Article No.	Width of Cut and No. of Sections	No. of Teeth	Shp. Wt.	Price at Springfield, Ill.	Price at Omaha, Neb.	Price at Saint Paul, Minn.	Price at Fargo, No. Dak.
287C321	8 Ft., 2 Sec.	50	195 lbs.	\$16.65	\$18.85	\$17.60	\$18.10
287C322	10 Ft., 2 Sec.	60	240 lbs.	17.65	20.00	18.85	19.45
287C323	12 Ft., 2 Sec.	70	285 lbs.	19.00	21.45	19.85	20.55
287C324	12 Ft., 3 Sec.	75	300 lbs.	19.65	22.10	20.55	21.25
287C325	15 Ft., 3 Sec.	90	360 lbs.	21.00	23.45	21.90	22.60
287C326	18 Ft., 3 Sec.	105	430 lbs.	22.35	24.80	23.25	23.95
287C327	20 Ft., 4 Sec.	120	495 lbs.	23.70	26.15	24.60	25.30
287C328	22 Ft., 4 Sec.	140	575 lbs.	25.05	27.50	25.95	26.65
287C329	24 Ft., 4 Sec.	140	575 lbs.	27.00	29.35	27.80	28.50

Quick Shipments from Springfield, Ill., Saint Paul, Minn., Fargo, No. Dak., Omaha, Nebr.

Sattley Yogo Guard Rail Harrow

\$19.65
UP



The guard rail is a great advantage, particularly when working in trashy ground, in orchards, or vineyards.
The levers are equipped with a compression spring device which supplies a yielding resistance to the teeth, a great advantage in stony ground. Otherwise this harrow is made of the same materials and teeth, a great advantage of many "guard rail" harrows is that the connecting device on ends of bars soon wears out letting the bars pull loose. This defect is overcome in this harrow by a patent connecting device consisting of a malleable casting which bolts securely to the ends of each bar, and having a projecting tip or pin which protrudes through a socket hole in the heavy guard rail and is securely washered and keyed on the reverse side.

Article No.	Width of Cut and No. of Sections	No. of Teeth	Shp. Weight Pounds	Price at Springfield, Ill.	Price at Omaha, Neb.	Price at Saint Paul, Minn.	Price at Fargo, No. Dak.
287C335	9 1/2 ft. 2 Sec.	60	240	\$19.65	\$20.85	\$20.85	\$21.45
287C336	11 1/2 ft. 2 Sec.	70	285	20.50	21.70	21.70	22.30
287C337	14 1/2 ft. 3 Sec.	90	360	23.65	24.85	24.85	25.45
287C338	17 1/2 ft. 3 Sec.	105	430	26.80	28.00	28.00	28.60
287C339	19 ft. 4 Sec.	120	500	29.95	31.15	31.15	31.75
287C340	23 ft. 4 Sec.	140	590	41.00	42.20	42.20	42.80

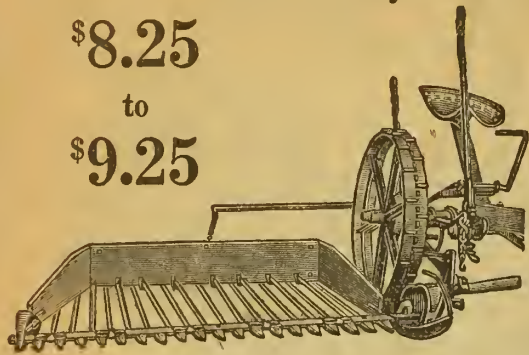
Workmanship and finish of the very best in every Sattley Implement.

Montgomery Ward Co. Chicago

Handy Haying Machinery

Climax Hay Buncher

\$8.25
to
\$9.25



**For Bunching
All Kinds of
Grass or Grain**

Especially designed for Prairie Grass and suitable for bunching all kinds of Grass or Grain. Attaches to any make of Mower without boring a hole. Adds but little weight to the machine. Spring Steel Pick-up Bars.

Very popular in Western States and largely used in cutting the very short hay which cannot be picked up with the rake, or where a windrower cannot be used.

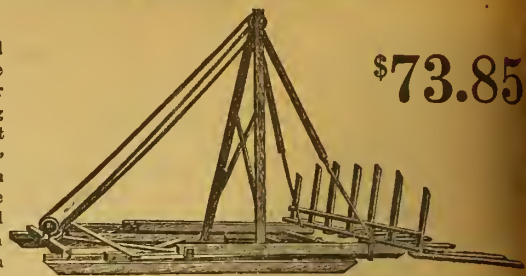
Many in use in the cattle ranching sections to gather the short hay in bunches for stock to feed on during the Winter months. It avoids the lodged dead grass and weeds that a rake picks up, and the grass retains more nourishment and color than when gathered with a rake. Foot lever on hopper convenient for operator to easily dump. Light and easy to operate. Space between bars, 2 1/4 in.

- 287C1511—To fit 4 1/2 ft. Mower. Ship. wt., 40 lbs. Price..... **\$8.25**
 - 287C1512—To fit 5 ft. Mower. Ship. wt., 45 lbs. Price..... **8.50**
 - 287C1513—To fit 6 ft. Mower. Ship. wt., 50 lbs. Price..... **8.75**
 - 287C1514—To fit 7 ft. Mower. Ship. wt., 55 lbs. Price..... **9.25**
- Shipped from factory in Southern Minnesota.

Champion Overshot Stacker

Made of Sound, Seasoned Select Material

\$73.85



The Champion makes a solid and nice appearing stack. The load is delivered to the center and the constant pounding tends to bind the center so that there is no settling afterwards, excepting at the end, which tends to shape the stack. Made after the patterns of the original Champion type that has such popularity and has given such excellent satisfaction. Superior to many other styles of overshot stackers and one of the best of its type made. The lift at the start being nearly directly over the load makes an easy start and changing as the load rises, keeps the pull at nearly right angles to load at all times. Pull rope being fastened in center at top makes a direct pull, reducing friction to minimum. The extension rods extending from top of derrick to outside arm balance the load and prevent tipping where it is heavier on one side than the other. Also has side braces on the arms, which prevents swaying when the load reaches the top. Can be adjusted to elevate from 12 to 17 ft. in height. Has recoil spring, which gives the pitching effect when discharging load on stack, also serves the purpose of cushioning the stop and starting the head on its return trip to ground.

- 287C1506—Ship. wt., about 800 lbs. Price..... **\$73.85**
- Shipped from factory in Missouri.

Climax 4-Wheel Buck or Sweep Rake

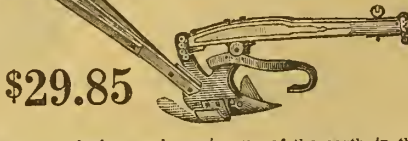


\$54.00

Strong and durable. Excellent lever control. Made of select material, well seasoned, carefully selected teeth and frame. Fully equal in strength, durability and easy lever operation to any other rake you can buy. Used in nearly all of the alfalfa sections of the West. Superior to many well known makes, especially in the lever arrangement, which allows the operator to handle the shocks with less labor on self and team. We recommend it especially in heavy crops. Is mounted on 18-in. diameter main wheels with wide tires, castor wheels in rear. Removable boxing, easily replaced when worn. Width, 12 ft., length of teeth, 8 ft., metal pointed.

- 287C1504—Price, complete. Ship. wt., 500 lbs. **\$54.00**
- Shipped from factory in Missouri.

Larimer Ditcher



\$29.85

Designed for digging or loosening up of the earth in the ditch. Will work in the hardest ground to the depth of at least 3 feet. On frequent tests two men and two horses have thrown out 40 rods per day out of a ditch 16 inches wide and 3 1/2 feet deep.

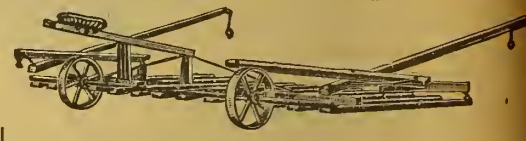
Has all chilled bottom and makes a furrow 6 inches wide. The tile bed shovel regularly furnished with plow, is for finishing up the bottom of the ditch ready for laying the tile. It grades and levels all uneven places so that the fall of the tile is exactly uniform.

Has sub-soil attachment consisting of shield or plate that attaches to side of plow converting ditcher into an excellent sub-soller; also adjustable beam that allows setting ditcher to follow right or left hand plow.

Complete directions with each plow. Shipping weight of plow, with tile bed shovel, 150 pounds.

- 287C711—Plow complete, with tile bed shovel and sub-soil attachment..... **\$29.85**
 - 287C712—Extra points. Ship. wt. 10 lbs. each. Price... **2.10**
 - 287C713—Steel shares extra. Ship. wt. 15 lbs. **6.50**
- Shipped from warehouse near Chicago.

Climax 2-Wheel Sweep Rake

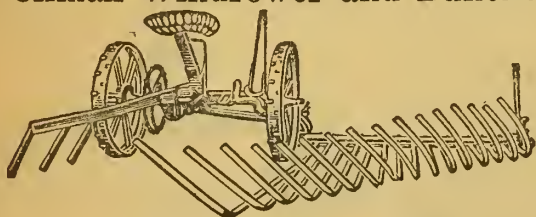


\$33.85

Non-springing pivot tongue. Metal pointed teeth. Made of carefully selected material throughout, carefully dried and seasoned. Built to stand up under hard usage. Regular 12-ft. rakes measuring 11 ft. 8 in. across points of teeth. Easily handled, well balanced, and will stand as much hard work as any similar rake. Ship. wt., 300 lbs.

- 287C1502—Price complete with extra strong well made steel wheels. **\$33.85**
- Shipped from factory in Missouri.

Climax Windrower and Buncher



\$11.00 to \$13.60

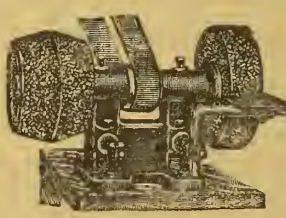
For Clover, Flax, Alfalfa, Peas, Etc.

Especially adapted for clover, flax, alfalfa, peas, etc. Will attach to any mower without boring a hole in cutter bar. For windrowing it delivers the cut crop out of the way of team for next round. Our Windrower and Buncher ought to be in the possession of every farmer raising clover, flax, alfalfa, peas or any similar crop. A few days' use will easily pay for it. It gathers only the crop that the mower cuts, avoiding the dead grass and weeds that a rake picks up. Any crop can be bunched or windrowed as desired. The buncher gate is necessary for bunching. The gate is attached to seat spring and operated with a foot trip and can readily be removed entirely when windrowing. The gates are quoted extra, as some farmers have no use for them.

Bunchers are made of flat, high carbon steel rods adapted especially for this purpose. Attaches to the cutter bar with three clips to the guard bolt. Space between rods is 3 in. Made in four sizes, to fit 4 1/2, 5, 6 or 7-ft. mowers.

- 287C1516—4 1/2-ft. size. Ship. wt., 70 lbs. **\$11.00**
 - 287C1517—5-ft. size. Ship. wt., 75 lbs. **11.35**
 - 287C1518—6-ft. size. Ship. wt., 80 lbs. **12.50**
 - 287C1519—7-ft. size. Ship. wt., 85 lbs. **13.60**
 - 287C1520—Buncher gate for any of the above sizes. Wts., 15 to 25 lbs. State size..... **2.50**
- Shipped from factory in Southern Minnesota.

Climax Power Sickle and Tool Grinder



\$7.75

Has Disc Holder for grinding Harrow and Plow Discs 14 to 18 inches in diameter.

Bolts to bench or table. 5/8 in. main shaft. Bearings slotted in rear to provide a take-up and have oilers. One disc or tool grinding wheel furnished, 6 in. diameter, 1 1/4 in. thick; also one bevel or sickle grinding wheel, diameter in center, 5 1/2 in., 3/4 in. thick at ends. Knuckle-jointed tool rests, may be set at any angle. Diameter of pulley, 2 in., with 1 1/2 in. face. Shipping weight, 36 lbs. Complete with sickle and disc holders, one tool and one bevel stone.

- 187C325—Price..... **\$7.75**
- 87C326—Extra Tool Wheel. Price..... **1.95**
- 87C327—Extra Reveal Wheel. Price..... **2.40**

Five-Disc Grain Drill

For Drilling
Wheat,
Oats, Barley,
Rye
and Other
Small Grains



\$29.80

Covering discs hung V shape. Outer wings. Heavy steel yokes prevent riding out of ground. Width of cut readily changed for any size row from 3 feet 4 inches to 3 feet 10 inches. 13-inch concave discs. Drill cuts 29 to 36 inches. Extensions of boot act as disc scraper and furrow opener. Drill only or combination drill with fertilizer attachment. Hopper holds about one-half bushel. Accurate distribution. Rolls controlled by lever. Gauge shows the amount sown. Sows small beans and smaller seed grains. Fertilizer operates independent of hopper. Either or both operated at one time. Hitch ring set to avoid side draft. Handles have iron fenders on hand holds.

- 187C1453—With grain hopper only. Ship. wt., 190 lbs. Price. **\$29.80**
 - 187C1455—Complete with fertilizer. Ship. wt., 235 lbs. Price. **42.90**
 - 187C1454—Grass seed attachment. Extra ship. wt., 20 lbs. Price **4.25**
- Shipped from stock at Chicago.

Guaranteed Pure Manila Rope

Long Fibre — Pure Manila Rope — Carefully Graded

You will find our rope to be full size, flexible and long wearing. Especially adapted for Hay Carriers. The quality of the fibre gives it not only great strength but also high wear-resisting ability. Any length up to 1,200 feet furnished in one-piece coil.

Size, In. . .	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4
Art. No. . .	187C6230	187C6232	187C6234	187C6236	187C6238	187C6240	187C6244	187C6248	187C6252, 187C6256
Price per ft. . .	3/4c	1 1/2c	2c	2 1/2c	4 1/2c	5 1/2c	7 1/2c	9c	11 3/4c, 13 3/4c
Price, 100 ft. . .	65c	\$1.40	\$1.90	\$2.40	\$4.40	\$5.30	\$7.20	\$8.60	\$11.45, \$13.45
Wt. per 100 ft., lbs. . .	2	4	5 1/2	7 1/4	13	16	16	26 1/2	35, 41

Hawser Laid Pure Manila Rope

Pure Manila, long fibre. Cut to any length. Used as well-drilling cable, etc. Prices on larger sizes quoted upon application. Weight per 100 feet, 3/4 in., 19 lbs.; 7/8 in., 27 lbs.; 1 in., 32 lbs.

- 187C6264—3/4 in. Hawser laid 9 strand. Price per foot. **8 1/2c**
- 187C6266—7/8 in. Hawser laid 9 strand. Price per foot. **12c**
- 187C6268—1 in. Hawser laid 9 strand. Price per foot. **14c**

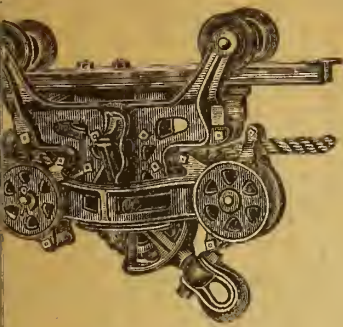
Pure Manila Lariat Rope

7/8 inch 3 or 4 Strand—High Grade Stock. Is Pure Manila, hard laid, will not kink, and runs well. Cut to any desired length.

- 187C6270—3/8 in. 3 strand Lariat Rope. Price, per foot. **3 1/2c**
- 187C6272—7/8 in. 4 strand Lariat Rope. Price, per foot. **4c**

Handy Tools for Haymaking Time

Hay King Large Mouth Carriers \$8.00



Open mouth, allowing fork pulley head to well up into car; strain of lock device placed on carrier is strongest, avoiding friction or strain; fork being close to track permits space to high point. Double swivel. High malleable iron. Sheaves take 1/2-inch or 3/4-inch rope. Fork has loop head, insuring sure lock, and clevis attach fork. Made in two styles, for regular dressed wood track, or to run on our steel track. Carrier furnished with pulley for fork and without rope, ship. wt., 37 lbs., ea. \$7.95
 187C347—For wood track 8.00
 187C348—Extra stops for wood track60
 187C349—Extra stops for steel track60

Double Angle Steel Track. In 5 and 10-ft. lengths; 5-ft. lengths used at ends to break joints. Made of 2 pieces of 1-in. angle steel rail, held together by malleable joint and hook clamps. Ship. about 2 lbs. per foot. Hook clamps are extra. No. 87C107. Joint clamps included. \$16 1/2c
 187C347—Price, per double foot, including joint clamps only

Double Harpoon Hay Fork
 Three sizes for handling all kinds of hay



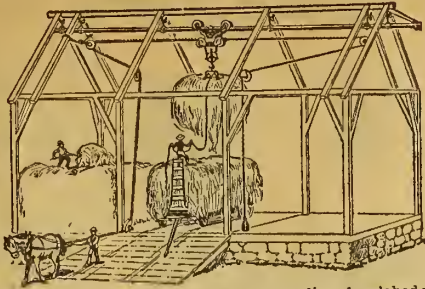
From one of the best known and largest hay manufacturers. Wrought steel, standard weight, size and construction. Perfectly fitted and painted.
 187C376—The kind commonly used. Has 25 in. long from cross bar; width, 17 in. Ship. wt., 16 lbs. \$2.35
 187C377—Extra long line fork, having 31 in. from cross bar; width, 17 in.; suitable for loose straw, alfalfa, etc. Ship. wt., 18 lbs. \$2.90
 187C378—Extra heavy fork, especially adapted for handling alfalfa; has tines 33 in. long from cross bar and width, 22 in. Ship. wt., 30 lbs. \$4.30

Single Harpoon Fork
 Wrought steel Nellis pattern, strong and durable. Illustration shows the fork open for using a load. Length, extended, 36 in. Ship. wt., 12 1/2 lbs. \$2.85
 187C379—Price

Four-Tine Grapple Fork
 For quickly handling hay in big quantities. Made of iron and steel and every way strongly made. E a s y trip. Width, 17 in. Opens 2 1/2 feet. Ship. wt. 5 lbs. \$7.60
 187C381—Price

Six-Tine Grapple Fork
 Especially useful in short hay, alfalfa, straw and alfalfa. Width, 17 in., opens out 4 ft. 5 in. Ship. wt., 51 lbs. \$9.95
 187C382—Price

Climax Hay Rack Brackets \$1.95
 Broad cast bearing top plates which lie diagonally across top of timber. Bolts are secured to the top plate and pass down along the side of timbers where they are secured to the bottom cross timber by nuts against washer timbers. Complete set with directions. All packed in box.
 187C392—No. 1 size, with bolts for 14 in. rack. Ship. wt., per set boxed, 12 1/2 lbs. \$1.95
 Our price, per set of eight.
 187C393—No. 2 size with bolts for 16 in. rack. Ship. wt., per set, boxed, 13 1/2 lbs. Price, per set of eight \$2.25



fork, 3 floor hooks and 3 knot passing pulleys furnished with every wood track outfit.

Article Number	Steel Track Outfit		Manila Rope		Hanging Hks	Rafter Brackets	Wood Track Outfit		Price	
	Length of Barn	Ship. Wt. Lbs.	1/2 in.	3/4 in.			Length of Barn	Ship. Wt. Lbs.		
187C431	30 ft.	160	\$26.15	90 ft. 35 ft.	13	13	187C441	30 ft.	95	\$20.90
187C432	35 ft.	175	28.05	100 ft. 40 ft.	15	15	187C442	35 ft.	100	22.00
187C433	40 ft.	190	30.95	110 ft. 45 ft.	17	17	187C443	40 ft.	105	23.10
187C434	45 ft.	210	33.85	120 ft. 50 ft.	19	19	187C444	45 ft.	110	24.20
187C435	50 ft.	225	36.75	130 ft. 55 ft.	21	21	187C445	50 ft.	115	25.30
187C436	55 ft.	240	39.65	140 ft. 60 ft.	23	23	187C446	55 ft.	120	26.40
187C437	60 ft.	255	42.55	150 ft. 65 ft.	25	25	187C447	60 ft.	125	27.50

187C427—Add 2c per foot for 3/8-inch in place of 1/2-inch rope.

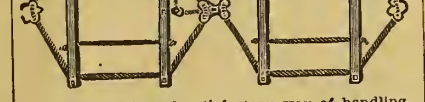
Field Stacking Outfit \$27.45



Complete outfit for hay stacking in the field, will make 50-foot stack. Longer stacks can be made by 1 in. galvanized cable. 2 clamps for making loops around end stakes, 2 shoulder clamps to prevent posts from working inward, 2 bolts for securing posts together where they cross at top. 2 knot passing pulleys, 1 25-inch double harpoon fork, 130 ft. 3/4-in. Manila rope, 65 ft. of 3/8-in. check rope, 1 Champion 3-wheel cable carrier. \$27.45
 187C426—Ship. wt., 170 lbs. Price of above outfit 2c
 187C427—For 3/8-inch rope in place of 1/2-inch, add for each foot of 3/8-inch rope

Standard Wagon Slings \$4.65
 A very quick and satisfactory way of handling hay, straw, fodder, etc. Used in connection with our Champion or New King sling pulleys in place of hay fork. Cross bars are selected wood, good quality rope, with sure lock trip-lock. Lock trips easily.
 Width of sling, 4 or 5 feet, and can be adjusted from 16 to 20 feet in length, if desired by adding rope at the end rings.
 187C387—4 ft. Sling with 4 cross ropes. Ship. wt., 18 lbs. Each \$3.45
 187C388—5 ft. Sling with 8 cross ropes, as shown. Ship. wt., 22 lbs. Each \$4.65
 187C386—Extra Trip Lock 1 lb. \$1.15
 187C385—Complete Set Sling Irons. (No woods, no rope.) Wt., 3 lbs. \$2.25

Western Sling Nets, 6-ft. Bar \$6.85
 Especially adapted for handling headed grain, short hay, sheaf oats, and regular hay in big quantities. The 5 crossed ropes on each section insures cleaner and more compact loads than the regular 2 rope Standard sling. Has malleable iron center trip lock, easily tripped. Wt., 28 lbs.
 187C389—Price



Hay Fork Pulley \$36c
 Has removable center pin, swivel eye, iron frame with a heavy rib which adds great strength. 5 1/2-inch wood sheave; 1-in. self lubricating pin. Weight, 3 lbs. \$36c
 187C373—Price

Knot Passing Pulleys \$49c
 Has extra large knot passing head with swivel 6-in. wood sheave, malleable iron frame which will not spring. Rope cannot get between the frame and the sheave or be cut on the edge of sheave. Wt., 3 1/2 lbs. \$49c
 187C374—Price, each

Hay Fork Pulleys \$38c
 Self-oiling after once greased. Has wood shell with inner steel frame and 4 1/2 in. wood sheave; wrought iron axle support; steel swivel eye. Very strong durable and popular. Wt., 3 1/2 lbs. \$38c
 187C372—Price

Snatch Pulley Block \$1.25
 Shortens one-half the travel of the horse. Requires more pull than direct coupling. Malleable iron. Rope can be thrown off. Wt., 5 1/2 lbs. \$1.25
 187C370—Price, without rope, singletree, or small pulley

Rope Hitch With Swivel \$29c
 Easier than to tie and untie a knot. It can be attached at any place to make the proper length. Prevents rope from twisting. Made of malleable iron. Wt., 1 1/2 lbs. \$29c
 187C369—Each

Champion Cable Carrier \$5.25
 For stacking hay in the field. Is exceptionally strong, guides perfectly. Has the Champion automatic trip without springs, is made of malleable iron and will work either way from the stop without turning on the cable. Furnished with stop to fit either 1/2, 3/8 or 3/4-in. cable. Fork Pulley with clevis always furnished. (No Rope.) Ship. wt., 30 lbs. \$5.25
 187C355—Price with trip or stop for 1/2-inch cable
 187C356—Stop for 3/8 or 3/4-in. cable (state which). Wt., each, about 2 lbs. \$35c

Floor Hooks \$15c
 For fastening pulleys to the floor. Wrought iron; ends pointed. Diam., 3/4 in. Length, 8 1/2 in., threaded 4 1/4 in. \$15c
 187C105—Wt., 1 lb. Each

Rafter Brackets Made of Malleable Iron \$6c
 For use in hanging track. No screws or nails furnished. Require 3 d nails. Wt., 5 oz. \$6c
 187C368—Price

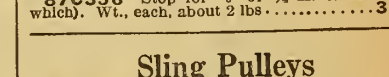
Sling Pulleys \$3.40
 For our Champion or Hay King carriers. Used with our Western or Standard Hay Slings. No rope furnished. Positive lock. Shipping weight, 13 1/2 lbs. Malleable iron.
 187C365—For Champion carriers. With rivet head as shown at the left. Price, \$3.35
 187C366—For Hay King carriers. With loop head as shown to the right. Price, \$3.40

Hemm's Hay Rack Fixtures \$4.50
 With these fixtures any size or style of rack can be made. No vertical holes to bore. By placing upright stakes in openings a stock rack can easily be made. Can be used for any width of timbers desired. Flanged on the inside. Made of malleable iron. A set consists of 8 fixtures, as shown in cut. Ship. wt., per set, fixtures only, 18 lbs. \$4.50
 187C395—Price per set of 8, without bolts
 187C396—Price per set of 8 fixtures and 24 bolts. 3 1/2 x 3, 8 3/8 x 2 3/4, 8 3/8 x 3. Complete outfit. Price \$4.95

Galvanized Wire Cable \$2 1/2c
 For guy ropes, signal cords, fencing, etc. Made of seven wires twisted together. Not pliable enough for use through pulleys. Sold only in lengths of 50, 100 or 150 feet, longer lengths from factory.

Article No.	Diam. Inches	Shp. Wt. per 100 ft. lbs.	Breaking Strain Lbs.	Price per foot
187C401	1/2	52	10,000	5c
187C402	3/4	30	6,300	4c
187C403	1	13	2,300	2 1/2c

Clamps and Bolts \$21c
 187C112—No. 1. Double clamps for end loops for 1/2, 3/8 or 1/4 in. cable. (State which). Weight, 12 oz. Each \$21c
 187C113—No. 2. 1/4-in. post clamps to hold posts on stacking outfit. Wt., 12 oz. Each \$23c
 187C108—No. 3. 12-inch post bolts with 2 washers and 2 nuts to bolt posts together. Weight, 2 1/2 lbs. Each \$25c
 187C109—No. 4. 15-inch eye bolts for tightening cable. Wt., 2 1/2 lbs. \$32c



Farmers' Friend Fanning Mill Outfits

For Cleaning, Separating and Grading Grain

Built extra strong throughout so as to stand lots of hard work. Heavy metal drum, will not warp or crack. Heavy corner posts. All joints securely fastened.

Special—Seed Corn—Seed Oats—Seed Barley

The Special Grading Attachment consists of one long mesh sieve with heavy metal sheet attached, and one square mesh screen for cleaning and grading corn, also one special mesh screen. The special screen will take out the small grains in oats and barley and leave the big strong, healthy grains for seeding purposes.

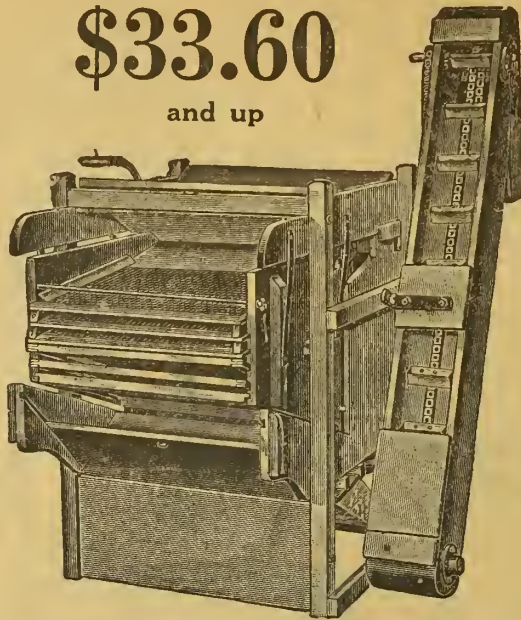
Each mill furnished with 3-gang wheat hurdle with perforated metal-top sieve, wheat grader, side spout, wheat screen, barley sieve, oat or corn sieve and chess board. This outfit is sufficient for cleaning or grading wheat, oats, rye, barley, peas, beans, corn, cotton, buckwheat, kafir corn, broom corn.

Number 1 size, has a capacity of 40 to 60 bushels of grain per hour. Number 2 size, has a capacity of 60 to 80 bushels of grain per hour.

Illustration shows mill equipped with elevator and bagger. This is furnished only at extra charge as quoted. Elevator and bagger can not be supplied to fit other mills than ours and they must be shipped with mill from factory where special work of attaching is done. Weights of extra sieve and screen outfits as quoted, range from 5 to 15 lbs.

\$33.60

and up



Shipped from factory in Southern Wisconsin.

287C6170—No. 1 mill without elev. Ship. wt., 170 lbs.	\$33.60
287C6171—No. 2 mill without elev. Ship. wt., 185 lbs.	42.00
287C6172—No. 1, with elev. and bagger. Ship. wt., 220 lbs.	45.50
287C6173—No. 2, with elev. and bagger. Ship. wt., 240 lbs.	55.25

Extra Outfits.	For No. 1	For No. 2
287C6180—1 sieve and 1 screen for cleaning beans	\$2.25	\$2.65
287C6181—1 sieve and 1 screen for cleaning peas	2.25	2.65
287C6182—1 sieve and 1 screen for cleaning flaxseed	2.25	2.65
287C6183—Succotash hurdle for separating oats from wheat	6.40	7.20
287C6184—1 sieve and 1 screen for separating mustard seed from oats	2.25	2.65
287C6185—One sieve and one screen for cockle	2.25	2.65
287C6186—One long mesh screen to separate chess from wheat	1.10	1.35

Extra Outfits	For No. 1	For No. 2
287C6188—Rice outfit in addition to regular outfit	\$6.35	\$7.00
287C6189—Rice outfit in place of regular outfit, adapting mill for rice only	2.50	3.00
287C6190—Special outfit for cleaning and grading corn, oats and barley	6.30	7.00
287C6191—1 sieve and 1 screen for cleaning millet seed	2.25	2.65
287C6192—1 sieve and 1 screen for cleaning broom corn	2.25	2.65
287C6193—1 sieve and 1 screen for cleaning alfalfa seed	2.20	2.60
287C6194—1 sieve and 1 screen for cleaning orchard grass	2.30	2.70
287C6195—1 sieve and 1 screen for cleaning timothy seed	2.25	2.65
287C6196—1 sieve and 1 screen for cleaning clover seed	2.20	2.60
287C6197—Cleaning Lespedeza seed (Japan Clover) 4 sieves, 1 screen	6.45	7.70

Write for prices on special sieves or cleaning outfits.

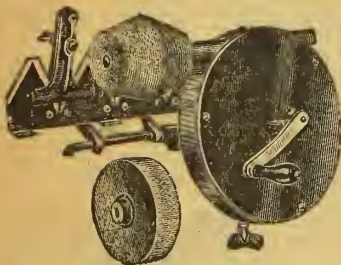
Pulley for Power
We can furnish pulley for power on the No. 1 and No. 2 Mills. Diameter, 10 inches; face, 2 inches. Pulley should not exceed 60 R. P. M. Shipping weight, 12 lbs.
287C6198—Price.....\$2.75

Warehouse Fanning Mills
Constructed same as our Farmers' Friend Mills, larger, heavier, stronger and adapted especially for power. Crank furnished to operate by hand. Bolted bearings, bolts and irons.
No. 2 Mill, capacity, 200 to 300 bushels per hour.
No. 3 Mill, capacity, 300 to 400 bushels per hour. Shipping weight, 275 R. P. M.
Furnished with regular commercial sieve and screen outfit for cleaning and grading wheat, barley, oats and corn. Outfits for cleaning onion sets, rice, coffee, beans, peas or peanuts in place of above at same price.

Article No.	Style and Weight	Price
287C6174—No. 2 Mill without Elevator, 325 lbs.		\$80.00
287C6175—No. 2 Mill with Elev. and Bagger, 400 lbs.		101.00
287C6176—No. 3 Mill without Elevator, 350 lbs.		90.00
287C6177—No. 3 Mill with Elev. and Bagger, 430 lbs.		114.00

Superior Sickle and Tool Grinder

A Smooth Running Grinder for Sharpening Sickles and All Kinds of Farm and Mechanics' Tools.



\$6.00

Worm gears cut from a solid piece of steel. Gears are enclosed in dust proof case which insures long life and quiet running.

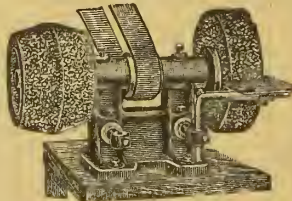
Two good stones are furnished—one for sickles, the other for tools. Tool rest included. Sickle holder slides on frame enabling two sections to be ground without changing the clamp.

Has a substantial clamp for fastening to table or bench. Shipping weight, 16 pounds.

187C335—Price.....	\$6.00
87C331—Extra Tool Wheel.....	1.00
87C332—Extra Sickle Wheel.....	1.25

Climax Power Sickle and Disc Grinding Head

\$7.75



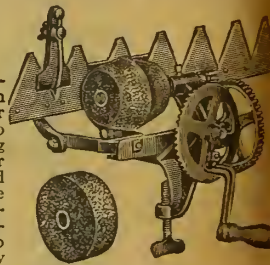
Has Disc Holder for grinding Harrow and Plow Discs 14 to 18 in. diameter.

Bolts to bench or table. Simply constructed and accurately machined. 1/2 in. main shaft is machined steel. Bearings slotted in rear to provide a take-up and have oilers. One disc or tool grinding wheel furnished, each 6 in. diameter, 1 1/2 in. thick; also one bevel, or sickle grinding wheel, diameter in center, 5 1/2 in., tapering to 4 1/2 in.; 3 1/2 in. thick at the ends. Knuckled-jointed tool rests, may be set at any angle; a sickle or mower knife holder and disc sharpening attachment. Diameter of pulley, 2 in., with 1 1/2 in. face. Ship. wt., 36 lbs. Complete with sickle and disc holders; one tool and one bevel stone.

187C325—Price.....	\$7.75
87C326—Extra Tool Wheel, Price.....	1.95
87C327—Extra Bevel Wheel, Price.....	2.40

Climax Sickle and Tool Grinder

\$4.80



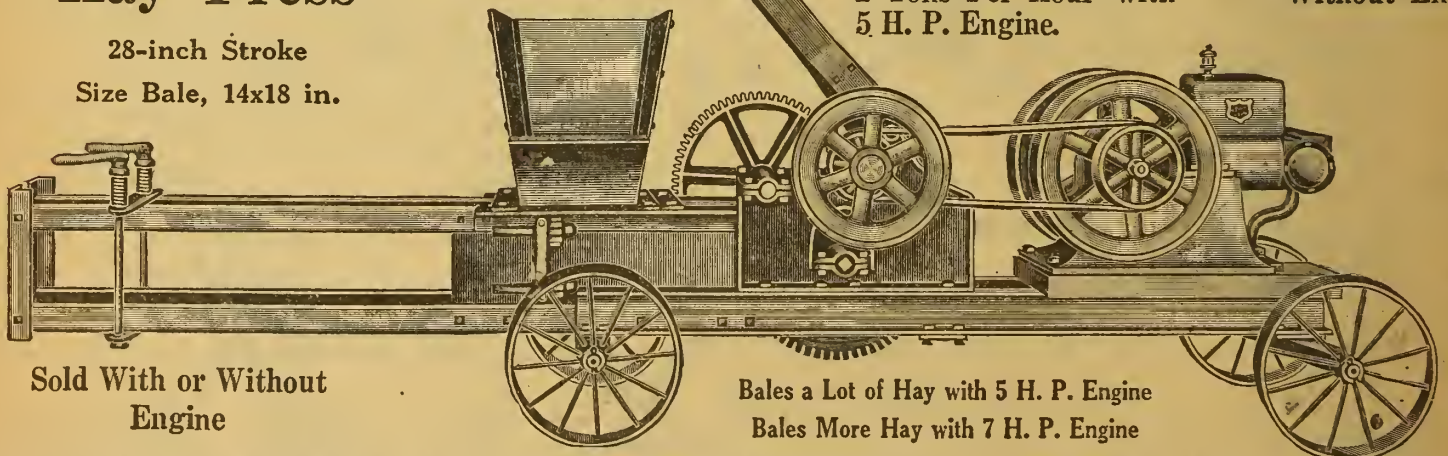
Adjustable clamp at bottom to conveniently attach to wheel on harvester or mower, for sickles; and to bench or table, for grinding tools. Mower Knife Holder adjustable as desired, and firmly holds the mower knife with two guides or rests, adjustable for any width or thickness of knife backs. Clamp allows shifting of knife to any position while grinding. Weight of knife is carried by holder and operator has full view, and easily controls the pressure and governs the grinding of nicks, gaps and any width or length of bevel.

Grinding wheels are vitrified corundum. Price includes one sickle or bevel wheel, one tool wheel, diameter, 4 in., face 1 1/2 in., one tool rest and mower knife clamp. Ship. wt., boxed, 14 lbs.

187C330—Price.....	\$4.80
87C331—Extra Tool Wheel, Price.....	1.00
87C332—Extra Bevel Wheel, Price.....	1.25

Ward's Power Hay Press

28-inch Stroke
Size Bale, 14x18 in.



Sold With or Without Engine

Bales a Lot of Hay with 5 H. P. Engine
Bales More Hay with 7 H. P. Engine

A Fast Working Press Can Be Operated by 2 or 3 Men. Capacity 1 to 2 Tons Per Hour with 5 H. P. Engine. **\$495.00** Without Engine

Can be Adjusted to Feed Any Kind of Soft Material That You Can Tie with Wire

Here is a fast working, high grade, Power Hay Press, that will bale hay as well as any other press on the market.

As there is no feed table for this press, the labor of one man is eliminated. The one-piece feeder has a positive action and continues its course down while the Plunger advances forward, thereby not permitting the hay getting out of the baling chamber. It can be adjusted to feed any kind of material that you can tie with wire.

Can be thrown in and out of gear without interfering with the engine; the clutch lever operating a dental clutch being convenient to either the tier or the pitcher.

The principle of this machine is small feeds and lots of them. In blocking this machine, we lay the board on top of the plunger head, holding on to the rope. A feed of hay can be put on top of the board and as the plunger head recedes the board drops into place; the operator only being compelled to hold on to the rope sufficiently long to allow the block to swing perpendicular. This method is better than the block droppers because the blocks have to be handled only once, whereas with the block-dropper they are handled twice.

The belt pulley is 10 in. in diameter with a 6 in. face. The feeder is so arranged that it comes clear of the hopper in operation, making it easy to get the hay into the machine.

It makes a bale 14x18 inches, weighing about 80 lbs. Of course, the weight varies a great deal depending upon the condition of the hay. The amount of hay that can be baled will vary according to the number of men, the speed at which they work and the condition of the hay or straw being baled. It is customary to operate these presses with two or three men and the capacity will average from one to two and one-half tons per hour. This baler should not be operated with less than a five-horse-power engine or more than seven-horse-power engine. A complete description of our Sattley engine can be found on page 1024 of this catalog.

If you already have a five, six or seven-horse-power engine you can purchase the press and install your own engine.

Specifications: Wheels 26 in. x 4 in. axles 1 1/2 in. solid steel running from one wheel to the other housed in a 2 1/2 x 5 angle being clamped in place with four sets of axle clamps. Foundation of press 6 in. channel. All bearings are babbitted. Speed of fly wheel 600 revolutions with a variation of 100 either slower or faster. Size of fly wheel shaft 1 1/4 in. Size of intermediate shaft 2 1/4 in. Feeder shaft 1 3/4 in. Feed opening 20 in.

The press is equipped with tongue, neck-yoke, doubletrees, and three blocks. When mounted with engine we furnish very best 6 in., 4 ply, water-proof belt that can be bought at the purpose.

287C1440—Complete hay press without engine. Shipping wt., 2400 pounds. Price.....\$495.00

If you wish a complete outfit including the press with five-horse-power Sattley Engine mounted and including a high grade water-proof belt with idler, we can supply it at prices as follows:

287C1441—Complete press mounted with Sattley five-horse-power Gasoline Engine. Shipping wt., about 3345 lbs. Price.....\$619.50

287C1442—Complete press mounted with Sattley five-horse-power Kerosene Engine. Shipping wt., about 3355 lbs. Price.....\$653.00

287C1443—Complete press mounted with Sattley seven-horse-power Gasoline Engine. Ship. weight, about 3715 lbs. Price.....\$689.75

287C1444—Complete press mounted with Sattley seven-horse-power Kerosene Engine. Ship. weight, about 3755 lbs. Price.....\$727.00

Shipped from warehouse near Kansas City.

Powerful One-Horse Hay Presses

Light Draft and Fast Baling

Because these presses pull easy owing to the long sweep and the great leverage on cross head, it makes the work lighter and the horse does not tire quickly but can keep up at a steady rapid gait for the full day. The result is you can bale a lot of hay.

No trouble to make from 20 to 30 bales per hour and many users have done much better. The capacity of any hay press depends largely on the condition of the hay and the work of the men who are operating it, but we guarantee these presses to bale as much hay as any horse power presses made.

Specifications

	Wood Press	Steel Press
L'gth of Sweep	11 ft.	11 ft.
Feed Opening	16x28 in.	14x28 in.
Size Bale	16x18 in.	14x18 in.
Stroke	33-in.	33-in.
Cross head from center to outside	15¼ in.	15¼ in.
Roller on cross head	3 in.	3 in.
Average cap. bales per hour	20 to 30	20 to 30
Power required	1 Horse	1 Horse
Strokes to each round of horse	Two	Two
Division Boards	Three	Three

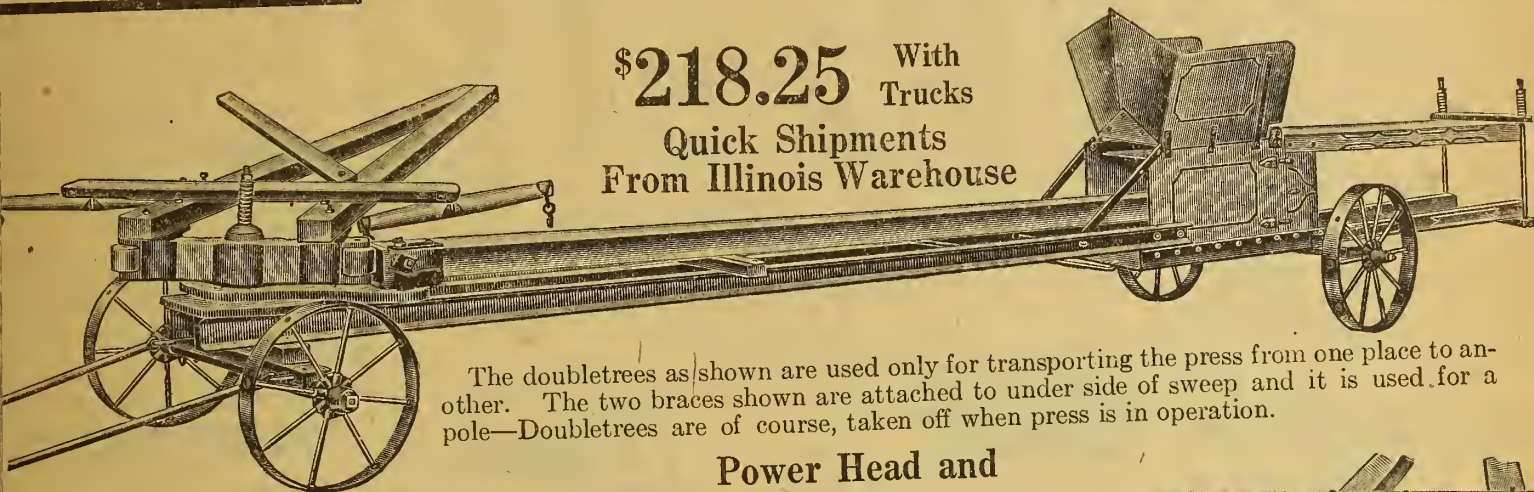
Special Features

Long sweep and short cross-head gives Powerful Leverage—Works Easy—Pulls Easy—Makes Good Hay.

28-inch feed opening; 33-inch stroke. Opens automatically—no hay lost. Two strokes to each round of the horse. Rebound brake prevents slam or jerk on the horse, adds to life of press and makes work easier.

\$218.25 With Trucks

Quick Shipments From Illinois Warehouse



The doubletrees as shown are used only for transporting the press from one place to another. The two braces shown are attached to under side of sweep and it is used for a pole—Doubletrees are of course, taken off when press is in operation.

The Steel Press

The steel press is furnished only with trucks and is a powerful machine, built for long hard work. There are some sections where users insist on having a steel press in preference to a wood press and we guarantee this machine to be absolutely satisfactory for baling any kind of hay.

Heavy metal baling chamber. The power sills are made of rich steel with heavy truss rod and possesses great strength. Trucks are all steel.

This Press Will Surprise You

Built of wood and sold at a very low price, but—it is solid, strong and durable, a powerful machine, an easy rapid worker, will wear for years and bale just as much hay and do just as well as any horse power hay press made—it is a real hay press.

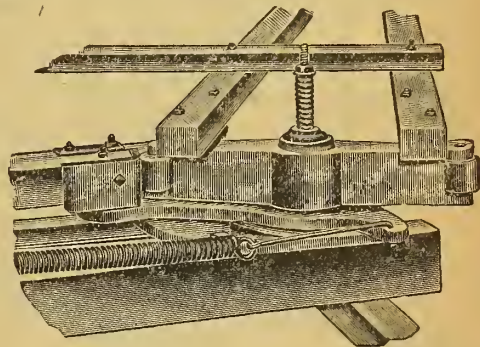
Power Head and Rebound Brake

Used on Both These Presses

This illustration shows the powerful construction of the cross-head. It is built for hard work. The rollers are 3-in., which means longer wear.

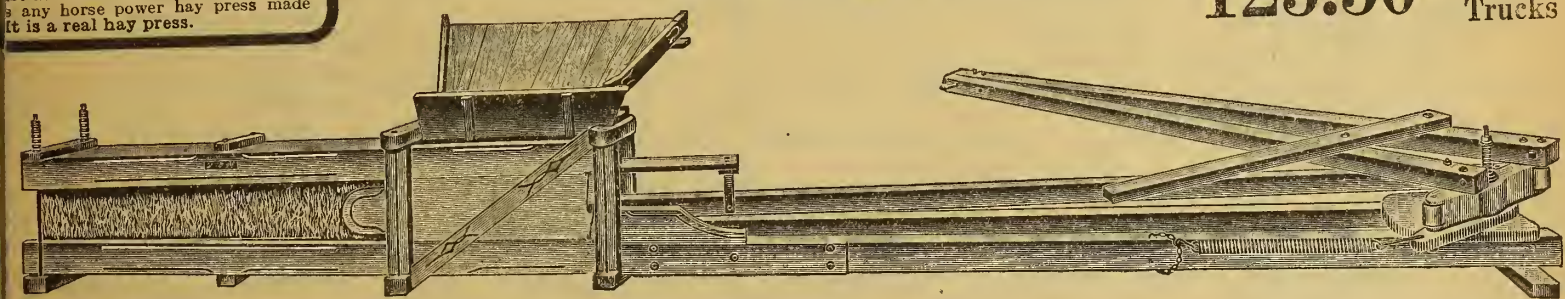
A special Rebound Brake takes off the jar of the plunger as it rebounds. It is this rebound which usually tears a hay press to pieces, but on these presses the life of the machine is practically doubled, because the rebound brake takes off the jar.

On the bottom casting are two wedges. As the plunger rebounds the guide lever to which it is attached turns on the bottom casting and these wedges force it up against the cross head. On top of the cross-head is a heavy compression spring which absorbs the rebound shock, relieves the press and prevents the sweep from jerking or jumping forward and hitting the horse on the heels.



Quick Shipments From Illinois Warehouse

\$125.50 Without Trucks



The Wood Press

This Wooden Press is a real machine, built from sound, solid timbers and will bale hay just as well as any horse power press made. You can get just as good results from it as you can from other presses that will cost you a lot more money. It is a powerful, durable press, built for hard work and lots of it. Can be loaded or unloaded from a wagon by two men and the trucks are not really necessary but can be furnished at an extra charge, if you want them. Only one bolt to take out to load on wagon where you are not using trucks. Does not require staking down, because a wood cross-bar holds it in place while in operation.

Prices One-Horse Hay Presses

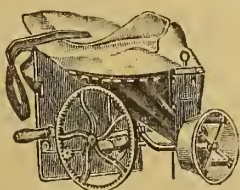
Article No. and Description	Weight Lbs.	Price at Georgia Factory	Price at Southern Ill. Warehouse
287C1447—Steel Press with trucks, doubletree and neckyoke	1400	\$ 192.00	\$218.25
287C1448—Wood Press without trucks	1250	102.00	125.50
287C1449—Trucks for wood press	150	29.50	32.25

Bale Ties

Single loop. Strictly first class standard ties. Put up in bundles of 250.

Article No.	Length	Size Wire	Weight Lbs.	Price per Bundle
287C1435	9 ft.	No. 16	24	\$2.25
287C1436	9 ft.	No. 15	32	2.75
287C1437	9½ ft.	No. 15	34	2.90
287C1438	9 ft.	No. 14	39	3.10
287C1439	9½ ft.	No. 14	42	3.30

Shipped from warehouse in Southern Illinois



Cahoon Seeder

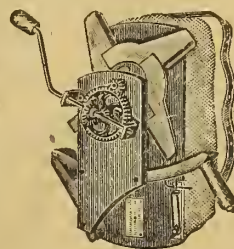
A first-class Crank Seeder

\$5.25

Not Mailable

Will give long and satisfactory service. Improved Seeder for sowing wheat, barley, oats, buckwheat, hemp, rice, grass seed, etc. Sows from 4 to 8 acres per hour at a common walking gait, throwing out wheat about 36 feet wide. Back and base is sheet steel, distributor pressed steel, cast gearing, strong and durable. No parts to get out of order easily. Shipping weight, 7½ pounds.

187C144—Price..... \$5.25



Climax Hand Seeder

\$2.25

Our Climax Hand Seeder will distribute uniformly and operate easily. The distributor wheel is unusually large, throwing the seed very far to the round. Has double feed opening which causes an even amount of seed to be dropped on both sides of the distributor wheel, at the same time insuring far more uniform distribution than when fed from one opening on one side. A stirring wire insures the seed being fed evenly. The gearing is especially true and close fitting. The bag holds about one-half bushel. Sows grass seed 27 to 36 ft. to the round; grain, 36 to 50 ft. to the round. Light running. Shipping weight, 3½ pounds.

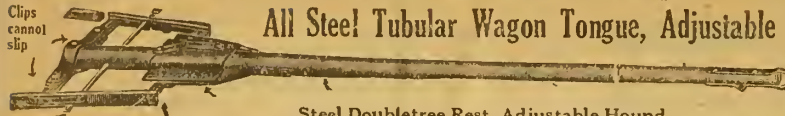
187C143—Climax Hand Seeder. Price..... \$2.25

A Climax Farm Wagon will save time and labor.

★ Montgomery Ward & Co. Chicago

Repairs and Fittings for Wagons and Buggies

All Steel Tubular Wagon Tongue, Adjustable



Tongue is an open seam steel taper tube. Hound is adjustable and fits any wagon. Adjusted front, from 10 to 12 in.; rear, 15 1/2 to 19 in. Quickly and easily attached or detached. Painted red. Weight, about 58 lbs. Tongue bolt not included.
187C8300—Price, Tongue Complete with Hound, each **\$11.25**

Oak Wagon Tongue With Adjustable Hound



Seasoned oak wagon tongue, painted red. Length, 11 ft. 6 in. Tongue, 3 1/2 in. thick. Hounds adjustable from 15 to 19 1/2 in. at wide point. Ship. wt. about 50 lbs.
187C8301—Price, each **\$11.25**

Wagon Bolster—Front

Selected oak. Finished ready for stake mortises. Weight, 14 to 22 pounds.

Size Inches	Narrow Track No.	Price	Wide Track No.	Price
3 x 4	187C8936	\$1.45	187C8939	\$1.55
3 1/4 x 4 1/4	187C8987	1.60	187C8990	1.70
3 1/2 x 4 1/2	187C8988	1.95	187C8991	2.10

Wagon Bolster—Hind

Selected oak. Finished ready for stake mortises. Weight, 14 to 22 pounds.

Size Inches	Narrow Track No.	Price	Wide Track No.	Price
3 x 4	187C8980	\$1.45	187C8983	\$1.55
3 1/4 x 4 1/4	187C8981	1.60	187C8984	1.70
3 1/2 x 4 1/2	187C8982	1.95	187C8985	2.10

Hickory Pole Circles

Bent and ready to be fitted and ironed. Wt. each, about 3 lbs. Each
187C8470—Size, 1 1/4 x 1 1/4 in. at center **\$1.35**
187C8471—Size, 1 1/2 x 1 1/2 in. at center **1.50**
187C8472—Size, 1 3/4 x 1 3/4 in. at center **1.65**

Side Board Cleats

For Wagon Boxes. Hardwood. Wt., 7 lbs.
187C8960—Size, 1 1/2 x 18 in. Price, per dozen **\$2.55**

Finished Hickory Evers

Not ironed. Dressed white.

Art. No.	Size Inches	Length Feet	Weight	Price
187C8995	2 x 4	4 ft.	9 lbs.	\$1.10
187C8998	1 1/2 x 3 1/2	3 ft. 6 in.	5 lbs.	.85

Wagon Box Bottoms

1/2-inch Yellow Pine. Tongued, grooved, trimmed. Length, 10 ft. 6 in.
187C8375—Width, 38 in. Set, each **\$9.40**
187C8376—Width, 42 in. Set, each **9.95**

Farm Wagon Front Bolsters



Ready for use. Made of oak. Front bolsters, including stakes. Ironing consists of full length plate on top of bolster, heavy wear plate on under side, stakes ironed on both sides, and braced also stake rings.

38-Inch Front Bolsters

Article No.	Size	Weight	Price
187C8820	3 in.	23 lbs.	\$4.55
187C8821	3 1/4 in.	28 lbs.	5.60
187C8822	3 1/2 in.	33 lbs.	6.15

42-Inch Front Bolsters

Article No.	Size	Weight	Price
187C8823	3 in.	25 lbs.	\$4.80
187C8824	3 1/4 in.	30 lbs.	5.85
187C8825	3 1/2 in.	35 lbs.	6.40

Ironed Bolsters Front Bolsters



The hind bolsters are ironed in a similar manner, except that they have no plates on the under side. Stakes, height, 12 in. Made in narrow track, 38 in.; or wide track, 42 in. between stakes.

38-Inch Hind Bolsters

Article No.	Size	Weight	Price
187C8826	3 in.	25 lbs.	\$4.20
187C8827	3 1/4 in.	28 lbs.	5.20
187C8828	3 1/2 in.	32 lbs.	5.75

42-Inch Hind Bolsters

Article No.	Size	Weight	Price
187C8829	3 in.	25 lbs.	\$4.40
187C8830	3 1/4 in.	30 lbs.	5.45
187C8831	3 1/2 in.	35 lbs.	6.00

Finished Oak Wagon Tongues

Made of Selected Seasoned Oak Stock Finished Ready for Irons.
187C8900—Size, 3 1/2 in. Weight, 40 lbs. Each **\$4.45**
187C8901—Size, 4 in. Weight, 50 lbs. Each **5.10**

Cultivator Tongues

Select Seasoned Yellow Pine.
187C8902—Size, 2 3/4 in. Weight, 20 lbs. Each **\$1.85**
187C8903—Size, 3 in. Weight, 25 lbs. Each **1.95**

Oak Wagon Spokes

52 spokes to a set. 24 for the front wheels and 28 for the rear wheels. Front spokes are about 22 inches long. Rear spokes, about 26 inches long. Size given below is width at tenon. In ordering less than set, state front or rear.

Article No.	Weight	Size	Per Set
287C8410	50 lbs.	1 1/4 in.	\$4.35
287C8411	60 lbs.	2 in.	5.10
287C8412	70 lbs.	2 1/4 in.	5.40
287C8413	80 lbs.	2 3/4 in.	6.10
287C8414	90 lbs.	3 in.	6.75

Steel Adjustable Wagon Hound



Extra heavy all steel wagon hound, quickly and easily attached or detached to any wagon with one ordinary wrench.

Made of high grade heavy plate and channel steel. Bars have large steel bushing to prevent wear on the rod. Range of front adjustment from 10 1/2 to 14 1/2 inches; rear adjustment, 12 1/2 to 20 inches. Takes 3 1/2 or 4-inch tongue. Shipping weight, about 16 lbs.
187C8310—Price, complete as described, Each **\$4.70**

Oak Wagon Sway Bar

Weight, 7 1/2 lbs. Size, about 1 1/4 x 2 1/2 x 48 in.
187C8955—Each **\$1.10**

Oak Wagon Front Hounds

187C8942—Weight, 12 pounds. Length, 12 in.; thickness, 1 1/2 in. Price, per pair **\$1.10**

Oak Tongues For Drop Hounds

187C8945—Oak. Wt., 6 lbs. pair. Size, 1 1/2 x 2 1/2 x 32 in. Price, per pair **\$1.10**

Oak Wagon Hind Hounds

187C8940—Length, 46 inches; thickness, 1 1/2 inches. Weight, 12 pounds. Price, per pair **\$1.10**

Oval Plow and Wagon Singletrees

Hickory, in white. Wt., 3 to 4 1/2 lbs.
187C8930—2 1/2 in. center. 30 in. long.
187C8931—2 3/4 in. center. 36 in. long.
187C8932—2 3/4 in. center. 36 in. long.

Hickory Wagon Neckyokes

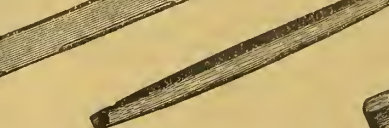
187C8925—2 1/2 in. center. Length, 10 ft. 6 in. Wt. 5 lbs. Price, each **\$1.10**

\$1.15



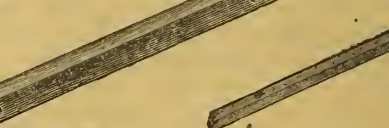
Wagon Bolster Stakes
 Oak. Surfaced. Weight, per set, 8 lbs.
187C8383—Size, 1x18 in. Price, per set of 4 **\$1.15**

\$2.65



Four Horse Evener
 Hickory. 2x5x72 inches. Weight, about 20 lbs.
187C8935—Each **\$2.65**

\$1.05



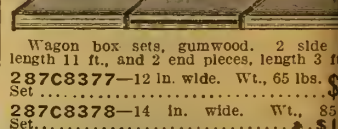
Hickory Oval Plow Doubletrees
 Weight, each, .5 lbs.
187C8950—Size, 3x36 in. Each **\$1.05**

\$2.15



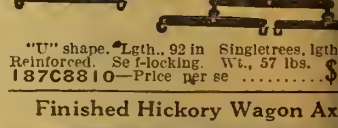
Wagon Box Bottom Cross Bars
 Sets of five. Oak. Thickness, about 1 1/2 in.
187C8385—Set 38 in. Wt., 22 lbs. **\$2.15**
187C8386—Set, 42 in. Wt., 29 lbs. **\$2.55**

\$3.30



Oak Wagon Reaches
 Finished in the white.
187C8910—2x4 in., length, 10 ft. Wt., 25 lbs. Each **\$3.30**
187C8911—2 1/2 x 4 1/2 in., length, 12 ft. Wt., 40 lbs. Each **\$5.40**

39c



Cultivator Singletree
 Hickory in the white, 1 1/2 in. center. Weight, 2 lbs.
187C9000—Price, each **39c**

Oak Wagon Felloes—Finished



Spotted, for twelve spokes in front wheel and fourteen in rear. Set for four wheels includes 26 pieces, 12 for front wheels, and 14 for rear. One-half set at only half price of the set. Wt., 65 to 80 lbs. per set. **287C9005** and **287C9006** are 1 1/4 in. wide and 2 3/4 in. deep. **287C9007** and **287C9008** are 1 1/2 in. wide and 2 1/4 in. deep.

Article No.	Diameter	Price, per Set
287C9005	3 ft. and 3 1/2 ft.	\$3.35
287C9006	3 ft. 8 in. and 4 1/2 ft.	3.40
287C9007	3 ft. and 3 1/2 ft.	3.45
287C9008	3 ft. 8 in. and 4 1/2 ft.	3.50

Shipped from factory in Southern Illinois.



Wagon Bows
 Oak. Lgth. 12 ft. 3/4 in. thick. Width 1 1/2 in. Five piece set. Wt., abt. 15 lbs.
187C8725—Price, set, **\$2.65**

Bent Hounds
187C8720—Oak. Width 3 in. Depth, 2 in. Weight 20 lbs. Price, each, Narrow Track **\$4.85**

Comstock Patent End Gate



Made to fit any standard size farm wagon box. Painted and varnished.
187C8390—Wt., 16 lbs., height, 1 in. for bed width, 38 in. Each **\$3.85**
187C8391—Wt., 17 lbs., height, 1 1/4 in. for bed width, 42 in. Each **\$4.00**
187C8392—Wt., 18 lbs., height, 1 1/2 in. for bed width, 38 in. Each **\$4.15**
187C8393—Wt., 19 lbs., height, 1 1/4 in. for bed width, 42 in. Each **\$4.25**

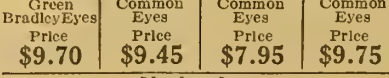
Buggy, Wagon and Surrey Shafts



Straight grained hickory shafts braced and fitted with 1 in. eyes and 1/4 in. holes. Buggy shafts size, 1 1/2 x 2 inches, with sword end singletrees. Weight, about 23 lbs. Surrey and spring wagon sizes. Size, 1 1/2 x 2 1/2 in., with ferrule end and cockeye singletree. Weight, about 30 lbs. Painted shafts furnished complete with leather loops and 24 in. artificial leather ends.

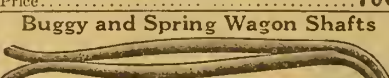
Article No.	Price
187C7184	\$9.70
187C7182	\$9.45
187C7180	\$7.95
187C7186	\$9.75

Neckyokes



Hickory, center sewed leather with steel band around yoke. Length, 42 in. Acorn tips, not painted, complete. Average weight, 4 lbs.
187C8546—Diam. for bugles 1 1/2 in. Price, per set **70c**

Buggy and Spring Wagon Shafts



Hickory, in white. Unironed. Cross bar and singletree. Holes mortised. Medium bend heel.
187C8455—1 1/2 x 2 1/2 in. Wt., 12 lbs. Price, per pair **\$5.45**
187C8457—1 1/2 x 2 1/2 in. Wt., 15 lbs. Price, per pair **\$5.95**

Straight Heel Shafts

Hickory, not ironed, length, 8 feet 11 inches. Size, 1 1/2 x 2 1/2 in. Weight, per pair, 28 pounds.
187C8460—Price, per pair **\$7.95**

Buggy, Wagon and Surrey Poles

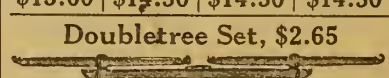


Made of straight grained hickory and ironed complete. Furnished with neckyoke, doubletree and singletrees and stay straps from doubletree to circle. Weight, buggy size, 35 lbs; surrey and spring wagon size, 45 lbs. Standard width between eyes. Fitted with common eyes on buggy size only. Size, 1 1/2 x 2 1/4 inches.

Buggy Size	Price
187C7190 Unpainted Plain Eye	\$13.00
187C7192 Painted Green	\$14.30
187C7194 Unpainted Green	\$14.50
187C7195 Unpainted Plain Eye Size 2x2 1/4 inches	\$14.50

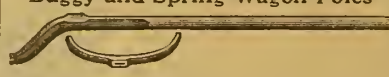
For Heavy Surrey and Sprng. Wagon
187C7195 Unpainted Plain Eye Size 2x2 1/4 inches. Price **\$14.50**

Doubletree Set, \$2.65



Hickory Singletrees have hook ends. Malleable. Iron clips and center plate on eveners, unpainted.
187C7197—Buggy size; weight, 8 lbs. Price, per set **\$2.65**
187C7198—Surrey and Spring Wagon size; weight, 10 1/2 lbs. Price, per set **3.25**

Buggy and Spring Wagon Poles



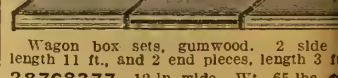
Hickory in the white. Unironed. Includes finished circle. Double bend.

Size Inches	Wt. Lbs.	Number	Price, Each
1 1/2 x 2 1/4	14	187C8465	\$6.75
2 x 2 1/4	17	187C8466	8.75

Finished Cart Shafts, Extra Long

Hickory. Not ironed. Length, 9 ft. in the white. Size, 1 1/2 x 2 1/4 in. Cross bar, circle and singletree included. Weight, per pair, 28 pounds.
187C8450—Per Pair **\$9.95**

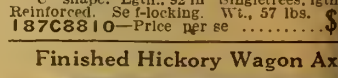
Wagon Box Sets



Wagon box sets, gumwood. 2 side length 11 ft., and 2 end pieces, length 3 ft.
287C8377—12 in. wide. Wt., 65 lbs. Price, set **\$11.00**
287C8378—14 in. wide. Wt., 85 lbs. Price, set **\$11.00**

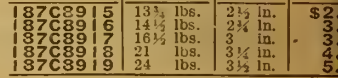
Shipped from factory in Illinois.

Steel 2 or 3 Horse Wagon Equalizer



"U" shape. Lgth., 92 in. Singletrees, lgth. Reinforced. Self-locking. Wt., 57 lbs.
187C8810—Price, per set **\$8.00**

Finished Hickory Wagon Axle



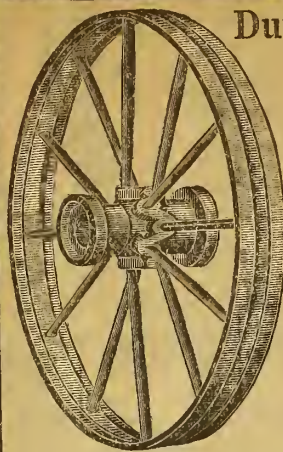
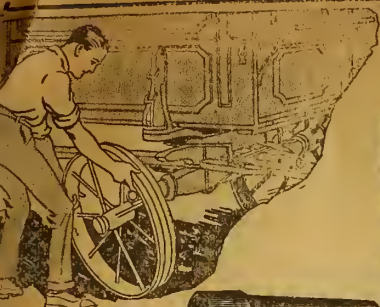
Full size, tough stock. Wide or narrow track.

Article Number	Weight	Skeln to Fit	Price
187C8915	13 1/2 lbs.	2 1/2 in.	\$2.00
187C8916	14 1/2 lbs.	2 3/4 in.	2.30
187C8917	16 1/2 lbs.	3 in.	2.40
187C8918	21 lbs.	3 1/2 in.	2.80
187C8919	24 lbs.	3 3/4 in.	3.10

Oak Wagon Sand Boards

Size Inches	Wt. Lbs.	Narrow Track No.	Price	Wide Track No.
2 1/2 x 3	8	187C8965	\$1.25	187C8968
3 x 3	10	187C8966	1.40	187C8969
3 1/2 x 3	12	187C8967	1.90	187C8970

Farm Wagon and Buggy Accessories



Dura-Built Metal Wheels for Farm Wagons, Trucks

Low Down—Easy to Load—Fit any Axle
 Outlast Several Sets of Wood Wheels
 The Right Size to Use: For farm work we advise 28 in front, 34 in rear wheels with 4 1/2" tire, for use on gravel or stoney roads, or when brake is used 4 1/2" tire. For combination road and farm use 34 in front, 40 in rear with 4 1/2" tire.
 Tires 3/4 in. thick, carry 5,000 lbs. per set. Prices are for one wheel with 1/2 in. tire. Grooved tires are stronger, and are shipped unless plain are ordered.

Article No.	Height	Wt. Per Wheel, lbs.	Tire 3 in. Wide	Tire 4 in. Wide	Tire 5 in. Wide
287C9100	24 in.	58 to 81	\$5.40	\$6.15	\$6.85
287C9101	26 in.	61 to 86	5.70	6.40	7.15
287C9102	28 in.	67 to 94	5.95	6.75	7.50
287C9103	30 in.	70 to 100	6.20	7.00	7.80
287C9104	32 in.	73 to 104	6.45	7.25	8.05
287C9105	34 in.	82 to 115	6.80	7.60	8.35
287C9106	36 in.	84 to 119	7.05	7.85	8.60
287C9107	38 in.	88 to 135	7.35	8.15	8.90
287C9108	40 in.	101 to 146	8.75	9.95	11.15

Extra Strong Wheels
 Tires, 1/2-in. thick, carry 8,000 lbs. per set. Plain tires, not grooved, furnished without charge when ordered. Prices are for one wheel with 1/2-inch tire. Shipped from factory in Illinois.

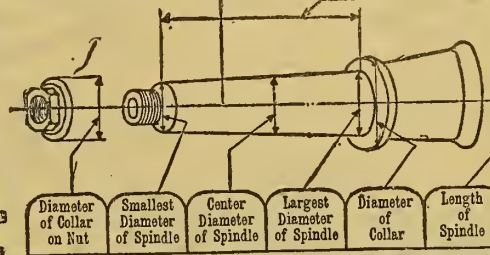
Article No.	Height	Wt. Per Wheel lbs.	Tire 3 in. Wide	Tire 4 in. Wide	Tire 5 in. Wide
287C9125	24 in.	66 to 97	\$6.15	\$7.15	\$8.20
287C9126	26 in.	69 to 103	6.40	7.55	8.65
287C9127	28 in.	76 to 112	6.80	7.95	9.20
287C9128	30 in.	80 to 120	7.15	8.45	9.75
287C9129	32 in.	83 to 125	7.50	8.90	10.40
287C9130	34 in.	93 to 137	8.20	9.70	11.20
287C9131	36 in.	95 to 142	8.35	9.85	11.35
287C9132	38 in.	100 to 160	9.20	10.85	12.50
287C9133	40 in.	114 to 172	9.95	11.70	13.50
287C9134	44 in.	129 to 187	11.15	13.10	15.05

The sizes marked with a star will be shipped in 20 days. The balance will be shipped in 30 days.

For one wheel only, add... 50c
 For hub to fit 4x12 skein, add per wheel... 75c
 Large Hubs—Hubs to fit Skein: 30 in. add per wheel... 95c
 Skeins or axles larger than 4 in. at shoulder take above extras.

No article on the farm is more necessary—more convenient than a low-down wagon, equipped with BROAD TIRE metal wheels. They save the high lift—the backaches—they run easily—will not rut and ruin your roads and fields. They are strongly built and are not affected by heat or cold. They will not warp, rot, swell or split, and their first cost is practically their only cost. Replace your old narrow tire, rut cutting, horse killing wood wheels with a set of low down, broad tire Dura-Built metal wheels.

How to order and Measure Steel Wheels.
 The number and size of spokes, also hub pattern, vary according to size of skein or axle and capacity of wheels. Send all measurements indicated. Measure from skeins only, not from your old wheels. Factory will allow for play. Do not send circumference measurements. If a double collar or sand proof skein, or linch pin axle, write for measuring blank. Give height of both front and rear wheels, width and thickness of tires. If you have no callipers, cut a slot in cardboard as shown in cut to fit over part to be measured, then measure across slot as shown. Measure from side to side of spindle, not from top to bottom. Measure both front and rear axles.



Cast Iron Skains with Boxes

Not intended for use with truss rods. Weight, 0 to 100 lbs.

Size Inches	Cast Skains Number	Price Set of 4
2 1/4 x 8	287C8225	\$6.40
2 1/4 x 8 1/2	287C8226	7.20
3 x 9	287C8227	7.95
3 1/4 x 10	287C8228	9.90
3 1/2 x 11	287C8229	12.15
4 x 12	287C8231	14.65

Shipped from Factory in Central Illinois.

Wagon Axles with Skains

When ordered for metal wheels it is not necessary to include boxes, as wheels have solid hubs. If desired for other wheels, boxes furnished extra at prices quoted. Prices for one axle complete with cast skains. Be sure to give size of skains. Wide track, \$2.75 extra.
 Boxes add to above weights from 5 to 30 lbs.

Size Skains Inches	Weight Lbs.	Narrow Track Number	Price	Add for Boxes
2 1/4 x 8	48	287C9140	\$9.35	\$1.65
2 1/4 x 8 1/2	50	287C9141	9.45	1.75
3 x 9	55	287C9142	10.90	2.05
3 1/4 x 10	60	287C9143	13.95	2.25

Shipped from factory in Illinois with 15 days delay.

Steel Axles

Wide or narrow track.

Article Number	Size of Spindle Inches	Wt. per Set Lbs.	Capacity Per Set Lbs.	Price Per Set	Add for Box
287C9150	1 1/2 x 7	70	1,000	\$18.10	\$3.10
287C9151	1 1/2 x 8	100	1,800	21.85	4.00
287C9152	1 1/2 x 9	135	2,800	26.15	4.45
287C9153	2 x 10	180	5,000	32.70	6.10

Shipped from factory in Illinois 15 days delay.

Steel Neckyoke

187C8090—Length, 44 in. Wt. 11 lbs. \$3.65

Wagon Neckyokes

Hickory, Heavy iron rings and ferrules. Varnished.

Article Number	Diam. in.	Length in.	Weight, lbs.	Price
187C8855	2 1/4	38	8	\$1.80
187C8856	2 1/4	42	10	1.90

Neckyoke Stirrups

Swivel. Made with steel band, leather covered, with stirrup. Weight, per pair, 18 ounces.

187C8760—Per pair. 55c

Premium Singletree Hooks

Made of malleable iron nicely japanned. One of the most popular and widely used hooks.

Article No.	Diam.	Weight per pair	Price pair
187C8540	1 1/2 in.	9 oz.	44c
187C8541	1 in.	10 oz.	46c
187C8542	1 1/4 in.	12 oz.	50c
187C8543	1 1/2 in.	1 lb	58c
187C8544	1 3/4 in.	1 lb 2 oz.	68c
187C8545	1 1/2 in.	1 lb 4 oz.	78c

Wagon Gear Brakes

With box attachment as illustrated. Shp. wt., 75 lbs.

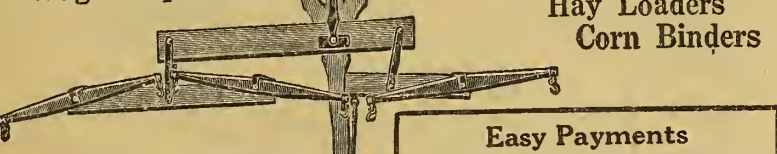
287C3328—Narrow track Brake... \$9.95
 287C3329—Wide track Brake... 10.50

Gear Brake parts only, without box attachment. Shp. wt., 65 lbs.

287C3330—Gear parts only, without narrow track... \$8.95
 287C3331—Gear parts only, wide track... \$9.75

Shipped from Saint Paul, Minn.

Three-Horse Wagon Equalizer



Each horse pulls the same load. Is reversible and of special value to every user of a farm wagon, manure spreader, hay loader, corn binder or other vehicle or implement with tongue. Also a two horse plow set when one singletree is removed. Made entirely of straight grained oak. Painted. Main venter, length, 44 in.; short venter, length, 26 in.; singletrees, length, 34 in. Weight, 55 pounds.
 187C8275—Price... \$8.85

Double Perch Fifth Wheel



187C8160—Malleable Rear King Bolt, 10 in. For 1 1/2 in. fantail axle. 5 lbs. 10 oz. Each... \$3.15
 187C8161—12-in. Surrey size. For 1 1/2-in. fantail axle. 9 1/2 lbs. Ea. 4.35

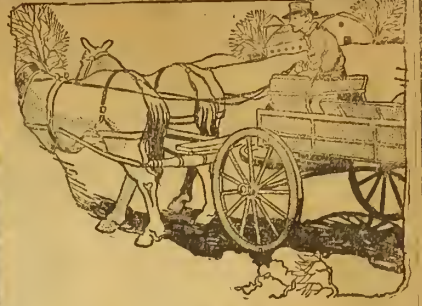
Bradley Shaft Couplings

187C7820—Buggy size, No. 8. Weight, 1 1/2 lbs. Price... 80c
 187C7821—Surrey size, No. 9. Weight, 2 lbs. 2 oz. Per pair... 86c
 187C7822—Leather Bushings for Bradley Couplers, buggy size. Weight, 4 oz. Price, per dozen pairs... 82c
 187C7825—Sbalt Ends, buggy size, weight, 1 lb. 1 oz. Per pair... 23c
 187C7826—Shaft Ends, surrey size, weight, 1 1/2 lbs. Per pair... 27c
 187C7827—Pole Ends, buggy size, weight, 1 1/2 lbs. Per pair... 28c
 187C7828—Pole Ends, surrey size, weight, 1 1/2 lbs. Per pair... 29c

Climax Hand Cart Wheels

Strong, durable and inexpensive wheels for those who desire to construct their own carts. Have cast iron hubs with wrought steel spokes and tires. Made in two sizes, each size having twelve 3/8-in. round staggered spokes and hub 4 3/8-in. long, bored to fit 1/2-in. round axle.
 187C6164—Wheels, 30 in. Shipping weight, per pair, 30 lbs. \$3.65
 Price, per pair... 3.85
 187C6166—Wheels, 36 in. Shipping weight, per pair, 36 lbs. \$4.25
 Price, per pair... 4.45

Shipped promptly from stock at Chicago.



Ironed Hickory Plow and Wagon Singletrees

Steel center clips, with rings and steel back pull ferrules and hooks. Varnished.

Article Number	Diam. in.	Lgth. in.	Wght. lbs.	Price
187C8845	2 1/4	28	3 1/4	\$0.96
187C8846	2 1/4	30	4	.98
187C8847	2 3/8	36	6	1.36

Steel Singletrees

187C8095—Length, 28 in. Wt., 4 lbs. \$1.54
 Price... 1.75
 187C8096—Length, 36 in. Weight 8 lbs. Price... 2.30

Ironed Hickory Doubletrees

Malleable clevises. Wrought center plate. Varnished.
 187C8860—2x4x48 in. Wt. 11 lbs. Price... \$1.82
 187C8862—Size, 1 1/2x3 1/2x42 in. Wt., 10 lbs. Each... 1.50

Load, Log and Lumber Binder

Takes up slack and binds load. Fits any chain up to 1/2 in. Weight each, 7 1/2 lbs.
 187C8800—Load fastener. Each... \$2.35
 Per pair... 4.55
 187C8802—Same style as 187C8800 wt. each about 12 1/2 lbs. Jumbo Pattern. Each... \$3.75
 Per pair... 7.25

Our Leader Wagon Set

Hickory Doubletree, 2 1/2x48 in. Lock pin clevises and stay chain rings. Singletrees, 2 1/2x36 in. Steel back pull hooks and ferrules. Neckyoke, 2 1/2x40 in. Varnished. Wt., per set, 34 lbs.
 187C8838—Price, per set... \$4.95

Easy Payments

See page 1030 of this catalog for complete information about how you can buy a high grade White-water farm wagon or truck or Sattley quality manure spreader, on easy monthly payments.

Umbrella Holder

187C8636—Without umbrella. Each (weight, 2 1/2 lbs.)... 78c
 Couplings not included. Weight, per pair, 9 ounces.
 187C8440—Price... 44c per pair

Quick Shifter

187C8070—Buggy size. Wt., 1 1/2 lb. Price, each... 56c
 187C8071—Surrey size. Wt., 2 lbs. Price, each... 72c
 187C8072—Pole size, length, 24 in., opening 1 1/2 in. Wt., 3 lbs. Price, each... \$1.86

Round Vehicle Canopy

Detaches by a single thumb nut. Has ten ribs covered with buff sail drill with bullion fringe. Can be folded.
 187C8638—Price complete, with fixtures to attach... \$9.95
 Each (shipping weight, 16 1/2 lbs.)

Wagon Umbrellas

187C8635—Six ribs, length, 33 in. spread 68 inches. Covered with heavy buff colored drill. Shipping weight 8 1/2 pounds. Price, each, without holder... \$4.45

Sunshade

Fits seats any size from 34 to 54 in. wide. State size of seat. Adjustable. White duck with blue stripes. Weight, 16 lbs.
 187C8695—Price, any size... \$5.95

Superior Trace Springs

Loop on one end of spring takes singletree hook from back on other end. Pull 7,500 lbs. Wt. per pair, 3 lbs. 9 oz.
 187C8710—Price, per set, 4 springs for two horses... \$2.85
 187C8711—2 springs for one horse... \$1.45

Everyday Accessories for Wagons and Buggies



Automatic Trip Jack

10 tons capacity. One stroke of the lever raises or lowers 1 in. Weight raised from 2 in. above the ground to 31 in. Weight can be lowered notch by notch, or dropped instantly. Malleable.

Wood handle, length, 28 in. Wt. 30 lbs.
187C8565—Price, \$9.45



Heavy Wagon and Truck Jack

The adjustable foot which operates on a crane fitted with cogs overhanging the main support makes the Jack adaptable for lifting any height within a radius of 5 inches of the base to within 5 inches of top when main standard is raised to its limit.

The handles are steel, cannot come off and yet can be folded into a small space. Standard is steel with machine cut teeth. Height standard lowered 21 in. Raises 10 in.

187C8595—Jack for 3 ton trucks, weight 31 lbs. \$6.95



Jack For Auto, Buggy and Wagon

Great leverage and immense power.

187C8560—Wt., 9 lbs. Raise 2 tons. Price, \$5.35

187C8561—Wt., 12 1/2 lbs. Raise 4 tons. Price, \$6.75

187C8562—Wt., 28 lbs. Raise 8 tons. Price, \$10.75



Malleable Wagon Jack

Malleable iron and wood handle and base.

187C8550 For vehicles weighing 1 ton. Wt. 5 1/2 lbs. Price, \$1.90

187C8551—For vehicles weighing two tons. Weight 9 lbs. Price, \$2.95



Chicago Wagon Jack

Hardwood with steel br and provided with a wheel front.

187C8555—For Wagon Weight, 13 1/2 lbs. Price, \$2.



The O. K. Clevis
187C8575—Attach to any implement where hook clevis is needed without a link. Opening in clevis, 1 1/2 in. Malleable. Wt., 1 lb., 12 oz. Each, 48c



Swivel Clevis
187C8630—Attach to implement where hook or clevis is needed, without a link. Malleable. Wt., 2 lbs., 6 oz. Each, 64c



Swivel End Clevis
187C8615—Attach any plow clevis; malleable. Wt., 1 lb. Price, each, 27c



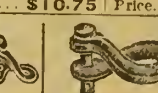
End Clevis
187C8600—Malleable. Inside measure, 3/4 in. Wt., 6 ounces. Each, 10c



Evener Clevis
187C8620—Evener Clevis, with swivel, 2 1/2 in. inside, length, 9 in. Malleable. Wt., 3 3/4 lbs. Each, 92c



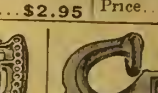
Plow Clevis
187C8625—Malleable for 3-in. wood beam; 4 3/4 in. center to center of bolt holes. Wt., 5 lbs., 6 oz. Each, \$1.40



Twisted End Clevis
Weight, 10 oz. 187C8605—1/4 in. wide. Price, 16c



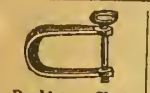
Steel Beam Clevis
187C8580—3/4 in. beam, 3 3/4 in. center to center beam holes. 11 holes in cross clevis. Wt., 5 lbs. Each, \$1.40



Harrow Hook
187C8660—Malleable. Opening in hook 3/4 in., entire length 3 3/4 in., square hole 3/8 in. Wt., 8 oz. Price, 20c



K.K.K. Clevis
187C8582—Justable to plow. Malleable. Wt., 1 1/4 lbs. Each, 60c



Doubletree Clevis
187C8610—Opening, 2 in. Length, 4 1/2 in. Wt., 1 1/4 lbs. Each, 31c



Harrow Clevis
Malleable Beam 3 1/2 in. length center pin to end of beam, 2 1/2 in. length, 7 in. Bottom hook. Wt., 1 lb. 187C8655—Price, 36c



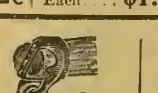
Singletree Hook and Ferrules
Steel hooks, malleable ferrules. Diameters at small ends, Wts., 8, 9 and 12 oz. 187C7930—1 1/4 in. Each, 23c 187C7931—1 1/2 in. Each, 25c 187C7932—1 3/4 in. Each, 28c



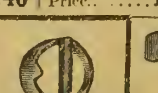
Wood Beam Plow Clevis
Malleable iron. Drill two holes through the beam. Wt., 3 lbs. 6 oz. 187C6670—For 2 1/2 in. in. beam. Ea. 93c 187C8671—For 2 3/4 in. in. beam. Ea. 94c



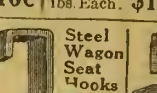
Single-tree Hooks
187C8525—1 1/4 in. Singletree. Pair, 20c 187C8526—For 1 1/2 in. Singletree. Pair, 22c Ship. wt. per pair, 9 oz.



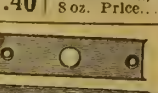
Drop Hook with Clip
187C8525—1 1/4 in. Singletree. Pair, 20c 187C8526—For 1 1/2 in. Singletree. Pair, 22c Ship. wt. per pair, 9 oz.



Malleable Single-tree Hooks
187C8530—For 1 1/4 inch Singletree. Wt. 9 oz. Per pair, 22c

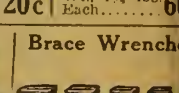


Steel Wagon Seat Hooks
For hanging seats to wagon bodies. Wt., per set, 1 1/2 lbs. 187C7998—Price, per set of 4 hooks, 38c

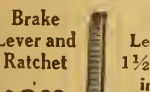


Flanged Bolster Plates
Steel 7/8 in. end holes, 8 in. from center to center of holes.

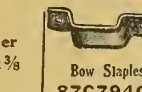
No.	With	Wt.	Per Set
187C7970	2 3/4	5 1/4	\$1.40
187C7971	3	5 1/2	1.52
187C7972	3 1/4	6 1/4	1.62
187C7973	3 3/4	6 3/4	1.72



Brace Wrenches
187C8585—5 to a set. Sizes, 3/8, 1/2, 5/8, 3/4, 7/8, 1 in., 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2 in. Price, per set, 60c



Brake Lever and Ratchet
Steel
Lever 1 1/2 x 3/8 in. Length, 34 in. Price, \$3.22

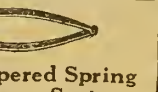


Bow Staples
187C7940—Width, 1 1/2 in. Wt., doz., 1 lb., 28c 187C7941—Width, 2 in. Wt., doz., 1 lb., 2 oz. 32c

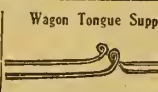


Oiled Tempered Spring For Wagon Seat
Holes drilled in both top and bottom leaves; springs are painted.

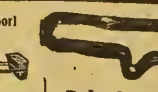
Width	Wt. per pair	Price
1 1/2 in.	12 lbs.	\$2.85
2 leaf	12 lbs.	2.85
2 1/2 in.	12 lbs.	2.85
3 in.	12 lbs.	2.85



Wagon Tongue Support
Wt. 11 1/2 and 15 lbs. 187C8700—Price, each, \$3.90



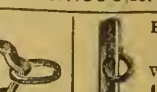
Pole Cap with Holdback
187C7945—Steel in one piece. Weight, 1 1/2 lbs. Each, 35c



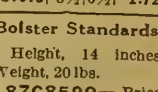
Steel Wagon Clevis
187C7905—With clip and stay chain ring; width 1 1/2 in. inside, wt., 1 1/2 lbs. Price, each, 36c



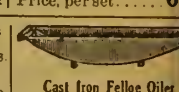
Bolster Standards
187C8280—For 3 1/2 in. bolster, height, 8 1/2 in. Weight, set, 18 lbs. Opening for 2 1/2 in. stake. Price, set of 4 for 2 bolsters, \$6.90



Cast Iron Felloe Oiler
For oiling rims wheels. Helps to keep tires tight. 187C8260—F 1/2 wheels up to 4 in. Wt., about 13 lbs. Price, per set, \$2.



Hound or Reach Plates
With Flange. Wts. 6 1/2 and 8 lbs. 187C8650—4 in. Each, 31c 187C8651—4 1/2 in. Each, \$1.04



Steel Stake Pockets
187C8645—1 1/2 x 2 3/4 in. Wt., 1 1/4 lbs. Each, 53c 187C8646—Set 8. Price, \$2.55



Doubletree Evener Plate
Steel. Width, 1 1/2 in., length, 8 in. Fits any doubletree. Wt., 1 pound. 187C7900—Price, each, 36c



Singletree Center Clip and Hook
187C8280—For 3 1/2 in. bolster, height, 8 1/2 in. Weight, set, 18 lbs. Opening for 2 1/2 in. stake. Price, set of 4 for 2 bolsters, \$6.90



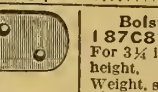
Neckyoke Ring
Malleable. Wt., 7 oz. 187C7910—Inside small end and ferrule, 1 1/2 in. Ring, 17c 3 x 3/8 in. Each, 19c 187C7911—Ferrule, 1 1/2 in. Ring, 3 x 3/8 in. Wt., 8 oz. Each, 19c 187C7912—Ferrule 1 1/2 in. Ring, 3 x 3/8 in. Wt., 9 oz. Each, 20c



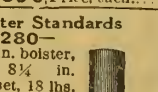
Welded Center Clips
For 2 to 3-in. Singletree. 187C7915—Size steel in round part, 1/2 in. Wt., about 12 oz. Each, 14c 187C7916—Size steel in round part, 3/8 in. Each, 20c



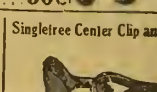
Center Clips
For 2 to 3 in. singletrees. Steel ring for whiffletree. Wts., 11, 13 and 17 oz. 187C7920—Iron in link, 1/2 in. Each, 23c 187C7921—1 1/8 in. Each, 26c 187C7922—3/8 in. Each, 29c



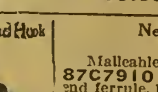
Patent Repair Links
Average Wt., about 6 oz. 187C8196—1/4 in. Each, 16c 187C8197—3/8 in. Each, 20c 187C8198—1/2 in. Each, 24c



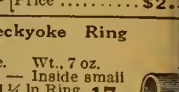
Side Open Lap Links
Wt. about 5 oz. 187C8040—1/4 in. inside, 2 1/2 in. Each, 19c 187C8041—3/8 in. inside, 3 in. Wt., 11 oz. per pair, 32c



Anti-Spreader Chains
Anti-Spreader Chains, 3/8 in. Steel links, end bolts and nuts to attach. 187C8050—Lgth., 38 in. Wt., 20 oz., 45c 187C8051—Lgth., 42 in. Wt., 24 oz., 55c



Fifth or Rolling Chains
Fifth or Rolling Chain, 5/8 in. Link. Steel. Length, 15 feet. Ship. wt., 17 1/2 lbs. 187C8055—Price, each, \$4.25



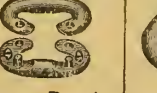
Lock Chain
Lock Chain. Length, 42 in. Ship. wt., 4 1/2 lbs. 187C8056—Price, each, \$1.08



Flath or Rolling Chains
Fifth or Rolling Chain, 5/8 in. Link. Steel. Length, 15 feet. Ship. wt., 17 1/2 lbs. 187C8055—Price, each, \$4.25



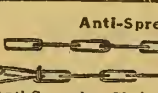
Wagon Stretcher Chain
187C8058—Stay Chains, 5/8 in. Steel. Length, 26 in. Wt., 4 1/4 lbs. per pair. Price, 97c



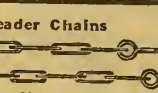
Chain Repair Lay Links
Malleable. For 5/8 in. cable. Wt., 3 oz. Each, 14c



Whiffletree Staples
187C8190—Steel. Length, 4 1/2 in. Each, 29c 187C8191—Steel. Length, 6 1/2 in. Wt., 18 oz. Each, 51c



Wagon Rub Iron
187C8635—M 1 in. length, 1 1/4 in. width, 4 in. Wt., each, 1 lb. Pair, 50c 187C8636—Ea. 27c



Wagon Tongue Bolts
Length, 24 in. Diameter, 3/4 in. Wt., 2 lbs. 4 oz. 187C8078—Each, 43c

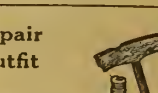


Wagon Box Strap Bolts
Steel Wagon Box Strap Bolts. A set of 8 bolts and nuts.

Article Number	Lgth. Inches	Wt. Lbs.	Diam. of Scr. In.	Price per Set
187C7985	10	4	3/8	\$1.30
187C7986	12	4 1/2	3/8	1.44
187C7987	14	5	3/8	1.58
187C7988	16	7 1/4	3/8	1.86
187C7989	18	9 1/4	3/8	2.16



Hammer Straps
187C7950—Light. Wt., 8 oz. Each, 24c 187C7951—Heavy. Wt., 15 oz. Each, 28c



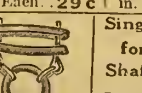
End Gate Lever
Plate, 2 1/2 in., 5/8 in. handle, length, 4 1/2 in., 1 1/4 in. shank, 2 1/2 in. inside handle. Wt., 7 oz. 187C8570—Set, 22c



Box Rod Handle Nut
Malleable. Wt., 4 ounces. 187C8199—For 3/4 in. rod. Each, 10c



Steel Wagon King Bolts
Wt., 2 1/2, 3 1/2 and 4 1/2 lbs. 187C7960—3/4 in. Each, 39c 187C7961—1 in. Each, 51c 187C7962—1 1/4 in. Each, 67c

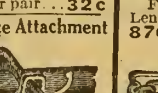


HAY Hog Rack
Steel length, 12 in. Wt., per pair, 6 lbs. 187C8765—Pair, \$1.30



Wagon Wrenches
Steel. Wt., 1 1/2 lbs.

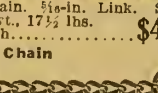
Art. No.	Size	Each
187C7965	2 1/4	32c
187C7966	2 1/2	33c
187C7967	2 3/4	34c
187C7968	2 3/8	35c



Reach Pin
187C7955—Steel. Long hole in end. Lgth., 3 3/8 in., diam., 3/4 in. Wt., 10 oz. Price, per pair, 23c



Seat Lock for Wagons
Seat can be tipped forward. Screws not included. Wt., 9 oz. 187C8194—Price, per pair, 23c

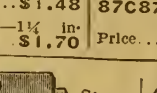


Steel Wagon King Bolts
Wt., 2 1/2, 3 1/2 and 4 1/2 lbs. 187C7960—3/4 in. Each, 39c 187C7961—1 in. Each, 51c 187C7962—1 1/4 in. Each, 67c



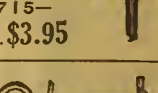
Side Braces
Steel. 187C7990, Diam., 3/8 in. Others are 1/2 in. Wt., 8, 12, 13, 14 oz.

Art. No.	Length	Each
187C7990	10 1/2 in.	17c
187C7991	12 1/2 in.	20c
187C7992	14 1/2 in.	22c
187C7993	15 1/2 in.	24c



Wagon Wrenches
Steel. Wt., 1 1/2 lbs.

Art. No.	Size	Each
187C7965	2 1/4	32c
187C7966	2 1/2	33c
187C7967	2 3/4	34c
187C7968	2 3/8	35c



Box Fastener
187C8187—Wt., set, 1 lb. 2 oz. Price, set, 46c



Straw Rack Irons
Wt. each 1 1/2 lbs. 187C8380—Each, \$0.28 187C8382—8 for, 1.95



Wagon Box Edge Iron
Punched and counter-sunk; width, 3/4 in.; length, 12 feet. Weight, 3 1/2 lbs. strip. 187C7995—Price, each, \$1.15



Steel Wagon Box Strap Bolts
Steel Wagon Box Strap Bolts. A set of 8 bolts and nuts.

Article Number	Lgth. Inches	Wt. Lbs.	Diam. of Scr. In.	Price per Set
187C7985	10	4	3/8	\$1.30
187C7986	12	4 1/2	3/8	1.44
187C7987	14	5	3/8	1.58
187C7988	16	7 1/4	3/8	1.86
187C7989	18	9 1/4	3/8	2.16



Hammer Straps
187C7950—Light. Wt., 8 oz. Each, 24c 187C7951—Heavy. Wt., 15 oz. Each, 28c



End Gate Lever
Plate, 2 1/2 in., 5/8 in. handle, length, 4 1/2 in., 1 1/4 in. shank, 2 1/2 in. inside handle. W

CHASE MOTOR AND VEHICLE CLOTHS

Waterproof Cloth

CHASE Leatherwove

CHASE WEXFORD-MOTOR CLOTHS

Black Face Rubber Drill

leather grain. Water-proof.

Wt. Back	Width	Per yd.
20 oz. White.	50 in.	\$2.10
20 oz. White.	50 in.	\$2.20
24 oz. Black.	50 in.	2.15
28 oz. Black.	50 in.	2.25

Rubber treated material with great weather retaining properties and suitable for highest class work. The drab drill back is combined with outer fabric by a water-proof coating of rubber, other surface is then finished in long grain leather effect. Width, 54 in. Ship. wt., per lineal yd., 36 oz.

7C7830—Color, Drab back. Per yd. \$2.80
7C7831—Color, Black back. Per yd. 2.85

Artificial Leather in Colors

Guaranteed not to peel or crack

87C7835—Good quality. Black face Upholstering substitute for leather. 50 in. wide. Weight, per yard 12 oz. Price, per yard. \$1.65

87C7836—Green face. Price, per yd. 2.35
87C7837—Maroon face. Price, per yd. 2.50
87C7838—Tan face. Price, per yd. 2.35

Our highest grade. For all sorts of upholstering and tops. Waterproof, will not crack or peel. Width, 50 in. Wt., per yd., about 1 1/4 lbs.

87C7839—Blackface. Dull finish. Per yard. \$3.65

Leatherwove—Spanish Effect

Excellent for covering furniture, sofa pillows, etc.

Reproduction of old Spanish patterns. Width, 50 in. Weight, per yard, about 2 lbs.

87C7840—Green color. Per yard. \$2.50
87C7841—Dark red color. Per yard. 2.70
87C7842—Brown color. Per yard. 2.50
87C7777—Gimp to match. Give color, 25-yard rolls. Weight, about 4 oz. Per roll. 64c
87C7775—Buttons to match. Give color. 100 in. Back. Weight, about 6 oz. Per pkg. 18c
87C7776—Nails to match. Give color. 100 in. package. Weight, about 6 oz. per pkg. 26c

Luster Wool Mohair Cloth, For Buggy and Auto Tops and Curtains

Waterproof material guaranteed not to peel or crack

For Buggy and Auto Tops and Curtains. Black and white face. Black or drab back.

87C7850—Black back. Width, 54 in. Weight, per yard, about 1 1/2 lbs. \$3.75
87C7851—Black back. Width, 36 in. For curtains. Weight, per yard, about 1 lb. 2 oz. \$2.35
87C7852—Drab back. Width, 36 in. Per yard. 2.35

Cushion Cloth and Top Lining

Width, 54 in. Wt., per yard, about 8 oz.

87C7765—Cotton mixed. Dark green. Price, per yard. \$2.40

Heavy Corduroy

For upholstering cushions and backs. Width, 30 in. Wt., per yd., about 16 oz.

87C7767—\$1.85
87C7768—Green. Per yd. \$2.05

See-Clear Keeps Windshields Clear

A preparation applied with finger or cloth. Keeps windshields and other glass clear from steam mist, rain, frost and snow. For windshields, windows, dental mirrors, bathroom mirrors, eyeglasses, show windows, etc. Ship. wt., 2 oz.

87C8780—See-Clear. \$27c

See-Clear Transparent Sheeting

Transparent Sheet or Flexible Glass

For lights in curtains, storm fronts, etc. Wt., 6 to 8 oz. Ship. wt., 2 to 3 1/2 lbs.

87C8250—10x18 in. Per sheet. \$0.78
87C8251—20x36 in. Per sheet. 1.90
87C8252—20x50 in. Per sheet. 2.50

Celluloid Mender

Repairs Celluloid. Will attach leather curtains without stitching. One bottle will mend 100 lineal feet. Weight, 4 ounces.

87C9110—Price, each. 24c

Cushion Springs

87C8080—No. 10 steel expanded wire. Ht., 3 in. Wt., 3 lbs. Per doz. 78c

87C8081—Black. No. 14 wire. Ht., 4 1/2 in. Per doz. 28c

87C8103—1 1/4 in. 35c
87C8104—1 1/2 in. 38c

Leather Axle Washers in Coils

Five coils, about 100 washers in box. Single, about 20 washers. Weight, per box, 7 ounces.

Article Number	Size In.	Prices Box
87C8100	3/4	28c
87C8101	1	30c
87C8102	1 1/4	35c
87C8104	1 1/2	38c

Black Oiled Cotton Duck

87C8680—Width, 50 in. Wt., per yd., about 1 1/2 lbs. Price, per yard. \$2.25

Rubber Mats

For Auto and Buggy floors, aisles of churches, halls, etc.

87C9010—Width, 21 in. Wt., per yd., 3 lbs. Price, per yard. \$1.60

Stay Webbing

Width, 3 in. for use in making tops, also in upholstering furniture, etc. Wt., per yd., 2 oz.

87C7771—Full pieces of 70 yards. Per piece. \$4.95

Vehicle Light Outfit

Four-volt Tungsten bulb, 2 1/2-inch lens. Will burn one hour a night for 40 nights or more. Ship. wt., 9 1/2 lbs.

87C8325—Complete outfit, with battery case, 3 batteries and connections, one lamp for left side. Price. \$5.65

87C8326—Price, per pair. 7.75
87C8327—Bulbs, each, extra. .40
87C8328—Lamps, each, extra. 3.25
87C8329—Batteries, each, extra. .66
87C8330—Batteries, set three left side. \$3.85
87C8331—Dash Lamp bracket with clamp. Each. 25c
87C8332—Panel Lamp bracket, with screws. Each. 25c

Top Dressing

To render the leather waterproof. No. 1 will dress one top. No. 3 will dress 2 tops.

87C9090—No. 1, sample size. Wt., 6 oz. Price. 32c
87C9092—No. 3. 1-pt. can. Wt., 1 lb. Price, each. 42c

Monogrammed Wardrobe

87C9092—No. 3. 1-pt. can. Wt., 1 lb. Price, each. 42c

Brown Canvas Top

To fit any size seats from 34 to 54 in. wide. A complete top with back curtain, and side curtains. Light in back curtain. Strong wood bows covered with heavy duck, with fixtures for attaching to seats. Back and side curtains attached and made to roll up and fasten. When ordering, give width of seat from outside to outside of seat ends on top. Average shipping weight, 20 lbs.

187C1190—Price. \$11.15

Combination Welt and Gimp

Cord along one edge. Width, 3/4 in. Length, 25 yds. to piece. Wt., 3/4 oz. per yard.

87C7815—Bright black rubber Drill. Per piece. \$1.50
87C7816—Black artificial Leather. Per piece. \$1.65

Trimmed Moss

87C8790—Substitute for hair. Price, per 5-lb. pkg. \$1.85

Buttong Pattern Cushions

2.65 up

Enameled Drill
87C7865—Seat cushion with out fall. \$2.65
87C7866—Seat cushion with fall. \$2.95
87C7867—Back cushion. \$2.65

87C7868—Seat cushion with fall. 4.35
87C7869—Back cushion. Shipping weight, 5 to 8 pounds. \$4.35
12 days' delay.
Cushions up to and including 15x32 in. larger sizes as follows:
Extra, per inch. \$0.20
Seat back, longer than 35 inches. Per inch. .20
Extra for springs in seat cushion. 2.00
Extra for springs in back. 2.00
Shipping weight, 5 to 8 lbs. Biscuit pattern cushions can be furnished at extra. \$2.50

Folding Chair

Folds into small package. Wt., 7 1/2 lbs. Covered with Morocco leather.

87C8435—For auto, vehicle and Motor Boats. Size seat, 10 1/2 x 11 in. Height of seat, 16 in. Price. \$2.75

Folding Seat

Steel frame with carpet on top and bound with cloth. Size of seat, 9 1/2 x 8 1/2 in. Weight, 2 1/2 lbs.

87C8430—Brussels carpet. Each. 82c

Tractor Seat Cushion

Will enable you to ride the seat of your tractor, plow or other machinery in comfort, and with less fatigue. Cushion made of heavy brown drilling. Machine tufted 2 in. thick, strongly sewed. Has straps to fasten to seat. Weight, 2 lbs.

87C7845—Seat Cushion. Price. \$1.45

Whip Sockets

20c

With rubber ring. Wt., 4 oz. 20c
87C8770—Each. 20c

Carriage Covers

Will keep the paint new and bright and the lining clean. Unbleached muslin with cords and screw eyes. Wt., 7 lbs.

87C7199—For 1 or 2-seated vehicle. \$3.15

Curtain Fasteners

1 Doz. in package

87C7742—Metal fasteners with inside ring, leather strap. Weight, 3 ounces. Price, per doz. 20c

Oval Curtain Light

Opening 2 3/4 in. x 4 1/4 in. Wt., 3 oz.

87C7730—Each. 18c
Japanned frame. 18c

Japanese Carriage Knobs

87C7715—To drive. For single curtains. Wt., per doz., 3 oz. Per doz. 12c
87C7716—To screw. For double or single curtains. Wt., per doz., 3 1/2 oz. Per doz. 25c
87C7717—To rivet. For double or single curtains. Wt., per doz., 3 1/4 oz. Per doz. 12c

Metal Curtain Fasteners

With turning heads to attach to Curtain

87C7720—Prongs to clinch. Per doz. 95c
87C7721—For metal. To rivet. Per doz. 95c
87C7722—For wood. Per doz. 95c

Colored Head Nails

Fastens gimps edge of seats. Length, 1/2 in., 100 in. pkg. Wt., 4 oz.

87C7790—31c
87C7791—Black. 38c
87C7792—Green. 38c
87C7793—Maroon. 38c
87C7793—Tan. 38c

Cloth Covered Tacks

87C7797—Size, 10 oz. Dark green or blue. Give color. Wt., 8 oz. Per gross. 43c

Lining Nails

Japanned, Capped heads, 75 in. package. Wt. 1 oz.

87C7794—6 ounces. 30c
87C7795—16 ounces. 36c

Curtain Straps

87C7745—Metal Loop with leather strap. Wt., 5 oz. Per dozen prs. \$1.44
87C7746—Per pair. 14c

Wagon Curtain Patches

87C7735—Attached to curtains by clamping ring with teeth clinching over inside ring. Diam., 1 1/4 in. Wt. per dozen, 4 oz. Per doz. 42c

Curtain Buckles

87C7788—Metal japanned. Wt., 6 oz. Price, pair. 12c

Clinch Buttons

Japanned black. 1 in. shank. 22 line. Per doz. 20c
87C7799—Covered cloth to line above. Wt. 5 oz. Doz. 22c

Read These Instructions Before You Order Buggy Tops or Cushions

Three or four-bow tops at same price, but we always send a four-bow top unless it is stated three-bow. See diagram and instructions for measurements below. We must know distance from A to B if seat is ironed. If not ironed, give distance from outside to outside on top of seat, sides at front. Shipping wt., 50 lbs.

87C7875—A leather finished enamel rubber side and back curtains, dark back enamel rubber drill, wrought iron joints, wrought iron adjustable shifting rail. Crated, with shifting rail. \$25.75
Without shifting rail. 25.25
Tops over 42 in., that is, for seats that measure over 42 in. from center to center of holes in front of seat irons. Automobile style. Extra \$5.00
Extension tops for surreys and spring wagons. Write for special measurement blank.
15 Days' Delay.

How to Order Top for Auto Buggy Seat.

If seat is ironed, give distance from "A to B," and "N to O," and "E to L," and "C to D," and from "E to N," and "M to L," from "E to M," and "N to K," from "P to R."

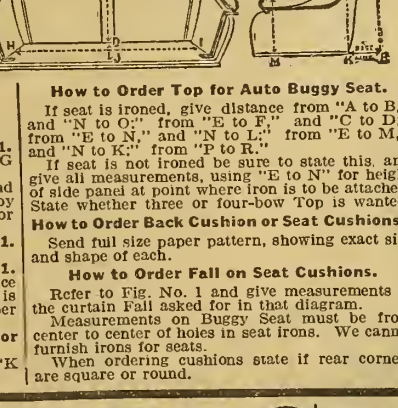
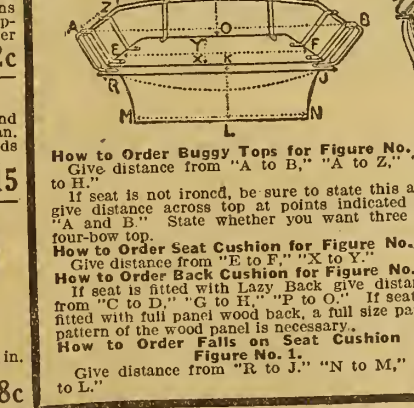
If seat is not ironed be sure to state this, and give all measurements, using "E to N" for height of side panel at point where iron is to be attached. State whether three or four-bow Top is wanted.

How to Order Back Cushion or Seat Cushions.

Send full size paper pattern, showing exact size and shape of each.

How to Order Fall on Seat Cushions.

Refer to Fig. No. 1 and give measurements of the curtain Fall asked for in that diagram. Measurements on Buggy Seat must be from center to center of holes in seat irons. We cannot furnish irons for seats. When ordering cushions state if rear corners are square or round.



Japanese Carriage Knobs

87C7715—To drive. For single curtains. Wt., per doz., 3 oz. Per doz. 12c
87C7716—To screw. For double or single curtains. Wt., per doz., 3 1/2 oz. Per doz. 25c
87C7717—To rivet. For double or single curtains. Wt., per doz., 3 1/4 oz. Per doz. 12c

Metal Curtain Fasteners

With turning heads to attach to Curtain

87C7720—Prongs to clinch. Per doz. 95c
87C7721—For metal. To rivet. Per doz. 95c
87C7722—For wood. Per doz. 95c

Colored Head Nails

Fastens gimps edge of seats. Length, 1/2 in., 100 in. pkg. Wt., 4 oz.

87C7790—31c
87C7791—Black. 38c
87C7792—Green. 38c
87C7793—Maroon. 38c
87C7793—Tan. 38c

Cloth Covered Tacks

87C7797—Size, 10 oz. Dark green or blue. Give color. Wt., 8 oz. Per gross. 43c

Lining Nails

Japanned, Capped heads, 75 in. package. Wt. 1 oz.

87C7794—6 ounces. 30c
87C7795—16 ounces. 36c

Curtain Straps

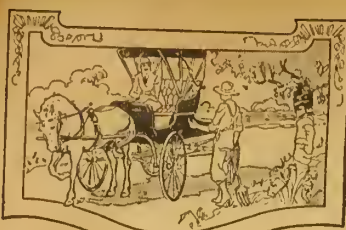
87C7745—Metal Loop with leather strap. Wt., 5 oz. Per dozen prs. \$1.44
87C7746—Per pair. 14c

Wagon Curtain Patches

87C7735—Attached to curtains by clamping ring with teeth clinching over inside ring. Diam., 1 1/4 in. Wt. per dozen, 4 oz. Per doz. 42c

Curtain Buckles

87C7788—Metal japanned. Wt., 6 oz. Price, pair. 12c



Square Deal Buggy

Our vehicles
all guaranteed for 1
Absolute satisfaction m
be given. We save you mon

\$110⁵⁰

Our Leader Your Choice of 3 Styles of Seats

This is the same clean cut trim looking buggy that has pleased thousands of our customers during the many seasons that we have sold Square Deal Buggies. Made of the best materials throughout, beautifully upholstered, painted and varnished to a perfect finish. Smooth, easy running with all latest practical improvements. The Square Deal Buggy is one that you will be proud to ride in.

Note the superior construction given in the following specifications.
Gear— $\frac{1}{2}$ inch arch axles, cap cemented and clipped to axle with extra ellips, selected hickory reaches ironed full length.
Body—Plano body style. Width, 24 inches. Length, 56 inches. Hardwood sills and frame.

Wheels—Sarven patent. Selected hickory. $\frac{3}{4}$ inch screwed rims. Steel titts bolted between spokes. Height, front, 39 inches; rear, 43 inches.

Upholstering—Leatherwove. Full spring hack and cushion. Padded seat ends.

Top—Four bow, auto skeleton style. Covered with fine auto-top material.

Painting—Body and seat, black; gear, Brewster green; highest finish neatly striped shafts—Selected hickory. Triple braced with leather straps and points. Brass couplings.

Sundries—Large fancy dash. Large storm apron. Side curtains and washers. 1 rubber mat.

Track—4 feet 8 inches, or wide track, 5 ft. 2 in. State which. Ship. wt., about 550 lbs. Crated under 30 inches.

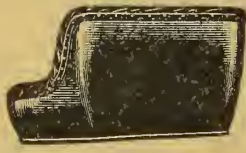
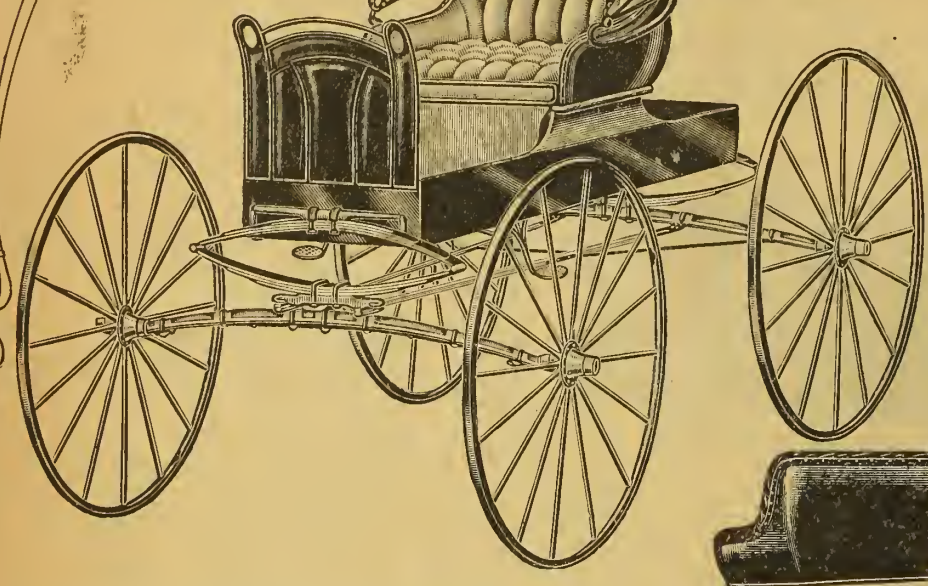
Changes without extra charge. Drop axle. Black or Auto red gear. 37 inch front 41 inch rear, or 42 inch front 46 inch rear wheels. 18 or 21 in width, 56 inch length body. 3 bow top instead of 4 bow regular top. For any of these extras allow 21 days delay.

Seat—Three styles of seat 32 inches wide. Order by catalog number under illustration below your choice of either style.

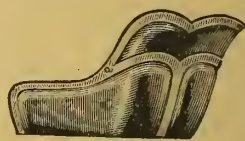
Price..... \$110.50

Buggy ordered on regular specifications, allow 15 days' delay.

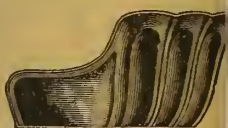
Shipped from factory in Northern Indiana.



Style Number
287C7025 $\frac{1}{2}$



Style Number
287C7025 $\frac{1}{4}$



Style Number
287C7025

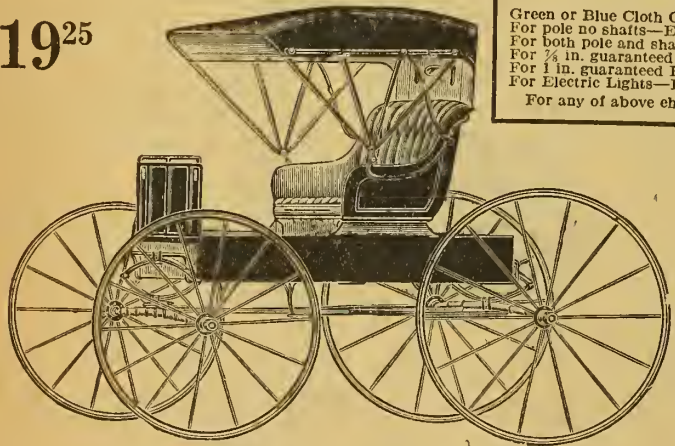
Be sure to specify which style seat you want.

Changes we can make on all buggies For which an extra charge is made

Green or Blue Cloth Cushion—Extra	\$2.50
For pole no shafts—Extra	5.95
For both pole and shafts—Extra	12.35
For $\frac{1}{4}$ in. guaranteed rubber tires—Extra	14.00
For 1 in. guaranteed rubber tires—Extra	14.25
For Electric Lights—Extra Per Pair	6.50

For any of above changes allow 21 days' delay.

\$119²⁵

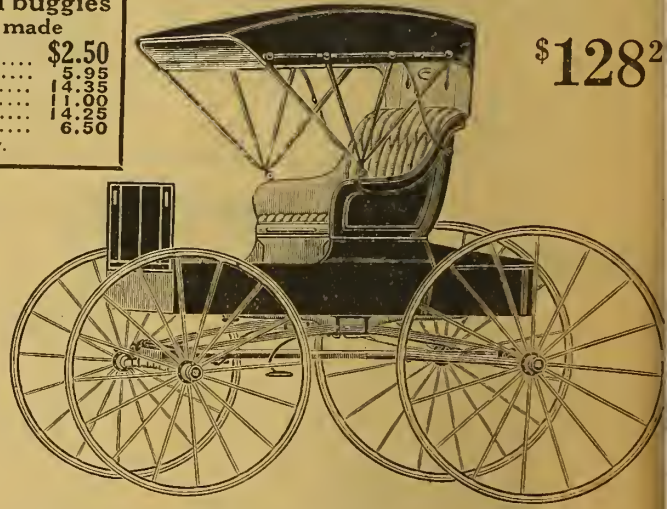


Square Deal Wide Body and Wide Seat Buggy

Gear-Axles— $\frac{1}{2}$ in. Axle Caps, bent hickory, cemented and double clipped to axles with oval faced ellips. Reaches, hickory ironed full length springs 36 inch, oil tempered steel.
Body Loops—Wrought steel. Fifth Wheel 12 in.
Wheels—Sarven patent, 1 in. screwed rims, $\frac{1}{4}$ in. oval edge. Steel Tire bolted between each spoke. Height, 39 in. front and 43 in. rear.
Body—Width 26 in., length 56 in., hardwood frame with braces.
Seat—Auto style, width of cushion 34 $\frac{1}{2}$ in.
Upholstering—Leatherwove, tufted spring cushion and back. Seat ends padded.
Top—Four bow, skeleton auto style covered with fine auto material. Extra heavy roof and hack curtain. Side curtains.
Shafts—Selected hickory, triple braced, extra heavy heel irons and Bradley quick shifters.
Painting—Body and seat, black; gear, wheels and shafts, Brewster green, neatly striped.
Sundries—Dash, padded. Full rubber Mat, Storm Apron, Boot, Steps, Wrench and Washers.
Track—Narrow track, 4 ft. 8 in. or wide track, 5 ft. 2 in. State which. 18 days' delay.
Weight—about 600 lbs. crated.
287C7030—Complete as described above..... \$119.25

Shipped from factory in Indiana.

\$128²⁵



Square Deal Heavy Concord Buggy

Gear-Axles— $\frac{1}{2}$ in., arched. Axle Caps, bent hickory, cemented and double clipped to axles. Three hickory reaches, ironed.
Springs—Concord Springs with equalizers, fifth Wheel, 12 in. full ellipse.
Wheels—Sarven patent, hickory, 1 in. screwed rims $\frac{1}{4}$ in. oval edge. Steel Tire bolted between each spoke. Height 39 in. front and 43 in. rear.
Body—Width, 28 in. length, 58 in. hardwood frame with steel braces.
Seat—Auto style, cushion, 35 in. wide.
Upholstering—Leatherwove, black tufted spring cushion and back. Seat ends padded.
Top—Skeleton auto style covered with high grade auto material, roof, back curtain and side curtains.
Shafts—Hickory, triple braced, heavy heel irons and Bradley quick shifters.
Painting—Body and seat, black; gear, wheels and shafts, Brewster green, neatly striped.
Sundries—Dash padded. Full rubber mat, Storm Apron, Boot, Steps, Wrench and Washers.
Track—4 ft., 8 in., or 5 ft., 2 in. State which. 18 days' delay.
Weight—Crated, about 610 pounds.
287C7035—Complete as described. Price..... \$128.25

Shipped from factory in Indiana.

\$98⁷⁵



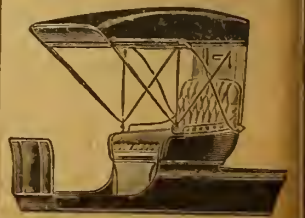
Square Deal Royal Buggy

Gear-Axles— $\frac{1}{2}$ in. arched. Axle Caps hickory, cemented and clipped to axles. Reaches ironed full braces, steel springs. Body loops, steel center bearing pattern. Fifth Wheel, short turn.
Wheels—Sarven pattern hickory, $\frac{1}{4}$ in. screwed rims, oval edge. Steel Tire bolted between each spoke. Height, 39 in. front and 43 in. rear.
Body—Width 24 in. length, 56 in. hardwood sills and corner posts full hardwood floor.
Seat—Wood panels, regular buggy style. Width of cushion 31 in.
Upholstering—Artificial leather, tufted spring cushion and hack.
Top—Four bow skeleton style, covered with heavy rubber. Side curtains, back stays and hack curtain made of drill.
Shafts—Selected hickory, braced; harness leather straps 24 in. points, Anti-Rattlers.
Painting—Body and seat, black; gear, wheels and shafts, Brewster green, neatly striped.
Sundries—Dash, Storm Apron, Carpet, Boot, Wrench, Whip Socket and Washers.
Track—Narrow track 4 ft. 8 in. or wide track 5 ft. 2 in. State which. 15 days' delay.
Weight—Crated, about 550 lbs.
287C7040—Price..... \$98.75

Shipped from factory in Indiana.

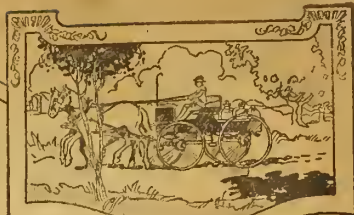
Extras

287C7039—Corning body 3 Bow Top. Curved dash, see illustration below, all other specifications same as 287C7040.
Extra charge..... \$5.50



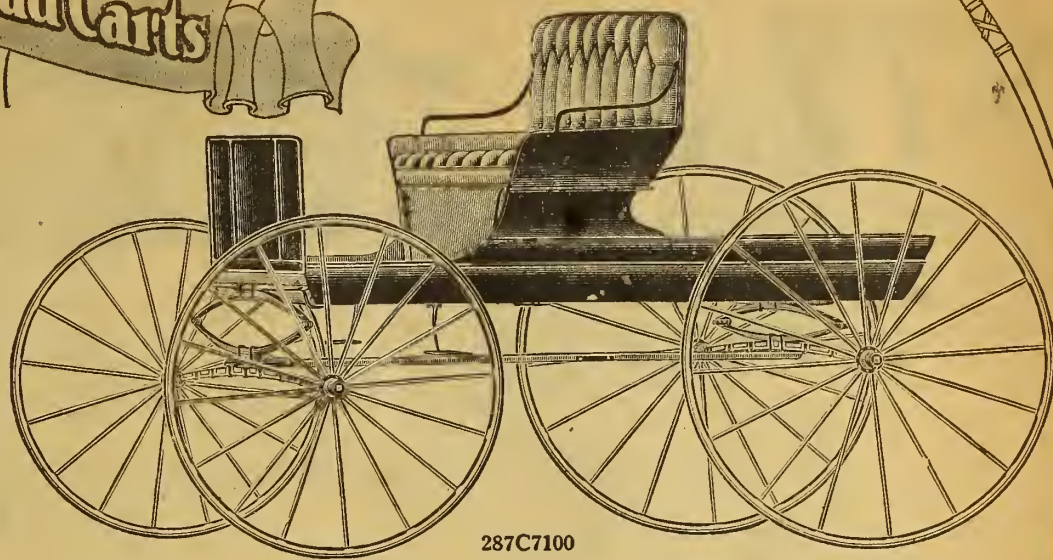
Spring Wagons and Road Carts

\$94.75



Square Deal Runabouts and Spring Wagons

Our Runabouts and Spring Wagons are made in the same high grade way that has gained the quality reputation for our Square Deal buggies. Only the best of materials used in their makeup; built for hard wear as well as easy riding. They make excellent light delivery wagons for hauling provisions, milk, poultry and for other light hauling.



287C7100

Long Body Runabout—Specifications

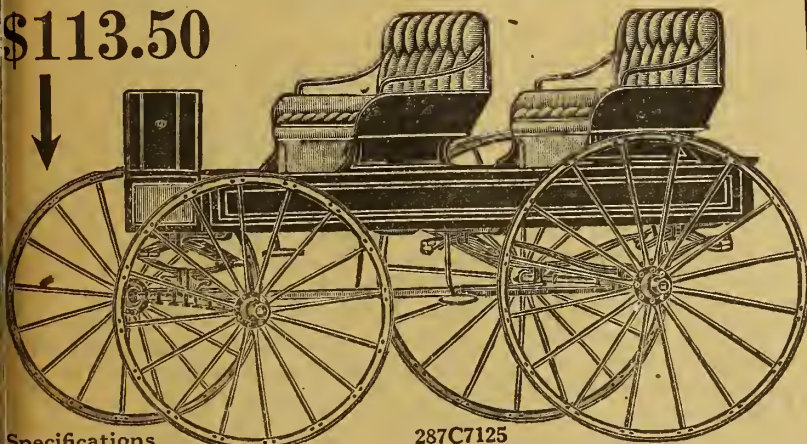
Gear—Axles, 1½ in., slightly arched. Axle caps hickory, cemented and clipped. Reaches ironed full length. Springs, elliptic spring front and double elliptic (Hayes) spring rear, oil tempered steel. Body loops steel, wood spring bars. Fifth wheel, 12 in., short turn with rear king bolt.
Wheels—Sarven patent, selected hickory ¾ in. screwed rims, oval edge, steel tire bolted between each spoke. Height, 39 in. front and 43 in. rear.
Body—Width 26 in. length 70 in. hardwood frame, heavily ironed.
Seat—Wood panels, artificial leather. Width across top of cushion and back 34 in. Seat ends padded.

Shafts—Selected hickory, braced, harness leather straps; anti-rattlers.
Painting—Body and seat, black; gear, wheels and shafts, Brewster green neatly striped.
Sundries—High dash. Wrench, whip socket, washers and oil cloth.
Track—4 ft. 8 in. narrow, or 5 ft. 2 in. wide. State which.
287C7100—Weight, 560 lbs., crated. Complete as described..... **\$94.75**
287C7105—With full rubber top and side curtains..... **123.25**
 Two seats in place of one seat, extra charge..... **12.00**

Shipped from factory in Indiana.

Square Deal Heavy Spring Wagon

\$113.50



287C7125

Specifications
Gear—Axles, 1½ inch double collar front and rear, slightly dropped. Springs (Hayes) front length, 36 inches and platform rear.
Reaches—Selected hickory, heavily ironed.
Fifth Wheel—Short turn with rear king bolt.
Wheels—Sarven patent, selected hickory 1½ riveted rims, extra heavy oval edge. Steel Tire bolted between each spoke. Height, front 39 in.; rear, 43 inches.
Body—Width, 35 inches, length 90 inches. Steel Corner Irons. Drop end gate.
Seats—Removable, width across top of cushions 36 inches, panel backs.
Upholstering—Artificial leather. Tufted spring cushion and back.
Shafts—Extra heavy, strongly ironed and braced. Points and leather straps.
Painting—Body and seats, black, attractively ornamented. Gear, Brewster green, neatly striped.
Sundries—Steps, whip socket, wrench and washers, oil cloth, floor covering.
Track—4 feet 8 inches or 5 feet 2 inches. State which. Weight, crated for shipment, about 785 lbs.

287C7125—Complete described..... **\$113.50**
 Shipped from factory in Indiana.

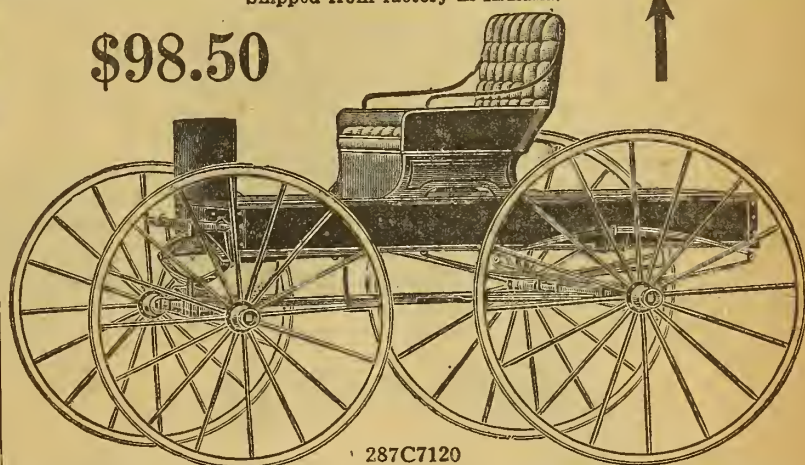
Square Deal Handy Wagon

Specifications

Gear—Axles, 1½ in.; slightly dropped. Springs, front, elliptic, two springs in rear; length, 36 in. Reaches, selected hickory, heavily ironed. Fifth Wheel, 12 in.; short turn with rear king bolt.
Wheels—Sarven patent, selected hickory. 1 in. screwed rims, extra heavy oval edge steel tire bolted between each spoke. Height, 39 and 43 inches.
Body—Wood. Width, 32 in.; length, 78 in., steel corners. Drop and gate.
Seat—Wood. Removable. Width across top of cushion, 34 in.
Upholstering—Leatherwove tufted spring cushion and back. Padded seat ends.
Shafts—Selected hickory, triple braced; harness leather straps; 24 in. points.
Painting—Body and seats, black, attractively striped. Gear, auto red or Brewster green, neatly striped.
Sundries—Steps, Whip Socket, Wrenches and Washers.
Track—4 ft. 8 in. or 5 ft. 2 in. State which.
287C7120—Weight, about 650 lbs crated. Complete as described above..... **\$98.50**

Shipped from factory in Indiana.

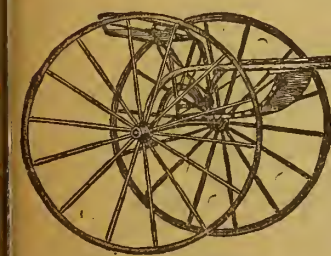
\$98.50



287C7120

Square Deal Skeleton Road Cart

\$29.40

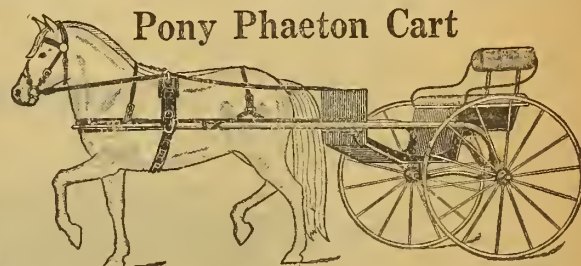


Specifications

Gear—Axles, 1-inch, springs, steel; stirrup ends.
Wheels—Sarven ¾ in.; height, 45 in.; ¼-in. tire.
Seat—Width, 31 in. slat bottom and steel rail.
Shaft—Hickory.
Painting—Wheels and shafts red; other parts black.
Sundries—Slat foot-rack. Step-on axle, Wrench, Washers and Whip-Socket.
Track—4 ft. 8 in. or 5 ft. 2 in. State which.
 Shipping weight, packed, about 125 lbs.
287C7060—Cart complete, as described above..... **\$29.40**
 For 1½ in. axle and wheels. Extra..... **6.00**
 For 1¼ in. axle and wheels. Extra..... **7.50**
 Shipped from factory in Indiana.

Square Deal Pony Phaeton Cart

\$37.90



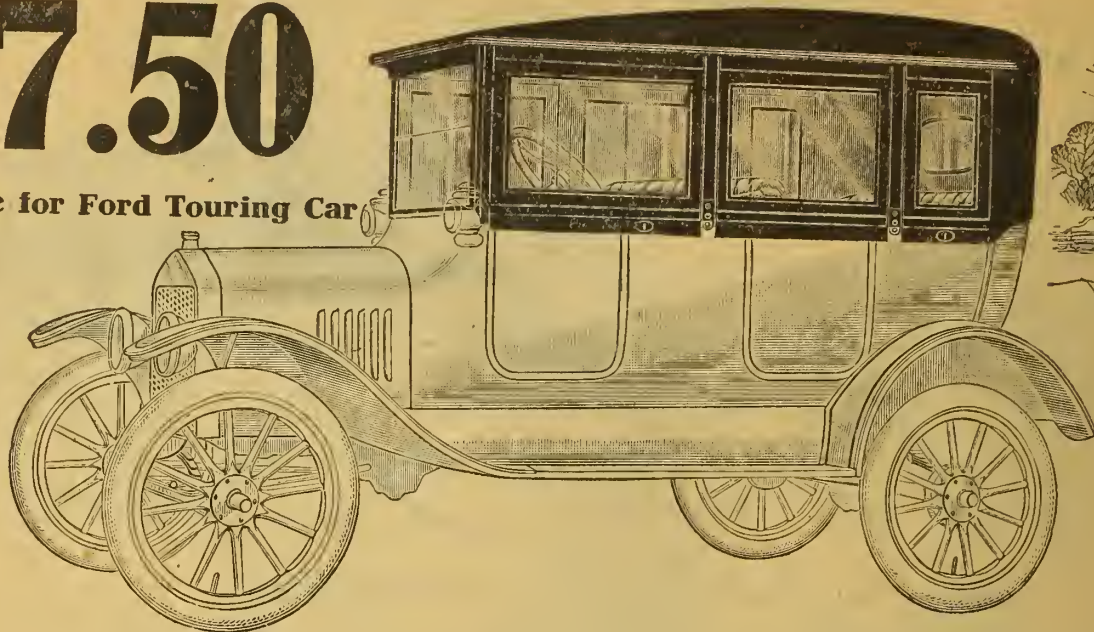
Specifications

Gear—Axles, ¾ inch double collar arched.
Springs—Oil Tempered.
Wheels—Hickory ¾-inch screwed rim. Oval edge steel tire bolted between each spoke.
Shafts—Hickory different lengths to correspond with size of vehicle, well ironed painted points leather straps.
Painting—Bodies and seat black, gears dark auto red, neatly striped.
Track—45 inches.
Seat—Width, 30 inch upholstered in artificial leather. Ship. wt., about 100 lbs.
287C7200—For Pony, height, 34 inches to 42 inches at front legs. Wheels, height, 30 inches. Shafts: length, 50 inches.
Price..... **\$37.90**
287C7201—For Pony, height, 42 to 48 inches at front legs. Wheels, height, 34 in. Shafts: length, 60 inches. Price..... **\$37.90**
287C7202—For small horse, height over 48 inches at front legs. Wheels, height, 34 in. Shafts: length, 66 inches. Price..... **\$37.90**
 Shipped from factory in Ohio.

Make Your Ford a Cozy Car With a Servo All-Year Top

\$77.50

Top Complete for Ford Touring Car



Made to Fit the Ford, Dodge, Maxwell or Chevrolet

Easy to Attach—No Mechanical Skill or Special Tools Required

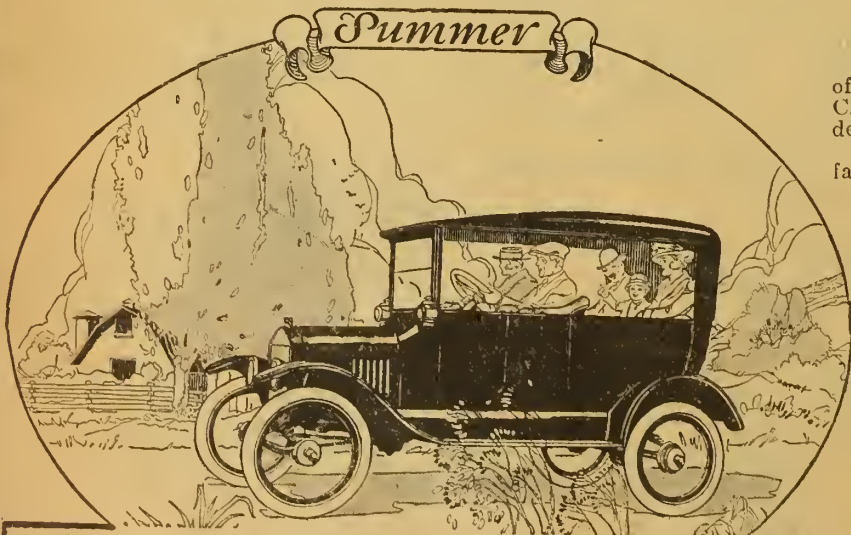
Storm Tight.—A Servo Top on your Ford, Dodge, Maxwell, or Chevrolet Touring Car gives you limousine comfort at a low cost in all kinds of weather. Severe winter or summer storms will not penetrate the interior of your car because the Servo Top is correctly built to fit snugly all around. There are no open slots for snow or rain to penetrate, no glass side windows to break or rattle. The transparent sheet windows are raised or lowered at will, with the same ease as a window shade in your home—they slide in the grooved pillars like a window does in its sash.

Easy to Attach.—The Servo Top is easily attached in a short time, no mechanical skill or special tools are needed. You merely remove the old top from your car and put the new one in its place. It is bolted to the front and rear arms which held your old top. The wood curtain supports are fastened securely to the top but can be easily removed, giving a clear and unobstructed expanse from windshield to rear bow.

Pleasing Design.—The Servo Top is designed and built on the most approved stylish lines. It has long flowing lines that give your car a limousine appearance. The sides have the effect of a long curve without any sharp angles and the rear view gives the tall coach effect that is so much admired. A large oval rear glass window which is much larger than the average rear opening completes the graceful make-up.

How the Servo Top is Made.—The material and workmanship used in the construction of our tops are the best obtainable. The windows are of heavy celluloid set into a frame of heavy stiff waterproof cloth. The top of this cloth winds on a roller, drawing the celluloid curtains up into the top between the ceiling and roof. The celluloid curtains do not roll but lie perfectly flat and out of sight when not in use. The roof is built of strong wood slats on a substantial frame, and covered with 30-ounce waterproof cloth. The back is solid wood and the round corners are heavily reinforced with sheet iron. Constructed so as to give the maximum strength at the minimum weight. The top is lined with heavy cloth, dark gray color, and fastened to the roof with glove fasteners so that it can be easily removed for cleaning. It requires but a few moments' work to transform a car with a Servo Top from the cozy closed type to the open Sedan model without getting out of the car.

Low in Price—Light in Weight.—The extremely low price of this top should not mislead you as to its high quality. It is built in the most scientific manner of high grade materials throughout. Upholstered with 30-ounce duck over a frame heavily reinforced with metal. It is one of the lightest weight tops made, weighing only 110 lbs. for a roadster and 180 lbs. for a touring car. Compare this with glass tops weighing 250 to 500 lbs. and then figure your saving of tires and gasoline.



In Summer, during pleasant weather, the Servo Top may be transformed into the much admired Sedan type with a clear unobstructed view.

You Save Money on Freight

We can make prompt shipment of Ford Touring Car Tops from any of the following warehouses at the same price: Chicago Heights, Ill., Kansas City, Mo., Saint Paul, Minn., Omaha, Neb., or Pittsburgh, Pa., thus saving delay and freight charges.

Tops for cars listed below except Ford Touring shipped only from our factory at Chicago Heights, Ill.

Specifications

Wood-Frame. The Top Slats are from quarter sawed tupelo gum. The cross ribs or bows are constructed from select cypress. The back panel is solid, made from first-grade gumwood, with large oval glass window.

Detachable Side Rails. Of first-grade oak, carefully sawed and polished.

Lining. A heavy durable automobile cloth in dark grey.

Upholstering. The top is covered or upholstered with the highest grade 30-oz. waterproof cloth.

When ordering state year and model of your car.

287C7000—Top for Ford Touring Car. 1915 to 1920 models.	
Shipping weight, 275 pounds.....	\$77.50
287C7002—Top for Ford Roadsters. 1915 to 1920 models.	
Shipping weight, 200 pounds.....	62.75
287C7004—Top for Dodge Touring Car. 1915 to 1920 models.	
Shipping weight, 300 pounds.....	89.50
287C7006—Top for Dodge Roadster. 1915 to 1920 models.	
Shipping weight, 210 pounds.....	72.75
287C7008—Top for Maxwell Touring Car. 1916 to 1920 models.	
Shipping weight, 290 pounds.....	86.50
287C7010—Top for Chevrolet Touring Car. Model 490—1916 to 1920. Shipping weight, 290 pounds.....	84.50

Special Auto Bodies to Fit Ford Chassis

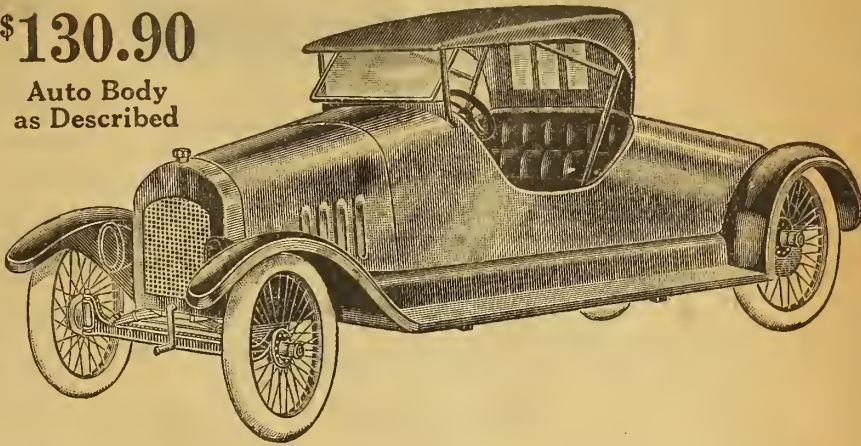
Make an attractive car of your old Ford chassis with one of these artistically designed auto bodies and you will have the three things sought for by auto buyers: smart appearance, satisfactory motor power, and economy. The economical Ford Motor is known the world over. Add to this one of our cleverly designed auto bodies and you get big car appearance, Ford economy, Ford power.

They are easily and quickly attached to any year Ford chassis. No mechanical skill is required. Just remove the old body and the new one fits snugly into the same place. Bolt holes are accurately bored to fit. Seamless steel construction, beautifully finished, mechanically and artistically designed to delight the most discriminating. Made throughout of the best materials.

Sport Model "E"

\$130.90

Auto Body as Described



Sport Model "E" is one of our most popular designs. A Ford chassis equipped with this body makes a car with that graceful streamline effect so much admired in the high priced cars. Nicely upholstered with high quality artificial leather. Furnished with a stylish one-man top made of watertight neverleak material and a low, easy, single glass slanting windshield. Hoods fit any Ford radiator made since 1914. Turtle back has roomy door opening into storage space.

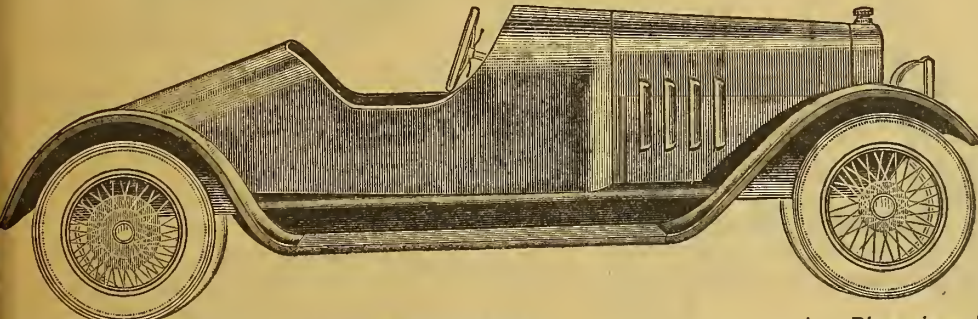
Specifications

Frame—The frame is well made of select wood. All joints mortised, glued and screwed, solidly reinforced and ironed.
Construction—22 gauge cold rolled automobile anti-rust steel.
Radiator—Not furnished. Body made to fit regular Ford Radiator.
Upholstery—Fine quality, artificial leather, fully stuffed.
Cushion—High grade spring cushion with shock absorbing oil tempered coil springs covered with artificial leather.
Top—Stylish Sport Model One-Man Top made of high grade auto material, complete with full side curtains. Folds back.
Windshield—Low slanting, single glass, clear vision, ventilating type.
Fenders and Running Boards or Dust Shields—Not furnished. Body made to fit old fenders and running boards or dust shields.
Gasoline Tank—12 gallon capacity, invisible, located in turtle back.
Painting—Beautifully painted and varnished in imperial red, Brewster green, royal blue or black. Be sure to state color.
Weight—Approximately 300 pounds.
Dimensions—Total length from extreme front to rear of body, 121 inches. Length of body including hood, 105½ inches. Length of body back of dash, 82 inches. Width of seat inside of cushions, 34 inches. Depth of seat front to rear, 17 inches. Seat sets 9 in. above floor. Also state year of chassis.
 New Crown Fenders. Write for Auto Supply Catalog.
 Honeycombed Radiator. Write for Auto Supply Catalog.

287C7230—Body only. Without hood or shell (one coat of priming paint)..... **\$110.25**
 287C7231—With hood and shell (painted)..... **130.90**
 Shipped from factory at Chicago.

Speedster Model "H"

\$97.50 Auto Body as Described



The Speedster Model H is built low, without doors, giving it that long racy appearance so popular at this time. Especially designed for those desiring a speedy well built auto body, sturdy in appearance and pleasing in design. Large tool compartment in the "turtle back" together with a 12-gallon invisible gasoline tank.

Specifications

Upholstery—Extra fine quality artificial leather, fully stuffed.
Cushion—High grade plaited spring cushion with shock absorbing oil tempered coil springs. Covered with best grade artificial leather.
Fenders and Running Boards and Dust Shields not included—Body made to fit old fenders and running boards or dust shields.
Gasoline Tank—12 gallon capacity. Invisible, located in turtle back.
Tool Compartment—Extra large turtle back style tool compartment.
Painting—Beautifully painted and varnished. Furnished in imperial red, Brewster green, royal blue or black. State color preferred.
Weight—Approximately 300 pounds, crated for shipment.

Frame—The frame is well made of select wood. All joints mortised, glued and screwed, solidly reinforced and ironed.
Construction—22 gauge cold rolled automobile anti-rust steel.
Radiator—Not furnished. Body and hood made to fit regular Ford Radiators.
Dimensions—Total length from extreme front to rear of body, 121 inches. Length of body including hood, 117 inches. Length of body back of dash, 92 inches. Width of seat inside of cushions, 36 inches. Depth of seat front to rear, 17 inches. Seat 9 in. above floor.

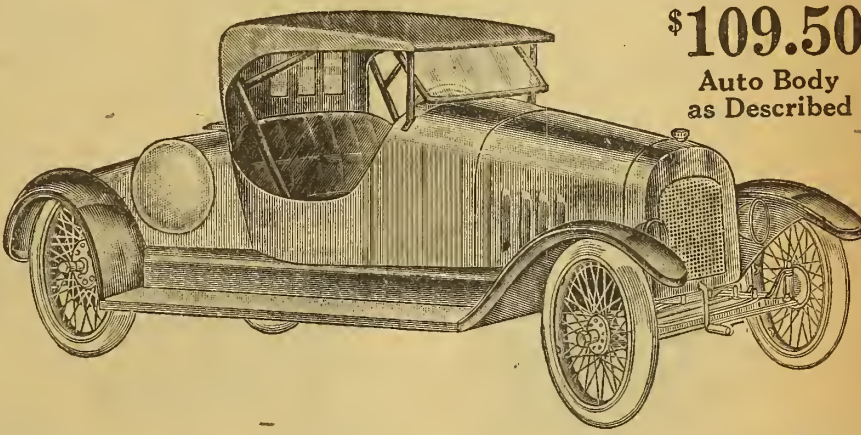
287C7236—Body only, without hood or shell (one coat of gray priming paint).... **\$75.35**
 287C7237—With hood and shell (painted)..... **97.50**
 New Crown Fenders. Write for Auto Supply Catalog.
 Honeycombed Radiator. Write for Auto Supply Catalog.
 Be sure to state year of chassis.
 Shipped from factory at Chicago.

Sport Roadster Model "D"

The Sport Roadster Model "D" has been designed to fill the demand for an inexpensive, yet roomy, streamline, stylish Body. Furnished with stylish one-man top made of waterproof material and a low, racy, single glass windshield. Upholstered on the back and sides and includes seat cushion. Streamline hood and shell, 22-gallon gasoline tank and a compartment for tools or storage.

Specifications

Frame—The frame is well made of select wood. All joints mortised, glued and screwed, solidly reinforced and ironed.
Construction—22 gauge cold rolled automobile anti-rust steel.
Upholstery—Extra fine quality artificial leather, fully stuffed.
Cushion—High grade cushion covered with artificial leather.
Top—Stylish Sport Model One-Man top made of high grade auto material, complete with full side curtains. Folds back.
Windshield—Low slanting, single glass, clear vision, ventilating type.
Radiator—Not furnished. Body and hood made to fit regular Ford Radiator.
Fenders and Running Boards and Dust Shields—Not furnished. Body made to fit old fenders and running boards.
Gasoline Tank—22 gallon capacity, visible and furnished with wing-shaped filler cap.
Painting—Beautifully painted and varnished. Furnished in imperial red, Brewster green, royal blue, or black. Be sure to state color.
Weight—Approximately 300 pounds, crated for shipment.
Dimensions—Total length from extreme front to rear of body, 121 inches. Length of body including hood, 105½ inches. Length of body back of dash, 82 inches. Width of seat inside of cushions, 34 inches. Seat 9 in. above floor.
 New Crown Fenders. Write for Auto Supply Catalog.
 Honeycombed Radiator. Write for Auto Supply Catalog.



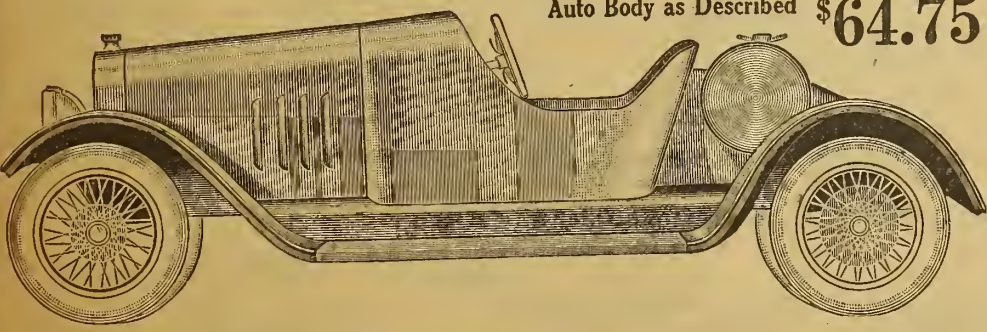
\$109.50

Auto Body as Described

287C7228—Body only. Without hood or shell (one coat of primer paint)..... **\$87.45**
 287C7229—With hood and shell (painted)..... **109.50**
 Be sure to state year of chassis.
 Shipped from factory at Chicago.

Auto Body as Described **\$64.75**

Speedster Model "G"

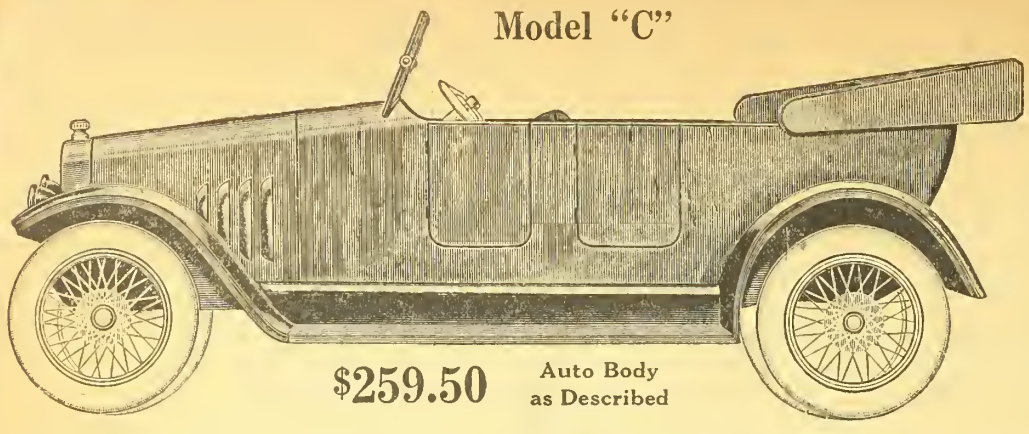


Speedster Model "G" is built on large graceful lines with plenty of leg room for two people. Made the same in every detail as our Sport Roadster Body described above, with the exception that it does not include Top or Windshield.

Specifications

Frame—The frame is well made of select wood. All joints mortised, glued and screwed, solidly reinforced and ironed.
Construction—22 gauge cold rolled automobile anti-rust steel.
Radiator—Not furnished. Body and hood made to fit regular Ford Radiator.
Upholstery—Extra fine quality artificial leather, fully stuffed.
Cushion—High grade plaited cushions. Covered with best grade artificial leather.
Fenders and Running Boards and Dust Shields not included—Body made to fit old fenders and running boards.
Gasoline Tank—22 gallon capacity, visible and furnished with brass wing-shape filler cap.
Tool Compartment—A compartment for tools having a rectangular hinged cover with proper fastenings for a lock.
Weight—Approximately 300 pounds, crated for shipment.
Dimensions—Total length from extreme front to rear of body, 121 inches. Length of body including hood, 105½ inches. Length of body back of dash, 82 inches. Width of seat inside of cushions, 34 inches. Depth of seat front to rear, 15½ inches. Seat 9 in. above floor.

Frame—The frame is well made of select wood. All joints mortised, glued and screwed, solidly reinforced and ironed.
Construction—22 gauge cold rolled automobile anti-rust steel.
Radiator—Not furnished. Body and hood made to fit regular Ford Radiator.
Upholstery—Extra fine quality artificial leather, fully stuffed.
Cushion—High grade plaited cushions. Covered with best grade artificial leather.
Fenders and Running Boards and Dust Shields not included—Body made to fit old fenders and running boards.
Gasoline Tank—22 gallon capacity, visible and furnished with brass wing-shape filler cap.
Tool Compartment—A compartment for tools having a rectangular hinged cover with proper fastenings for a lock.
 287C7234—Complete as described. Body only without hood or shell (one coat of gray priming paint)..... **\$44.85**
 287C7235—With hood and shell (painted)..... **64.75**
 New Crown Fenders. Write for Auto Supply Catalog.
 Honeycombed Radiator. Write for Auto Supply Catalog.
 Be sure to state year of chassis. Shipped from factory at Chicago.



Model "C"

\$259.50 Auto Body as Described

Remodel Your Ford

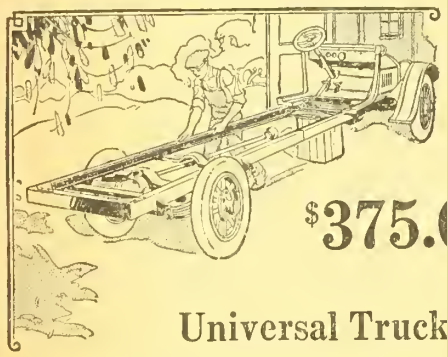
This Beautiful 5-Passenger Body will fit Your Ford Chassis

Our Model C is a new up-to-date, four-door model fitting all Ford Chassis 1915 to 1920 type. Roomy, stylish appearing auto body, has more room in the tonneau than the average high priced cars, in fact sufficient room for two extra chairs. Easily attached to any Ford Chassis. 12 gallon gasoline tank is included under the front seat. Fitted with a stylish one-man top of waterproof material including side curtains with large celluloid lights, and a windshield of adjustable two-piece clear vision type of heavy plate glass.

The body is nicely upholstered with a high grade fabric and includes spring seat cushions.

Specifications: **Frame**—Well made of selected wood. All joints mortised, glued, solidly reinforced and ironed.
Construction—22-gauge, cold rolled, automobile steel.
Upholstery—Extra fine quality artificial leather, correctly stuffed.
Windshield—New style, slanting, 19 inches high, 35 inches wide, fitted with instrument board at base. Slanting, single glass, clear vision, ventilating type.
Top—Stylish sport model top.
Cushions—Spring cushions, covered and tufted with best grade artificial leather.
Radiator—Not furnished. This body fits snugly over the 1915 to 1920 Ford radiator. If desired, our special honeycomb radiator front will be furnished at extra cost.
Hood—22-gauge, auto steel. 1915 to 1920 style with four air vents on each side.
Fenders and running boards not included—Body made to fit old fenders and running boards.

Gasoline Tank—12-gallon capacity.
Painting—A rich glossy auto enamel in black, brewster green or dark blue.
Weight—Approximately 500 pounds, wrapped and crated.
Dimensions—Length from extreme front to rear, 124 inches. Length of body back of dash, 96 inches. Width of front door, 20 inches. Width of front seat, 40 inches. Height of front seat cushion, 17 inches. Width of rear seat, 45 inches. Width of top above the rear of body, 23 inches. Height of top at center above sides of body, 28 inches. Width of top at front, 47 inches. Width of top at rear, 48 inches. Length of hood, 25 inches.
287C7226—Price for body only without running board and fenders as described **\$259.50** above.
Be sure to state year of chassis and color preferred.
Shipped from factory in Northern Illinois.

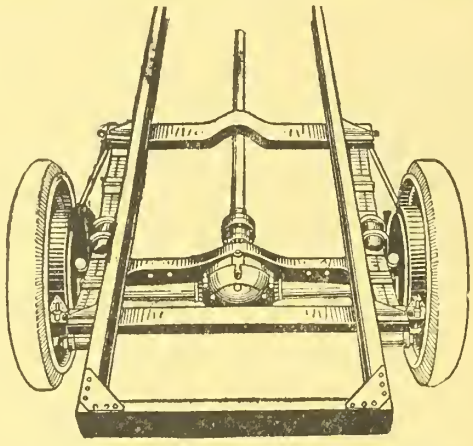


\$375.00

Universal Truck Unit

The power plant of a good passenger car is essentially the same as that of a good motor truck. This shaft driven unit combined with your used car will make a strong, serviceable 1½-ton truck.

Because of the adjustable frame the universal unit may be attached to almost any pleasure car, without bending the truck frame, or any other operation outside of drilling. The side channels of the truck unit may be adjusted as to width on the cross channels, which are fastened to the truck springs. They may also be adjusted as to wheel base length. In assembling the unit to a pleasure car the car frame is cut off just ahead of the "kick-up". The frame channels of the truck unit are then bolted onto the car frame. The pleasure car frame is therefore extended the same width all the way back. These extensions are fastened to the ends of the truck springs and bolted to them.



Make a Truck of Your Old Car

With Shaft Drive

These Units have solved the old problem of getting one's money's worth out of old cars. No longer need good cars be sold for junk merely because of ragged appearance. As long as the power plant is capable, you can, with the help of our new Truck Units, convert your used chassis into a first-class serviceable 1½-Ton Truck, which will pay for itself in very short time.

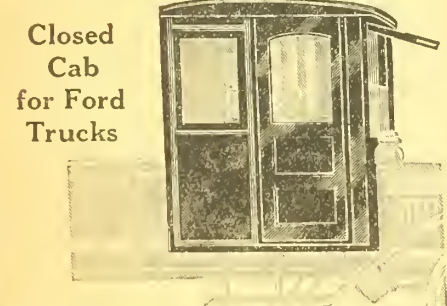
Just consider the fact that such a Unit equipped Truck is equal in working capacity to about four men and four teams, and this at one-third the cost. Universal Units are adapted to any car of the following makes:

Fits Any of These Cars

Apperson, Auburn, Buick, Cadillac, Case, Chalmers, Chevrolet, Chandler, Cole, Dodge, Dort, Ford, Garford, Grant, Haynes, Hudson, Hupmobile, King, Kissel, Locomobile, Lozier, Marmon, Maxwell, Mercer, Moon, National, Oakland, Oldsmobile, Paige, Peerless, Pierce-Arrow, Premier, Reo, Stearns, Stevens-Duryea, Stutz, Thomas, Velie and White.

Or any car where the transmission is in a unit with motor or carried on the frame next to motor. Will not fit cars where the transmission is part of the axle.

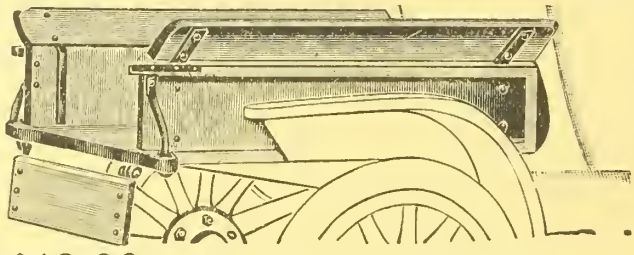
Axle—Internal-gear-drive, gear ratio 6½ to 1. Capacity, 3,000 pounds on the spring pads. **Springs**—40 in. long, 2½ in. wide, nine leaves. **Propeller Shaft**—Tubular steel, two universal joints. **Wheels**—Heavy duty truck type, twelve 1¼ in. spokes. **Tires**—32 in. x 3½ in. solid pressed-on type, standard make. **Wheelbase**—about 140 inches, variable according to make of motor car. Shipping weight, about 1,000 lbs.
287C7385—Universal Truck Unit. Complete.... **\$375.00**
Shipped from factory in Detroit, Michigan.
 Customers furnish own car. We supply the parts to convert pleasure car into a practical business truck chassis.
 If for Ford car specify on order as a completely assembled frame and other special parts are then furnished.



Closed Cab for Ford Trucks

Built to withstand hard service and give the best satisfaction in severe weather. Fits all Ford Trucks.
 The frame is constructed of straight grain selected hardwood, bolted and ironed at the corners. The windows are stationary. The sides are metal. The cushion is 21-spring. Has lazy back all the way across the rear—rear above lazy back open with oil duck curtain and mica window. Floor boards furnished. Has a hinged spring door opposite driver and stationary door on the driver's side. This door can be removed if desired. Equipped with two swing ventilating window shields. Weight, crated, about 360 lbs.
287C7280—For Ford Truck Attachments **\$79.25**
287C7281—For Ford Winter Cab to fit Ford Trucks Same equipment and weight. Price **\$85.50**
Shipped from factory in Missouri.

Make a Truck of Your Ford Roadster



\$13.90 Open Body for Ford Roadsters

Converts a Ford Roadster into a truck. Attached by simply removing the form bolts that hold the turtle back on the frame. Place the demountable body in and replace the bolts. Made of ½-inch clear lumber with a 1-inch end gate on stout hinges. 4-in. flare boards, fastened by iron box straps bolted to panel and bottom of body. Painted black. Wt., crated for shipment, about 100 lbs.
287C7160—As described..... **\$13.90**
287C7165—Size, 34x52 in. Smaller and lighter in construction.... **12.35**
 Weight, crated, about 95 lbs.
Shipped from warehouse near Chicago, Ill., and Saint Paul, Minn.

Truck Springs for Ford Cars

\$17.90



Distributes Load Evenly and Eliminates Side sway. The rear cross springs of the Ford Chassis need reinforcing to carry commercial bodies with an overhang. These springs overcome this difficulty. Two full-elliptic springs form a full platform taking care of the overhang, eliminating side swaying and sagging. It balances the load and straightens the entire rear construction of the car. Makes it possible to use a 6½-foot body back of the driver's seat. No holes to drill and easily attached in two hours. Shipping weight, about 50 lbs.
287C7175—One ton capacity..... **\$17.90**
287C7176—1½-ton capacity..... **22.50**
Shipped from Saint Paul, Minn., and Chicago Heights, Ill.

Trailer Connectors

Fits the Spring Bar of Ford Car
 2-in. Spring Bar. 2¼ in. between Trailer Tongue Jaws. ¾ in. Bolts. 7/16 in. Clips. Per set, Shp. wt., 9 lbs.
187C8200 **\$4.75**

Attaches to Cross Member of Frame

Fits the Spring of the Ford Car
 1½x8 in. Cross Bar Bearing 2¼ in. between Trailer Tongue Jaws. ¾ in. Bolts in Tongue. ¾ in. Bolts in Cross Bar Plate
187C8201—Per set Shp. wt., 6½ lbs **\$4.45**

Universal Coupler and Hitch Iron for Ford Cars

Simply and strongly made of steel and designed so all motion and every jerk or strain is neutralized. Self-locking pin makes accidental uncoupling impossible.
187C8395—Universal Coupler and Hitch Iron. Shipping weight, 12 lbs. **\$7.55**

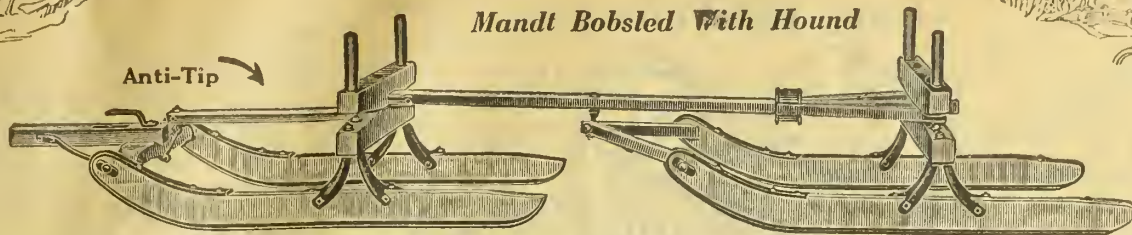
Ford Owners

For Crown Fenders, Special Running Boards, and other necessities for Fords see page 898 of this catalog.

Bobsleds and Storm Fronts

Large Stocks—Prompt Shipments

Mandt Bobsled With Hound

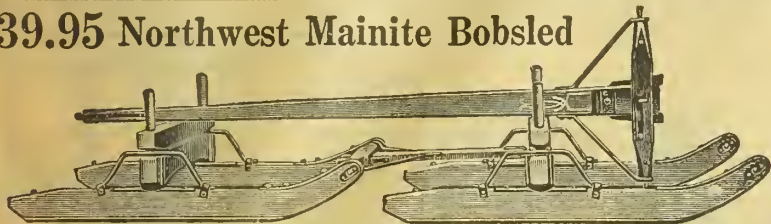


Hardwood throughout. Perfect oscillation. With the long reach, the bobs can be lengthened or shortened. Runners are interchangeable. Fitted with anti-tip connected to pole which will hold beams always in right position. Nicely painted. Tongue is heavily braced and ironed. Heavy cast iron shoes. Track 38 in.

287C7410—Runners, 2x5 in. and 5 ft. long. Weight, 350 lbs. Capacity, 3 tons. Price, \$37.15
 287C7412—Runners, 2x5 in. and 5 ft. 10 in. long, over all. Weight 375 lbs. Capacity, 3 tons (\$2.00 Extra for 42 in. Bolsters instead of 38 in. between stakes). Price, \$39.95

Shipped from Saint Paul, Minn., or Central Ohio.

\$39.95 Northwest Mainite Bobsled



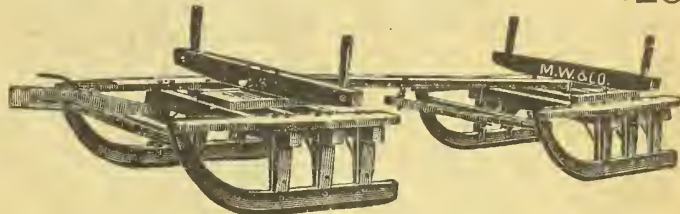
This sled is especially adapted to conditions in the Northwest. Runners reinforced by patented channel irons around nose and on top under beam. Have irons well made of high carbon flat steel, 1/4 in. thick on edge. Painted and striped. Varnished. Well seasoned hardwood throughout. Pole well ironed.

287C7400—Runners, 2 in. x 6 in. x 6 ft. Track, 38 in. Bolster 38 in. Wt., 450 lbs. Price, \$39.95
 287C7401—Runners, 2 in. x 6 in. x 6 ft. Track 56 in. Bolster 38 in. Wt., 475 lbs. 48.65
 287C7402—Runners, 2 in. x 6 in. x 7 ft. Track 38 in. Bolster, 38 in. Wt., 500 lbs. 42.25
 287C7403—Runners, 2 in. x 6 in. x 7 ft. Track 56 in. Bolster 38 in. Wt., 550 lbs. 49.95
 287C7404—Runners, 2 1/2 in. x 6 in. x 7 ft. Track 38 in. Bolster, 38 in. Wt., 600 lbs. 52.50
 287C7405—Runners, 2 1/2 in. x 6 in. x 7 ft. Track 56 in. Bolster, 38 in. Wt., 650 lbs. 59.95
 Extra for 42 in. Bolsters on 56 in. Track, \$2.00

Shipped from Saint Paul, Minnesota.

Samson Wood Knee Bobsled

\$28.75



Ideal sleds for farm work and general hauling. Painted and varnished. Stakes in bolsters are 38 in. apart. With tongue. Track, 38 in. Capacity, small size, 2 tons, large, 3 tons.

Article No.	No. of Knees	Lgh. Run.	Lgh. Cast Shoes	Size Runners	Size Beams	Size Bolster	Size of Raves	Aprx'mate Weight	Price
287C7420	4	5 ft.	3 ft. 3 in.	1 1/2 x 2 3/4 in.	2 1/2 x 3 in.	3 x 3 3/4 in.	1 1/2 x 6 in.	350 lbs.	\$28.75
287C7422	6	5 ft.	3 ft. 3 in.	1 1/2 x 2 3/4 in.	2 1/2 x 3 in.	3 x 3 3/4 in.	1 1/2 x 6 in.	375 lbs.	\$29.95

Extra for 42 in. Bolsters \$2.00.

Shipped from Factory in Ohio.

Bobsled Runners Ironed Complete

Make Your Old Sled as Good as New



\$3.15 Each and Up

Made of selected hardwood and ironed complete with heavy cast shoe. Fits any make of sled. Bolt holes for attachment to bob not bored. They can be used for any make of sled. With these runners you can quickly repair your old sled to give you the service of a new one. Strongly built to stand hard-rough usage.

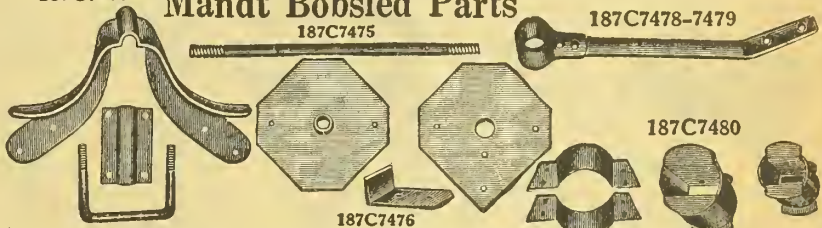
287C7415—Trade size 2x5 inches, 5 feet long. Actual size 1 1/2 inches wide, 5 inches high, 4 feet 7 inches long. Ship. wt., 30 lbs. Price, \$3.15
 287C7416—Trade size 2x6 inches, 6 feet long. Actual size 1 1/2 inches wide, 6 inches high, 5 ft. 9 inches long. Ship. wt., 41 lbs. Price, each \$3.75

287C7417—Trade size 2x6 inches, 7 feet long. Actual size 1 1/2 inches wide, 6 inches high, 6 feet 7 1/2 inches long. Ship. wt., 51 lbs. Price, \$3.95

287C7418—Trade size 2 1/2 x 6 in., 7 ft. long. Actual size 2 1/2 inches wide, 6 in. high, 6 ft. 7 1/2 inches long. Ship. wt., 75 lbs. Price, each \$5.45

187C7477

Mandt Bobsled Parts



Complete set consists of 4 steel Knees with 4 Staple Bolts and Nuts and 4 plates for beam; 1 pair steel Bolster plates with angle for Reach; 2 Swivel Reach Couplings; 1 pair Pole Roller Braces; 1 pair Reach Roller Braces; 2 Roller Rods with Nuts.

187C7475—Roller Rods. Weight, each 3 1/2 lbs. Price each, \$0.65
 187C7476—Bolster Plates and Reach Angle. Wt., 10 lbs. Price, set, 2.10
 187C7477—Knees, Staple Bolts and Beam Plates. Wt., 37 lbs. Price, set, 5.25
 187C7478—Pole Roller Braces. Wt., 6 1/2 lbs. Price, Set, .90
 187C7479—Reach Roller Braces. Wt., 5 1/2 lbs. Price, Set, .95
 187C7480—Swivel Reach Couplings. Wt., 7 lbs. Price, set, 1.85
 187C7481—Complete set. Wt., 78 lbs. Price, 12.35

Spring Wagon Bobs



With these bobs you can easily and quickly make your spring wagon or single farm wagon into a complete sled. Runners are painted red and fitted with shackles so any ordinary pole or shaft may be used. Oscillating rear bolster. Height of bobs, 21 in. Length of runner, 3 ft. 1 in. Track, 38 in.
 287C7550—Capacity, 1500 lbs. Wt., 100 lbs. Price, \$11.75
 Hardwood used Selected with Care.
 Shipped from factory in Ohio.

Wood Knee Sleigh Gear



Put your buggy on Runners during winter season. For any size buggy body up to 28 in. wide and 60 in. long. Shipped knocked down so as to take the lowest freight rate. Quickly converts your road wagon, driving wagon or buggy into an easy-riding, serviceable sleigh. Height 16 in. Painted dark Brewster green. Weight, 60 lbs. Packed flat.
 287C7555—Price including shifting bar, but no shafts, \$7.95
 Shipped from factory in Ohio.

Bob Sleigh Shoes

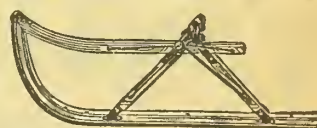
Article No.	Lgh. Inches	Wt., Per Set—Four	Holes, 3/8 in.	
			Per Set	Per Set
287C7485	38	85 lbs.	\$5.85	
287C7486	40	94 lbs.	5.95	
287C7487	44	97 lbs.	6.25	

Oscillating Side Shoes

Article No.	Lgh. Inches	Wt., Per Set—Four	Holes, 3/8 in.	
			Per Set	Per Set
287C7490	48	100 lbs.	\$5.95	
287C7491	52	110 lbs.	6.45	
287C7492	56	115 lbs.	7.10	
287C7493	60	125 lbs.	7.50	

Shipped from Warehouse in Northern Iowa.

Runner Attachments



Bent wood and iron. Attach to square part of axles. No strain to spindles. Adjust to different width roads. Shipping weight, 60 to 90 lbs. Nicely Painted. Attaches by Clamps to square part of axles.

Article No.	For Axle In.	Price for Set of Four
287C7560	1 in.	\$7.65
287C7561	1 1/2 in.	8.65
287C7562	1 3/4 in.	8.95

287C7564—Extra for Shifting bars, to use with attachment, \$2.00
 Shipped from Warehouse in Ohio.

Low Bend Runners

Length, 7 ft.; 14 in. bend. Wt., per set, 70 to 100 lbs. Oak.

Article Number	Width Runner	Dp. In.	Set 4
287C7470	2	4	\$7.50
287C7472	2 1/2	5	9.95
287C7473	2 3/4	6	14.90

Shipped from factory in Ohio.

Extra Wide Runners

Made of same stock as bob runners. Length, 5 ft. 10 in. over bend. Set 18 4 runners. Wt., 75 to 90 lbs. Depth, 2 1/2 in.

Article No.	Width Inches	Price Set
287C7450	4	\$8.25
287C7451	5	8.65

Shipped from factory in Ohio.

Regular Bent Runners

Rough, cut out in bend, taper to tip to permit bending. Length, 5 1/2 ft. Oak. Wt., per set 35 to 50 lbs.
 Price of tread, 2 in., except 287C7460 which is 1 1/2 in. Shipped from factory in Ohio.

Article No.	Depth, In.	Per Set of Four
287C7460	2 1/2	\$6.40
287C7461	3	6.65
287C7462	4	7.50

Foot Warmers



Covered with Brussels carpet. Asbestos packing prevents scorching. Burns Coal 87C7500 on this page. Length 12 in. width, 7 1/2 in., height, 3 1/2 in. White metal ends. Weight, about 4 1/2 lbs. (Keep warm and comfortable in cold weather.)
 87C7505—Price, \$2.95

Storm Fronts for Buggies



Safe Storm Shield

This storm front can convert any plano style box buggy into a winter vehicle. Made on a rigid wood frame, with a large window in front of clear celluloid. Window can be raised or lowered instantly. Entire front is easily and securely fastened on.

An automatic lever separates the apron part of shield from upper part, allowing apron to drop in the lap and shield to fold back in buggy top out of the way.

Fitted with metal lined pockets. Made of heavy oiled drill. Shipping weight, 7 lbs.

187C7530—To fit top from 38 to 41 inches. Price, \$5.90

187C7531—To fit top from 40 to 43 inches. Price, 5.95

Favorite Storm Fronts

\$3.95

Snug fitting storm front makes a cozy interior of your buggy top in stormy weather. Made of waterproof cloth. Black oiled drill. Fits over top of front bow with buckle and strap to adjust on props and will fit all buggies with tops measuring 42 in. or less across bows. Adjustable straps to attach to dash, harness leather line holes, celluloid window 11x10 in.. Folds up in small package. Ship. wt., 2 1/2 lbs.
 87C7525—Price, \$3.95

Storm King Aprons

\$2.95

Just the thing for driving during rainy weather. Fits snugly over dash and is provided with line pocket.

Water-Proof cloth. Will stand hardest kind of usage; will not crack or peel. Black oiled drill. Size, 50x54 inches. Adjustable to buggy dashes 22 to 28 inches. Can be folded and laced under seat when not in use. Shipping weight, 3 1/2 lbs.
 87C7520—Price, \$2.95

Sleigh Shoe Bolts

Art. No.	Lgh. In.	Diam. In.	Set of 16
87C7565	4 1/2	3/8	\$0.75
87C7566	5	3/8	.75
87C7567	5 1/2	3/8	.82
87C7568	6	3/8	.85
87C7569	6 1/2	3/8	.89
87C7570	7	3/8	.93

Coal for Heaters

Gives steady uniform heat without odor, flame, smoke or gas. Length of cakes, 7 1/2 inches; width, 2 1/2 inches; height, 1 1/2 inches. In boxes of one dozen cakes. Each cake will burn 12 to 15 hours. Can be extinguished and relighted. Weight per box, 6 1/2 lbs.
 87C7500—Price, 87c per box

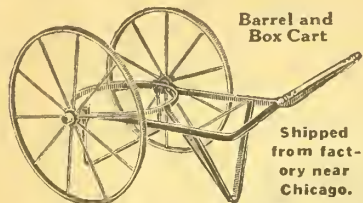
Carriage and Auto Heater



Extra heavy Nickel Plated with ventilators. Covered with a Brussels carpet. Asbestos lining prevents scorching robes, etc. Burns Coal 87C7500 on this page. Length, 14 in. width, 7 1/2 in. Weight, about 6 lbs.

87C7510—Price, \$3.65

Hand Carts—Road Scrapers—Stump Pullers



Barrel and Box Cart

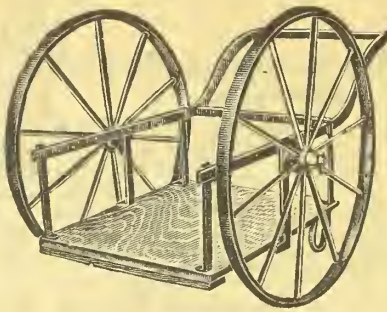
Shipped from factory near Chicago.

Holds barrels of different sizes. Handy as an orchard spray cart and liquid carrier. All steel frame with strong steel braces. Wheels are 36 in. diameter with 1 1/2-inch tires. Without any fitting or attachments. Also adapted for box basket or rack. Barrels not furnished.

287C6158—Ship. wt., without box, 70 lbs. Price... **\$8.60**

287C6160—Cart as above with strong hardwood box 42 inches long, 24 inches wide and 6 1/2 inches deep. Ship. wt., 112 pounds. Price, complete **\$12.25**

Handy Pick-Up Cart



This is the cart you want for hauling milk cans, barrels and feed. As a sprayer cart it is excellent. Handy for carrying tools, moving beehives and in many other places where a low down cart is useful.

Frame is made of heavy steel securely braced and bolted. The heavy construction of these carts will enable you to use them in many odd jobs, where the ordinary light cart would not stand the strain.

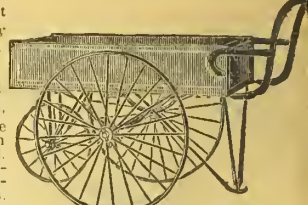
Length of platform, 32 in.; width, 28 in. height from ground, 6 1/2 in. Carries four 10-gallon milk cans easily. Height of wheels 36 in.; width of tires, 1 1/2 in. Cranked steel axle 3/4 in. diameter. Platform has runners at rear end that will slide either way. Shipping weight, 91 lbs.

287C6156—Pick-up Cart Price **\$7.90**

287C6163—With 2-inch tires. Shipped from Saint Paul, Minn. Price... **\$9.95**

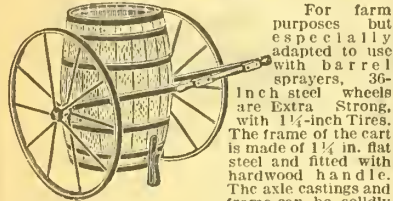
Climax Spring Cart

Strongly built, light weight cart for light delivery work. Frame and wheels constructed of steel 26 inches high, 24 spokes, wire rim 1 1/2 x 3/32 inch half oval steel. Seasoned hardwood box. Capacity 500 lbs. Width, 20 in. Length, 37 in. and depth, 8 1/2 in.; set on double-leaf steel springs. The side and end boards are detachable for carrying lumber, etc. The axle is made of 3/4-inch steel. Sm. front wheel 14 inches, prevents load tipping and makes easy to handle. Heavy steel standard. Shipping weight 62 lbs.



287C6162—Price... **\$13.75**
Shipped from factory in Northern Ohio.

Climax Steel Frame Barrel-Cart



For farm purposes but especially adapted to use with barrel sprayers. 36-inch steel wheels are extra strong, with 1 1/2-inch tires. The frame of the cart is made of 1 1/2 in. flat steel and fitted with hardwood handle. The axle castings and frame can be solidly bolted to the sides of barrel. (Barrel not furnished). Shipping wt., 58 lbs.

287C6150—Price... **\$5.30**

Shipped from factory near Chicago.

287C6153—With 2-inch tires. Shipped from Saint Paul, Minn. Price... **\$6.95**

Climax High Box Cart

Adapted for hauling feed (with removable top section), milk cans, lumber, etc. Furnished with or without extension top box frame. Ends and sides held in place by regular end rods, can be removed, leaving platform clear. Steel handle bars firmly bolted to frame and bent upward. Steel wheels: height, 36 in., tires, 1 1/2 inches; steel axle, diameter, 3/4 in. Hardwood box is 9 inches deep; 21 in. wide, 36 in. long. Top box, depth, 7 1/2 inches. Shipping weight of cart without top box, 100 lbs. Top box, 12 lbs.

287C6152—Cart only, with-out top layer... **\$8.75**

287C6154—Top box only. Price... **2.00**

287C6157—With 2-inch tires. Shipped from Saint Paul, Minn. Price **\$12.15**

Shipped from factory near Chicago.

\$8.75

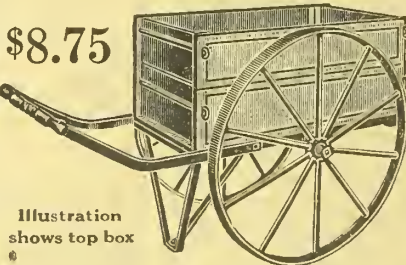
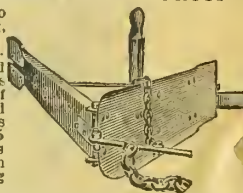


Illustration shows top box

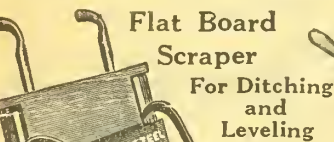
Climax Ditcher and Terracer

Especially adapted to farm use in ditching, terracing, leveling ground, filling tile trenches, clearing snow, etc. Easy and simple to operate. Is adapted to any kind of soil. Cuts a V-shaped ditch with sloping sides at an angle of about 45 degrees. Depth of cut is regulated by the position of driver on running board.

Cutting and anchor blades are made of high carbon steel guide beam of heavy channel steel. Entire machine is at an angle of about 45 degrees. Depth of cut is regulated by the position of driver on running board. Weight, about 300 lbs. Price... **\$49.95**



Shipped from factory near Chicago.



Flat Board Scraper For Ditching and Leveling

For leveling roads, hilly ground, cleaning out and filling ditches, etc. Strongly constructed of seasoned hardwood with plow style handles, smooth finished grips. Cutting blade is of high carbon plow steel (7 gauge) 48 in. wide and 6 1/2 in. deep. Extra strong steel draw bars with good quality chain ball attached. Thoroughly ironed, bolted and braced. Shipping weight, 85 lbs.

287C6288—Price complete... **\$8.65**
Shipped from factory in Ohio.



Tongue Scraper

Especially designed for cutting and cleaning out ditches moving large quantities of dirt, leveling, etc. Extra strong scrapers with tongue. Made of seasoned hardwood.

No. 7 gauge steel blade, width, 4 1/2 in. The draw bars are made of steel and shoes of malleable iron. Hardwood tongue and cross beam thoroughly ironed, bolted and braced. Combination draw pin and wrench. Made in three sizes: 36-inch, 42-inch, and 48-inch.

287C6290—Width, 36 in. Ship. wt., 125 lbs. Price... **\$9.40**

287C6291—Width, 42 in. Ship. wt., 135 lbs. Price... **\$9.55**

287C6292—Width, 48 in. Ship. wt., 130 lbs. Price... **\$9.65**

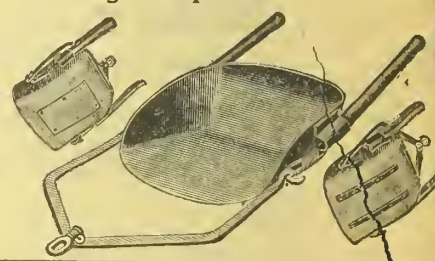
Contractors' Steel Drag Scrapers

Made for heavy work of building, excavation, road making, farm work, etc. Bowl is pressed out of one piece of high carbon steel properly shaped to fill and clean easily. Cutting edge is rounded allowing it to enter ground easily. Double runner scrapers have two runners of hardened steel securely riveted. Double bottom scrapers have an extra bottom of hard steel riveted.

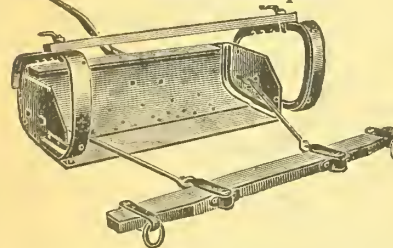
The bowl is made of No. 10 gauge high carbon steel. Heavy steel ball with swivel link on each ball. Handle sockets are steel plates solidly riveted. Climax scrapers may be had without reinforcement or with bottom plate or with runners. Handles are smooth hardwood.

Shipped from factory in Ohio.

Article No.	Prices Plain	With Runners	With Bottom Plate	Cubic Feet	Shipping Weight with Runners
287C6280	\$8.50	\$9.10	\$ 9.80	3	72
287C6281	8.95	9.45	10.15	5	80
287C6282	9.25	9.80	10.50	7	100



Buck Scraper



For making irrigation ditches, leveling land, building levees. Capacities given are actual and do not include what dirt is heaped up or pushed in front of the scrapers. The load may be carried any distance and deposited either in bulk or distributed evenly as the nature of the work may require. High carbon steel body, wrought iron rods and fittings, hardwood draw-bars, cross-brace and handle. Runners can be adjusted to any angle desired.

Article Number	Price	Size No.	Width Inches	Capacity Cubic Ft.	Shoes No.	Req. Horse	Ship Wt. Lbs.
287C6284	\$15.45	6	42	8	3	2	240
287C6285	25.75	7	48	8 3/4	3	3	250
287C6286	29.75	8	60	10 1/2	3	4	310

Shipped from factory in Ohio.



Climax Road Drag \$33.15

For Light Road and Farm Work

Shipped from factory in Ohio.

High carbon hardened steel blades are readily adjustable to any desired angle by means of lever. Frame is flexible allowing each blade to work independently. Frame, heavy angle steel. Blades detachable. Provided with curved runners and will pass over bridges, culverts, etc., without catching.

287C6316—Climax 7-foot, Adjustable and Reversible Drag with 6-inch cutting blade. Ship. weight, 265 pounds. Price... **\$33.15**

287C6317—Climax 8-foot, stationary Drag and Reversible Drag with 6-inch cutting blade. Ship. weight, 315 pounds. Price... **\$36.15**

287C6318—Climax 7-foot stationary Drag without lever, not adjustable, 5-inch cutting blade. Ship. wt., 165 pounds. Price... **\$25.50**

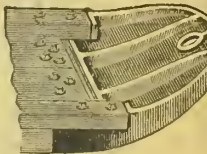
287C6319—All steel doubletrees for either drag. Per set... **5.25**

Stone Boat Head

Every farmer and contractor should have one of these stone boat heads for moving large stones, farm implements, corn fodder, etc. Made of very strong cast iron and well ribbed. Strong enough to resist six times the actual working strain.

To construct stone boat any straight plank can be used. Take three 10-inch boards and fasten with 3/4-inch bolts to the front. Holes are drilled in shoulder to receive the bolts for bottom boards and the side strips. Cast in one piece. Average shipping weight, 60 lbs.

287C6314—Price of stone boat head only without bolts or boards... **\$4.95**
Shipped from factory in Michigan.



Cluster Ropes

For use in thick growths. Made from best steel wire rope. Four 10 foot lengths, each with a rope hook, babbitted securely in the cluster anchor casting.

287C4926—Rope Cluster made of 3/4-in. rope, length of each rope (4 in all) 10 ft. wt. complete 70 lbs. Price... **\$22.50**

287C4927—Rope Cluster made of 3/4-in. rope, length of each rope (4 in all), 10 ft. wt. complete 90 lbs. Price... **\$27.75**

Shipped from factory in Southern Minn.

Stump Puller Rope

High grade especially tempered, carefully assorted wires of No. 1 steel. Furnished any length, 10 feet or over, prices without couplings or fittings.

Article Number	Diameter	Weight, per 100 Feet	Price per Foot
287C4906	3/4-inch	39 pounds	15c
287C4907	7/8-inch	62 pounds	20c
287C4908	1-inch	89 pounds	28c
287C4909	1 1/4-inch	120 pounds	37c
287C4910	1 1/2-inch	158 pounds	48c

Shipped from factory in Southern Minn.

Rope Shortener

Made of cast iron. Takes up slack of pull rope at stump. Can be attached to any point on pull rope.

287C4922—Size, No. 1, for steel rope up to 3/4-inch, weight, 10 pounds... **\$3.95**

287C4923—Size No. 2, for steel rope up to 1-inch, weight, 15 pounds... **\$5.60**

287C4924—Size No. 3, for 1 1/4 and 1-inch steel rope; weight, 27 pounds. Price... **\$6.15**

Shipped from factory in Southern Minn.

Climax Stump Puller

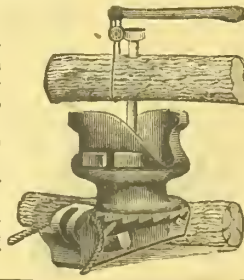
Simplicity is one of the features of our Climax. Few working, few wearing parts. Made low-down to permit a short hitch and allow horses to step over cable. The sweep lift throws the machine in and out of gear so that the rope can be unwound from the drum without having to reverse the sweep.

Light weight increases the value of our Climax over similar stump pullers. Easily and quickly shifted about.

V-shaped iron Drum winds the rope like thread on a spool and preserves its life so that it cannot chafe as rope would on a grooved drum. The first three coils act as a bed, equalizing the pressure to the next three coils. There is no flattening or breaking of the wires. One rope on our V-shaped drum will outwear two ropes on many other styles of stump pullers.

Article Number	Steel Rope		Anchor Loop—	Size Stump Inches	Ship. Wt. Lbs.	Price
	Length Ft.	Diam. In.				
287C4900	30	3/4	5 foot	6	17 1/2	\$28.35
287C4901	40	3/4	5 foot	8	22 1/2	42.50
287C4902	50	3/4	6 foot	15	31.00	56.75
287C4903	60	3/4	8 foot	24	42 1/2	74.65
287C4904	70	1	8 foot	Any size	55.00	93.50

Shipped from factory in Southern Minnesota.



Snatch Block or Doubling Pulley

Hitch rope with slip hook on one end, and a rope hook on the other. Steel frames.

287C4930—No. 1 for ropes up to 3/4 inch, with 10 feet 3/4-inch hitch rope; wt. 60 lbs. Price... **\$13.95**

287C4932—No. 2 for ropes up to 1 in. with 10 ft. 1/2-in. hitch rope; wt., 80 lbs. Price... **\$19.60**

287C4934—No. 3 for rope up to 1 inch with 15 feet 1-inch hitch rope; weight, 110 lbs. Price... **\$25.50**

Shipped from factory in Southern Minnesota.

Rope Couplings

Set consists of a hook connection for one rope end and a slip loop coupling for the other. Prices are for sets without rope.

Article Number	Couplings for Slide	Weight Pounds per set	Price
287C4917	3/4-inch rope	10	\$2.80
287C4918	7/8-inch rope	12	3.40
287C4919	1-inch rope	18	3.90
287C4920	1 1/4-inch rope	21	4.50
287C4921	1-inch rope	30	5.70

Shipped from factory in Southern Minnesota.

Double Point Root Hooks

Especially adapted for light work in brush and grub and intended for use with the smaller macblues.

Not intended for large stump pulling, except where roots are decaying. One size only, of cast steel. Weight, 30 lbs.

287C4936—Price... **\$9.45**
Shipped from factory in Southeastern Minnesota.

Twin Root Hooks

Cast steel, with steel bail for guiding. The hook of the main stump puller rope is connected to wire rope fastening the end.

Weight, 80 pounds. **287C4938** Price... **\$19.95**
Shipped from factory in Southeastern Minnesota.

Anchor Ropes

Used to anchor machine to a stump or tree or for heavy pulling. One end has patent rope hook, the other loop coupling. Length of ropes, 25 feet. High grade steel strand.

Article No.	Size	Weight	Price
287C4912	3/4-inch	30 pounds	\$ 7.95
287C4913	7/8-inch	40 pounds	11.25
287C4914	1-inch	55 pounds	14.00
287C4915	1 1/4-inch	70 pounds	17.70

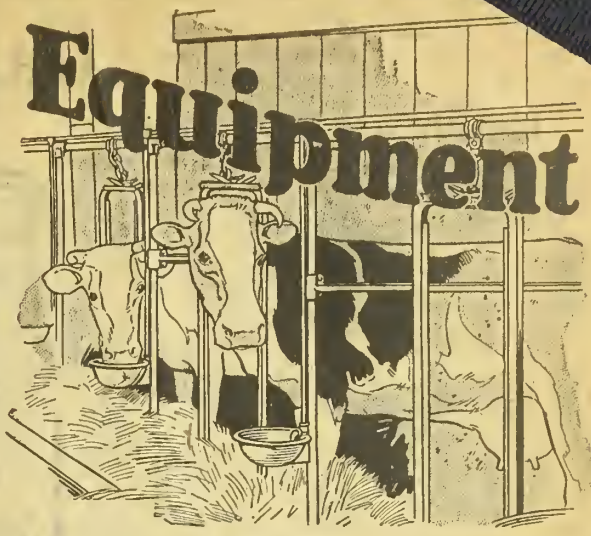
Shipped from factory in Southeastern Minnesota.

Climax Sanitary Barn Equipment

Keep Your Cows Healthy and Contented

The first essential of successful dairy farming is modern sanitary barn equipment. Cows must be kept in comfortable quarters with sanitary feeding and drinking fixtures and proper appliances for carrying litter, etc., all of which makes dairy farming more pleasant and makes for sanitary barn conditions, healthy, contented cows, and greater profits. Climax barn equipment includes a practical line of simple, efficient and convenient devices for aiding in the comfort and cleanliness of your stock. No matter how small your herd may be, it is worth caring for with good barn equipment.

All Climax Barn Equipment on this page shipped from factory in Southern Wisconsin.



Wisconsin Adjustable Steel Stanchions

Made of Steel and Malleable iron. Oil Soaked Maple Wood Linings. Adjustable to 6 1/2, 7 1/2, or 8-inch opening. Chain hanging. Positive lock. Well enameled. With or without guard. Furnished with one eye-bolt, length, 6 inches, for fastening at top. Each stanchion has extension arm to keep it from swinging when open. Fits framework in old barns easily. Weight, without guard, 17 1/2 pounds. Weight, with guard, 19 1/2 pounds. Height, 44 1/2 inches. End of chain to top of chain, 54 1/2 inches.

187C4770—Stanchions with out guard. Price, each, \$3.65
187C4772—Stanchions with guard. Price, each, \$4.25
Lots of 6 or more shipped direct from factory near Chicago.

287C4774—Stanchions without guard. Price, each from factory, \$3.60
287C4776—Stanchions with guard. Price, each from factory, 4.20

Wisconsin Adjustable Wood Bar Stanchions

Oil seasoned Hard Maple Bars. Pressed Steel Ends. Malleable Iron Latch. Adjustable to 5, 6, 7 or 8-inch opening, furnished with or without guard. Eye-bolt, length, 6 inches, furnished to attach stanchion at top, and with short length of chain at bottom of stanchion gives them much more flexibility than pivot style. Fits framework in old barns easily. Weight, without guard, 16 pounds; weight with guard, 18 pounds. Height, 44 1/2 inches. End of chain to top of chain, 54 1/2 inches.

187C4778—Wood Bar Stanchion without guard. Price, each, \$2.95
187C4780—Wood Bar Stanchions with guard. Price each, \$3.55
Lots of 6 or more shipped direct from factory near Chicago.

187C4782—Wood Bar Stanchions less guard. Price each from factory, \$2.90
187C4784—Wood Bar Stanchions with guard. Price each from factory, \$3.50

Climax Manger Partitions

Stiff boiler plate, complete with clamps for fastening to all. Ship. wt., 14 pounds.

87C4791—Climax Manger Partition. Price, each, \$3.25

Wisconsin Steel Stalls

Stalls are made of 1 1/2-inch tubing. Width, 3 feet 6 inches. Height, 5 feet 6 inches. Steel partition: Height, 36 inches from floor, length, 3 feet 3 inches from frame. A file a file on clamps connect all joints. Each stall consists of one cross head, one upright center, one upright center, one upright center. Friction, one end stanchion 287C5956 and necessary bolts and clamps. Regularly furnished for concrete floors.

87C4786—Steel Stall complete with steel, wood-lined anchorage and cow guard. Ship. wt., about 64 lbs. Price, \$10.95
87C4787—End Section, including one upright and one all partition for finishing row. Ship. wt., 25 pounds. Price, \$4.35
87C4788—Stall Partition only. Triple Bend, enameled, slip wt., 15 lbs. Price, each, \$2.45
87C4789—Malleable iron flange for stall or partition to be used on wood floors. Price, each, 67c
87C4790—6-inch Hook Bolt. Ship. wt., 1 lb. Price, each, 26c

Extra Hangers, Hanger Extensions and Spring Track Suspenders

287C4722—Extra Hanger only. Ship. wt., 1 1/2 lb. Price, each, 48c
287C4724—Extra Hanger with 12-inch Hanger Extension. Ship. wt., 1/2 lb. Price, each, 52c
287C4726—Extra Hanger with 18-inch Hanger Extension. Ship. wt., 3/4 pound. Price, each, 58c
Spring Track suspender. Used at Splice Connections on rod tracks of 100 feet or over, to prevent sagging.
37C4728—Spring Track Suspender. Ship. wt., about 2 1/2 pounds. Price, each, \$3.65

Rail and Rod Track Splice Connection

Used when connecting rod to rail track. Rod track should be attached to sill or rails using tension bolts. It requires a good strong support at least 10 feet back of the connection. When ordering rod track provide at least 10 feet of extra track if you use this connection. May be used for either right or left. Ship. wt., 1 1/4 pounds.

87C4730—Splice connection. Price, each, \$2.10

Rail Track Gate Plain Two-Way Rail Track

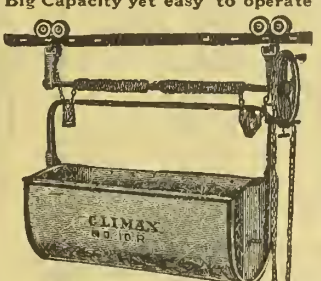
Removable section of rail track used where track passes rough door, or where two rail tracks cross. Ship. wt., about 7 lbs.

87C4732—Rail Track Gate. Price, each, \$1.35

For switching from one rail track to another, also used as a gate. Ship. wt., 8 lbs.

287C4734—Plain Two-way Switch. Price, each, \$2.65

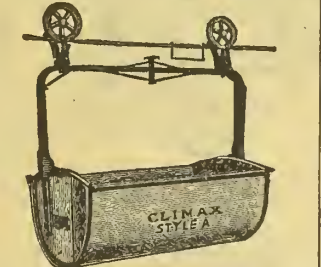
10 Bushel Climax Raise and Lower Litter Carrier



The 14-inch wheel gives tremendous leverage. Friction brake allows the carrier to be lowered fast or slow. Tub made of heavy galvanized steel reinforced with 1-inch angle iron. Carriers lock at both ends. Hand trip for dumping. Tub 44 inches long, 26 inches wide, 18 inches deep. Distance from top of rail track to bottom of Litter Carrier box, locked up, 44 inches; let down 92 inches. Carrier can be used on rail track only. Shipping weight, 145 pounds.

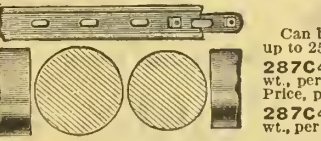
287C4704—10 bu. Raise and Lower Carriers. Price, each, \$45.95

7 Bushel Climax Style "A" Adjustable Litter Carrier



Can be used on both rigid and rod track. 7-in. wheels, roller bearing. Bucket dumps either way, latches at both ends. Carrier trips automatically. Bucket made of galvanized steel, reinforced, absolutely tight. Bucket, 40 inches long, 22 inches wide, 16 inches deep. Shipping weight, 85 pounds.

287C4700—Climax 7 bu. Adjustable Litter Carrier with trip. Price, each, \$28.65



Holes punched every few inches for track hangers. Track may be bent cold to make various curves, 6 and 12 foot lengths only, one coupling and bolts are furnished with each length of track. Price includes track hanger with 18-inch extension for every three feet of track. Ship. wt., per foot, 1 1/4 lbs.

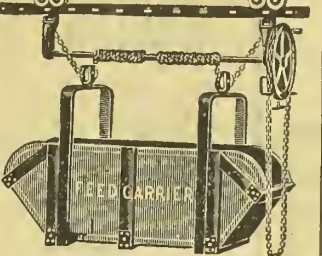
287C4716—Steel Rail Track including Connecting Plate and Bolt. Price, per foot, 30c

Quick Detachable Water Bowls

Easy to operate. The slightest pressure of the cow's nose opens the valve and allows water to flow as fast as cow can drink it, as soon as she raises her nose water stops instantly. No chance to overflow. Quickly detached for cleaning. Bowl is made of iron, 8 1/2 x 8 1/2 x 5 inches and has clamp for fastening to steel stall or may be screwed to wood upright. Tapped for 3/4-in. pipe. (Pipe not furnished).

287C4802—Bowl with overfed connection. Ship. wt., 12 lbs. Price, each, \$4.15
287C4803—Bowl with underfed connection. Ship. wt., 12 lbs. Price, each, \$4.15
Shipped from factory in Southern Wisconsin.

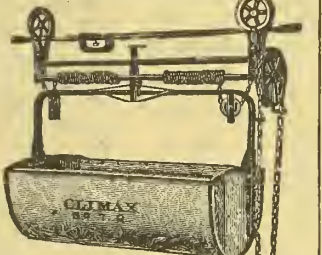
Climax Feed and Ensilage Carrier



The raise and lower features are the same as the Climax Litter Carriers, without the automatic dump. One end of the box can be lowered so that the feed may be easily scooped out. Box is 70 in. long, 24 in. wide, 10 inches deep. Cap, 15 in. high. Sides of box 2-in. plank, bottom and ends 20 gauge, galvanized steel.

287C4706—Climax Feed and Ensilage Carrier with raise and lower ball. Shipping weight, 210 lbs. Price, each, \$45.90
287C4708—Climax Feed and Ensilage Carrier same as above but without Raise and Lower device. Ship. wt., 160 lbs. Price, each, \$35.25

7 Bushel Climax Raise and Lower Litter Carrier



For Rod or Rail Track
Wheels, 7 in. with roller bearings, 14-inch raise and lower wheel. Friction brake allows carrier to be lowered fast or slow.

Tub is made of heavy galvanized steel reinforced. Carrier locks at both ends. Size of tub 40 inches long, 22 inches wide and 16 inches deep. Distance from top of rail track to bottom of litter carrier box when locked up, 42 inches, when let down 92 inches. Shipping weight, 135 pounds.

287C4702—Raise and Lower Carrier with trip. Price, each, \$42.45

Steel Rod Track

Can be twisted and looped cold. Single lengths up to 250 feet.

287C4712—Rod Track 1 1/2 in. diam. Ship. wt., per ft. 3/4 lb. Price, per ft., 7c
287C4714—Rod Track 1 3/4 in. diam. Ship. wt., per ft. 1 1/4 lb. Price, per ft., 8c

Steel Rail Track

Holes punched every few inches for track hangers. Track may be bent cold to make various curves, 6 and 12 foot lengths only, one coupling and bolts are furnished with each length of track. Price includes track hanger with 18-inch extension for every three feet of track. Ship. wt., per foot, 1 1/4 lbs.

287C4716—Steel Rail Track including Connecting Plate and Bolt. Price, per foot, 30c

Climax Post Brackets

Carries rail track into yard. Hangers are mounted on 2x8 plank supported by posts set about 10 feet apart.

287C4760—Climax Post Bracket complete with Bolts. Ship. wt., about 9 lbs. Price, each, \$2.55

287C4718—End Loop Clamp for Rod Track

Ship. wt., 1 lb. Price, each, 60c

287C4720—Track Cross Tie

Prevents tracks at intersections from sagging. Ship. wt., 1 lb. Price, each, 72c

287C4793—Stanchion Anchor

To be set in cement floor for fastening stanchion. Ship. wt., 3/4 pound. Price, each, 68c

287C4792—Stanchion Anchor

For securing stanchion to wood floor. Ship. wt., 1/2 pound. Price, each, 37c

Climax Ensilage Trucks

Capacity 16 Bushels
A labor-saving method of handling silage and feed in barns. Big enough to feed 20 to 24 cows at one time. Riveted and bound with iron. Heavy galvanized sheet steel lining in bottom. Body made of seasoned white pine. Two large 14-inch side wheels 2-inch face, axle 1-inch steel. 7-inch caster wheel on end. Height of box on outside, 33 inches, height from floor, 42 inches, length over all, 72 inches, width of box, 30 inches over all, inside, 26 in.; outside of wheel, 36 inches. Shipping weight, 200 lbs.

287C4795—Climax Ensilage Truck. Price, \$31.35

Angle Curve

Used to divert a wire track from straight line to avoid buildings, posts, etc.

287C4740—Angle Curve with eye-bolt, and 3 feet of flexible wire cable. Ship. wt., 4 lbs. Price, each, \$2.65

Corner Curve or Post Switch

For turning a corner on rod track inside the barn or at anchor post to switch from one track to the other when two tracks are run to same post. Curve and braces are flexible and can be bent to connect tracks at any angle—ship. wt., each 25 pounds.

287C4742—Corner Curve or Post Switch. Price, each, \$4.95

287C4746—Post Tension Bolt

1/2 in. x 30 in. with nut and washer. Ship. wt., each 5 lbs. Price, each, \$1.70

287C4748—Barn Tension Bolt

1/2 in. x 15 in. with nut and washer. Ship. wt., each 3 lbs. Price, each, \$1.45

Extra Trip Blocks

Shipping weight, each 2 1/2 lbs.

287C4750—Trip Blocks for Rod Track. Price each, 90c
287C4752—Trip Block for Rail Track. Price, each, 90c

Climax Automatic Rail Track Switch

Two-way and Three-way—either right or left hand. Shifting mechanism operated by chains through pulleys. Stop automatically closes track not in use. There is no chance for carrier to run off the track. Illustration shows Three-way switch.

287C4754—Automatic Two-way Switch. Ship. wt., 25 pounds. Price, each, \$7.35

287C4756—Automatic Three-way Switch

Ship. wt., 29 pounds. Price, each, \$8.95

Climax Swinging Crane Booms

The most practical device for supporting rail track outside of barn; leaves barn yard unobstructed. Built of 2 1/2 x 2 1/2 angle steel, comes complete with rail track, hangers, hinges and guy wires.

287C4796—Swinging Boom 30 ft. Ship. wt., about 275 pounds. Price, each, \$56.65
287C4797—Swinging Boom 36 ft. Ship. wt., about 350 pounds. Price, each, \$67.35
287C4798—Swinging Boom 39 ft. Ship. wt., about 425 lbs. Price, each, \$73.90

Climax Post Anchor Loop

Complete with anchor bolt and turnbuckle. Made of 1 1/2-inch rod track. Loop to go over post and improved turnbuckle with tensin bolt, we connecting link and anchor bolt to go through buried log (post and log not included). For posts up to 20 feet high. Ship. wt., about 30 pounds.

287C4736—Post Anchor Loop. Price, each, \$4.55

Wall Bracket

Fastens end of rail track-support plank to building. Complete with bolts. Ship. wt., 2 lbs.

287C4758—Wall Bracket. Price, per pair, 75c

Splicing Plate

Connects 2x8 in. planks used on Post Brackets. Complete with bolts. Ship. wt., 2 lbs.

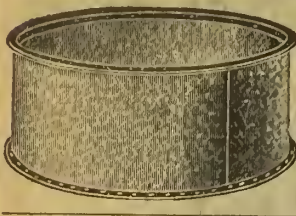
287C4759—Splicing Plate. Price, each, 75c

Measurements are outside measurements. Capacities are standard ratings based on outside measurements, and 31 1/2 gallons per barrel.

Galvanized Tanks

NOTE: Because of the unusual market conditions, the prices on this page are subject to change. If market declines, we will reduce prices on your order.

Round Steel Stock Tanks



For Use in Stock Watering or Storage Tank
Always shipped set up if not ordered knocked down. Made regularly of No. 20 U. S. Standard Gauge Galvanized Steel, lock seams thoroughly riveted and soldered. Used for ordinary stock watering this weight steel is sufficiently heavy in any size. We would suggest using the shallow tanks for small stock to eliminate danger of drowning.

Art. No.	Price	Diam.	Height	Capacity	Shlp. Wt.
287C6664	\$10.15	3 ft.	2 ft.	3 1/2 bbls.	50 lbs.
287C6666	12.20	4 ft.	2 ft.	6 bbls.	89 lbs.
287C6668	20.85	4 ft.	2 1/2 ft.	7 bbls.	96 lbs.
287C6672	20.50	4 ft.	4 ft.	12 bbls.	127 lbs.
287C6674	16.70	5 ft.	2 ft.	9 1/2 bbls.	115 lbs.
287C6680	20.65	5 ft.	2 1/2 ft.	12 bbls.	129 lbs.
287C6682	20.35	5 ft.	4 ft.	14 bbls.	135 lbs.
287C6688	20.35	6 ft.	2 ft.	14 bbls.	135 lbs.
287C6688	21.95	6 ft.	2 1/2 ft.	17 bbls.	150 lbs.
287C6688	35.35	6 ft.	3 ft.	20 bbls.	176 lbs.
287C6688	32.20	6 ft.	4 ft.	27 bbls.	220 lbs.
287C6688	38.60	6 ft.	5 ft.	34 bbls.	260 lbs.

Round Shallow Hog and Sheep Watering Tanks.					
287C6690	\$8.95	4 ft.	1 ft.	94 gals.	60 lbs.
287C6691	11.45	5 ft.	1 ft.	147 gals.	80 lbs.
287C6692	15.85	6 ft.	1 ft.	211 gals.	110 lbs.

For 18-gauge, add 30 per cent to 20-gauge prices. For 16-gauge, add 60 per cent to 20-gauge prices. Shipped from factory in Northern Indiana.

Steel Wagon Tanks

Shipped Set Up



A Strong Durable Tank for Water Hauling, Made of No. 20 U. S. Standard Gauge Galvanized Steel.

Bottom and sides are lock-seamed and soldered together. Must be set on planks from bolster to bolster. Have special bottom joint same as our Round End Tanks. Four-foot and 6-foot sizes are also desirable for spraying.

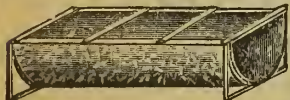
The cover is made water-tight and provided with manhole, diameter 14 inches and a raised flange, which prevents the water from splashing over the tank. A bulk head or splash board, inside. Six-foot tanks furnished with one side brace; 8-foot, two braces; and 10-foot, three side braces on each side. One-inch exhaust hose, fitted with lock nuts and nipple for attaching hose or pipe at rear.

Art. No.	Price	Width	Hght.	Length	Capacity	Weight
287C6694	\$15.25	2 ft.	2 ft.	4 ft.	3 1/2	85 lbs.
287C6695	19.35	2 ft.	2 ft.	6 ft.	5 1/2	120 lbs.
287C6696	23.40	2 ft.	2 ft.	8 ft.	7 1/2	153 lbs.
287C6697	26.95	2 1/2 ft.	2 ft.	8 ft.	9 1/2	168 lbs.
287C6698	29.65	3 ft.	2 ft.	8 ft.	12	190 lbs.
287C6699	34.85	3 ft.	2 ft.	10 ft.	14	236 lbs.

Shipped from factory in Northern Illinois.

Oval Steel Watering Troughs

\$17.85



Popular Stock watering tank made of 20 gauge gal. steel. Heads flanged outward and fastened to the sides with

a plate of band iron on each side of flange, has steel frame or truss at either end so that it can be set on the ground without providing timbers or platform, all riveted together. Each tank supplied with braces across top.

Art. No.	Price	Width	Depth	Length	Capacity	Weight
287C6704	\$17.85	2 1/2 ft.	18 in.	10 ft.	8 bbls.	135 lbs.
287C6705	15.25	2 1/2 ft.	18 in.	8 ft.	6 bbls.	105 lbs.
287C6706	11.40	2 ft.	12 in.	10 ft.	5 bbls.	82 lbs.
287C6707	11.65	1 1/2 ft.	14 in.	10 ft.	5 bbls.	80 lbs.
287C6708	10.35	2 ft.	12 in.	8 ft.	4 bbls.	70 lbs.
287C6709	21.55	3 ft.	24 in.	10 ft.	13 bbls.	150 lbs.

Shipped from factory in Northern Indiana.

Square End Steel Tanks

\$10.75



Always shipped set up if not ordered knocked down. Made of No. 20 U. S. Standard Gauge Steel. All tanks 6 feet long furnished with one

angle brace across top and one brace each side, 8 ft. In length furnished with one angle brace across the top and two angle braces on each side; on 10-ft. tank two angle braces across the top and three on each side.

Art. No.	Price	Width	Height	Length	Capacity	Weight
287C6712	\$10.75	2 ft.	2 ft.	4 ft.	3 1/2 bbls.	78 lbs.
287C6713	13.95	2 ft.	2 ft.	6 ft.	5 1/2 bbls.	108 lbs.
287C6714	18.90	2 ft.	2 ft.	8 ft.	7 1/2 bbls.	140 lbs.
287C6715	20.85	2 1/2 ft.	2 ft.	8 ft.	9 1/2 bbls.	146 lbs.
287C6716	20.45	2 1/2 ft.	2 1/2 ft.	8 ft.	11 1/2 bbls.	167 lbs.
287C6717	26.50	3 ft.	2 ft.	8 ft.	15 bbls.	154 lbs.
287C6718	26.50	3 ft.	2 ft.	8 ft.	15 bbls.	183 lbs.
287C6719	25.35	3 ft.	2 ft.	10 ft.	14 bbls.	195 lbs.
287C6720	29.85	4 ft.	2 ft.	10 ft.	19 bbls.	225 lbs.

Shipped from factory in Northern Indiana.

Underground Gasoline Storage Tanks

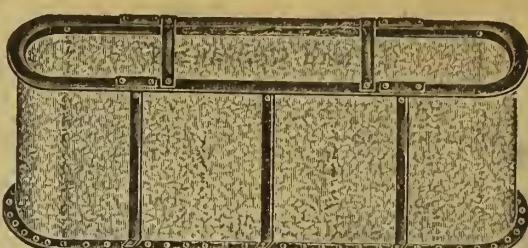
18-Gauge Galvanized Steel

Built expressly for the purpose of storing gasoline underground. Soldered and riveted with greatest care. Heads have turned edges of steel, four ply, rolled and pressed. Made of the best quality of galvanized steel and of first class workmanship. Furnished with three pipe connections—1 inch, 3/4 inch and 2 inch regular. Can furnish other sizes up to 2 inches, same price. If 16 gauge instead of 18 gauge steel is required add 30% to prices quoted below.

Article Number	Price	No. of Gauge	Diam. Inches	Length Inches	Gals. Cap.	Shlp. Wt. lbs.
287C6730	\$15.20	18	24	30	58	42
287C6731	17.15	18	24	36	70	50
287C6732	23.95	18	34	30	117	70
287C6733	26.60	18	34	36	140	80
287C6734	39.45	16	34	42	165	90
287C6735	49.45	16	40	42	225	110
287C6736	49.45	16	40	48	260	120
287C6737	82.45	16	40	72	390	190

The following tank made in 14 gauge galvanized steel only. 287C6739—Diam. 40 inches; length, 95 inches; capacity, 500 gallons. Shlp. wt., 333 pounds. Price, \$126.50. Shipped from factory in Northern Indiana.

Steel Round End Tanks



Shipped set up if not ordered knocked down. Made of No. 20 U. S. Standard gauge steel. Sides and bottom are lock seamed and soldered, making the strongest construction possible. Tube Top.

Art. No.	Price	Width	Height	Length	Capacity	Weight
287C66630	\$8.95	3 ft.	2 ft.	4 ft.	3 bbl.	65 lbs.
287C66632	13.30	3 ft.	2 ft.	6 ft.	4 1/2 bbl.	90 lbs.
287C66634	15.85	2 ft.	2 ft.	8 ft.	6 1/2 bbl.	120 lbs.
287C66636	17.95	2 ft.	2 1/2 ft.	8 ft.	8 bbl.	147 lbs.
287C66638	17.90	2 1/2 ft.	2 ft.	8 ft.	8 bbl.	147 lbs.
287C66640	19.40	3 ft.	2 ft.	8 ft.	9 1/2 bbl.	150 lbs.
287C66642	22.25	3 ft.	2 1/2 ft.	8 ft.	12 1/2 bbl.	155 lbs.
287C66644	22.65	3 ft.	3 ft.	8 ft.	15 1/2 bbl.	174 lbs.
287C66646	22.65	3 ft.	3 ft.	10 ft.	15 1/2 bbl.	190 lbs.
287C66648	22.45	3 ft.	2 1/2 ft.	10 ft.	16 1/2 bbl.	205 lbs.
287C66650	42.70	4 ft.	2 ft.	10 ft.	16 1/2 bbl.	205 lbs.
287C66654	43.85	4 ft.	2 ft.	16 ft.	27 1/2 bbl.	320 lbs.

Shallow Tanks for Hogs, Sheep or Other Small Animals

Art. No.	Price	Width	Height	Length	Capacity	Weight
287C6656	\$6.45	18 in.	12 in.	4 ft.	40 gal.	50 lbs.
287C6658	11.25	18 in.	12 in.	8 ft.	80 gal.	90 lbs.
287C6659	13.20	24 in.	12 in.	8 ft.	80 gal.	65 lbs.
287C6660	15.40	24 in.	12 in.	10 ft.	140 gal.	100 lbs.
287C6661	7.90	24 in.	18 in.	10 ft.	210 gal.	140 lbs.

For 18-gauge, add 30 per cent to 20-gauge prices. For 16-gauge, add 60 per cent to 20-gauge prices.

Covers and Connections for Tanks.

287C6820	1/4, 1 or 1 1/2 in. pipe connections. State size	\$0.50
287C6822	For 1/2 or 3/4 in. faucet. State size. Extra	1.65
287C6824	For 1-inch faucet, add	2.80
287C6826	Hinged Cover, per square foot	.33

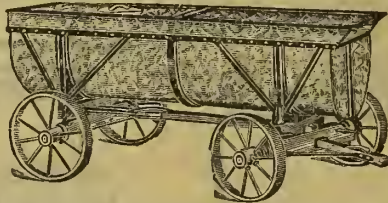
Shipped from factory in Northern Indiana.



Rust-Resisting Lock Seams are used in all the small tanks, and in the riveted seams of the large tanks, special tinners rivets are used, thus making our tanks as near rust-proof as it is possible to make them because no liquid can come in contact with the black iron.

Threshermen's Wagon Tank

Made of 20-Gauge Galvanized Steel



For transportation of water, oil and other liquids there is no better tank made at anywhere near our price.

It is carried on wooden frame with cross sills notched to fit bolster. Iron braces extend up sides from cross sills. Has galvanized flange extending up 6 inches high around top of tank, making it possible to carry buckets, tools, etc., without danger of falling off. It is fitted with covered manhole near center. Front of tank and frame are so constructed as to form driver's seat with foot rest. When ordering be sure to give width of bolster between standards.

Art. No.	Price	Depth	Width	Length	Weight	Capacity
287C6700	\$46.45	2 ft.	3 ft.	8 ft.	310 lbs.	9 1/2 bbl.
287C6701	50.75	2 ft.	3 ft.	10 ft.	370 lbs.	12 bbl.
287C6702	33.35	28 in.	3 ft.	10 ft.	410 lbs.	15 bbl.

For 18-gauge steel, add to above prices, 30 per cent. For 16-gauge steel, add to above prices, 60 per cent. Shipped from factory in Northern Indiana.

Galvanized Steel Dipping Tank

For Dipping Sheep and Hogs



The tank is placed in the ground so that the animals can be driven in and out. Heavy angle iron braces. The incline allows the animals to walk out quickly and easily. 6-ft. tank has 1 side brace; 8-ft., 2 and 10-ft., 3 braces, like picture. Special bottom joint constructed same as oil round end tanks. All sizes: Width at bottom, 1 ft., width at top, 2 ft. Length at bottom of all sizes 2 ft. shorter than length of top.

Art. No.	Price	Height	Length, Top	Weight
287C6722	\$18.95	3 ft.	6 ft.	120 lbs.
287C6723	23.90	3 ft.	8 ft.	153 lbs.
287C6724	27.85	4 ft.	8 ft.	190 lbs.
287C6725	30.50	4 ft.	8 ft.	196 lbs.
287C6726	34.25	4 ft.	10 ft.	233 lbs.

287C6728—Galvanized steel Drip Board; length, 8 ft., and the proper width for tank ordered. Weight, 13 lbs. Price, \$3.95. Shipped from factory in Northern Indiana.

Round Steel House Tanks with Tight Covers



For general use around the house or farm for holding water, mixing stock food or as swill and garbage can and for many purposes that a water proof tank is needed. The sides and bottoms are double seamed together, all seams locked and securely soldered. Made of No. 20 Standard Gauge, galvanized steel. Covers, with center handle, included with each tank. Always shipped set up.

Art. No.	Price	Diam.	Height	Capacity	Weight
287C6742	\$4.95	20 in.	20 in.	27 gals.	20 lbs.
287C6743	5.45	20 in.	24 in.	32 gals.	22 lbs.
287C6744	5.75	24 in.	24 in.	47 gals.	26 lbs.
287C6745	6.95	30 in.	24 in.	73 gals.	34 lbs.
287C6746	7.95	30 in.	30 in.	92 gals.	40 lbs.
287C6747	10.35	30 in.	36 in.	110 gals.	50 lbs.
287C6748	11.76	36 in.	36 in.	158 gals.	60 lbs.
287C6749	15.50	36 in.	48 in.	211 gals.	80 lbs.

Shipped from factory in Northern Indiana.

Round Steel Storage Tanks

Made of 20 gauge galvanized steel. Riveted and Soldered Seams. Always shipped knocked down.

In shipping these tanks knocked down, they are all first put up in the shop and as much of the work finished as possible. All holes are punched. It is seldom that more than two joints are put together at destination. Solder and rivets also full instructions, accompany each tank, so that it is simple and easy to set them up. On the larger sizes we do not recommend less than No. 18 gauge. Pipe connections, covers and faucets, extra, same as for round end stock tanks. Prices are for 20 gauge steel.

Art. No.	Diam.	Height	Cap.	Weight	Price
287C6758	6 ft.	6 ft.	41 bbls.	270 lbs.	\$44.
287C6759	6 ft.	8 ft.	54 bbls.	360 lbs.	54.
287C6760	8 ft.	5 ft.	60 bbls.	410 lbs.	59.
287C6761	8 ft.	6 ft.	72 bbls.	475 lbs.	65.
287C6762	8 ft.	8 ft.	96 bbls.	520 lbs.	82.
287C6763	10 ft.	8 ft.	150 bbls.	700 lbs.	107.
287C6764	10 ft.	10 ft.	180 bbls.	850 lbs.	119.

For 18 gauge steel instead of 20 gauge add 30%. For 16 gauge steel instead of 20 add 60%. Shipped from factory in Northern Indiana.

Half Round Wood Stock Tanks



Our half round stock tank is made of 1 1/2 inch Clear Fir, has Cross Cleats with iron hoops and nuts to take up shrink. Is much used by stockmen especially in the northern climates because it will not rot or corrode. Built to withstand the severest weather conditions. Considered much superior to common square tank and will last long. Shipped knocked down.

Article Number	Lgh. Feet	Height Feet	Depth Ins.	No. of Hoops	Cap. Barrels	Wt. About	Price Comp.
287C6915	6	3	18	3	5	165	\$13.
287C6916	8	3	18	4	8 1/2	230	15.
287C6917	10	3	18	4	10	280	21.
287C6918	12	3	18	5	12	325	24.
287C6920	14	3	18	5	14	365	27.
287C6921	16	3	18	5	14	365	27.
287C6922	8	3 1/2	21	4	9	220	16.
287C6923	10	3 1/2	21	4	11 1/2	270	20.
287C6924	12	3 1/2	21	4	13 1/2	320	25.
287C6925	14	3 1/2	21	5	16	380	30.
287C6926	16	3 1/2	21	5	18 1/2	420	34.
287C6927	8	4	24	3	12	250	19.
287C6928	10	4	24	4	15	300	23.
287C6929	12	4	24	4	18	360	28.
287C6930	14	4	24	5	21	450	36.
287C6931	16	4	24	5	24	500	42.

Shipped from factory in Minneapolis.

Round Wood Storage Cistern

Always shipped knocked down. Made of Fir or Cypress. All made with straight staves. Steel hoops. Hoops fitted

A Gasoline Storage Tank Soon Pays for Itself

Climax Steel Barrel

Made of Black and Galvanized steel.

A strongly made steel barrel that will withstand the roughest usage. The seams are welded, rolled chimneys, and no solder is used in their construction. Danger of leaking is eliminated. Stands an interior air pressure of 10 lbs. to square inch. Draw-off faucet with each barrel.

This barrel is ideal for storing oil or for having a large quantity always ready for use. For transporting oil by wagon or truck this barrel will give great satisfaction. The shipping barrel has 1/4 inch thick rolling ring reinforcements, making it best for railroad shipping. Small storage barrels, listed below, are 20 gauge. Price is low.



Article Number	Style Barrel	Price Black Steel	Price Galv. Steel	Cap Gal.	Gauge	Shp. Wt. lbs.
187C6880	Storage	\$9.25	11.25	55	18	56
187C6881	Shipping	11.75	12.55	55	16	62

Small black storage barrels, 20 gauge
 187C6882—Capacity, 15 gal. Weight, 14 lbs. **\$4.95**
 Each
 187C6883—Capacity, 30 gal. Weight, 29 lbs. **6.75**
 Each

Gasoline Storage Tank

\$7.95

A practical storage tank of heavy galvanized iron, reinforced with wood base under the metal bottom. A 4-inch screw filler cap and ground key brass lock faucet make it an ideal addition to your garage or farm equipment. Painted with heavy varnish put, and brushed, not dipped.

Art. No.	Cap. Gal.	Wt. lbs.	Price
287C6885	60	50	7.95
287C6886	110	65	10.75

287C6884—Barrel pump. Steel tubing, brass valves. Fits 1 1/2 or 2 inch hung. 19 lbs. **\$6.75**
 Price.....
 Shipped from factory near Chicago



Gasoline Tank With Pump



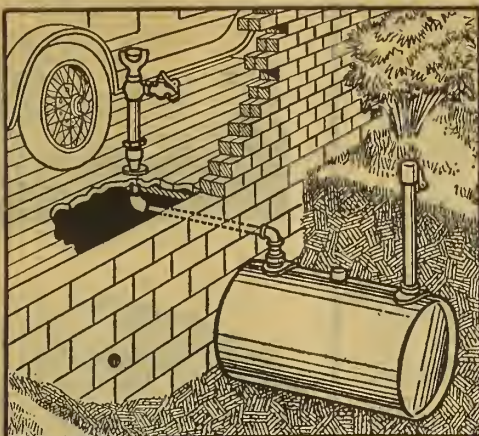
Here is an excellent family or store oil tank. Dependable force pump 1 1/4 inches in diameter. No. 26 galvanized iron in bottom and sides. Wood bottom under metal. Tin hood, portable pump, which may be used for pumping oil from barrel into tank. Price includes pump.

No.	Gal.	Weight	Price
287C6887	60	50	\$8.95
287C6888	110	65	12.40

287C6889—Transfer Pump only for pumping from barrels into tanks, wt., 7 lbs. Price, Each..... **\$2.55**
 Shipped from factory near Chicago

Underground Gasoline Storage Outfit

\$39.95 For 65 Gallon Size



For economy and absolute safety a well-equipped farm or garage cannot be without proper handling facilities for gasoline. We show here a dandy little outfit that can be installed without any trouble. The pump works very easily and will fill an automobile tank quickly. The faucet can be locked, preventing tampering or theft.

Outfit consists of a heavy galvanized steel welded tank pump, 2 inch filler pipe 24 inches long, 10 feet of 3/4 inch galvanized pipe with elbow and street elbow and one piece of 1/4 inch pipe 30 inches long. Tank may be installed under floor of garage or in ground outside. The suction lift should not be greater than 30 feet.

Tank is equipped with 2-inch flanged opening for filler pipe, a 3/4-inch opening for suction pipe and 1-inch opening for vent pipe.

You will find the pump simple, powerful and durable, equipped with brass cylinder, piston rod, valve and ground key hinh with hose connection.

Every outfit carries the complete indorsement of the National Board of Fire Underwriters, your guarantee that this is a model apparatus, fulfilling legal requirements.

Outfit	Size Tank Gallons	16 Gauge	14 Gauge	12 Gauge	Ship. wt. 14 Gauge
287C6903	65	\$39.95	\$42.35	\$45.55	168 lbs.
287C6904	120	48.90	51.60	57.90	208 lbs.
287C6905	165	.....	58.95	66.85	262 lbs.
287C6906	250	.....	68.75	83.61	318 lbs.
287C6907	400	.....	.....	98.50	520 lbs.

287C6908—Gasoline pumps when ordered separately. **\$12.95**
 Shp. wt., 20 lbs. Each.....
 Shipped from factory near Chicago.

Gasoline Wagon Tanks

\$16.55

For Transportation on Wagon or for City Delivery
 Designed particularly for hauling any kind of oil on a wagon or truck. No. 16 gauge galvanized steel. Seams all riveted with tiny, closely-set rivets. Heads are turned, edges of steel, four-ply rolled and pressed. Has 2-inch lock nut with plug on top for filling. One-inch faucet at end for drawing off contents. For greater capacity, use two tanks instead of one.

Art. No.	Price	Diam.	Length	Capacity	Weight
287C6766	\$16.55	12 in.	6 ft.	42 gal.	50 lbs.
287C6767	21.95	18 in.	6 ft.	72 gal.	75 lbs.
287C6768	28.90	24 in.	6 ft.	140 gal.	110 lbs.
287C6769	38.25	30 in.	6 ft.	220 gal.	150 lbs.
287C6770	45.60	30 in.	8 ft.	290 gal.	190 lbs.

Shipped from factory in Northern Indiana.

3-in-1 Oil Storage Tank



For lubricating oil, kerosene or gasoline. Removable brass strainer in funnel. Evaporation prevented. One-inch wood bottom under metal. Draw-off faucet with lock lever handle for padlock. Made of 26 gauge galvanized steel and nicely painted red. Shipped in strong crate.

Article Number	Price	Gals.	Wt. Lbs.
287C6900	\$7.85	30	48
287C6901	8.95	60	64
287C6902	13.45	110	14

Shipped from factory near Chicago.

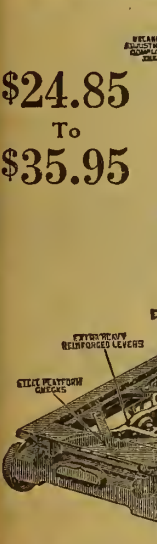
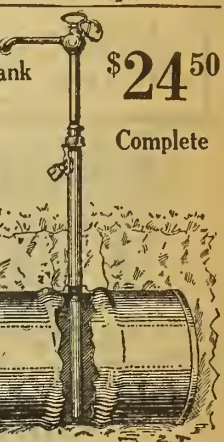
Underground Gasoline Tank Outfit

\$24.50

An ideal, inexpensive gasoline storage outfit which affords protection against fire, evaporation and theft. Outfit consists of 55-gallon, 18 gauge galvanized steel barrel with pump of proper length, 2-inch filler pipe with cap that can be locked. One extra lock cap for filler pipe when pump is taken out.

287C6935—Complete outfit, weighs about 65 pounds. **\$24.50**
 Shipped from factory near Chicago.

187C6884—Barrel pump only, as described above. Weight 19 lbs. Each..... **\$6.75**
 Shipped from stock at Chicago.



\$24.85
 To
\$35.95

Climax Portable Platform Scales

Scales that will give lasting satisfaction. Built in compliance with all State laws. Hoop and platform bearings all self-aligning. Brass beam graduating from 1/2 to 100 lbs. on two larger sizes and from 1/4 to 50 lbs. on two smaller sizes.
 287C6340—Will weigh to 600 pounds on platform size, 17x23 inches. **\$24.85**
 Shipping weight, 150 lbs.
 287C6341—Will weigh to 800 pounds on platform size, 17x23 in. **\$26.70**
 Shipping weight, 155 lbs.
 287C6342—Will weigh to 1000 pounds on platform size, 17 1/2 x 26 inches. **\$28.50**
 Shipping weight, 160 lbs.
 287C6343—Will weigh to 1200 pounds on platform size, 17 1/2 x 26 inches. **\$35.95**
 Shipping weight, 170 lbs.
 287C6354—For Double in place of Single Beam. Either size, Add..... **\$3.95**
 287C6356—For Bag Back on either size. Add..... **\$3.95**
 At prices given above all models are equipped with tool steel pivots and hard chilled bearings. Sliding poise of brass.
 Shipped from factory near Chicago.

50-Pound Test Weight



This 50-pound test weight, sealed by an authorized sealer of weights, is a requisite of proper scale adjustment. For testing portable or wagon scales. Tells if your scale is weighing accurately. Cast iron.
 287C6388—Shipped from factory near Chicago..... **\$6.25**

Peerless Portable U. S. Standard Weightless Scale

\$29.95

A portable scale that will pass inspection in any state. No loose weights. Full capacity beam. Hard chilled bearings. Tool steel pivots. Brass beam with brass sliding poise on upper bar. Accurate balancing ball. Handiest and most suitable scale for farm, factory or store requirements. Beam is on level with eye, and weight is readily distinguished on either side of scale without bending. Accurately marked, rapid weigher. Easily operated. Delicately trued and sealed.

287C6346—Will weigh to 600 pounds on platform, size 17x23 inches. **\$29.95**
 Shipping weight, 157 lbs.

287C6347—Will weigh to 800 pounds on platform, 17x23 inches. **\$33.50**
 Shipping weight, 165 lbs.

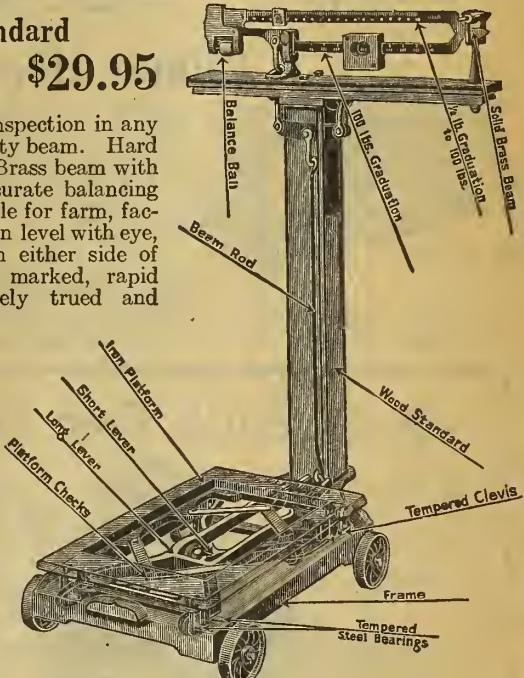
287C6348—Will weigh up to 1,000 lbs. on platform, 17 1/2 x 26 inches. **\$37.25**
 Shipping weight, 170 lbs.

287C6349—Will weigh up to 1,200 lbs. on platform, 17 1/2 x 26 inches. **\$42.50**
 Shipping weight, 175 lbs.

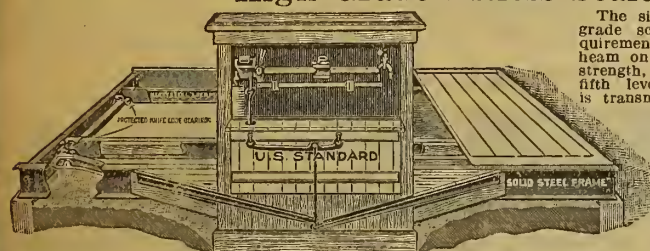
287C6350—Will weigh up to 1,500 lbs. on platform, 18x26 inches. **\$46.75**
 Shipping weight, 180 lbs.

In setting up scale after purchase there is no necessity for adjustments. See 50-pound test weight listed elsewhere on this page.

Shipped from factory near Chicago.



High Grade Pitless Scales



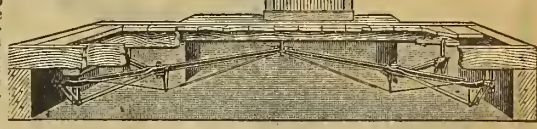
The simplest kind of excellent high grade scales, guaranteed to meet requirements of all state laws. The pipe beam on our scales combines rigidity, strength, and few working parts. No fifth lever to cause friction. Load is transmitted from platform bearings to beam rod, eliminating necessity of additional bearing. Steel frame and steel beam scales furnished with double brass beam. Hardwood beam box, well constructed and nicely painted, fitted with lock and key. Building plans and directions with each scale. We will replace free any part that proves defective. We do not

include frame, platform or joists with our wood frame and wood joist style scales.
 287C6366—High Grade Pitless Scale, 5 ton capacity, Style—wood frame, wood joists. Size of platform, 8x14 feet. **\$105.00**
 Shipping weight, 750 pounds.
 Price, complete with beam box and double beam.
 287C6363—High Grade Pitless Scale, 6 ton capacity, wood frame, wood joists. Size of platform, 8x14 feet. **\$112.50**
 Shipping weight, 800 pounds.
 Price, complete with beam box and double beam.
 287C6370—High Grade Pitless Scale, 5 ton capacity, Style—steel frame, steel joists. Size of platform, 8x14 feet. **\$138.75**
 Shipping weight, 1940 pounds.
 Price, complete with beam box and double beam.
 287C6372—High Grade Pitless Scale, 6 ton capacity, steel frame, steel joists. Size of platform, 8x14 feet. **\$172.50**
 Shipping weight, 1990 pounds.
 Price, complete with beam box and double beam.
 Extra for capacity or compound beam in place of double beam, additional **22.50**
 Shipped from warehouse near Chicago.

Reliable U. S. Standard Pit Scales

Especially adapted for farm use. Will give long and satisfactory service; 12,000 of them among our customers. Every scale carefully sealed and tested. Requires a pit about twenty-eight inches deep. The foundations can be of timber, stone, brick or concrete. We supply instructions telling just how to erect. Prices are for the scales complete with the beam box, but do not include the timbers or platform. These timbers can be procured easily from your lumber dealer.

For Wagon and Stock



287C6381—High grade Pit Wagon and Stock Scale, 5-ton capacity, Wood Frame, Double Beam, Platform, 8x14 feet, complete with beam box and double beam. **\$97.50**
 Shipping weight, 700 pounds.
 Price.....

287C6383—6-Ton capacity, Platform, 8x14 feet, complete with Beam Box and Double Beam. **\$129.75**
 Shipping weight, 750 pounds.
 Price.....
 Extra for capacity or compound beam over regular Double Beam, **22.50**

287C6386—New Climax Stock Rack Irons. Set consists of all the irons necessary to build folding stock rack; bolts are not furnished. Rack will fit on any scale. Irons securely packed in box with full directions for making rack. **\$5.75**
 Set complete.....
 Shipped from warehouse near Chicago.

Climax Valveless Hog Oiler

\$5.65



Any good oil applied often enough and in the right place will rid hogs of lice. Help them to apply it themselves. They know where the lice are bothering them. With a Climax oiler they'll rub the oil in the right place to get the parasites.

The New Climax Hog Oiler does the work the simple and easy way. Set one up in the hog lot—the hogs rub against it in seeking relief. When they find that it alleviates itching and distress, they use it until the lice have disappeared. Surplus oil is drained to recess on top of projecting leg which acts as rubber for under part of hogs' body.

The New Climax Hog Oiler is economical in the use of oil. Being valveless, there is nothing to get out of order. Cannot clog with dirt. The oil will not waste away when hogs lie up against the bar. Hogs can rub on three sides. Use any kind of oil. Crude oil may be used. Our special medicated oil will get the quickest results, being especially made for this purpose. Main standard is of steel, base and rubbing bars of cast iron. Galvanized steel oil tank holds about 1 gallon of oil. Lag screws furnished for fastening

down. Height, 31 inches. Shipping weight, 35 pounds.

187C3320—New Climax Hog Oiler.....**\$5.65**

Shipped promptly from stock at Chicago.

Climax Medicated Hog Oil

For use with any hog Oiler or Rubbing Post.

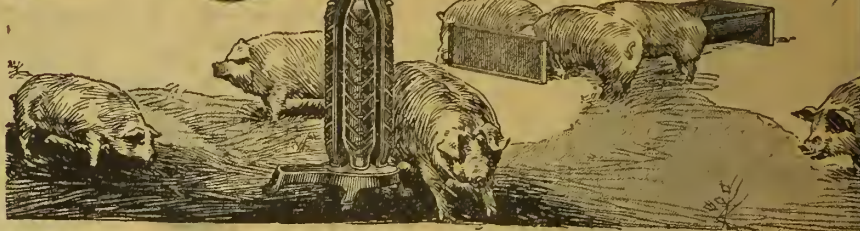
187C3332—1 Gal. Can jacketed, wt., 10 lbs. Price.....**\$0.98**

187C3334—5 Gal. Can Jacketed, wt., 50 lbs. Price.....**3.35**

287C3336—30 Gal. Wood Barrel, wt., 35 lbs. Price.....**15.75**

Shipped promptly from stock at Chicago.

Hog Supplies



Cafeteria Hog Feeder

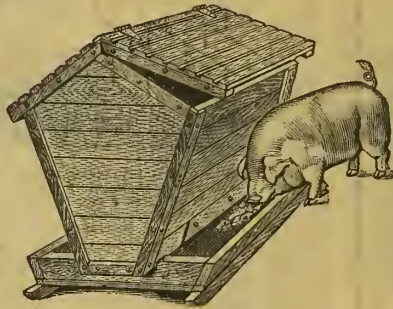
Holds 25 Bushels Shelled Corn

Not only saves the farmer time and labor, but from an economical standpoint, produces more por in less time. With a Cafeteria Hog Feeder an proper feed, the hogs will eat what they need without wasting the balance.

The feeder is made 6 feet in length and has three compartments; a large bin for ear, shelled corn c ground feed; two smaller bins one for tankage, an the other for minerals or stock powders. Th feeder holds 25 bushels of shelled corn.

It is set on runners having an attachment t hitch a team. Shipped in knockdown form, wit necessary bolts, and can be set up in a few minute. Height, 47 in.; width, 48 inches; length 6 feet. Shipp ing weight, 350 pounds.

287C3340—Price.....**\$19.25**
Shipped from factory in Missouri



\$19.25
Complete

Climax Cast Iron Hog Troughs



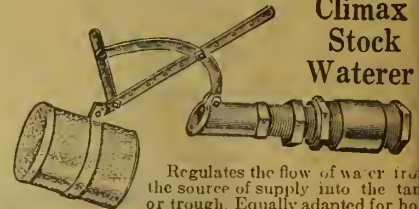
Economical and durable. Easily cleaned. The inner surface is exceptionally smooth. The 2-foot size is especially adapted for use in breeding pens. The 4 and 6 foot sizes have cross bars to prevent the hogs from shoving along the troughs.

All troughs: Width, 12 in.; depth, 4 1/2 in.

Article No.	Length	Shp. Wt.	Each
187C3380	2 feet	28 pounds	\$3.10
187C3381	4 feet	58 pounds	5.85
187C3382	6 feet	78 pounds	7.20

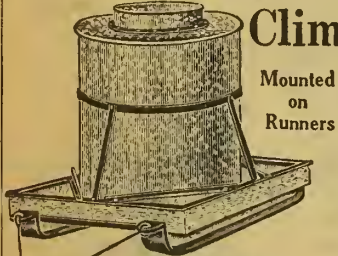
Shipped promptly from stock at Chicago.

Climax Stock Waterer



Regulates the flow of water into the trough or trough. Equally adapted for hogs, cattle, poultry or other stock fountains. Outlet pipe made of high quality iron, with a brass valve and leather washer inside the pipe, regulated by the float on the water in the trough. Has 1 1/2 inch valve. Ship. wt., 7 lbs.

187C3378—Climax Stock Waterer, complete. Price.....**\$2.85**



Climax Hog Waterer

Mounted on Runners

Supply tank is made of No. 20 gauge galvanized Steel and can be removed from the sled for use as a storage barrel for oil or other fluids. Sled is constructed of heavy angle iron securely riveted together. When the supply tank is removed the pan can be used as a feeding trough. It has no valves, tubes or double tank arrangement to get out of order. It is a single tank with an outlet hole to allow the water to run into the trough as fast as the stock drink it and an inlet hole at the top to fill the tank.

\$16.40
Up

Article Number	Cap. Gallon	Weight Lbs.	Price Each
287C3370	60	120	\$16.40
287C3371	90	132	19.95
287C3372	120	165	23.75

Shipped from factory in Indiana.

Climax Hog Feeder



Made of 20 gauge galvanized steel with steel braces. Bottom of feeder is made up of two troughs divided into compartments with hopper or container in center. Bars divide troughs into compartments and keep hogs from crowding one another. This feeder will pay for itself in feed saved in a very short time. Made in 3 sizes. Hopper, 12 inches wide; 3 1/2 inches at bottom of opening.

\$11.25
Up

Article Number	Price	Lgth Feet	Cap. Bush.	Shp. Wt. Lbs.
287C3316	\$11.25	4	2 1/2	45
287C3317	13.95	6	4	70
287C3318	17.50	8	6	90

Shipped from factory in Illinois.

This Feeder will soon pay for itself in feed saved

Climax Stock Feed Cooker

For Cooking feed for hogs, poultry, cattle, horses or sheep; also invaluable on farm for heating water, rendering lard, making soap, scalding hogs and innumerable other uses. Experiments made by feeding a number of hogs with cooked feed and an equal number with uncooked feed all from the same drove and otherwise exactly the same conditions, except feeding, show from 15 to 25 per cent better returns for the cooked feed. It has also been established, where hogs regularly receive a portion of cooked feed, they are practically immune from cholera.

Progressive hog raisers not only cook their winter feed, but find it profitable to



feed warm, well-cooked, palatable feed in summer. The jacket is made of one continuous sheet of cold rolled steel, which leaves no joints to open up and take in air, and is supported at bottom with a heavy wrought iron band. The kettle is made of smooth cast iron and can be removed from the casing easily. The inside arrangement includes a cast iron flame deflector set so that the fire and smoke pass around the kettle before going into the smoke pipe, thus bringing the entire bottom of kettle in direct contact with the heat and fire. Coal grates, elbows and pipe are extra.

Article Number	Price at Factory	Size Gal.	Average Height over All-Inches	Diameter Kettle, Inside Flange, Inch.	Shp. Wt., Complete, Pounds
287C3524	\$13.95	15	28	20	105
287C3525	16.45	20	28	22	130
287C3526	20.00	30	28	27	175
287C3527	24.85	45	30	29	205
287C3528	27.70	55	30	32	265
287C3529	31.10	65	30	34	290
287C3520	35.00	75	34	36	335

287C3524—Coal grates at factory. State size of cooker or jacket. Weight, from 30 to 70 pounds.....**\$5.25**

287C3526—Pine cover; hinged. At factory. State size of cooker. Weight from 12 to 30 pounds.....**\$1.75**

287C3528—Elbow, one joint of 6-inch pipe and damper extra.....**1.15**

Shipped from factory in Michigan or Central Iowa.

Climax Hog Catcher and Holder



With this device you can catch and hold any hog with one hand. Whether the hog pulls or pushes, it cannot shake itself free. Made of malleable iron, with a spring ratchet that firmly locks the holder. The more pressure on the handle, the tighter the noose fits over the snout. Pressure of dog with one finger releases. Length, 28 inch. Operator can stand off from three to four feet, so that no matter how big or wild the hog, you can get him. Shipping weight, 4 1/2 lbs.

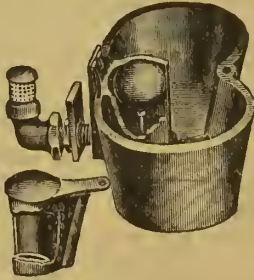
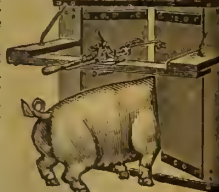
187C3374—Price.....**98c**

Automatic Hog Trap

For catching and holding hogs without injury or discomfort, so they may be rung, marked, vaccinated, castrated, snooted, tusked or handled in any way for any purpose. It is automatic in its action. Hog catches itself. Trap is simple, practical and durable. Will catch and hold any hog weighing from 50 to 600 pounds. The animal is caught just behind the ears. The opening is shaped so that there is no danger of injury to the hog. Catcher is built of 1 1/2 inch yellow pine, painted. Top, bottom and sides braced with angle steel. Height of catcher, 36 inches; width, 40 inches.

287C3384—Hog Trap complete. Ship. wt.....**\$10.00**
95 lbs. Price.....

Shipped from factory in Illinois.

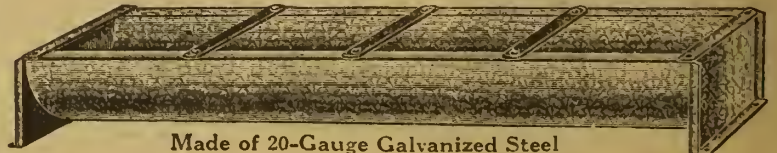


\$2.59 Climax Automatic Stock Fountain

Easily attached to barrel or tank and held in place by strong lock nut on the pipe, and one bolt. The body is made of cast iron with double drinking chamber. The float ball is made of brass and will not rust. Float enclosure within covered chamber outside the barrel, open at the top, leaving it easy to get at, but well protected. Easily put together, and sure to give constant satisfactory service. Shipping weight, 14 lbs.

187C3306—Price.....**\$2.59**

Galvanized Steel Hog Trough



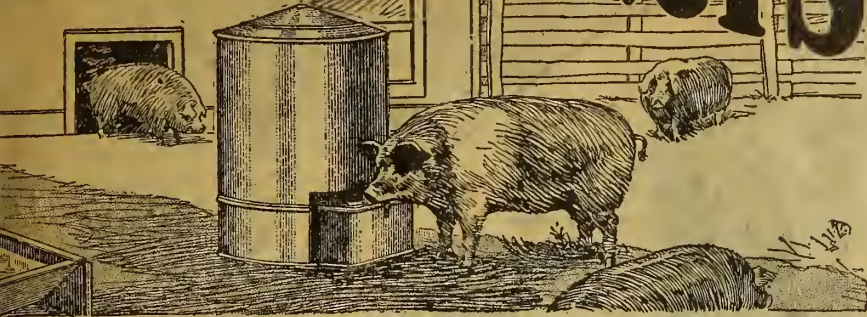
\$1.34
to
\$4.59

Made of 20-Gauge Galvanized Steel

In sizes from 2 to 8 feet inclusive. The 2-foot size is especially desirable for breeding pens and farrowing houses. The 4, 6, and 8 foot size are popular in the hog yards. Where longer troughs than 6 and 8 feet are desired we recommend purchasing two, on account of the unwieldy larger sizes. Have rounded bottoms for easy cleaning. Will not rust. Freezing cannot affect them, and sun can't dry them up. Heavy iron cross bars one foot apart prevents the hogs shoving along in the trough. Not mailable.

Article Number	Price Each Chicago	Height Inches	Width Inches	Length Feet	Shipping Weight Pounds	Price Each in Lots of 6 or more direct From Factory near Chicago
187C3300	\$1.37	6	9 3/4	2	6 1/2	\$1.34
187C3301	2.39	6	9 3/4	4	13	2.33
187C3302	3.55	6	9 3/4	6	19	3.46
187C3303	4.71	6	9 3/4	8	24	4.59

Heaters-Cookers



Iowa Feed Cooker and Water Heater

Cooked feed means "early to market and top prices." A most economical method of feeding. Made to burn wood or coal as noted below. Boiler made of heavy galvanized steel, furnace is complete and consists of door frame grate, plate, hearth and legs. 100-gallon size has double hinge covers as shown in illustration, 35 and 50-gallon sizes have single hinge covers and 20-gallon size has single cover to lift off. You will find thorough satisfaction in this feed cooker.



For Wood

Article No.	Capacity	Length	Weight	Price
87C3580	20 gals.	24 in.	60 lbs.	\$15.35
87C3581	35 gals.	30 in.	72 lbs.	16.95
87C3582	50 gals.	30 in.	110 lbs.	23.70
87C3583	100 gals.	46 in.	145 lbs.	28.50

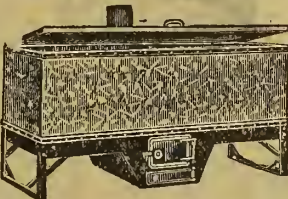
For Coal or Wood

Article No.	Capacity	Length	Weight	Price
87C3584	35 gals.	30 in.	120 lbs.	26.25
87C3585	50 gals.	30 in.	140 lbs.	30.30
87C3586	100 gals.	46 in.	175 lbs.	38.80

Shipped from factory in Western Illinois

Lightning Feed Cooker

Large Capacity, Quick Heater. Good for hoiling Lime-Sulphur Spraying Mixture. Also useful for hoiling sorghum, sap, water for wash day, seaking hogs, etc. Boiler is made of 20-gauge galvanized steel. Cover is hinged and flanged, fitting tightly. Boiler has 1-inch angle steel rim on upper edge and will not spring. Fire box is in center and has double return draft, which throws heat full length to both ends of the cooker. Made of black steel. Has heavy cast iron grate and hack wall. Fuel door and ash door also made of cast iron. Steel hottom ash pit. All joints tight and fireproof. The grates regularly furnished are 14x26 inches, suitable for coal, wood or cohs. One joint of 6-inch stove pipe with each cooker. All cookers are 28 inches wide and 24 inches deep.



Article Number	Price	Cap. Bhls.	Length Feet	Ship. Wt.
287C3574	\$40.50	6	5	255
287C3575	46.85	7	6	300
287C3576	52.50	8	7	325
287C3577	58.75	9	8	355

Shipped from factory in Northern Indiana.

Quick Meal Food Cooker



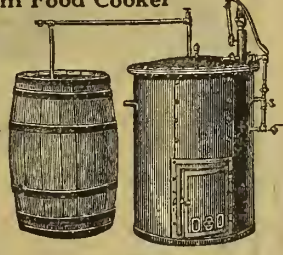
In two separate compartments, the boiler setting directly on top of the furnace and made with a flanged bottom which drops down around the upper edge of the furnace. The boiler is made of Number 20-gauge galvanized steel. Furnace is made of black steel. Doors and frames of heavy cast iron. For coal a grate is necessary; furnished at an extra charge. Grate, 22 in. diameter, 1 inch thick. One joint of 6-inch stove pipe, bow and damper furnished.

- 87C3562—Cooker complete, with 25-gallon boiler. Shipping weight, 100 pounds. Price, \$14.95
- 87C3563—Cooker complete, with 35-gallon boiler. Shipping weight, 110 pounds. Price, \$16.40
- 87C3564—Cooker complete, with 50-gallon boiler. Shipping weight, 125 pounds. Price, \$17.70
- 87C3565—Coal grate for either size. State size of Cooker. Price, \$3.75

Shipped from factory in Northern Indiana.

Improved Steam Food Cooker

Quick Heater. Will raise steam in a few minutes. Burns coal, cohs, or up to 30-inch cord wood. Has cast iron 33-gallon reservoir. Grates for burning coal are extra. Furnished with or without pump for filling reservoir, can be filled without pump but for continuous service we recommend the pump. Regularly furnished with safety valve, 2-foot hose, gauge, cock, faucet for drawing off water and one set of pipes for harrel. Barrel not furnished. Steam tested to 20 lbs. pressure. Requires six inch pipe.

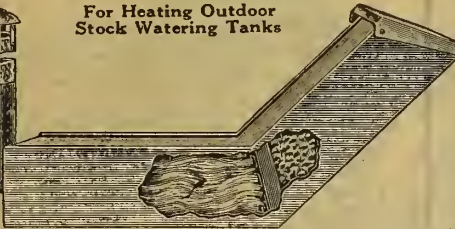


\$41.65

- 287C3556—Improved Climax Steamer without pump or coal fixtures. Ship. wt., 340 lbs. Price, \$41.65
- 287C3557—Pump for filling reservoir, Ship. Wt., 15 lbs. Price, \$8.40
- 287C3558—Extra for heavy fire box and coal grate. Ship wt., 150 lbs. Price, \$12.95

Shipped from factory in Central Iowa.

Submerging Tank Heater



For Heating Outdoor Stock Watering Tanks

Climax Tank Heaters—Self-Sinking

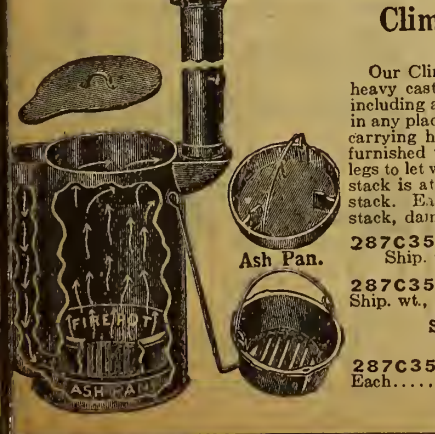
Our Climax Self-Sinking Heaters are made in three sizes, each of heavy cast iron, to sink on its own weight. The body of heater, including a draft tube, is solid cast iron in one piece. It will remain in any place in tank in which it is set. Ash pan is full size and has a carrying hail so that it can be lifted out. Grate, or firepot, also furnished with hail. Will burn any kind of fuel. Sets on 3/4-inch legs to let water under heater. Has cast elbow at top to which smoke stack is attached so that cover is moved independently of the smoke stack. Each heater furnished complete with grate, ash tray, 2-foot stack, damper, hood and poker.

- 287C3590—Cast Tank Heater. Diam., 12 in., height, 24 in. Ship. wt., 135 lbs. Each, \$10.95
- 287C3591—Cast Tank Heater. Diam. 14 in., height, 24 in. Ship. wt., 175 lbs. Price, \$13.45

Shipped from factory in Michigan or Western Illinois.

- 287C3592—Cast Tank Heater, 16 in. Diam. Weight, 195 lbs. Each, \$15.95

Shipped from factory in Western Illinois.

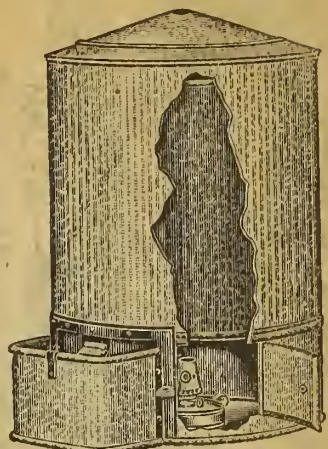


Climax Hog Waterer and Heater

\$23.85

For 50-Gallon Size

Clean sanitary waterer, keeps water fresh and clean and at a warm temperature in winter. Suitable for hogs, calves, sheep or other small animals. Water feeds into drinking pan automatically as needed. Pan is large enough to accommodate two animals at a time. Outer casing of tank is made of galvanized steel and lined with asbestos paper which helps to protect the water in tank from heat or cold. The drinking pan is made of cast iron, easily removed for cleaning. The water from tank is fed down through an opening at bottom of tank into the outside cast iron pan. The flow of water from tank to drinking pan is regulated by a vacuum. No valves required. Water pan is heated with an oil lamp with large float, holds oil enough to run 36 hours without re-filling.



- 287C3322—50-gallon capacity, price, \$23.85
- 287C3323—70-gallon capacity, price, \$27.50

Shipped from Warehouse near Chicago.

Climax Improved Furnace Caldron

Drum is made of boiler steel. Lower part and fire box of smooth cast iron. The construction is such that it allows the heat to instantly surround the drum making it a quick and economical heater and cooker. Equipped with large fire box and tight fitting doors. Inner container or kettle is made of heavy iron and may be removed for other uses when desired. Cooks feed, renders lard, heats water, etc. Price includes furnace complete with kettle but no pipe (requires 6-inch pipe). Coal grate fixtures are extra.

Article Number	Size Gals.	Shpg. Wt. Lbs.	Price Each
287C3500	15	130	\$17.85
287C3501	22	180	23.10
287C3502	30	220	25.90
287C3503	45	265	29.40
287C3504	60	340	39.50

Extra for Coal Grate Fixtures.

Article Number	Size Gals.	Shpg. Wt. Lbs.	Price Each
287C3506	15	35	\$3.45
287C3507	22	40	3.98
287C3508	30	48	4.35
287C3509	45	60	5.45
287C3510	60	72	6.50

Shipped from factory in Southern Michigan or Cent. Iowa.



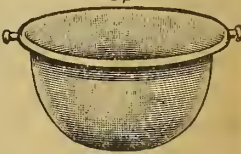
Cast Iron Caldron Kettles

Made of heavy smooth cast iron with wide flange rim. Extra heavy at bottom. For cooking feed, rendering lard, etc.

\$6.15 up

Article Number	Cap. Gal.	Shpg. Wt. Lbs.	Price Each
287C3546	15	50	\$6.15
287C3547	20	60	7.35
287C3548	30	95	9.80
287C3549	45	115	13.30
287C3550	55	160	14.35
287C3551	65	180	17.70
287C3552	75	215	20.65

Shipped from factory in Southern Michigan or Central Iowa.



16 Gauge Steel Jackets

For use in connection with iron kettles in cooking stock food, rendering lard, soap, etc. Prices do not include container or kettles. Burns wood, cohs, etc., not made for coal. All made of No. 16-gauge steel. Height, 28 inches. Can fit all size caldron kettles from 64 inches to 116 inches in circumference. Measure kettles around the outside, about 1 inch from top, under flange. Elbow, one joint of 6-inch pipe with damper are extra.

\$8.25 up.

Article Number	Circum. Inches	Shpg. Wt. Lbs.	Price Each
287C3534	66	55	\$8.25
287C3535	76	70	9.45
287C3536	88	80	10.50
287C3537	96	90	11.90
287C3538	102	105	13.40
287C3539	109	110	13.90
287C3540	116	120	16.30

287C3542—Elbow, one joint 6-inch pipe and damper. Price, \$1.15

Shipped from factory in Southern Michigan or Central Iowa.



Farmers' Choice Feed Cooker

\$26.75

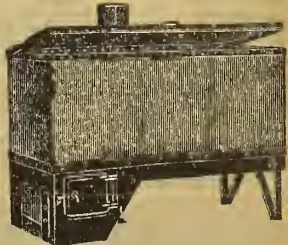
Big Capacity Little Fuel Required

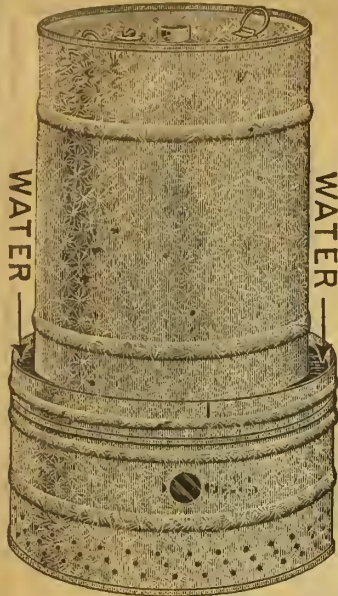
An excellent economical heater for cooking large quantities of stock food, hoiling water for scalding hogs, etc. Built extra heavy and durable. The bottom of the furnace extends the full length covering ash pit. All joints are perfectly made, so that the boiler can be set up in any building just as safely as a stove. These boilers will ordinarily do much more work than other styles of same capacity, and with equal amount of fuel. Boiler and cover are made of 18-gauge galvanized steel. Bottom edge of hoiler has 1-inch flange projecting below bottom, so that the boiler sets down over the upper edge of the furnace. The upper edge of the boiler is supported with 1-inch angle steel, making it very rigid and durable. The fire box has a heavy cast iron grate and hack wall. Will burn wood, coal or cohs. All boilers are made removable.

First 3 sizes have grate 12 1/2 x 22 inches. Large size, 12 1/2 x 26 inches.

Article Number	Price	Length Feet	Width Inches	Depth Inches	Ship. Wt. Lbs.	Cap. Gals.
287C3568	\$26.75	4	24	12	175	60
287C3569	28.30	4	24	18	200	90
287C3570	31.50	5	24	18	220	115
287C3571	39.25	6	28	18	290	160

Shipped from factory in Northern Indiana.





Climax Poultry Fountain Heater \$5.75

Buy a Climax and Increase your egg yield. Don't allow chickens to drink cold water.

An indispensable article for cold weather. Keeps the water warm. Helps to keep the hen house warm for chicks taken from the brooder. Tank holds 8 gallons of water, sufficient for flock of 75. Made entirely of heavy galvanized steel. Supplies water automatically to trough extending clear around the tank so that a dozen chickens or more may drink at once. The top of the tank is concave, the center being about one inch lower than the outer edge, permitting easy filling with water by removing filler plug. Heater lamp has large brass burner. Oil reservoir holds three pints and has 1/2-inch flange around top edge to fill with water preventing all danger of explosion. The fountain is made in two pieces. The bottom part is complete with galvanized bottom which prevents any possibility of floor catching fire from the lamp. By removing the bottom section the top part or fountain can be set directly on the ground, making an ideal waterer for the summer months. Shipping weight, crated, 27 lbs. **187C3750—Price, complete \$5.75** Shipped promptly from stock at Chicago.

Poultry



Winter Fountain and Heater

It increases the egg yield because our winter fountain and heater keeps the water at the right temperature day and night in the coldest weather. Don't allow your chicks to drink cold water. It requires less than 1 quart of oil a week. The water tank is made of galvanized sheet steel and holds two gallons, sufficient for flock of 20. Shipping weight, 6 lbs. **187C3806—Price, complete \$2.15**

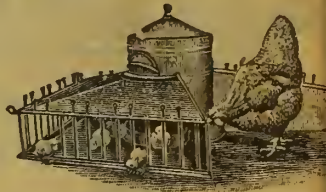
Poultry Feeders and Fountains Climax Poultry Grit Box



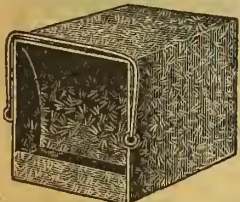
A most economical way to feed grain and grit to poultry. Galvanized steel. Each compartment holds 3 pints of feed. Slipping hinged cover of hopper prevents chickens roosting on top. Nail holes in back to hang hopper against wall. The automatic supply construction practically eliminates waste and keeps the grit, oyster shell and charcoal clean and sanitary. Shipping weight, 2, 3, and 3 1/2 lbs. **87C3782—2 compartments, \$1.03** Each. **87C3783—3 compartments, each, 1.23** **87C3784—4 compartments, each, 1.44**

Automatic Feeder, Water Fount and Chick Protector

Protects the feed for the little chicks. The large chickens cannot get at it. Will feed and water 150 chicks at one filling. Can be changed to a hen feeder and fountain by removing the protector. Easily feeds and waters 500 chicks. Made of 28 gauge galvanized iron. Height of large can, 14 in., diameter, 12 in. The chick protector roof extends three-quarters way around can, height of roof at can, 8 in., at eaves, 6 in. Holds two gallons of water and one-half bushel feed. There is 3 in. of air space around the water can, which is fitted with a tight lid thus keeping the water cool. Water automatically feeds into trough, only as chicks drink it. Shipping weight, crated, 25 lbs. **187C3804—Price, \$7.90**



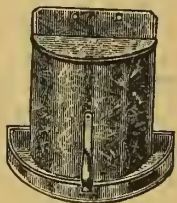
Automatic Poultry Fountain



84c

Galvanized steel. Keeps contents clean. Water may be warmed without danger of breaking fountain. To fill, stand on end and lay flat while in use. Will feed automatically as chickens drink. **87C3786—1 gallon, wt., 1 1/4 lb., 84c** Each. **87C3787—2 gallons, wt., 2 1/4 lbs., 94c** Each. **87C3788—3 gallons, wt., 3 1/2 lbs., \$1.10** Each.

Climax Wall Fountain



81c

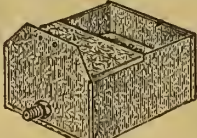
2 Qt. Size

95c

4 Qt. Size

Made of Galvanized steel. Three sizes. Has top lug, with holes to attach to wall in coops or poultry yard. Automatically feeds water. Ten to twelve chicks can drink at one time. Hinged at back with spring catch in front. Readily opened for cleaning and refilling. **87C3790—2 qt. size, weight, 81c** 1 1/2 lbs. Each. **87C3791—4 qt. size, weight, 95c** 2 lbs. Each. **87C3792—8 qt. size, weight, 2 1/4 lbs., \$1.23** Each.

Blue Ribbon Poultry Fountain



\$1.78

Size, 6x7 in.; trough, 3x6 in. Sblp. wt., 2 lbs. **87C3799—Price, \$1.78**

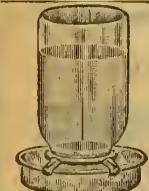
Climax Poultry Feed Trough



\$2.60

23 in. long 8 in. wide. Feeds 24 chickens at a time. Feed can be mixed or fed separately. Three compartment galvanized steel. Roof has extension on each side so that the feed is entirely protected. Easily cleaned. Hand ball on top to carry. Shipping weight, crated, 10 lbs. **187C3780—Price, \$2.60**

Climax Jar Fountain 15c



Will fit any ordinary Mason jar, pints, quart or half-gallon size. Steel pan. Jar easily removed for filling or cleaning. Price does not include jar. Shipping weight, 4 oz. **87C3822—Price, One only \$0.15** Each. **87C3823—Price, Per dozen, 1.65**

Hen House Feeder



Made of Galvanized steel and consists of a long pan, 5 in. wide, with a sliding cross bar top that can easily be taken off, for filling or cleaning. Made in two sizes. **87C3800—Length, 18 1/2 in. Shipping weight, 1 1/2 lbs. Each, 71c** **87C3801—Length, 23 1/2 in. Shipping weight, 1 1/2 lbs. Each, 82c**

Tip-Top Feed Hopper

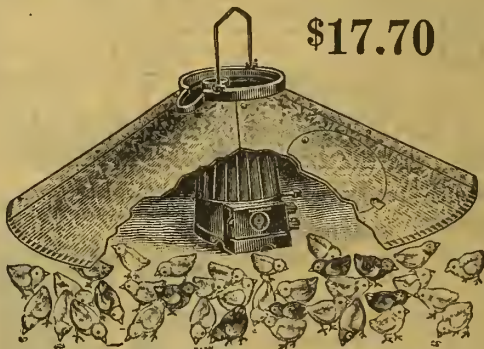


Galvanized Steel. Has holes to hang on wall. Especially adapted for dry mash. Hopper holds 12 to 15 lbs. of feed. Outside height, 18 1/2 in., length, 12 in., depth, 6 1/2 in. Shipping weight, 7 lbs. **187C3778 \$2.20**



New Climax Automatic Feeder and Exerciser \$1.72

Will give chickens as much exercise in winter as in summer. All the grain is eaten, not a particle is wasted or left to attract vermin, the grain is eaten clean, it aids egg production, besides your poultry runs in clean air, no stifling clouds of dust. Capacity, 6 1/2 quarts. **187C3906—One in a package. Shipping wt., 2 1/4 lbs. Price, \$1.72** **187C3907—Two in a package. Shipping weight, 4 1/2 lbs. Price, \$3.35**



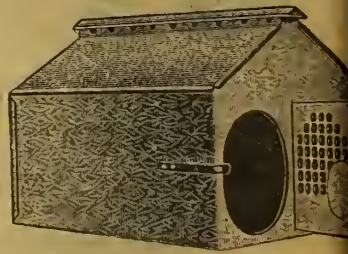
\$17.70

New Climax Stove Brooder

This coal burning brooder is self-feeding self regulating, simple in construction and safe. Will care for 1,000 chicks and provide a constant, correct temperature and plenty fresh air. Brooder Stove is made of iron castings all bolted and screwed together. Burns hard or soft coal. The grate is of the Rocker Furnace Type which prevents clogging of coal or ashes. The hover is galvanized steel so constructed to throw the heat from the stove evenly over the backs of the chicks. The wide spread of heat insures warmth without crowding, allows large space for exercise plenty of light and pure air. Canopy is suspended from the ceiling. Cord and pulley furnished with each stove. Stove is fire-proof, burns but a few cents worth of coal a day and will burn with oil filling more than 24 hrs. Pipe not furnished. **187C3896—Brooder No. 1, Stove height 20 3/4 in.; diameter, 10 1/2 in.; fire-proof base, covered with asbestos pad, 7 in. high; diameter base, 11 1/2 in. Galvanized steel hover 42 in. in diameter. Capacity, 500 chicks. Ship. wt., 75 lbs. Price, \$17.70** **187C3898—Brooder No. 2, Stove height, 22 1/2 in. diameter, 12 in. fire proof base covered with asbestos pad, 7 in. high, diameter of base, 11 1/2 in. Hover, diameter 52 in. Capacity, 1,000 chicks. Ship. wt., 94 lbs. Price, \$23.20**

Sanitary Steel Brood Coop

Length, 23 1/2 inches. Width, 17 inches. Height, 16 in. Shipped knocked down and can be easily and quickly set up, no tools required. Coop has one door provided with an opening through which small chicks can pass in and out, with a sliding perforated cover to close them in at night. Ridge pole or cap is made to slide forward and backward. Bottom can be taken out for cleaning without taking coop apart. Packed in crates of 2 or 6 coops to the crate. Weights, crates of two 35 lbs. Crates of six, 75 lbs. **187C3760—Sanitary Coops. Price for two coops packed two in crate. \$5.50** Shipped from Chicago stock. **287C3762—Sanitary Coops. Price for six coops packed six in a crate \$15.95** Shipped direct from factory near Chicago



Sanitary Hen's Nests



For providing sanitary nests for setting hens that are free from vermin and readily changed and provided with fresh straw or other materials. Shipping weight, No. 1, per dozen about 8 lbs.; No. 2, about 10 lbs. Two sizes: **187C3890—No. 1, 13-inch diameter, 6 1/2 inches deep, coppered wire mesh and 6 flat steel ribs, coppered. Price, per dozen, \$1.90** **187C3892—No. 2, 14-inch diameter, 8 inches deep, coppered wire mesh and 8 flat steel ribs, coppered. Price, per dozen, \$2.55**

Climax Shipping Coop



Hinged door top. Removable in capacity, 100 lbs. of chickens. Strong durable. Folds flat. Substantially constructed of hard wood. Shipped returned to the shipper at small expense. Length, 26 1/2 in.; width, 26 1/2 in.; depth, 12 in. Sblp. wt., 35 lbs. **187C3884—Price, each, \$2.70** Shipped promptly from stock at Chicago

X-Ray Egg Tester



\$1.20

Six Hole Egg Tester made of steel. You can test six eggs at one time. No lamp or dark room necessary. You can candle your eggs with it as well as test them for fertility. Ship. wt., 1 1/2 lbs. **87C3820—Six Hole Egg Tester, \$1.20**

Baby Chick Feeder



Constructed of tin with heavy wire across the top to prevent the chicks from getting into the feed. Ship. wt., 8 ounces. **87C3908—Price, each, 15c**

Niagara Egg Tester

Made of metal. Fits burner of incubator lamps. Infertile eggs can be detected after having been in the incubator for a time. Use with any ordinary lamp. Price does not include lamp. **87C3812—Weight, 5 oz. 28c** Price, \$2.80



Climax Poultry Punch 24c



Handy Poultry Marker 20c

A handy little tool for making hole through toe webs of fowl. Fits the hand nicely. Made of steel. Nickel finished. **87C3830—Price, 24c** **87C3832—Price, 20c** To punch hole in web between toes of poultry. Handy and effective. Bright finish. Weight, 1/4 oz. **87C3832—Price, 20c**

Supplies

Grows Tender Green Oat Sprouts in from 24 to 48 hours

Increase your egg production by feeding your chickens 1, 2, 3 green sprouts during the winter time. One bushel of oats makes about four bushels of sprouted food. Case is made of galvanized steel. Furnished complete with glass door, thermometer, heating lamp and reservoir. Directions with each.

287C3751—Size No. 1, for 50 to 100 hens, 3 trays, 13 in. square. Outside measurements over all, 15x15x30 in. Ship. wt., 40 lbs., crated. Price..... **\$17.40**

287C3752—Size No. 2, for 200 to 300 hens, 5 trays, 17 1/2 in. square. Outside measurements over all, 19x19x44 in. Weight, 80 lbs., crated. Price..... **\$22.95**

287C3753—Size No. 3, for 500 to 600 hens, 7 trays, 21 in. square. Outside measurements over all, 23x23x53 in. Weight, 130 lbs., crated. Price..... **\$31.85**

Shipped from warehouse near Chicago.

Climax Oat Sprouter

New Climax Oat Sprouter

\$4.50 Complete

You will get more eggs by feeding your chickens green food and this is such a simple, easy, inexpensive way to do it. Oats soaked 24 hours then placed in the pans and sprinkled a few times a day will quickly sprout and supply green food for your chickens during the entire winter season. Get one of these Oat Sprouters and watch your egg yield increase.

Grows tender, green oat sprouts quickly. Helps increase production and insures plenty of green food at a time when none other is available.

Practical, quick growing, sectional, fireless oat sprouter, consists of 8 galvanized pans, 11x15 inches, and 3 inches in depth. The upper 7 pans have perforated bottoms to allow the proper drainage while the bottom or drip pan is solid to catch all extra moisture.

Will grow sufficient oats at one time to care for 100 to 150 hens. Frame is made of galvanized steel, about 40 in. high. Pans are not removable. Shipping weight, about 14 lbs.

187C3755—New Climax Green Oats Sprouter. Price..... **\$4.50**

Climax Laying and Setting Outfit

These sanitary nests are very convenient and have many advantages over the make-shift arrangements sometimes used.

Made of galvanized iron in two and three compartment sizes. Length of each, 12 in. Width, 14 in. Height, 12 in. Both sizes shipped knocked down in flat package. Packed in crates of two and six only. Shipping weight, 2 compartment nests, each 15 lbs. 3 compartments each 20 lbs.

187C3770—Setting nests, two compartments. Price for two nests packed in crates of two..... **\$5.45**

187C3771—Setting nests, three compartments. Price for two nests packed in crates of two..... **7.90**

287C3772—Setting nests, two compartments. Price for six nests packed in crates of six..... **15.65**

287C3773—Setting nests, three compartments. Price for six nests packed in crates of six..... **22.95**

Crates of six shipped from factory in Illinois.

Trap Roost Outfit

Climax Vermin Trap Roosts

187C3900

A Poultry Roost That Catches all the Mites, Spider Lice, Bedbugs, and all other Blood-sucking Lice from the Fowls that Roost on it.

Neat—Clean—Light—Movable—Durable.

Requires no powders, liquids or other expensive upkeep. Each perch is equipped with two mite traps, one on each end, which will catch all the mites from the fowls roosting on it. The lice are killed by opening the traps and brushing them out into a bucket of boiling water or a fire. The roosts are made of clear straight grained wood, fitted with bent iron hanger at each end, and are easily erected in any henhouse. We recommend this roost as one of the finest roosts ever placed on the market. No matter how badly infested any henhouse is with the Climax Vermin Trap Roosts will get them all.

Vermin Trap Roost Outfits Complete

With Hardwood Frame Bolted Together

Easily taken out for cleaning. Height of frame, 2 feet; width, about 52 in. Furnished with 4 roosts in either 4, 6, 8 or 10 foot lengths.

287C3910—Outfit with 4 ft. roosts. Wt., about 45 lbs. Each..... **\$6.10**

287C3911—Outfit with 6 ft. roosts. Wt., about 50 lbs. Each..... **7.15**

287C3912—Outfit with 8 ft. roosts. Wt., about 55 lbs. Each..... **8.20**

287C3913—Outfit with 10 ft. roosts. Wt., about 60 lbs. Each..... **9.25**

287C3914—Outfit, 42 in. wide with 3 roosts, 4 ft. long. Weight, about 35 lbs. Each..... **5.60**

Prices of Trap Roosts Only

Article Number	Length Feet	Capacity Fowls	Shipping Weight	Price Each From Chicago
287C3900	4	8	2 1/2 lbs.	\$0.49
287C3901	6	12	4 1/2 lbs.	.69
287C3902	8	16	5 1/2 lbs.	.89
287C3903	10	20	7 lbs.	1.05

Shipped from factory in Western Illinois.

Climax Oil Cup Perch Supports

Destroys Mites and Lice. Oil cup sets directly under perch and when filled with oil it is impossible for the lice or mites to get to the perch or get away from it. Fit any length of perch. We furnish only the brackets, oil cups and screws.

187C3810—Shipping weight, 13 ounces. Price, per pair..... **45c**

45c Complete

Aluminum Leg Bands

Light white metal. Ship. wt., 3 oz. per 100. Large raised figures.

187C3836—For 25 bands No. 1 to 25..... **17c**

187C3837—For 50 bands No. 1 to 50..... **29c**

187C3838—For 100 bands No. 1 to 100..... **55c**

10c per 100 extra for special numbering.

No-Set Poultry Guard

Made of galvanized wire. Breaks a hen of setting. Keeps your hens laying at a time when they show only a disposition to set. Will not hurt the hen in any way. Simply clasp one guard around chicken's leg for a few days. A very desirable article for poultry raisers. Shipping weight of three, 2 ounces.

187C3840—No-Set Guards. Price for 3..... **24c**

187C3841—No-Set Guards. Price for 12..... **84c**

Beuy Capon Set

Consists of Humane Spreader, Knife, Automatic Remover, combination hook and probe, and hooks for fastening bird, and complete instructions for using, including book on "What's a Capon and Why." Shipping weight, 6 ounces.

187C3825—Set, complete..... **\$2.50**

Beuy Capon Set

Consists of Humane Spreader, Knife, Automatic Remover, combination hook and probe, and hooks for fastening bird, and complete instructions for using, including book on "What's a Capon and Why."

187C3826—Set complete. Ship. wt., 6 ounces. **\$3.50**

187C3827—Book only, postpaid..... **25c**

Automatic Chicken Delouser

An effective and mechanical delouser. One quart of oil gives 800 applications, or enough for 50 chickens for one month. Made of galvanized iron, height, 11 1/2 in., depth, 4 1/2 in. Width, 8 1/2 in.

Automatically delouses chickens passing through it. Gives them an Antiseptic Foot Application at the same time.

Can be used continuously and intermittently as required. Installed in front of the small door in the poultry house. The spray valve forces the required amount of disinfectant into the feathers as the chicken passes under the valve. The foot pedal that operates the valve is a shallow pan designed to hold enough fluid to give each chicken a foot application.

187C3776—Automatic Poultry Delousing Trap with one gallon can of oil. Ship. wt., 4 lbs. Price..... **\$4.75**

Climax Lice and Insect Destroyer

Made of galvanized steel. Height, 13 in., length over all, 21 1/2 in.

To operate, fill small reservoir at back with powder, raise the lid, place fowl's wings in wing holder, hold, put neck in slot and let fowl down in tank with head protruding through cover. Shipping weight, 10 lbs.

187C3775—Price..... **\$6.15**

Poultry Food Cutters and Grinders

Humphrey Green Bone Cutter

Simple in construction. Has only three working parts, nothing to get out of order, no sliding surfaces between which pieces of bones can get wedged and stop the machine. It will cut all sorts of poultry food such as corn on the cob, charcoal, stale bread, vegetables, etc. Cutters are made of the best tool steel. Cuts up the chip of bone so that it readily breaks apart.

287C3080—No. 1 Hand power. Popular size for flocks, 10 to 200 hens. Shipping weight, 125 lbs. Price..... **\$23.80**

287C3081—No. 2 Small power with 12x12 1/2 in. pulley (no crank). Requires 1 H.P. 300 R.P.M. For flocks, 200 to 400 hens. Ship. wt., 120 lbs. Price..... **\$25.70**

287C3082—No. 2 1/2 Hand and Power with crank and 12x12 1/2 in. pulley. Ship. wt., 135 lbs. Power required 1 H.P. For flocks, 200 to 400 hens. Price..... **\$27.50**

Shipped from factory near Chicago.

Wilson Green Bone Cutter

Is especially made for cutting green bone direct from the butcher shop and green bones and meat scraps from the table. Excellent for cutting vegetables.

The very best materials are used in its construction. It is fitted with two oil tempered steel knives which can be replaced at any time. Follow lever to feed bone to knives. Furnished with crank or balance wheel.

187C2926—With crank. Ship. weight, 35 lbs. Price..... **\$17.65**

187C2928—With balance wheel. Ship. wt., 55 lbs. Price..... **\$18.50**

187C2930—Extra knives. Ship. wt., 7 1/2 lb. Each..... **29c**

Shipped promptly from stock at Chicago.

Wilson Dry Bone and Shell Mill

For grinding dry bones, oysters and clam shells, grit, gravel stones, old crockery, glass, charcoal, corn and all sorts of grain.

Splendid in the house for grinding dry stale bread, crackers, roots, barks, etc. It will not grind green bones or wet substances. Grinding surfaces are of the hardest material and will last for years. Has a very simple adjustment for coarse or fine grinding. Diameter of balance wheel, 20 in. Ship. wt., 33 lbs.

187C2922—Price..... **\$6.55**

Shipped promptly from stock at Chicago.

Mayflower Root Cutter

Strong wood frame, large hopper, cutting disc on crank shaft, easily operated. Slices roots and vegetables in long thin slices, at the same time separates the feed from clay, gravel etc. by an iron grate at the bottom of the feed chute. Juices and nutritious qualities are retained. Capacity by hand, 20 to 40 bushels per hour, by power, 40 to 70 bushels per hour. No. 1 machine is supplied with crank only, and is suitable for the poultryman with a small flock. Nos. 2 and 3 are furnished with pulley for power in addition to the crank so that they can be used for either hand or power. It requires one H.P. to run power machine. Removable knives.

287C3090—No. 1 Hand Cutter. Shipping weight, 125 lbs. Price..... **\$14.35**

287C3091—No. 2 same size with crank and pulley. Ship. wt., 140 lbs. Price..... **\$15.95**

287C3092—No. 3 Power Root Cutter. Made larger, heavier and stronger. Capacity, 150 to 200 bushels per hour. Ship. wt., 165 lbs. Furnished with both pulley and crank. Price..... **\$28.00**

Shipped from factory in Michigan.

Hand Grinding Mill

Especially desirable for small grains, barks, herbs, spices, etc. Just the mill for home use. This useful bone mill will do a greater variety of work than many other mills of twice its weight. Can be adjusted to grind fine or coarse and will do all kinds of household grinding from chicken feed to coarse flour. Can be clamped to the edge of table or sink and a thumb nut regulates the fineness.

187C2906—Hand Grinding Mill Complete. Ship. wt., 10 lbs. Price..... **\$2.89**

187C2908—Extra Burrs. Per pair..... **59c**

Jewel Bone and Shell Grinder

Substantially made of smooth iron. Will grind dry bones, crush oyster shells, crack corn and grind small grains, adapting itself especially for poultry feeding. Easily adjustable for fine or coarse work. Has capacity for crushing 7 lbs. oyster shells, or cracking 7 lbs. corn in five minutes, and 3 lbs. of dry bones in the same time. Has large balance wheel. Shipping weight, 23 lbs.

187C2924—Price..... **\$5.60**

Shipped promptly from stock at Chicago.

Climax Clover Cutter

Especially good for cutting green or dry alfalfa, etc. in 1/2 inch lengths, for feeding poultry. Has four 6 1/2 inch knives, readily removable for sharpening.

Built entirely of steel and iron. Flexible feed roll deliver feed uniformly to knives. Furnished with three short legs to bolt on box or bench of any height desired.

287C3084—Ship. wt., 70 lbs. Price..... **\$19.95**

Shipped from warehouse near Chicago.

Climax Poultry Feed Mill

It cracks the grain up into small pieces but makes very little meal. Can be adjusted to crack in small or large pieces. Suitable for feeding poultry. Holds about one quart. A corn and wheat crusher. Can be fastened onto a wall, fence or post. Ship. wt., 7 lbs.

187C2920—Price..... **\$2.28**

Root and Vegetable Cutter for Poultry

Cuts all roots and vegetables, such as beets, carrots, turnips, cabbage, potatoes, etc., into fine pieces. Cutter turns easily and cuts rapidly. Has adjustable knives. Cannot choke. The feed is left in long thin strips. Shipping weight, 45 lbs.

187C3086—Price..... **\$5.95**

Automatic Chicken Delouser

An effective and mechanical delouser. One quart of oil gives 800 applications, or enough for 50 chickens for one month. Made of galvanized iron, height, 11 1/2 in., depth, 4 1/2 in. Width, 8 1/2 in.

Automatically delouses chickens passing through it. Gives them an Antiseptic Foot Application at the same time.

Can be used continuously and intermittently as required. Installed in front of the small door in the poultry house. The spray valve forces the required amount of disinfectant into the feathers as the chicken passes under the valve. The foot pedal that operates the valve is a shallow pan designed to hold enough fluid to give each chicken a foot application.

187C3776—Automatic Poultry Delousing Trap with one gallon can of oil. Ship. wt., 4 lbs. Price..... **\$4.75**

Root and Vegetable Cutter for Poultry

Cuts all roots and vegetables, such as beets, carrots, turnips, cabbage, potatoes, etc., into fine pieces. Cutter turns easily and cuts rapidly. Has adjustable knives. Cannot choke. The feed is left in long thin strips. Shipping weight, 45 lbs.

187C3086—Price..... **\$5.95**

For Bee Keepers

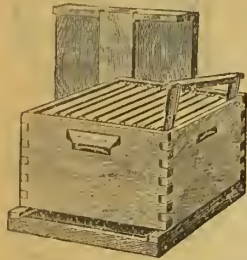
Also Egg Cases and Fruit Dryers



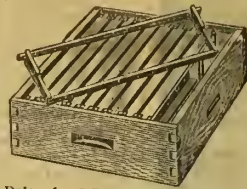
Standard Dovetailed Hives

One Story

With frames without foundation. This is the standard white pine dovetailed hive, furnished in two sizes, eight frame and ten frame with Hoffman brood frames. The covers are pine Excelsior lock-cap style and these hives have reversible double surface bottom boards. Foundation starters or division boards are not included. Either Extracting supers or Comb Honey supers may be used on this hive. Supers should be ordered separately.



- 187C5681—Set of 5 one story 8-frame standard hives including Excelsior cover, reversible bottom, 8 Hoffman frames, no super, division board or foundation. Knocked down. Ship. wt., 130 lbs. Price, for five hives..... **\$13.90**
- 187C5672—Single one story 8-frame hive. K. D. Ship. wt., 26 lbs. Price..... **\$3.05**
- 187C5683—Set of 5 one story 10-frame standard hives, including Excelsior cover, reversible bottom, 10 Hoffman frames, no super, division board or foundation. K. D. Ship. wt., 143 lbs. Price, for 5..... **\$14.65**
- 187C5674—Single one story 10-frame hive. K. D. Ship. wt., 30 lbs. Price, each..... **\$3.20**



Extracting Supers With Shallow Extracting Frames

This super is used in the production of extracted or chunk honey. Furnished both eight and ten frame sizes to be used on our one story standard hives. One or more of these supers may be added as the honey harvest increases. Standard shallow Hoffman frames are furnished 5 1/2 inches deep. Sections cannot be used in Extracting Supers. In crates of 5 only, knocked down.

- 187C5684—Set of 5-8 frame Extracting supers with shallow Hoffman frames. No cover, bottom, foundation or division boards. Ship. wt., 37 lbs. Price, for 5 supers..... **\$4.90**
- 187C5685—Set of 5, 10 frame Extracting supers with 10 shallow Hoffman frames, no covers, bottom, foundation or division boards. Ship. wt., 42 lbs. Price, for 5 supers..... **\$5.15**

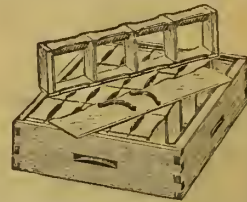
Comb Honey Supers

For 4 1/2 x 4 1/2 x 1 1/2 in. Sections

No sections or foundations

This slotted or beeway section super is the most popular style of super in use today. It takes slotted section holders, slotted separators, follower and spring, but is furnished without sections or foundation starters, because of the loss due to breakage in transit when the sections and foundations are packed in the crate of super that permit safe shipping.

- The eight frame super provides space for 24-4 1/2 x 4 1/2 x 1 1/2-inch section honey boxes and the 10 frame super provides space for 30-4 1/2 x 4 1/2 x 1 1/2-inch section honey boxes. One or more of these sections may be added as required to the standard Dovetailed Hives. In crates of 5 only, knocked down.
- 187C5700—Set of 5, 8 frame comb Honey supers with flat fins, slotted section holders, slotted separators, follower, super springs, no sections, covers, bottoms or foundation. Ship. wt., 30 lbs. Price, for 5 (knocked down)..... **\$4.50**
- 187C5702—Set of 5, 10 frame comb Honey supers with flat fins, slotted section holders, separators, super springs, no sections, covers, bottoms or foundation. Ship. wt., 5 lbs. Price, for 5 (knocked down)..... **\$4.75**



Detail View Showing Hive Construction

The complete hive consists of a floor, brood chamber, a living room, known as the Store Room or Super, in which the bees keep the pollen and honey for the needs of the hive, and a roof or cover which fits over the body of the super.

The brood frames are the wooden rack in which the combs are suspended and the most popular frame in use is the Hoffman. The Section Holder holds the Section in place within the super. The Section or honey boxes are little square frames placed in the super to be filled with honey. Separators are thin pieces of wood which go between the rows of sections. Foundation is used to help the bees in supplying them with the base of the comb made of their own product, bees wax.

All our hives and parts are made of clear stock and by machinery so accurate that we guarantee our hives to be perfectly interchangeable. The bottom parts are made of decay resisting cypress. Bees hives are shipped knocked down to get the lowest rate and are carefully crated to insure safe delivery. Can be easily put together with the simple instructions furnished. Extreme care is used in counting and packing hive parts.

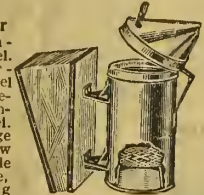
Improved Bee Smoker

Latest Improved Model. It is perforated, steel grate liner preventing burning of the barrel. The two large sizes have new style flexible cover hinge, permitting tight fit of lid on fire chamber. Made of heavy tin with leather bellows, metal bound edge, and with patent draft.

187C5735—Standard Champion Smoker, diameter, 3 1/4 inches. Weight, 2 lbs. Price..... **\$1.07**

187C5736—Jumbo Champion Smoker, diameter, 4 inches. Weight, 2 1/2 lbs. Price..... **\$1.35**

187C5737—New Junior Smoker, 3 1/2 inches diameter. A good serviceable smoker for a few colonies of bees. Weight 1 1/4 lbs. Price..... **\$0.77**



Globe Bee Veil with Springs

Net made of French Cotton Tulle with silk face, piece. Veil kept from face by five spring steel bars, which button to studs on veil neckband. Absolutely bee-proof.

- 187C5716—Globe Bee Veil. Shipping weight, 6 oz. Price..... **\$1.48**

Sting-proof Bee Gloves

Made of heavy drill, closely woven, strongly sewed and specially treated, practically sting proof. Long sleeves with rubber cords to close tight around elbows. Come in large, medium and small sizes. State size wanted.

- 187C5764—Canvas Bee Gloves. Weight, per pair, 8 oz. Price, per pair..... **95c**



Section Honey Boxes



Our sections are made of clear beewood, smoothly polished, perfectly finished and free from defects. Made in plain (no beeway) or scalloped styles. The scalloped or two beeway sections are 4 1/2 x 4 1/2 x 1 1/2 inches and as shown above. Plain sections come in two sizes listed below.

Sections are sold only in quantities as listed. Packed in heavy express weight corrugated paper packages insuring safe delivery. Be careful to order the proper weight; 100 sections, 8 lbs.; 500 sections, crated, 35 lbs.

- 187C5738—No. 1 quality. Scalloped. Size, 4 1/2 x 4 1/2 x 1 1/2 in. Price, per 100..... **\$1.32**
- Price, per 500..... **6.10**
- 187C5740—No. 1 quality. Plain. Size 4 1/2 x 4 1/2 x 1 1/2 in. Price, per 100..... **\$1.33**
- Price, per 500..... **5.90**
- 187C5742—No. 1 quality. Plain. Size, 4x5x1 1/2 in. Price, per 100..... **\$1.34**
- Price, per 500..... **5.95**

Wax Comb Foundation

New Process Foundation, with perfect cells, easily worked by the bees. Clear in color or. Very high quality brood sheets are used in frames without wiring. Light brood sheets must always be wired. This is used for starters in sections or brood frames. Order by grade and size. Not sold in less than 1-lb. lots. Ship. wts., 1 1/2 lbs. and 6 1/4 lbs.

- 187C5728—Medium brood. 7 1/2 x 16 1/2 in. 7 to 8 sheets per pound. 3 1/2 lbs. Price, 1 lb..... **.84c** 5 lbs..... **\$4.05**
- 187C5730—Light brood. 7 1/2 x 16 1/2 in. 9 to 10 sheets per pound. Price, 1 lb..... **.88c** 5 lbs..... **\$4.20**
- 187C5732—Thin super. 3 1/2 x 15 1/2 in. 28 sheets per pound. Price, 1 lb..... **.93c** 5 lbs..... **\$4.45**
- 187C5734—Extra thin. 3 1/2 x 15 1/2 in. 32 sheets per pound. Price, 1 lb..... **.96c** 5 lbs..... **\$4.60**

Hoffman Self-spacing Brood Frames

Self-spacing with V edge end bars and staples. Furnished with nailed wedge. Frames pierced for wires. Top piece, 19 inches; length, 17 1/2 inches; depth, 9 1/2 inches. Shipped in the flat in crates of 100.

- 187C5756—Deep Hoffman Brood Frames. Per 100, Ship. wt., 40 lbs. Price..... **\$6.25**

Shallow Extracting Hoffman Frames

Top bars 1 1/2 in. wide. 4 1/2 in. thick, 19 in. long, with slant groove for foundation. Depth, 5 1/2 in. slide bars pierced for wires. Shipped flat with nails, in crates of 100 frames.

- 187C5754—Shallow Extracting frames per 100. Ship. wt., 25 lbs. Price..... **\$4.95**

Fruit Dryers and Evaporators

Ormas Hot Air Fruit Dryer



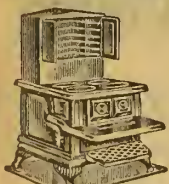
One of the very best low-priced dryers on the market. For drying fruit, berries, corn, beans, etc. Light, lasting, clean and fly-proof. Has four trays, size, 9x12 inches. Dryer made of galvanized iron, tin and wire cloth. Size, 12x20 inches. Weight, 20 lbs. Capacity, 1 to 3 pecks per day.

187C2620—Price..... **\$5.25**

Shipped promptly from stock at Chicago.

Stuzman Hot Air Cook Stove Dryer

Large Capacity Home Fruit Dryer



For drying fruits and vegetables. Perishable food that might otherwise be wasted may be preserved for winter use without jars or sugar. Every home should have a fruit dryer.

Size No. 1. Capacity from two to four pecks per day. Height 25-in. Width 26-in. Depth 11-in. Has 6 wire trays, each 21x10 1/2 in. Weight, 40 lbs. Price (Dryer Only)..... **\$7.65**

Size No. 2. Capacity from one to two bushels of green apples per day. Height of dryer, 31 in; depth, 11 in.; width, 26 in. Has 10 trays each 21 1/2 x 10 1/2 in. Of galvanized iron. Dryer may be set on back of cook stove. Wt., 50 lbs. Price..... **\$8.60**

187C2636—Price (Dryer Only)..... **\$8.60**

Cook stove shown in illustration not furnished. Shipped from factory in Indiana.

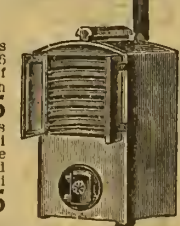
\$7.65

Stuzman Fruit Evaporators

Size No. 2. Capacity 3 to 4 bushels per day. This size is used mostly by small fruit growers. Has 16 trays, 12x24-in. with all latest improvements. Made of excellent galvanized iron with galvanized wire cloth trays. Weight, 175 lbs. Price..... **\$25.75**

Size No. 3. Capacity, 4 to 5 bushels per day. This size is made expressly for large family use and small orchards where a portion of the fruit is sold in the market. Has 20 trays, 12x24-in. The latest, improved frame, made of excellent galvanized iron with galvanized wire cloth trays. Weight, 225 lbs. Price..... **\$32.25**

187C2623—Complete with grate. Shipped from factory in Indiana.



New Climax Live Chick Box



Made of cellulose jute board which serves as a non-conductor of heat and cold affording even temperature for the baby chicks. Adopted by the International Baby Chick Association. User must place holes for ventilation which can be done according to weather conditions.

Three ply reinforced corrugated paper. Shipped knocked down; quickly and easily put together.

- 187C3848—25 chick size, ship. wt., 1 lb. Price, each..... **18c**
- 187C3849—50 chick size, ship. wt., 1 1/2 lbs. Price, each..... **24c**
- 187C3850—100 chick size, ship. wt., 2 1/2 lbs. Price, each..... **39c**

Honey Shipping Cases

Very smoothly finished and fitted. Honey in attractive cases brings 1 or 2c per pound better prices than when shipped in rough, rusty looking, home made boxes. Have leak-proof corrugated Manila paper floor and follower board to keep sections tight together. Width of front glass, 2 inches, fitting in grooves. Each case takes 24 scalloped sections, size 4 1/2 x 4 1/2 x 1 1/2 inches. Sold only in lots of ten complete cases. Shipped knocked down.

- 187C5792—Crate of ten Honey Shipping Cases. Weight, 36 lbs. Price..... **\$5.20**

Bulis Parcel Post Egg Carrier

Light, Safe, Practical. Meets Postoffice Requirements. Shipped knocked down flat, easy to put together. On cover of box is printed Eggs with space for name and address. Weight, 7 oz. each for the 1 dozen size; 29 oz. each for the 4 dozen size. Complete with fillers.

Article No.	1 Doz. Size	2 Doz. Size	3 Doz. Size	4 Doz. Size
187C3852—Ea.	\$0.11	\$0.15	\$0.22	\$0.25
187C3854—Doz.	2.50	3.50	5.25	6.00
187C3856—6 Doz.	4.75	6.50	10.00	11.50

Climax Egg Carton

(Not suitable for Parcel Post.) Made of medium heavy, stiff cardboard in one size only, to carry one dozen eggs. Shipping weight per dozen, complete, 17 ounces.

- 187C3844—Price, per dozen cartons..... **15c**
- 187C3846—Price, per 125..... **\$1.25**

Delivery Crates and Egg Cases

Climax Folding Delivery and Field Crates

A good crate at a low price. Capacity, one Bushel level full. Easily set up or collapsed. Folds into small space when not in use. Made of smooth wood. Corners are wired as shown in illustration. Is well made and will stand an unusual amount of rough handling. Lgh., 18 inches, width, 13 1/2 inches, depth, 12 inches; weight, 7 1/2 pounds.

187C2610—Heavy Field or Delivery-Crate. Each..... **54c**



Climax Folding Egg Carrier

Holds 12 Dozen Eggs. Very Popular. Folded flat when empty, by removal of top and bottom. Fillers are also collapsible. Has wood slats on heavy steel wire corner connections. Light and convenient. Furnished complete with fillers for 12 dozen eggs. Shipping weight, 6 lbs.

187C3870—Price, Each..... **60c**

187C3872—Fillers, per set for 12 dozen eggs. Price..... **15c**



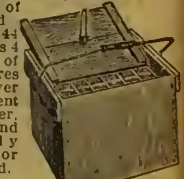
Favorite Egg Carrier

Made of wood. Holds 144 eggs, has 4 layers of 36 squares ea. Cover has patent fastener, easily and quickly locked or unlocked.

Light and strong. Wt., 7 1/4 lbs. Price..... **98c**

187C3876—Price, per set..... **98c**

187C3872—Fillers, per set. Price..... **15c**



Climax Egg Shipping Case

Holds 30 Dozen. No Nails Used. Wood Slats Hinged on Corner Pins. Can be completely collapsed into a flat package. Costs no more than the regular nailed-up crate; is much more serviceable; is furnished complete, with fillers, dividing boards, and cover. Shipped knocked down. Average shipping weight, 13 lbs.

187C3880—Price, each..... **\$1.29**

187C3872—Extra fillers, per set for 30 dozen eggs. Price..... **\$0.44**



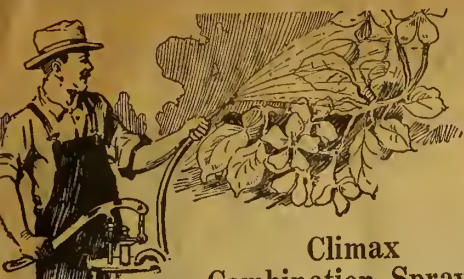
Safety Parcel Post Carrier

Made of corrugated fiber board. Walls are of double thickness. The cellular construction cushions the eggs and provides the most perfect protection against heat and cold. Made to comply with postal regulations, in four sizes with gummed address label. They require no special fitting to put together. Weight, 1 doz. size, 6 oz.; 4 doz. size, 1 lb. 4 oz.

Article No.	1 doz. size	2 doz. size	3 doz. size	4 doz. size
187C3867—One dozen.	\$1.35	\$1.99	\$2.69	\$3.28



Sprayers

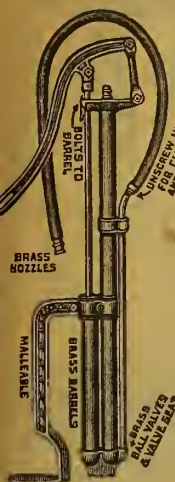


Climax Combination Sprayer

Here is a combination sprayer that answers every requirement of a high class apparatus around the farm or orchard. Made almost entirely of brass and constructed to give the limit of service. It fits any pail or bucket and may be attached to a barrel. Easy to operate. Produces a steady unbroken flow. Will throw a solid stream 40 feet that may be regulated from the finest to a very coarse spray. May be used for whitewashing and for all spraying purposes. An agitator that keeps the liquid stirred up is a big feature.

This sprayer is furnished with a malleable iron stirrup for use with bucket. Also connecting plate for use on barrel, 3 feet of 1/2-inch hose with brass hose clamps and a combination nozzle for fine mist spraying or stream. At the price quoted this sprayer will soon pay for itself in its usefulness around the farm.

- 187C6004—Shipping weight, 11 lb.
Price, complete..... \$6.85
- 87C6006—Bordeaux nozzle for whitewashing. Shipping weight, 4 oz.
Price, each..... 63c



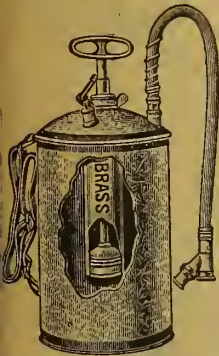
Rite Size Sprayer \$4.95

This sprayer is adapted for all kinds of spraying purposes and for general garden spraying it cannot be excelled. It is strong but light and easily operated by man or boy. One pumping will spray out entire contents in a fine mist or coarse spray, as desired.

Made of heavy galvanized iron or brass. Tank holds 2 gallons. Furnished with detachable brass pump with brass casting. Two feet of good quality hose with a brass combination fine or coarse spray. Stop-cock nozzle which wastes no liquid. Adjustable shoulder strap with snap ends. Shipping weight, about 5 pounds.

187C6008—Price galvanized..... \$4.95

187C6010—Price, brass..... 6.95



Banner No. 22 Compressed Air Sprayer



This Banner No. 22 type of compressed air sprayer is a model that will stand the severest tests with complete satisfaction to you. Tank is made of heavy galvanized steel or brass with double seamed head, a combination that will withstand high pressure, for the seams are well riveted. Handle easily locks into pump head for loosening or tightening pump or for carrying sprayer in hand. Reservoir holds about four gallons. Has adjustable shoulder strap. To eliminate trouble with broken hose, so common in the rough usage a sprayer gets, this model is equipped with spring on hose near top. The automatic brass nozzle wastes no liquid and throws a fine mist or coarse spray that will not clog. Full directions are inclosed with each sprayer.

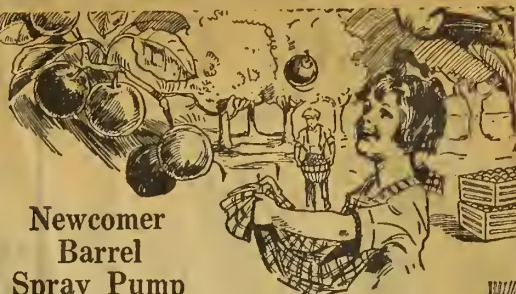
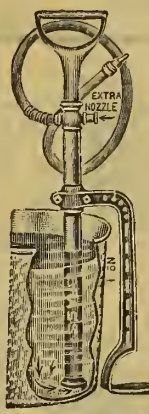
- 187C6002—Shipping weight, 9 pounds. Galvanized tank.
Price, each..... \$6.75
- 187C6003—Sbp. wt., 9 pounds. Brass tank.
Price, each..... \$8.95
- 87C6094—3 ft. brass extension pipe with connection for tree spraying, one or more lengths may be used. Shipping weight, 4 oz.
Price, per length..... 69c

Brass Bucket Spray Pump Price each, \$2.90

No matter how little spraying you have to do, the brass bucket sprayer is the one for long and efficient service.

It is double acting, that is, it works on both the up and down stroke, giving a continuous spray or stream. It is supplied with fire nozzles to throw a horizontal stream 40 ft. Solid brass ball valve and adjustable foot brackets. Made with brass cylinder and plunger, double acting continuous spray or stream. 3 1/2 ft. hose. For all kinds of spraying or for fire fighting. Combination fine and coarse spray nozzles; solid stream fire nozzle.

- 187C6000—Shipping weight, 5 1/2 pounds each..... \$2.90
- 87C6006—Bordeaux Nozzle for whitewashing. Shipping weight, 4 oz. Each 72c



Newcomer Barrel Spray Pump

Quickly attached to any watertight barrel, simply set in barrel and bolt casting to barrel staves. A desirable type of spray pump. All working parts, cylinder, ball valves, valve seats connections and nozzle are brass. This pump requires no priming.

A constant, high-pressure of 125 pounds is possible through the large air chamber of this model. Slow, easy pumping throws a powerful mistlike spray. Special canvas plunger packing will not wear out with strong solutions. Mechanical agitator keeps liquid stirred and prevents settling. Best quality 6-ply 1/2-inch spray hose. Vermorel brass nozzle with two caps, for fine or coarse spray. Impossible to clog as spring needle keeps nozzle clean. The pump is nicely finished in aluminum bronze.

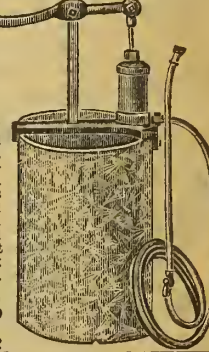
- Adapted for spraying orchards, trees and shrubbery or for cold water painting and whitewashing. Weight, boxed, 42 pounds. Not available.
- 187C6026—Price, pump only without hose and nozzle..... \$12.85
- 187C6028—Price, complete with 5 ft. hose and nozzle..... \$15.75
- 87C6030—Price, complete with 15 ft. hose and nozzle..... \$17.55
- 87C6032—Brass Y attachment for 2 lead hose. Wt., 2 lb. \$1.28
- 87C6034—Extra 5 ft. hose with nozzle and connection. Wt., 8 lb..... \$2.95
- 87C6090—3 ft. 1/2-in. iron pipe for tree spray. Wt., 2 lb. 41c
- 87C6006—Bordeaux nozzle for whitewashing. Ship. Wt., 4 oz. 74c



Climax Paint Sprayer Price, \$13.95

This sprayer will satisfactorily spray mineral, oxide, whitewash, pure oil paints, flat colors, medium size trees, small fruits, bushes, windows, automobiles, whitewashes, henhouses, etc.

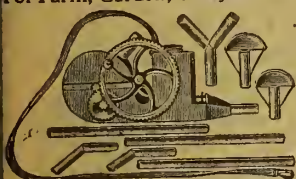
- Pump cylinder is seamless brass tubing, diameter, 1 1/4 in. Brass ball valves and scats. Brass air chamber. Tank is 6-gallon size of heavy galvanized steel. Regularly equipped with 10 feet of 3/8-inch discharge hose; shut-off cock; follower wrench; and spray nozzle. Shipping weight, crated, 30 lbs.
- 187C6060—Climax Sprayer Complete. Each..... \$13.95
- 87C6006—New Bordeaux Nozzle. Each..... 72c



Dry Powder Duster

Distributes Any Dry Powder, Paris Green, Hellebore, Dry Bordeaux Mixture, Bug Death, Etc.

For Farm, Garden, Vineyard or Tobacco Fields



\$9.95

Will cover two rows of potatoes at a time as fast as the operator can walk. Can readily be adjusted for different width rows. The reservoir holds over 1 quart of powder or 4 pounds of Paris Green. The duster is provided with an agitator, producing a constant flow of powder which is blown out by the fan; also a gauge for regulating the amount of powder to be used. Suitable for dusting trees when tubes are connected. The side arms and gear are made of cast iron and the gauge of brass. Regularly furnished complete with shoulder strap, three tubes, two nozzles, one Y and two elbows. Instructions with each machine. Net weight, 6 lbs. Shipping weight, about 10 lbs.

187C6020—Dry Powder Duster. Price..... \$9.95

Wardway Fly and Germ Spray



A liquid preparation for protecting stock from the torture of flies. It is a thorough disinfectant. Spraying lightly twice a day helps to keep flies off both horses and cows. Can be used with any of our sprayers.

187C6100—One gal. jacketed can. Shp. wt., 10 lbs..... 99c

187C6102—5-gal. jacketed can. Shipping weight, 50 lbs..... \$3.65



For Spraying Material, See Page 563

New Boss Whitewash Sprayer

With this pump you can spray your poultry house, stable, fences, basement walls and small farm buildings with whitewash. Good for washing windows, automobiles, etc., as well as spraying trees and shrubbery. A serviceable, well made and inexpensive sprayer.

Made of galvanized steel, nicely painted. Has brass top and bottom, ball valves, bottom brass cap quickly detachable for cleaning valves. Sprayer will not clog. Furnished with 3 ft. hose, 1 ft. brass extension. Brass nozzle for fine or coarse spray or solid stream. Pump is double acting producing a continuous unbroken spray. Shipping weight, 2 1/2 pounds.

- 187C6012—New Boss Sprayer. Price..... \$2.40
- 87C6006—Bordeaux Nozzle. For whitewashing. Shipping weight, 4 oz..... 72c

Climax Wheelbarrow Sprayer

A reliable, effective sprayer for whitewashing or cold water paint, chicken-houses, stables, bog pens, cattle barns, fences, etc. Equally as good for disinfecting. For florists' use it cannot be excelled. The machine is well balanced, light of construction, consistent with strength, making it very desirable as a small hand power machine. Excellent for orchards, shrubbery, gardens.

Has a large strong wheel, which permits of its being easily moved over rough or soft ground.

Has 1 1/2-inch brass pump cylinder; bronze ball valves; valve seats, and all working parts of brass; and iron air chamber, all securely bolted to a 10 gallon galvanized steel tank. Equipped with dasher agitator. Furnished complete, as illustrated, with 8 feet of 3/8-in. discharge hose, and couplings; 3 feet of 1/2-in. iron extension pipe, and nozzle for fine or coarse spraying. Shipped knocked down, but easily and quickly put together. Pump can be removed and tank and barrow used for carrying water, slops, feeds, etc. Shipping weight, crated, 60 lbs.

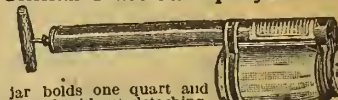
- Not available.
- 187C6062—Wheelbarrow Sprayer. Price..... \$17.95



Climax Glass Jar Sprayer

Glass jar holds one quart and may be refilled without detaching. Pump barrel, 18 inches long of heavy tin nicely painted. Funnel shape jar cap for easy filling or jar may be removed. Adapted for garden and shrubbery spraying, disinfectants, etc. Shipping weight, 3 1/2 lbs.

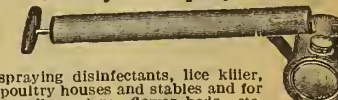
87C6016—Climax Glass Jar Sprayer. Each..... 54c



Handy Tin Sprayer

For spraying disinfectants, lice killer, etc., in poultry houses and stables and for use in small gardens, flower beds, etc. Reservoir holds 1 pt. Throws fine mist spray. Shp. wt., 11 oz.

87C6014—Handy Tin Sprayer, each..... 35c

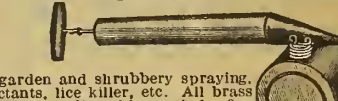


U. T. K. Compressed Air Sprayer

For garden and shrubbery spraying, disinfectants, lice killer, etc. All brass working parts, adjustable nozzle for fine or coarse spray. Easily operated. Throws continuous unbroken mist spray of good volume. One quart size tin; two quart size galvanized reservoir.

87C6018—1 qt. Shp. wt., 1 1/4 lbs. Each..... 69c

87C6019—2 qt. Shp. wt., 2 lbs. Each..... 98c



Pipe Extensions

For High Tree Spraying

Art. No.	Material	Size In.	Lgth. Ft.	Wt. Lbs.	Price Each
187C6090	Black iron	1/4	4	1 1/2	\$0.39
187C6092	Gal. iron	1/4	4	1 1/2	.48
87C6094	Brass	1/4	3	1 1/2	.65
87C6096	Shut off or Stop Cocks.				Brass, 1/4 in. Price..... 85c



Funnel Strainer

Funnel and Strainer Combined. For straining spraying mixture into barrel. Made of galvanized steel, has brass strainer cloth. Diameter at top 9 in. Diameter at spout, 2 in. Depth, 7 in. Shipping weight, 1 lb.

87C6098—Price, each..... 84c

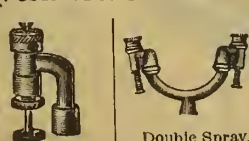
Climax Lever Nozzle



Works automatically with hand and fingers. Will not clog, as obstructions are agitated and forced out simply by pressing lever. Made of brass. Made to fit 1/4-inch hose. Shipping wt. 12 oz.

87C6040—Climax Lever Nozzle. Price..... \$1.95

Vermorel Nozzles



Single Spray, threaded for 1/4-in. pipe. Brass, Easily cleaned by pressure on thumb cap while spraying. Two nozzle caps, for coarse and fine spraying. Shp. wt., 4 oz.

87C6046—Price, each..... 79c

Double Spray. Made of brass, threaded for 1/4 in. pipe. For wide spray. Each cluster has two caps, one for coarse and other for fine spraying. Shp. wt., 8 oz.

87C6044—Price, each..... \$2.45

New Bordeaux Nozzle



For whitewashing, cold water paints and spraying. Makes a flat fan spray. For 1/4 in. pipe. Shp. wt., 4 oz.

87C6006—Price, each..... 72c

Climax Spray Nozzles



Straight Angle Made of Brass. The angle curve reaches difficult places. Have hard rubber wheel and two steel discs, one for coarse and one for fine spraying. Threaded for 1/4 in. pipe. Shp. wt., 2 ounces.

87C6063—Angle Spray Nozzle. Price, each..... 48c

87C6064—Straight Spray Nozzle. Price, each..... 49c

Bamboo Extension Pipe

Brass Inner Tube. For tree spraying, when extension is necessary. In 8 foot lengths only, complete with brass shut-off nozzle connection at end, and drip plate. Standard 1/4 in. thread. Shipping weight, 5 lbs.

187C6042—Price, 8 ft. size, complete..... \$3.95

Spray Hose

For spraying purposes. Made especially to withstand action of poisonous solutions. Any length desired.

87C6104—3/4 in., 3-ply hose. Will stand up to 100 lbs. pressure. Shp. wt., 50 ft., 6 lbs. Price, per ft..... 12c

87C6105—1/2 in., 5-ply. Will stand up to 130 lbs., pressure. Shp. wt., 50 ft., 9 1/2 lbs. Price, per foot..... 16c

87C6106—1/2 in., 6-ply. Will stand up to 250 lbs. pressure. Shp. wt., 11 1/2 lbs. Price, per foot..... 21c



Milk Cans and Dairymen's Accessories



Iowa Pattern Milk Cans
\$4.45 and up

Special lock-joint neck, same as our Elgin cans. Strongly riveted, rounded handle. Body, double tinned, stiff steel plate with rounded bottom hoop. Rigidly riveted together. Smooth finish inside and outside. No cracks or corners in which milk can collect and sour.

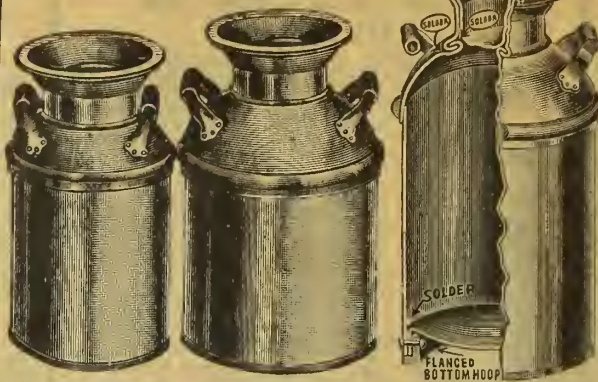
187C4306—5 gal. Diameter, 10 1/2 in. Height, 19 1/2 in. Shp. wt., 11 lbs. Price, each.....**\$4.45**

187C4307—8 gal. size; 21 1/2 in. high. Shp. wt., 15 lbs. Diameter, 13 in. Price, each.....**\$5.60**

187C4308—10 gal. size; 24 1/2 in. high. Shp. wt., 16 1/2 lbs. Diameter, 13 in. Price, each.....**\$5.85**

Not available

Elgin Pattern Railroad Milk Cans
\$5.28 to \$7.63



One of the most popular cans sold. Heavy double-tinned steel plate; all seams heavily soldered. Body and bottom, solidly riveted to bottom hoops. Special lock joint connecting breast with neck; cannot pull apart nor leak. When piled up, weight comes on neck joint; ordinary cans give out here first. Breast and bottom fully rounded, therefore easily cleaned; no open seams to hold milk or dirt. Handles strongly riveted. Superior quality; low prices.

Article Number	Size Gallons	Diameter Inches	Height Inches	Shp. Wt. Pounds	Price
187C4300	5	10	19 1/2	12	\$5.28
187C4301	8	12 1/2	21 1/2	19 1/2	6.90
187C4302	10	14 1/2	24 1/2	21 1/2	7.63

Shipped promptly from stock at Chicago.

Superior Cream Separators

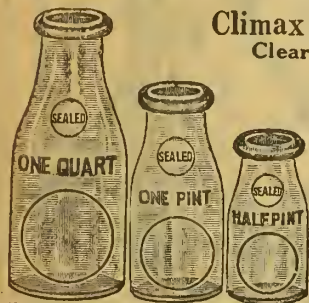


Separates cream from milk in three to four hours or by mixing ice with milk in half the time. As the water mixes with the milk the cream separates and rises to the top. You always have sweet diluted milk which is much better as a stock food than sour milk.

Extra heavy IXX Tin, lock seamed and soldered. Tank enameled blue outside and decorated. Three 26-inch hardwood legs. Average height, 43 in. Price includes tank with gauge glasses, reversible cover with strainer, faucet and hardwood legs. Packed in cartons. Deep cone bottom with faucet allows drawing off milk without disturbing cream.

Article Number	Capacity Gallons	Shipping Weight, lbs	Price
187C4250	10	12	\$3.95
187C4251	14	14	4.40
187C4252	18	16	4.95
187C4253	24	29	5.95
187C4254	32	36	6.10

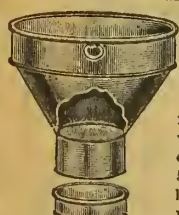
Climax Milk Bottles
Clear Flint Glass



Made of clear, flint glass with inside shoulder at top to take No. 2 standard milk caps. Heavy roll rim at top affords good hand grip. Glass annealed to insure strength and toughness. Will stand a great deal of rough handling. Smoothly finished inside and outside therefore easily cleaned. All bottles marked "Sealed" and stamped with factory numbers. Correct capacities. Packed in wood crates. We assure safe delivery. Shipping weights, dozen, in crates, quarts, 26 1/2 lbs.; pints, 16 lbs.; half pints, 11 pounds.

Article Number	Size	Dozen	Three Dozen	Six Dozen
187C4330	Quarts	\$0.95	\$2.75	\$4.50
187C4331	Pints	.78	2.25	3.95
187C4332	1/2 Pints	.60	1.85	3.40

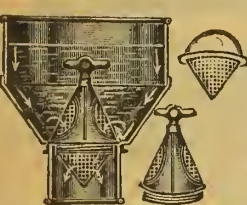
Not advisable to send by mail.



Milk Can Strainer
\$1.10

Made of 3X Charcoal tinplate, making it very substantial and long-wearing. Carefully seamed and soldered. Has brass wire strainer. Neck—5 inches. Measures 11 1/2 inches at large end. Height, 8 1/2 inches. Provided with tinned steel ring at neck to attach extra strainer cloth. Easily cleaned.

187C4352—Milk Can Strainer. Shipping weight, about 2 lbs. Price, each.....**\$1.10**



Climax Double Milk Can Strainer

You may be confident that your Milk is clean if you use this Strainer.

Made of 3X Tin with double, fine 60 mesh brass wire cones which wedge in place; easily removed for cleaning. No direct pressure against strainers. Strains cleaner than any flat strainer made. Meets all dairy requirements for double strainer. Diameter, 9 1/2 inches; neck, 3 inches; height, 8 1/2 in.

187C4350—Shipping weight, 1 1/2 pounds. Price.....**\$1.79**



Milk Delivery Basket

Heavy, twisted, tinned steel wire. Lighter, more sanitary, and stronger than galvanized sheet steel. Very convenient for delivering milk.

187C4354—Holds 4 quart and 2 pint bottles. Shp. wt., 2 1/2 lbs. Price.....**80c**

187C4355—Holds 6 quart bottles. Shp. wt., 2 1/2 lbs. Price.....**88c**



Oiled Duck Dairy Aprons
Waterproof 10 oz. Duck \$2.98

Made of heavy yellow oiled duck with bib and neck strap.

Saturated and coated with four coats of bright yellow water-proofing oil and thoroughly dried. Double reinforcement of oiled canvas at the waist, where the most wear comes. For dairies, liveryes, garages and other places where a water-proof apron is needed. Width, 36 in. Length, 48 inches. Shipping weight, 1 1/2 pounds.

187C4404—Price.....**\$2.98**

Milk Can Brush

18c



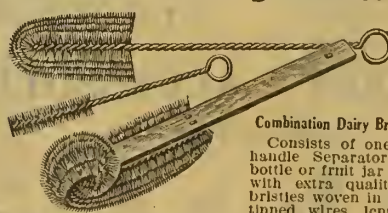
187C4376—Milk can brush, also an excellent brush for general household and kitchen use. Pure white Tampico fibre, 16 inches long, 4 1/2 inches brush part, wood handle, 4 inches. Shipping weight, about 3 ounces. Price.....**18c**

Dairy Hand Brush

187C4374—For scrubbing milk cans, pans, crocks, buckets, churns, etc. Solid wooden back and good quality white Tampico fibre 1 1/2 inches long, outside of block, length of wood back 4 1/2 inches. Shipping weight, 4 ounces. Price.....**19c**



Dairy Cleaning Brushes



Combination Dairy Brush Set

Consists of one wood handle Separator, milk bottle or fruit jar brush with extra quality stiff bristles woven in double tinned wires, length 14 inches. Length of brush proper, 5 1/2 inches. Width of brush, 2 1/2 inches.

One separator spout brush especially shaped for cleaning spouts. Handle twisted flexible wire, with stiff black China bristles. Total length, 16 inches. Length of brush head 4 inches. And one test tube brush especially made for cleaning milk and cream test glassware. Flexible wire handle, stiff bristles. Total length, 8 1/2 inches. Length of brush, 2 1/2 inches. Diameter, 3/8 inch. Shp. wt., set 7 ounces. Price of complete set, three brushes packed in cardboard box.

187C4360—Complete set 3 brushes. Shipping weight, 5 ounces. Per set.....	35c
187C4362—Separator bowl, milk bottle or fruit jar brush only. Price.....	18c
187C4364—Separator spout brush only. Price.....	12c
187C4366—Test tube brush only. Price.....	5c

Milk Can Links, Washers and Seals

Prevents Covers Being Lost or Stolen



187C4420—One link and two washers sufficient for one can, not soldered. Price.....**10c**

187C4422—Milk can cover seals, used on cans like freight car seals. Shp. wt. per 1,000, 8 1/2 lbs. Sold only in full packages of 1,000 seals. Price.....**\$1.95**

Milk Bottle Caps

Per Basket 6,000 Caps \$2.98



These are Durable, well made cans with strong baits and wood handles. Have extra deep covers. We quote special low prices for crate of six cans and do not sell less quantities. The capacities given are trade capacities; but actual capacities are 12 1/2 and 18 quarts. Not available.

187C4410—Heavy, plain, paraffined caps for Climax or other milk bottles. Shp. wt., 2 1/2 lbs. Per carton containing 1,000.....**42c**

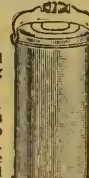
187C4412—Basket with 6,000 caps. Shp. wt., 15 lbs.....**\$2.98**

187C4414—Barrel containing 50,000 plain caps. Shp. wt., 130 lbs. Price.....**\$19.50**

Shipped from stock at Chicago.

Cream Setting Cans

Six for \$4.25

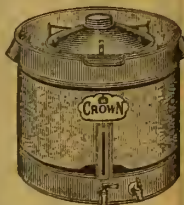


Article Number	Capacity quarts	Shp. wt., about lbs.	Price per crate of 6
187C4312	14	20	\$4.25
187C4314	20	26	4.95

Crown Cream Separator and Aerator

Double Can

Keeps cream cool, pure and sweet. Inner tank pure charcoal tin, galvanized. Water tube connecting inner and outer cans allows free circulation of water and large cooling surface. To allow impure odors to escape after straining, wash strainer, turn lid over and put on perforated disc instead of strainer cone. Removable inner tank. Gauge glasses in both cans show depth of cream. Separate faucets to draw off water or milk. Hose not furnished. Trade capacities 4, 8 and 12 gallons actual capacities 1/2 gallon less.



Article Number	Price	Capacity		Shp. Wt. Lbs.
		Milk Tank	Water Tank	
187C4258	\$5.35	4 gals.	9 gals.	14
187C4259	6.50	8 gals.	18 gals.	20
187C4260	7.50	12 gals.	26 gals.	24

Milk Cooler and Aerator

Takes out animal heat and odor; cools and aerates milk as it flows from perforations around bottom of upper tank and over drum. Heavy galvanized steel bottom plate. Double cheese cloth strainer with spring pins. Agitator for stirring ice mixtures. Full directions. Not available.



Article Number	Capacity	Size of Dairy	Shp. Wt.	Price
187C4265	34 qts.	25 to 50 cows	35 lbs.	7.65
187C4266	52 qts.	50 to 100 cows	40 lbs.	9.10

Climax Parcel Post Butter Boxes

Ship Your Butter by Parcel Post

With the strong outer wall taking the bumps and the flexible inner wall acting as a cushion the Climax Parcel Post Box, made of hard finished, double-faced cardboard, will safely carry butter and may be used many times.

No. 1 one pound size made for standard butter prints, inside dimensions, 4 1/2 x 2 1/2 x 2 1/2 inches. No. 2 size will hold two one-pound prints, measuring, inside, 5 1/2 x 4 1/2 x 2 1/2 inches. Weight, per dozen, of No. 1 size, 1 1/2 pounds; per dozen, No. 2 size, 2 1/2 pounds.

187C4394—No. 1 Butter boxes, per dozen.....**49c**

187C4395—No. 2 Butter boxes, per dozen.....**57c**

Butter Molds

Made of clear, hard maple smoothly finished inside and out, makes standard one-pound plain prints. When wrapped in Pioneer Passale Parchment paper—two screws enable you to adjust the weight of the print from 3/4 to 1 1/4 pounds.

187C4400—Mold, weight, 1 pound. Price.....**45c**



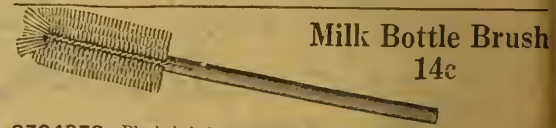
Climax All Steel Milk Stool

Will support over 500 pounds. Light and strong, better, cheaper and more reliable than home made stool. Made of heavy high quality, hard temper, pressed steel which is slightly flexible and although stool has four legs, it will not rock when placed on rough or uneven floor. Has nice, smooth wooden handle under front end by which stool may be picked up. Handsome enamel finish. Size, 12x8 1/2 inches, 9 inches high. Shipping weight, about 5 pounds.

187C4348—Climax Steel Milk Stool. Price, each.....**\$1.23**



Milk Bottle Brush
14c



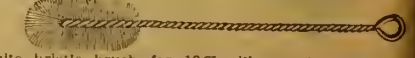
187C4372—Black bristles woven into double strands of tinned wire, wood handle. Total length, 16 inches. Length of brush proper, 5 inches. Width, 3 inches. Shipping weight, 2 ounces. Price.....**14c**

Test Tube Bottle Brushes

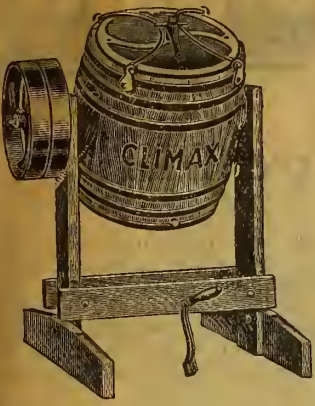
11c

187C4368—White bristle brush for 10% milk test bottles. Shipping weight, 1 ounce. Price.....**11c**

187C4370—White bristles for 9 and 18 gram cream test bottles. Shipping weight, 1 ounce. Price.....**13c**



Dairy Supplies—Corn and Seed Testers



Climax Power Churn

Churn with Power
The Easy Way

The ease, convenience and efficiency of turning your churn to a gasoline engine or her power unit is gaining favor every day. Up-to-date farmers realize that engine power or churning saves in every way. The strongly built Climax Power Barrel Churn lasts through years of use. Varnished oak barrel, rust-proof hoops and extra heavy frame. All sizes have 12x12-inch tight and loose pulleys; also tank. Complete directions with every churn. (P.M., 20, 25 and 35 gal. churns, 50 R.P.M. shipping weight, 55 to 95 lbs.)

Article Number	Price	Holds Gallons	Churns Gallons
87C4208	\$ 9.65	10	2 to 5
87C4209	10.20	15	2 to 7
87C4210	11.40	20	3 to 10
87C4211	12.75	25	4 to 12
87C4212	14.90	35	5 to 17

Shipped from factory near Chicago.

Churn Pulley Set

187C4684—Tight and Loose Pulley Set with Gudgeon shaft. Pulleys, each 12x2 1/4 inches, for 6, 10, 15 and 20 gallon churns. Weight, 24 lbs. \$3.98
187C4688—Pulley Set. Pulleys, 18x2 1/4 inches for 25 and 35 gallon churns. Weight, 38 lbs. Price, \$6.35

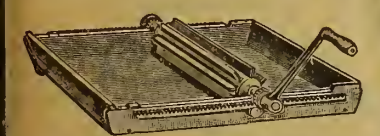
Cedar Cylinder Churns

Not Mailable

Easy to turn. Four paddle dashers agitate cream violently to produce butter quickly. Made from high quality clear cedar. Lock and crank made of cast iron, heavily tinned. Has a four-paddle dasher. Crank locked to churn with clamp and thumb-screws, which prevents leakage. The top is large and easier to remove. Lower rests removable. Hoops and metal parts are galvanized and will not rust. Ship wt., 14 to 25 lbs.

Article Number	Price	Holds Gals.	Churn Gals.	Hght. Ins.	Lght. Ins.
87C4226	\$3.45	3	2	15	9 1/2
87C4227	3.90	4	3	17	11 1/2
87C4228	4.50	7	4	18 1/2	13 1/2
87C4229	5.25	10	6	20	15 1/2

Climax Butter Worker



Will work a batch of butter in three to five minutes. Smoothly finished and easily cleaned. Crank rollers and gears are malleable iron. All metal parts are heavily galvanized. Ship. wt., 25 to 50 lbs.

Article Number	Price	Size Inches	Works Lbs.
187C4324	\$9.95	14x23	10
187C4325	11.20	17x27	20

Rennet Tablets for Cheese Making
24 Tablets in Box. Necessary when making cheese at home.
87C4380—24 Rennet Tablets. Ship. 95c wt., 3 oz. Price.....

Vegetable Parchment Butter Wrappers

For wrapping butter, cheese, sandwiches, meat, for putting up lunches for school and picnics, and for many other household uses. Keeps butter clear and sweet for market. The same weight and quality as used by the best creameries throughout the country. Our Parchment Paper, is a pure white, tough vegetable fibre, 30 lb. stock, heavy parchment 1000, 500, and 250 sheets packed in cardboard boxes. Ship. wt., 8 to 10 lbs. per 1000 sheets.

Article Number	Size Inches	250 Sheets	500 Sheets	1000 Sheets
87C4406	8x11	65c	\$1.20	\$2.24
87C4408	9x12	75c	1.40	2.70

Perfection Sanitary Churn



Interior Working Parts

A Good High Grade Churn at a Low Price

This churn is made of metal instead of wood and you can always get the right temperature for best churning by placing it in hot or cold water to suit conditions. In winter place the churn on top of stove and turn dasher a few times. This makes churning easier. Churns the best butter in 5 minutes. Made of extra heavy LXXX tin plate: rounded bottom inside, small quantities of cream can be easily churned even in largest size churn. Removable clear ash dasher easily and instantly taken apart. Special nickel-plated faucet for drawing off buttermilk. Special crank shaft packing box prevents leaking. Full directions with each churn. Packed in cartons.

Article Number	Price	Holds Gals.	Churns Gals.	Shipping Weight
187C4232	\$4.50	3	1/2 to 1 1/2	7 1/2 lbs.
187C4233	4.85	5	1 to 2 1/2	10 lbs.
187C4234	5.50	7	1 to 3 1/2	11 lbs.
187C4235	9.95	10	2 to 5	12 lbs.

20th Century Steel Churn

Easy to Clean and Keep Clean

All steel, heavily double tinned inside. Outside enameled handsome blue overglazing. Cork-lined cover of pressed steel double tinned. Absolutely sanitary. Rounded inside corners, easy to clean, no place for sour cream or dirt to lodge. No seams, no books. Riveted heavily tinned steel ears and balls. Latest improved hand wing nut lock. Will last a lifetime. The 7 and 10-gallon size have braced welded steel frames, as shown—24 inches from floor to center of crank. Five-gallon size has short 11-inch frame for table churning. Full directions with each churn. Not Mailable.



Article Number	Price	Holds Gallons	Churns Gallons	Shipping Weight Pounds
187C4220	\$ 6.95	5	1 to 2 1/2	18
187C4221	9.45	7	1 to 3 1/2	26
187C4222	10.50	10	2 to 5	31

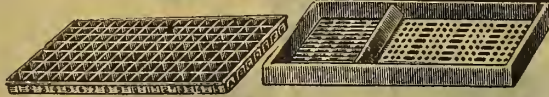
187C4223—Single 10-inch double flanged pulley for 1-inch belt for 7 and 10-gal. churns only. Weight, 6 lbs. Price.....\$1.25

Seed Corn Testers, Graders, Dryers

Brown's Seed Corn Tester Climax Seed Corn Tester Iowa Corn Grader



Made of wood—the complete tester includes 12 racks, each will hold 24 samples from test cars—288 ears tested at one time. Moisture hole in each seed chamber allows the moisture to flow from one compartment to another. Pan is supplied at the bottom to catch all seepage. Instructions furnished with each outfit.
187C2502—Complete outfit (ship. wt., boxed 50 lbs.) \$4.32 Price.....

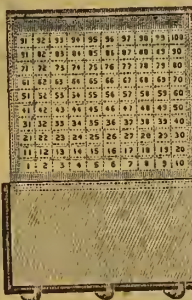


87c This grader will grade your seed for bigger yields.

Make your land give full returns. A complete convenient method of testing seed corn or other grain. Consists of large partitioned pan of heavy galvanized steel. Partitions removable for easy cleaning. Can test samples from 105 ears at one time. Compartments numbered and corresponding tags furnished with nails to attach to ears of corn. Complete directions with each. Ship. wt., in carton, 4 1/2 pounds.

A 3-grade Grader; it gives Two Grades of Undesirable kernels, and One Perfect Grade for planting. Made in two compartments the first or large compartments permitting two grades of smaller gradings to go through. Turning movable partition in center allows balance to flow to smaller compartment where the corrugation allows planting grade of uniform size to go through, keeping back extra kernels. Screen is galvanized steel frame of wood. Never clogs; emptying or transferring corn to other compartment automatically cleans it. No reversing, turning over or adjusting. Size, 12 1/2 x 21 1/2 inches. 187C2512—Shipping weight, in carton, 3 1/2 lbs. Price... 87c

Sure Way Seed Tester



Planting tested seeds means a certain increase in the yield over untested seed. Tester consists of a pocket compartment of special fabric, selected for its great capacity to absorb and retain moisture. Contains 100 pockets, each pocket 2x1 1/2 inches square and numbered, 1 to 100. At lower end is oil cloth, which forms a waterproof cover when tester is rolled. Can be examined at any time while testing without disturbing seeds. Can also be used to test beans, peas, beets, melons, oats, wheat, etc. Pocket compartments are of special fabric and will not decay under constant moisture. Complete directions for operation furnished with each outfit. Shipping weight, 12 ounces.
87C2520—Sure Way Seed Tester, complete. \$1.28 Price.....



Climax Double Rotary Corn Grader

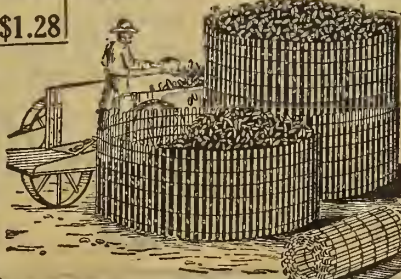
Actually gives you five grades. Simple and compact. Screw feed on crank shaft regulates flow of corn perfectly. Capacity 10 to 12 bushels per hour. Height, 30 inches, length, 32 inches, and width, 15 inches. Shipping weight, packed 45 pounds. Measures and basket not furnished.
287C2514—Climax Double Rotary Corn Grader. Price..... \$9.65
Shipped from factory in Ohio.

Climax Portable Corn Crib

Made of heavy, hardwood slats, set 1 1/4 in. apart. Wire is best galvanized. The 400 and 600 bu. size are shipped in one roll. Larger sizes in 2 sections, height, 4 ft.; one to set above the other, making total height, 8 ft.

Article No.	Price	Cap. Bushels	Diam. Circle	Ship. Weight
287C2840	\$ 8.45	400	12 ft.	250 lbs.
287C2842	9.95	600	14 ft.	340 lbs.
287C2844	12.15	900	17 ft.	420 lbs.
287C2846	14.45	1200	19 1/2 ft.	480 lbs.
287C2848	24.85	1500	22 ft.	640 lbs.

Shipped from factory near Chicago.



Hawthorne Hand Churn

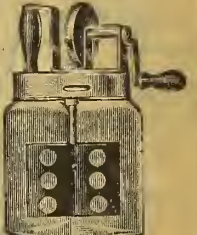
Doing good, every-day service on thousands of farms. Seasoned clear white oak throughout, pine cover, reinforced, will stand the wear and tear of use for years. Bails are attached to malleable bolted ears on the outside of the churn. The stands are of hardwood. Cover has cork gasket to prevent leaking. Barrel varnished natural finish with hoops painted to prevent rusting. For the price, we believe there is no other barrel churn on the market which will compare favorably in real tests of daily service. Complete directions sent with every churn. Ship. wt., 23 to 60 lbs.

Article Number	Price	Holds Gallons	Churns Gallons
187C4200	\$4.79	6	1 to 3
187C4201	5.50	10	1 to 5
187C4202	6.20	15	2 to 7
187C4203	7.18	20	3 to 10
287C4204	8.43	25	4 to 12
287C4205	9.90	35	5 to 16

Shipped from Chicago stock except the 25 and 35 gallon sizes, which are shipped direct from factory near Chicago.

Lightning Butter Maker

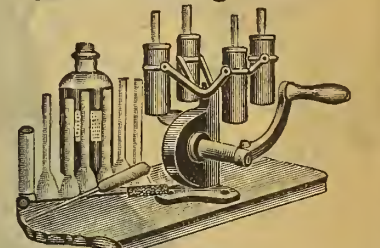
Makes two pounds of butter from one with the addition of a pound of fresh sweet milk. The process requires only a few minutes' time.



This churn can also be used to make butter from cream or a cream whip, egg beater, ice cream freezer, batter mixer and butter renovator.

It is light running, easy to turn. The jar is made of heavy flint glass. The top and working parts are cold-rolled steel, electrically welded and nickel-plated. This churn is sanitary and built for long service. Full instructions with each butter maker.
87C4240—Lightning Butter Maker. Capacity, 2 qts. Shipping weight, 6 lbs. Price.....\$1.55
87C4241—Lightning Butter Maker. Capacity, 4 qts. Ship. wt., 10 lbs. Price...\$2.25

Babcock Pattern Milk and Cream Testing Outfits



Heavy cast frame with special clamp to attach to any table. Has machine-cut spiral gear and steel worm spindle enclosed in grease-tight case, detachable bottle holders with swinging pockets.

Prices include test bottle, funnel, brush, acid, acid measure, pipette and complete directions. Testers for use in Wisconsin furnished with milk and cream test bottles, funnel, acid, pipette, acid measure and brush. Average weight, boxed, about 14 pounds.
Not Mailable. Regular Wisconsin
187C4340—4-bottle size for milk and cream... \$8.90 \$9.50
187C4341—2-bottle size for milk and cream... 7.70 8.35
187C4342—4-bottle size for milk only... 8.40
187C4344—2-bottle size for milk only... 7.15

Extra Glassware for Babcock Testers

For use in making milk tests. Wisconsin Glassware must be used in Wisconsin, according to State Law.
Article No. Style Regular Wis.
87C4382—40% Cream... 23c 26c
87C4383—50% Cream... 25c Not made
87C4384—10% Milk... 22c 29c
87C4385—Skimmed Milk 85c 87c
87C4386—Acid Measure... 12c 13c
87C4387—18 c.c. Cream Pipettes... 20c Not made
87C4388—17.6 c.c. Milk Pipettes... 19c 21c
87C4390—Combination Milk and Cream Pipette... 18c Not made
Average shipping weight, each, about 6 ounces.

SATTLEY Separator for Close Skimming

**Easy to Run
Easy to Clean
Skims to a Trace**

**Easy Payment
No Money Down**

30 Days' Free Trial

You do not have to send any money with your order for a Sattley Cream Separator. Just fill out the order blank for Separators on page 1030 of our Catalog, mail it to us and we will promptly ship the separator so that you have time to inspect and fully appreciate the fine materials and skilled workmanship, the simple construction and smooth operation of the Sattley, and your genuine satisfaction of using it, before you have to pay one cent. If you are thoroughly satisfied send us your first payment \$5.00 and then \$5.00 each month following until the purchase price is paid.

The reason for our liberal offer of allowing you to use the Sattley for 30 days before you pay a cent, is because we know that after you have once used the Sattley Cream Separator you will keep it and never want to use any other, because the Sattley is everything a high class Separator should be and will back up the claim we make for it.

Why You Should Buy The Sattley

The Cream Separator is no longer an experiment or a luxury—it is an absolute necessity on every farm having two cows or more. The question must decide however is, what make of separator to buy?

You know it is to your advantage to buy the best—you also want to get it at a reasonable price. The Sattley Cream Separator solves these problems in a Satisfactory and Economical way—for the Sattley is guaranteed to skim as close and last as long as the Best Separator made, regardless of price and is sold to you at a price that is remarkably low for the exceptionally high quality. Read every word on the following pages and you too will realize there is no other separator made—high priced—cheap or medium priced—that offers to the farmer as much Separator Value for every dollar of cost as does the Sattley.

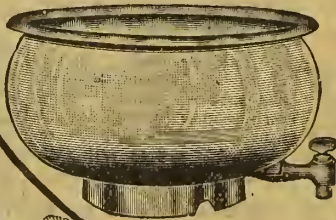
If You Could Visit Our Factory

The Sattley Separator is made in our own factory. If we could show you step by step the unusual quality of material and workmanship that goes into the Sattley Separator; let you see for yourself the expert workmanship and careful attention given to every part made and the "super-tinning" operation on all parts used insuring a long life and honest value in Sattley Separators, if we could explain why we go to so much expense to make them durable and trouble proof and if you could see with your own eyes every operation necessary to complete a Sattley Separator you would not be satisfied with anything less than Sattley Quality in a Separator you buy. Save money and guarantee yourself satisfaction by mailing your order for a Sattley Cream Separator today.

Send your order to Chicago and we will ship from which city to make shipping easiest. You pay freight only from the warehouse nearest you.

Springfield, Ill. Fargo, N. Dak.
Des Moines, Ia. Kansas City, Mo.
St. Paul, Minn. Omaha, Nebr.
Pittsburgh, Pa. Oklahoma City, Okla.
Atlanta, Ga. Portland, Ore.
Ft. Worth, Tex.

Sanitary Anti-Splash Supply Can



Shaped so that when milk is poured in there is no splashing or slopping over. Made of extra heavy pressed steel of one piece, heavily tinned, no seams or beads to catch dirt. Sanitary and easily cleaned. Can deliver full capacity to the last drop of milk.

Prices

Size	Cash Price
375-lb.	\$63.50
500-lb.	\$75.00
750-lb.	\$84.75
950-lb.	\$93.50

No. 15—Skims 180 Quarts of Milk per Hour.
Universal size for small dairies, handling the milk of from 1 to 5 cows. This separator will give the man who has a small dairy the best results possible to secure.
Speed of crank, 60 revolutions per minute; Bowl revolves only 6,000 to 7,000 R.P.M.
No. 15. Shipping weight, 160 lbs.
Easy payment price.....\$65.50 Cash payment Price.....\$63.50
Shipped from warehouse nearest you.

No. 17—Skims 250 Quarts of Milk per Hour.
Our most popular size. Very light running. Can be handled easily by anyone. A good capacity separator for dairies of from 1 to 10 cows.
Speed of crank, 60 revolutions per minute; Bowl revolves only 6,000 to 7,200 R.P.M.
No. 17. Shipping weight, 170 lbs.
Easy payment price.....\$77.00 Cash payment price.....\$75.00

No. 19—Skims 375 Quarts of Milk per Hour.
Recommended for dairies of from 4 to 20 cows. Skims much faster than the smaller size, turns easily. A very popular size for hand operation or for power operation with power attachment 287C4658—described on page 1015.
Speed of crank, 55 revolutions per minute; Bowl revolves only 6,000 to 7,200 R.P.M.
No. 19. Shipping weight, 190 lbs.
Easy payment price.....\$86.75 Cash payment price.....\$84.75

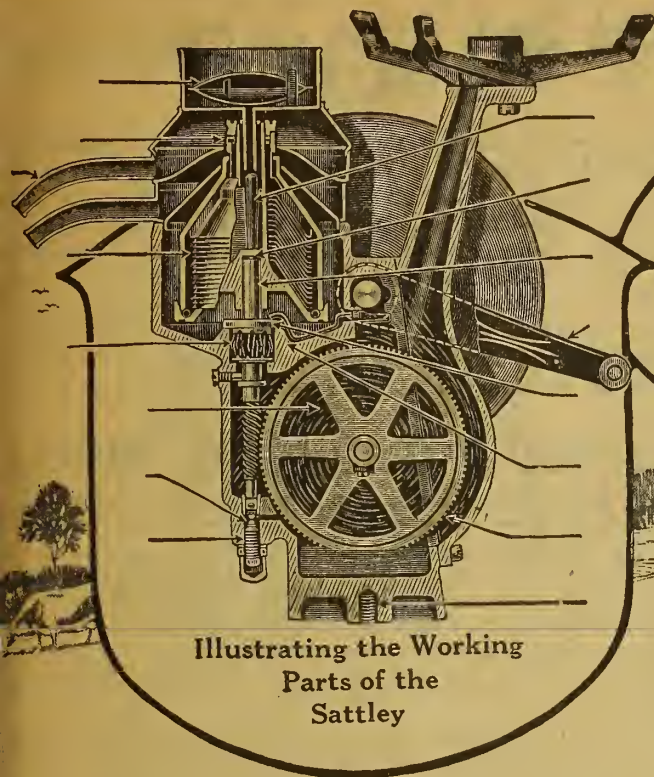
No. 21—Skims 475 Quarts of Milk per Hour.
The ideal size machine for large dairies of from 5 to 30 cows. It is usually operated by power with power attachment 287C4658 shown on page 1015, although it can be operated by hand.
Speed of crank, 50 revolutions per minute; Bowl revolves only 6,000 to 7,200 R.P.M.
No. 21. Shipping weight, 210 lbs.
Easy payment price.....\$95.50 Cash payment price.....\$93.50

How the Sattley is Different and Why it is Better

The Sattley center balanced bowl is supported by a spindle midway between top and bottom, avoiding top-heaviness and wobbling. Spindle is detached from the bowl, is always in the machine, therefore, danger of springing is removed. Sattley Bowl runs only 6000 to 7000 revolutions per minute to get same skimming effect produced by other bowls running at 9000 to 13000. This low speed bowl means less wear and longer life. Spindle is made of special alloy steel accurately ground to 4-1000 of an inch, revolves on specially hardened steel points, which are easily replaced at small cost after years of service.



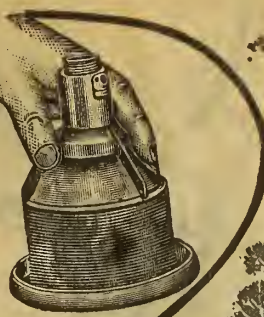
Quick Service on Renewals and Repairs



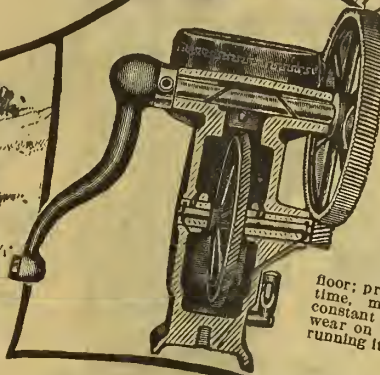
Illustrating the Working Parts of the Sattley

Profit Making Skimming Device

There are but 30 to 33 Discs in a Sattley Separator and every one is a producer—each one skimming 100% from the entire surface. This means increased profits. Discs are of pressed steel, heavily tinned. Steel discs tinned, are more efficient in skimming and more sanitary than the nickel plated discs, used in some separators.



See Page 1030 for Easy Payment Order Blank



Self Oiling Splash System

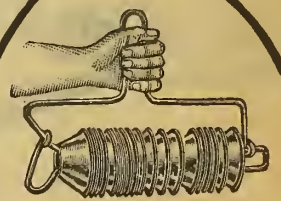
No oil cups to fill or adjust. Every one who has had experience with oil cups knows what a nuisance they are, and will appreciate this great feature of Sattley's superiority. One supply of lubricant is sufficient for three to four months. This system absolutely does away with any chance of oil milk or dripping on the floor; prevents hot bearings; saves time, money and trouble. This constant lubrication reduces the wear on machine and the work of running it.

Careful Workmanship Adds Years To The Life

There is no Cream Separator made that excels the Sattley efficiency and high grade construction. Simplicity in construction is the key note of Sattley Separator Success (see illustrations on this page.) All material that enters into the construction is the best that money and experience can buy. Sattley Separators are built by Experts; each one is given just one thing to do in the assembling, making

each mechanic a past master of his particular work. This assures absolute accuracy of all parts and carefulness as to details.

Accuracy of bearings, improved gears, self balancing bowl, self oiling system, all these are the result of 20 years planning, designing and perfecting and means long life, satisfactory service, skimming to a trace and easiest running.



Easy to Keep Clean and Sanitary

This feature will appeal to every woman who uses a Separator—and to every man too. Note the simple way in which skimming discs are removed from bowl and shaft and how easily they are washed and sterilized. Takes only two to four minutes to give them a thorough scalding and dry them. Each disc is pressed from one piece of steel is heavily tinned and Electrically welded.

Well Known For Its Close Skimming

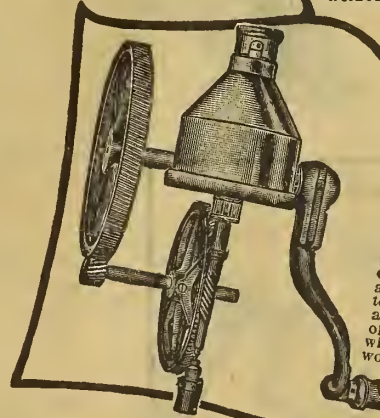
The Skimming Bowl is the heart of the Cream Separator. All other parts are solely for the purpose of making it possible to turn the bowl rapidly in order that it may perform its work properly. Our Separator Engineers after many years in designing and experimenting have perfected the Sattley bowl, that for close skimming qualities cannot be excelled by any separator on the market. The Bowl Center or tubular shaft is made from a solid piece of steel and takes 42 separate machine operations to make it. 3 wings are centrally

placed inside the bowl center, which distributes all the milk in a thin stream over all the discs, not over only a few, making each do its maximum work, thereby separating more thoroughly and getting practically all the butter fat from the milk, and does it in two thirds less time than other Separators on the market. That's the reason why the Sattley Cream Separator is well known for its close skimming.

There's A World of Satisfaction In Using The Sattley Separator

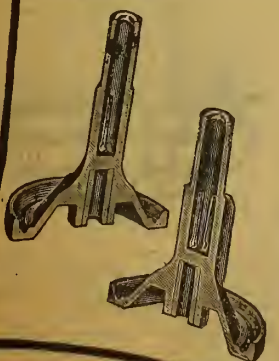
The following are only a few of the reasons why the Sattley Separator makes friends on the farm, because it is low in price, of the exceptionally high quality, economical in day to day operation and represents increased profits in cream yield. It is easy to operate, a child can run it. Accuracy of bearings, improved gears, self balancing bowl, self oiling system—all these mean easiest running. Because it is self oiling, no oil cups or lubricators are necessary. Every bearing perfectly oiled every time the handle is operated by the positive, constant circulation

of fresh oil, supplied by the Sattley Automatic Oil System. Because it is the right height—easy to fill without spilling milk and less tiresome for women to operate than most separators on the market. Because it has a low speed bowl, half the speed of others, does not break up the butter-fat, yet separates it perfectly. Finally, because the drudgery of cream separating disappears when the Sattley is used. You too, will say there's a world of Satisfaction in using the Sattley. TRY IT.



Simplicity in Construction

We have avoided adding any parts that are not necessary. We have builded for strength, durability and quiet operation. Illustration shows the bowl, spindle and gearing as they would look with frame removed. Note the improved noiseless clutch. Gears are wide faced and accurately cut. The faces of all gear after cut to insure faultless operation, scientifically designed with correct proportion for the work they are to do, with a large factor for safety. Worm Gear is made of Phosphor Bronze.



Full Feeding Tubular Shaft

Illustration shows tubular shaft cut in half to give you an idea of inside construction. Three slot opening in the shaft feed from top to bottom. All of the milk is thus fed to bottom. The discs. 3 wings on the inside break up the whole milk wall, insuring cleaner separation. This is a patented feature, designed by the builder of the Sattley for this machine exclusively and cannot be used by any other manufacturer. That's the reason for Sattley being well known for its close skimming qualities. Tubular shaft is of extra hardened steel, heavily tinned.

Superior Neck Bearing

The new top bearing is the simplest and most satisfactory ever devised for the purpose, possessing every advantage and none of the disadvantages of all other top bearings. The bearings are special die castings, accurate to 10/1000 of an inch, are made of an anti-friction metal that is far superior to a babbit bearing and is almost frictionless, which means long life. Spring is made of finest, heavy piano wire steel, tempered after forming.



Prices are the same from all warehouses



Quick Shipment from a Warehouse Near You

- Springfield, Ill.
- Des Moines, Ia.
- Saint Paul, Minn.
- Fargo, No. Dak.
- Pittsburgh, Pa.
- Kansas City
- Omaha, Neb.
- Oklahoma City, Okla.
- Fort Worth, Texas
- Atlanta, Ga.

Factory-to-You Prices

Do Not Cost More To Make Than
The Sattley

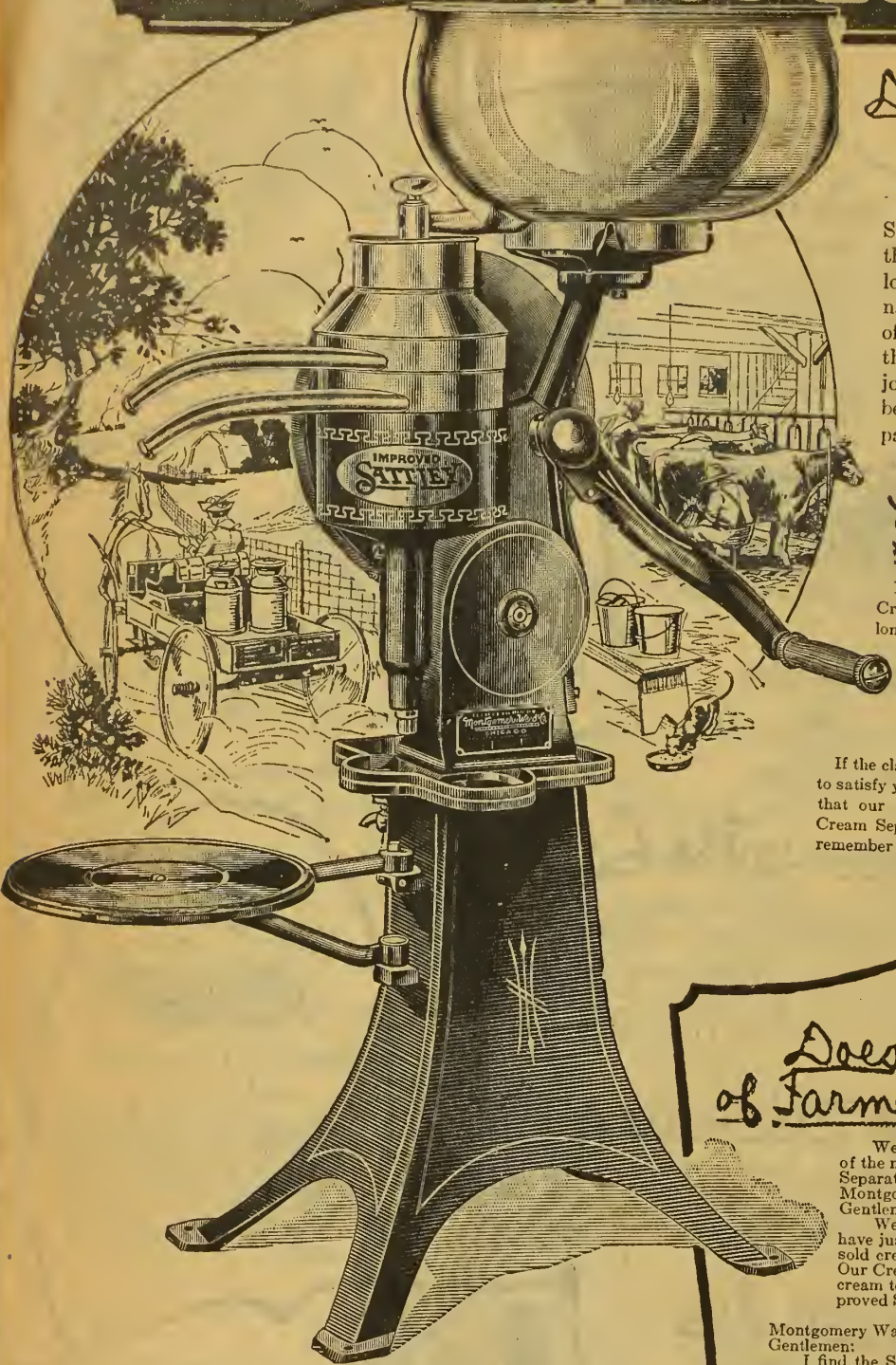
What's in a name? The best, the highest priced and most widely known Separator sold by dealers does not cost the manufacturer any more to make than the Sattley costs us—does not skim any closer and will not last longer. Why the big difference in selling price to the farmer? Does name add to the quality or price? No! The difference is in the method of selling. When you buy a separator from a dealer you pay three per cent for the manufacturer's, jobber's and dealer's profits. These extra profits, jobber's and dealer's, do not add a particle to the quality of the separator because that is all built in at the factory, but when you buy the Sattley you pay only for the actual manufacturing cost plus our small margin of profit.

Individual Factory Test of Sattley
Guarantees Your Satisfaction

By the testimonials received from Sattley users we feel justified in claiming that the Sattley Cream Separator cannot be excelled in skimming efficiency, material, workmanship or long service by any cream separator on the market, regardless of name, make or price.

Every Sattley Separator before leaving our factory is fully assembled, run for several hours, taken apart and examined by experts and then assembled again and through a thorough skimming test. Every Bowl is put through this test and is guaranteed to skim to 3/100 of 1 per cent or better, no matter what density of cream is desired.

If the claims we have made on these pages are true, you want a Sattley Cream Separator. Then to satisfy yourself is to make a trial. YOU DO NOT RISK A CENT. If the Sattley proves to be that our claims are true, as we know they are, you will have made the wisest, most economical Cream Separator purchase possible. YOU ARE THE JUDGE. Order your Sattley TODAY and remember our Guarantee of complete Satisfaction or your money back.



Does The O.K. of Thousands
of Farmers Mean Anything To You?

We have many satisfied Separator customers like these. Shown below are a few of the many letters received that testify as to the excellent quality of Sattley Cream Separators.

Montgomery Ward & Co.,
Gentlemen:

We ordered a Sattley Cream Separator, Size No. 15, the fall of 1917 and we have just neglected to write and tell you how well pleased we are with it. We have sold cream for over a year with it and have had the best test at our Cream Station. Our Cream Test was 46%. Think that pretty good. A neighbor has a ——— and our cream tested 10 per cent more than theirs. We sure can speak a good word for the Improved Sattley Separator.

Yours truly, L. R. Ohnstead.—Mont.

Montgomery Ward & Co.,
Gentlemen:

I find the Sattley Cream Separator No. 17 to be more easy to turn than any other Separator. Have turned six different makes of Separators and it is sure a cream Saver. I compare the Sattley with any Separator on the market. I judge the Sattley the best of all and if I should buy again it would be a Sattley.

Very truly yours, Harry H. Koepke.—Minn.

Mr. Frank Korcal added this Post-script to his letter:—"I just set up the Improved Sattley Separator about a week ago and I must tell that I wouldn't take \$100.00 for it if I could not buy another. It gets all the cream out of the milk and it is the most simple Separator I have ever seen and I am not afraid to recommend it.

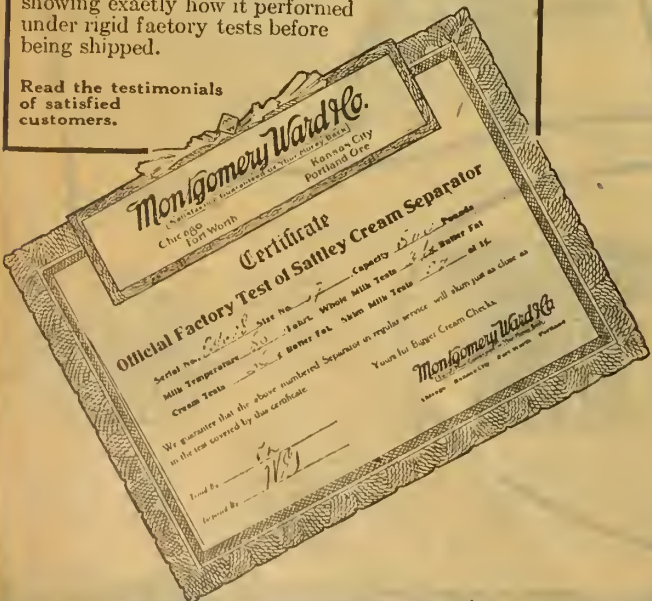
Yours truly, Frank Korcal.—Minn.

Remember Sattley Pays for Itself
See Page 1030

Tested at Our Factory

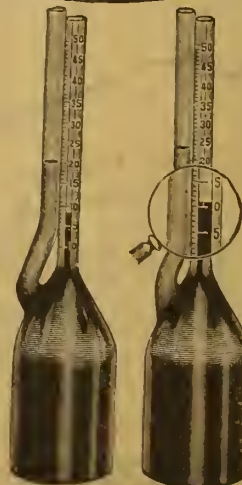
Here is a fac-simile of the Certificate every Sattley Buyer receives with his Separator, showing exactly how it performed under rigid factory tests before being shipped.

Read the testimonials of satisfied customers.



Babcock Tests Prove Sattley Separators the Best

The illustrations of these Test Tubes were made from actual photographs. They were not selected, but tubes taken at random after a morning's testing. The tests were made with 4% milk at a temperature of 85 degrees, and both test tubes show that there was practically only about 1/100 of 1 per cent butter fat left in the milk. All Separators are Guaranteed to do 3/100 of 1 per cent or better.



Send your order to Chicago or Kansas City and tell us from which city to make shipment. You pay freight only on the warehouse nearest you.

- | | |
|-------------------|----------------------|
| Springfield, Ill. | Fargo, N. Dak. |
| Des Moines, Ia. | Kansas City, Mo. |
| Saint Paul, Minn. | Omaha, Nebr. |
| Pittsburgh, Pa. | Oklahoma City, Okla. |
| Atlanta, Ga. | Ft. Worth, Tex. |
| Portland, Ore. | |

Sattley Electric Drive Cream Separators

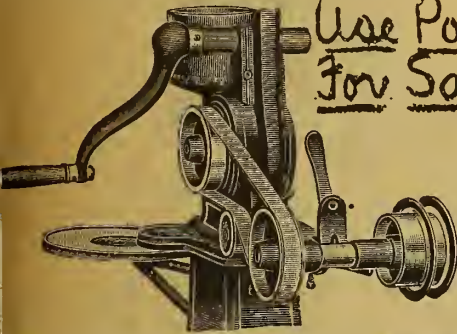
Time is Money - Save It By Electricity

By purchasing an Electric Drive Sattley Cream Separator you can realize a saving that should not only be measured in hours but actual dollars, providing you have electricity on your farm. Electric drive insures a constant uniform speed of the bowl with results that assure you the closest possible skimming.

The same high quality materials that are in the Sattley Hand Power Separators are to be found in the Electric Drive Separator. The Sattley Electric Drive is so arranged that the hand crank remains in place and it may be turned by hand if necessary.

Attention in your order whether you have Direct or Alternating current and give voltage. If alternating, whether single, two or three phase and number of cycles. Your electric company will give you this information.

Use Power Attachment For Sattley Separators



With the extended use of power machinery on the farm and in the dairy has come a gradual demand for a power attachment by owners who have run their machines by hand. Primarily a hand operated machine, the 1920 Sattley Cream Separator by means of a simple attachment becomes a power driven unit.

It is important that the transmission of power to a hand separator be uniform and regular, entirely free from shock or jerky motion.

The new Sattley Power Drive is one of the simplest and best means of power driving a hand separator yet devised. It is designed for, and is used exclusively on Sattley Separators.

Especially recommended for power drive for No. 21 Sattley Separator. The power is transmitted by belt to the tight and loose pulley set provided with a belt shifter, thence from the short intershaft pulley by an endless belt to the pulley on the special extended lower or worm wheel shaft of the Separator. A novel feature is the idler pulley belt tightener which automatically absorbs by a coiled spring all shocks resulting in irregularities of speed which occur with practically every kind of power. Outfit consists of power drive frame with set screws, with light and loose pulleys, belt shifter, idler pulley and spring, driven pulley, short leather belt as worn, extended idler shaft for worm gear longer than regular so as to extend to take pulley. The crank is left on so it can be run by hand or power as desired.

It is advisable to have the Power attachment built into the Sattley Separator at the factory. If you have a Sattley on your farm and want the power attachment it will be necessary for you to ship your Separator to the factory for this work.

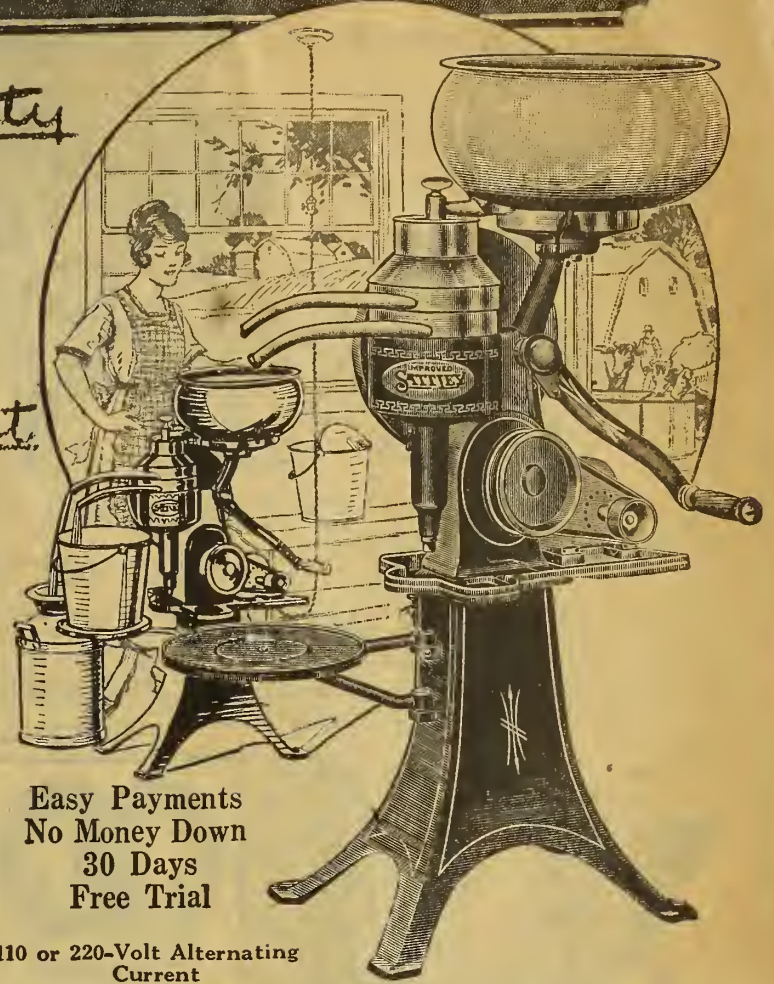
7C4658—Power Attachment for Sattley Separator. (State size number, bowl diameter and capacity of separator.) Shipping weight, 30 pounds. Shipped from our factory at Springfield, Ill., with extended pinion shaft, or built into separators shipped from our factory at Springfield, Ill.

32-Volt Direct Current

Sattley Electric Drive Separator complete with 32-volt direct current motor, for use with battery operating plant, with knife switch, fuse plugs and 10 feet of insulated wire. State voltage and kind of current.

	Easy Payment Price	Cash Price
7C4630—Sattley Electric Separator, 375-pound capacity.....	\$114.50	\$109.50
7C4631—Sattley Electric Separator, 500-pound capacity.....	129.00	124.00
7C4632—Sattley Electric Separator, 750-pound capacity.....	139.50	134.50
7C4633—Sattley Electric Separator, 950-pound capacity.....	148.00	143.00

Shipped from factory at Springfield, Ill.



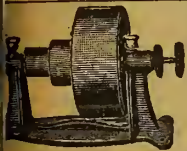
Easy Payments
No Money Down
30 Days
Free Trial

110 or 220-Volt Alternating Current

Sattley Electric Drive Separator, complete, with 110 or 220-volt, 60-cycle alternating current motor, 10ft. of cord with plug socket. State voltage and nature of current.

	Easy Payment Price	Cash Price
287C4640—Sattley Electric Separator, 375-pound capacity.....	\$120.80	\$115.80
287C4641—Sattley Electric Separator, 500-pound capacity.....	135.75	130.75
287C4642—Sattley Electric Separator, 750-pound capacity.....	147.00	142.00
287C4643—Sattley Electric Separator, 950-pound capacity.....	157.50	152.50

Average ship. wts, 375 cap., 220 lbs.; 500 cap., 230 lbs.; 750 cap., 250 lbs.; 950 cap., 270 lbs.



Badger Speed Governor Pulley

For running cream separators. Made of cast iron with steel shaft. The pulley takes care of the variation in speed. Long bearings lubricated with grease cups. Hand wheel adjustment. Length over all, 15 inches; size of gine pulley, 9 inches by 3 in.; size of large separator pulley, 4 inches by 2 1/4 inches; small separator pulley, 2 1/2 inches by 2 1/4 inches. Weight, 35 pounds.

87C4678—Badger Governor Pulley, complete..... \$7.45

Rubber Bowl Rings for Sattley Separators

Sold only in packages of 6 rings.

87C4660—Rubber Bowl Rings for Sattley Separators Nos. 15, 17, 19 or 21. (Be sure to state size, number, serial number and bowl number of your Sattley Separator.) Per package of six rings, shipping weight, 4 ounces. Price..... 45c

87C4662—Rubber Bowl Rings for Sattley Golden Harvest Separators Nos. 17, 25, 37 or 50, per package of six rings, shipping weight, 3 ounces. Price..... 46c

87C4664—Rubber rings for Sattley Golden Harvest Separators Nos. 70 or 90, per package of six rings, shipping weight, 4 ounces. Price..... 55c

87C4666—Rubber Rings for separators bought previous to January 1, 1917. Be sure to state serial number of bowl stamped on bowl-nut or bowl cover or bottom of bowl. Serial number also stamped on edge of bowl casting surrounding bowl; also state capacity and size, number and date of purchase of separator. Per package of 6 rings, shipping weight, 4 ounces. Price..... 48c

Friction Clutch Pulley

Designed to operate cream separators by power. Should be used in connection with a governor pulley when belting up to engine power.

Diameter, 14 inches; face, 2 1/4 inches. No. 387C4670 pulleys for 3/4-inch shaft and No. 387C4672 for 1/2 and 1-inch shafts are regular stock. Other sizes require 5 days' delays to make to order.

When ordering be sure to state size of crank shaft of separator; also name, serial number or bowl number, size number, capacity and name of separator and date of purchase. Weight, 15 pounds.

387C4670—For Golden Harvest Separators sold before January 1, 1917, or for any separators built with low tank at side. (State bore.) Price..... \$5.25

387C4672—With extended Sleeve Hub for Sattley Golden Harvest or other separators with high tanks in same position. (State bore.) Price..... \$5.95

Single Pulleys for Separators

Designed to operate Sattley Separators, all sizes in which the tank sets out over the hub of the pulley. Simple in design, easy to operate, starts from rest at normal speed. Recommended for belting up any Sattley to an overhead line shaft pulley running at constant speed or to our governor lineshaft or to our Badger Governor pulley shown on this page. When ordering be sure to state serial number, capacity, size number and date of purchase of your Sattley Separator.

187C4680—Diameter, 14 inches, face, 2 1/2 inches for 2-inch belt. Shipping weight, 15 pounds. Price..... \$2.40

Shipped from Chicago, Kansas City or our factory at Springfield, Ill.

Order Your Sattley The Way You Like Best.

The Following Ways of Ordering are for Your Convenience:

Full Purchase Price with Your Order

Nearly all our customers send cash with their order, so if you wish to order on this plan, send a Post Office or Express Money Order, Bank Draft or Personal check, for the separator you desire and we will ship at once.

When it arrives at your station you then pay the freight charges, take the separator home and use it for 30 days before deciding to keep it. Then should you decide not to keep the Separator, write us for return shipping directions. We will gladly return your money and the freight charges you paid.

Pay After 30 Days' Trial

Should you want to take advantage of our liberal 30-Day Free Trial to see and try the Sattley before paying for it, just give us the name of your Home Banker or ask him to give you a letter saying that he knows you are reliable, which he unquestionably will gladly do. Then send this letter with your order.

After you receive the Separator try it for 30 days and after assuring yourself that the Sattley is perfectly satisfactory send us payment in full at the end of your 30-day trial.

Our Easy Payment Plan No Money Down

If it is more convenient for you to pay in monthly installments we will ship the Sattley to you on easy monthly payments, so small you won't feel the cost at all. No deposit is necessary at the time of ordering and you pay the full purchase price in easy monthly payments, beginning 30 days after you have received the Separator until you have paid in full. You use the Sattley while paying for it. You give it a chance to earn its own cost and more before you pay.

Renewals or Repairs for Sattley Separators

Local dealers often say you should buy a Separator of them because if you have any trouble they can help you out. Separators are past the experimental stage and the Sattley is so simple in construction a woman or boy can easily operate it and keep it in perfect condition. No shrewd and economical buyer will pay a fancy price for an offered Service that is seldom ever used.

Repairs Always: Sattley Separators are made in our own factory. You will always be able to get repairs. A stock of every part is always carried ready for immediate shipment in Chicago Kansas City, Portland, Ore., Fort Worth and in our factory at Springfield, Ill.

Repairs for Other Machines

Whenever renewal parts are required for other articles of machinery shown in this Catalog which we do not manufacture, we have arranged for an ample stock of renewal parts so that prompt shipment of such parts is assured.

This applies to such machinery as: Windmills, Pumps, Pump Jacks, Concrete Mixing Machinery, Feed Cutters, Corn Shellers, Grinders, Scales, Spray Pumps, Stump Pullers, etc.

Renewal parts are often needed right in the busy season, a time when prompt shipment is of vital importance. At such a time users of Montgomery Ward & Co's. machinery will appreciate the protection of our Renewal Service.

You can avail yourself of this protection now by buying your machinery here, where you can always get renewal parts promptly.

When ordering parts give name and article number and date of purchase of the machine and part number of the piece required as it appears cast on the original.

Hand and Power Feed

Climax Feed Mill

\$27.65 and up

Grinds corn on cob, shelled corn, kaffir corn, milo maize, wheat, oats, barley, rye and other grain separately or mixed.

Frame, single casting; designed to resist six times ordinary strain. Heavy riveted corners. Steel legs with cross braces. Spiral concave cob breakers of hard chilled iron bolted to frame. Cob crushers secured to shaft by safety break pin. Extra long bearings. Large oil wells. Main shaft heavy cold rolled steel, 1 1/4 inch on the 8-inch No. 1 mill and 1 1/2 inch on the 10-inch No. 2 mill.

No. 1 mill should be operated with from 4 to 7 H. P. and run at from 400 to 700 revolutions per minute, according to power. Will grind from 10 to 35 bushels per hour depending entirely on the power, speed, kind of grain and its condition, whether dry or damp and also whether grinding coarse or fine. The grain should be dry and clean to get full capacity out of any mill.

Burrs. The "Crowfoot" Burrs used on these mills will outgrind and outwear any ordinary burr and are especially good for oats because they cut up the hulls.

Article Number	Size Mill	Size Pulley	Wt. lbs.	Price at Iowa Factory	Price at Warehouse Pittsburgh, Pa., or Fargo, N. Dak.	Price at Warehouse Atlanta, Ga.	Price at Saint Paul and Omaha
287C3024	8 in.	10x6	245	\$27.65	\$29.35	\$31.15	\$28.15
287C3026	10 in.	12x6	355	42.50	44.20	46.00	43.80
287C3028	Burrs 8 in.	.....	.....	1.65	1.80	1.90	1.85
287C3030	" 10 in.	.....	.....	2.40	2.60	2.70	2.60

287C3032—5-ft. Double Sacking Elevator for either Mill. Wt., 75 lbs. Price, each..... \$21.00

287C3034—10-ft. Wagon Box Elevator with awing spout for either Mill. Wt., 105 lbs. Price, each..... \$32.70

Prompt shipment from warehouse nearest you. Elevators shipped only from factory in Iowa.

Grinding Mills

Climax Feed Mill

\$27.65

and up

For grinding oats the "Crowfoot" burrs do fine work, as they cut up the hulls instead of letting a lot go through whole.

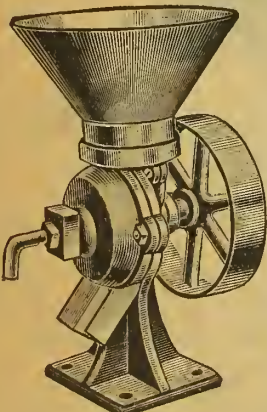
No. 2 mill should be operated with from 7 to 12 H. P. and run at from 400 to 700 revolutions per minute, according to power. Will grind from 20 to 60 bushels per hour, depending entirely upon the power, speed, kind of grain and its condition, also whether grinding coarse or fine. Prices include balance wheel and two sets of burrs.

When ordering mills state the H. P. and speed of engine and diameter of its pulley and we will furnish the mill with the proper size pulley to give best results. No. 1 8-in. Mill, regular pulley is 10 in. in diameter by 6-in. face by 1 1/4-in. bore, but we can furnish 8x6 or 12x6 pulley instead without extra charge.

No. 2, 10-in. Mill, regular pulley is 12 in. diameter by 6 in. face by 1 1/2-in. bore, but we can furnish 10x6 or 14x6 pulley instead without extra charge.



Climax Jr. Small Grain Mill



A very desirable size for 1 to 4 H. P. Engines. Requires but a very small space. The size and capacity meets the general requirements for farm use. The main frame is cast in one piece and is heavy and strong. The bearings are long and lined with a high grade of babbit. The burrs are 5 1/2-in. diameter ground perfectly true and made of a special hard mixture of metals which give long and satisfactory service. They are the "Crowfoot" burrs as shown on this page. Burrs can be easily adjusted for fine or coarse grinding. Capacity from 6 to 20 bushels per hour depending entirely on the power, kind of grain and its condition. Should be run from 150 to 400 revolutions per minute. Pulley is 12 in. diameter with 3-in. face. Furnished complete with two pair of burrs coarse and fine. Ship. wt., mill, 62 lbs.; burrs, per set, 3 1/4 lbs.



"Crowfoot"

The Best Oats Burr Made

This burr is used on the three metal burr Power Grinding Mills shown on this page. It is self sharpening, fast grinding and durable.

As the face is ground true the burrs can be pressed together so they grind very fine.

Oats. No other style burr can grind oats so well because the "Crowfoot" cuts up the hulls while other burrs let a lot of hulls get through practically whole.

It also does splendid work grinding ear corn, shelled corn, wheat, rye, barley or any dry grain.

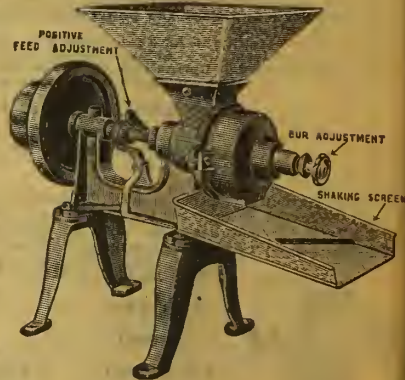
Both Fine and Coarse Burrs Shipped with Each Mill.

Flour and Meal Maker and Feed Grinder

Grinds meal fine enough for table use. Balance wheel and pulley outside of frame, easy to remove or replace belt. The bolting attachment makes the flour or meal suitable for family use. Grinds more, lasts longer and costs less for repairs than many other mills of its size. Burrs can be adjusted for either coarse or fine grinding. Burrs are the "Crowfoot" shown on this page and each mill furnished with both fine and coarse burrs.

Requires 1 to 4 horse power to grind from 6 to 20 bushels per hour, depending on quality of grain and fineness of grinding. Diameter of burrs 5 1/2 inches, regular pulley 6 1/2 inches, diameter 4 1/2-inch face. We can furnish 8x4, 10x3 or 12x3 inch pulleys in place of regular upon request. Speed, 600 to 1,000 R. P. M.

287C3004—Complete with bolting attachment, legs and balance wheel and pulley. Ship. weight, 125 pounds. Price..... \$24.45



287C3012—Feed grinder only, without legs or balance wheel and without bolting attachment. Ship. wt., 75 pounds. Price..... \$16.10
287C3016—Legs extra for grinder. Ship. wt., 20 lbs. Price..... \$2.50
287C3018—Balance wheel. Ship. wt., 20 pounds. Price..... \$1.90

Shipped from factory in Iowa.

287C3006—Extra Burrs, fine or coarse. (State which wanted.) Ship. wt., 3 1/4 lbs. Price, per pair..... \$1.25
Shipped from factory or stock at Chicago.

Article Number	Price at Iowa Factory	Price at Pittsburgh, Pa., or Fargo, N. Dak.	Price at Atlanta, Ga.	Price at Saint Paul, Minn., and Omaha
287C3000—Mill Complete.....	\$10.85	\$11.55	\$11.75	\$11.35
287C3001—Extra Burrs, fine.....	1.25	1.50	1.55	1.45
287C3002—Extra Burrs Coarse.....	1.25	1.50	1.55	1.45

Give casting Number of Burrs when ordering for old mills.

Wilson Hand Grist Mill

Genuine Wilson Hand Grist Mill with a reputation of many years standing as the highest type of hand mill, has a larger capacity, will do better work, easier operated, more durable, and will give as satisfactory service as any other hand mill on the market.

Especially adapted for grinding flour, corn meal for table use, wheat, rice and cracking corn and other grains for feeding purposes.

The grinding burrs are of extra hard metal ground true on emery wheels and will give long service. They are adjustable for fine and coarse grinding. Has large hopper, steel shaft and heavy balance wheel. You make no mistake when you buy this mill. Shipping weight, 27 lbs.

187C2936—Wilson Grist Mill. \$5.25

187C2938—Extra Burrs. Wt., per set. \$1.25

Shipped promptly from stock at Chicago.



Climax Family Grist Mill

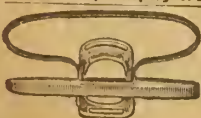
The biggest little mill ever offered for the price. We warrant it to satisfy you or it may be returned at our expense.

Every country home should be supplied with one of these little grist mills, having removable hard metal burrs which are ground true, and which can be adjusted so as to grind to any degree of fineness. Has heavy balance wheel, making it run easy. It will grind corn, wheat, rye, peas, salt, etc. Ship. wt., 24 lbs.

187C2932—Family Grist Mill, Each..... \$3.85

187C2934—Extra Burrs. Wt., 3 lbs. Per Set..... \$1.15

Shipped promptly from stock at Chicago.



Peerless Bag Holder

For farm, store or mill. Bag is held in position for shoveling by two steel bands fitting snugly one outside the other. Heavy casting at the back provided with slots for screws can readily be lifted off to move.

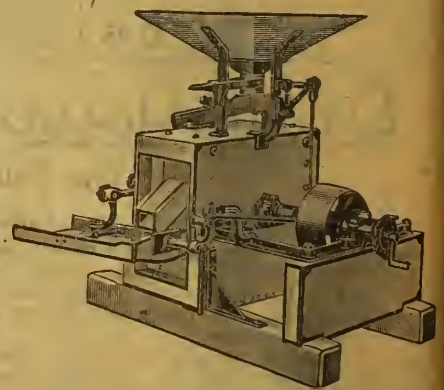
187C2602—Ship. wt., 3 1/4 lbs. Price..... 75c

Climax Stone Burr Mill

Will grind finest table meal without heating meal. Cleans corn perfectly. Stones dressed for corn meal but can be used for general work and will handle crushed ear corn, wheat, oats, rye, barley, etc. A high-grade Stone Burr Mill that will stand the strain of heavy power and high speed. Suited for farm or custom grinding. The body is built of selected stock carefully fitted and bolted. Hopper is large with a two-screen shoe. Never chokes or causes trouble. Has high speed fan cleaner that does not have to be removed when mill is open for dressing. Latest Improved Folding Mill Bolter which can be folded up out of the way when not needed. Burr stones are of the very best Burr stock carefully mated and will give long service without frequent dressing as they are mounted on large steel spindle, perfectly trued and balanced, and so arranged that they cannot be set up too close so as to injure or dull the grinding faces of the burrs or drift together when the grain runs out. This is a light-running high-grade mill of excellent construction with scraped metal bearings and well designed oiling arrangements at every point where necessary. An absolutely reliable and dependable Stone Burr Mill. Full directions for setting up, operating and dressing the stones sent with each mill.

Article No.	Size of Burrs	Weight Lbs.	Speed	Horse Power	Cap. Meal per Hour	Capacity Feed per Hour	Size of Pulley Inches	Height Feet	Fl. Space Required Feet	Price Each
287C3137	12 in.	550	1000	4 to 5	4 to 5 bu.	8 to 10 bu.	8x5	4	2 x5	\$84.00
287C3138	16 in.	750	800	6 to 8	6 to 8 bu.	10 to 20 bu.	10x6	4	2 1/2 x5	97.50
287C3140	20 in.	1000	700	8 to 10	6 to 12 bu.	20 to 25 bu.	12x6	5	3 x5 1/2	115.50
287C3142	24 in.	1250	600	10 to 12	8 to 15 bu.	25 to 30 bu.	14x8	5	3 1/2 x5 1/2	142.50
287C3144	30 in.	1750	500	12 to 20	12 to 20 bu.	30 to 40 bu.	14x8	5 1/2	3 1/2 x5 1/2	187.50

Shipped from factory in North Carolina.



Corn Shellers

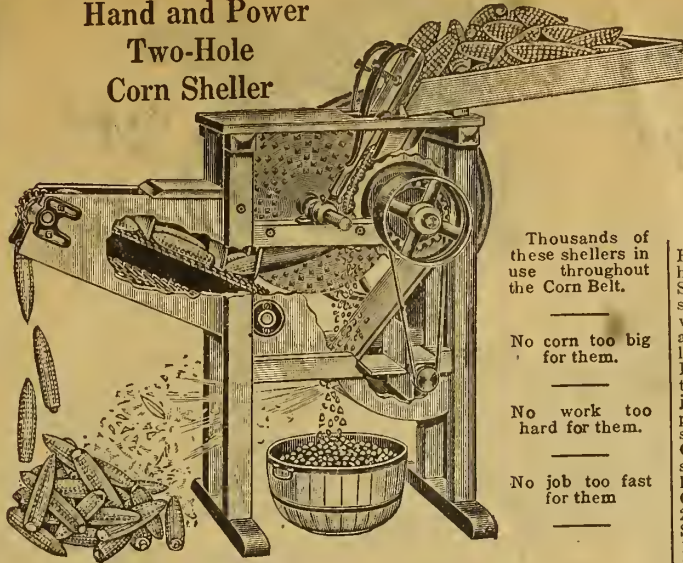
**Climax
Corn
Sheller**



\$16³⁰
Complete

Hardwood Frame. Cold rolled Steel Shaft. Built very strong. Will stand hard work and give long service. Framework is hardwood, strongly joined together with mortised and tenoned joints. Low gear and heavy balance wheel make it easy to operate. Large spout fitted with slotted holes by which it is adjustable for small or large corn. Ample feed table attached to large throat. Delivers cob on end. Furnished complete with fan and feed table, or plain, as desired. Capacity, about 10 bushels per hour.
287C2730—Sheller complete with fan feed table crank and balance wheel. Ship. wt., 120 lbs. **\$16.30**
287C2732—Without fan or feed table, otherwise complete. Ship. wt., 105 lbs. Price, **\$13.85**
287C2734—8 in. pulley to run by power. Ship. wt., 12 lbs. **\$1.40**
 Shipped from warehouse near Chicago.

**Hand and Power
Two-Hole
Corn Sheller**



Thousands of these shellers in use throughout the Corn Belt.

No corn too big for them.

No work too hard for them.

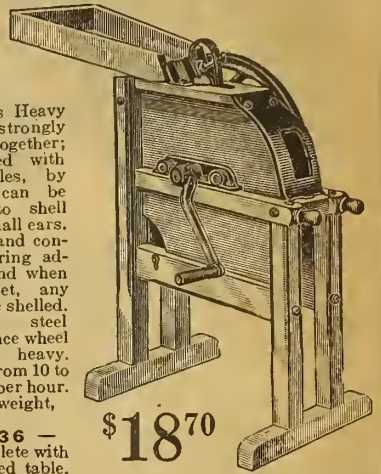
No job too fast for them

Hand or Power Sheller for general farm use. Frame is heavy hardwood, firmly fastened together. Shaft is heavy cold-rolled steel, and runs in iron bearings, bored through and bolted. Shelling Wheels geared high to give good capacity. Feed Spout directly over shelling wheel. Rag iron and Springs adjustable to any size corn. Cob-Carrier separates shelled corn from cobs, delivering the cobs at a distance from the foot of the sheller. Has a Fan for cleaning corn and putting it in a marketable condition. Complete with Fan, Feed-Table, Crank and 8-inch Pulley. When run by power the pulley on balance wheel shaft should make 300 revolutions per minute. Can be operated with any small engine. Capacity, 20 to 30 bushels per hour. Shipping weight, about 250 lbs.

287C2742—Price Complete With Cob Carrier, Fan, Feed Table and 8-inch Pulley. **\$32.85**

Shipped from warehouse near Chicago.

**Buckeye
Corn
Sheller**



\$18⁷⁰

Frame is Heavy Hardwood strongly bolted together; Spout fitted with slotted holes, by which it can be adjusted to shell large or small ears. Rag iron, and controlling spring adjustable, and when properly set, any size may be shelled. Cold-rolled steel shaft; balance wheel large and heavy. Capacity, from 10 to 20 bushels per hour. Shipping weight, 142 lbs.

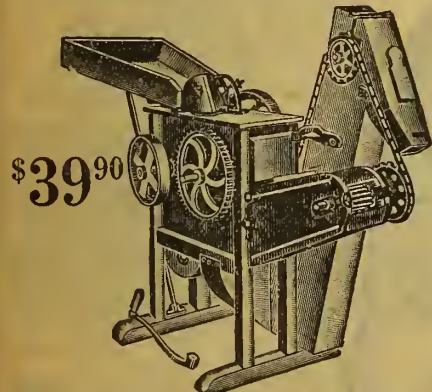
287C2736—Price complete with fan and feed table. Warehouse near Chicago. **\$18.70**

Price at warehouse, Pittsburgh, Pa. **19.45**
 Price at warehouse, Atlanta, Ga. **22.25**
 Price at warehouse, Minneapolis, Minn. and Omaha, Nebr. **20.30**

287C2738—Price, without fan or feed table, otherwise complete at warehouse near Chicago only. Ship. wt., 130 lbs. **\$16.25**

287C2740—Pulley, 8 in. diameter, to run by power. Ship. wt., 12 lbs. **\$1.40**

**Farmers' Friend 2-Hole
Corn Sheller**



\$39⁹⁰

A Strictly High-Grade, Well Made, 2-Hole Sheller. The height of sheller frame is 3 feet 4 inches. Heavy balance wheel, 24 inches in diameter. Endless chain cob carrier. Has 1 1/2 in. wrought shafts, babbit bearings, and good strong hardwood frame. Pulley, 12 inch diameter, 3 inch face. Speed, 300 to 400 revolutions. Capacity, 25 to 40 bushels per hour. Any 1 1/2 to 3 Horse Power Engine will run it.
287C2800—Price, with fan, feed table, crank, pulley and chain cob carrier. Shipping weight, 295 lbs. **\$39.90**
287C2802—Cob Stacker. Shipping weight, 58 lbs. **\$10.50**
287C2804—Five-foot Sacking Elevator. Ship. wt., 75 lbs. **\$16.80**
287C2806—Eight-foot Wagon Elevator. Ship. wt., 148 lbs. **\$22.40**
 Shipped from factory in Central Ohio.

**Peerless Self-Feed Two-Hole
Corn Sheller**

Frame, shafting, chains, gears and mechanism are extra heavy. Powerful fan cleans the shelled corn. Shifting clutch allows throwing feeder in or out of gear instantly. Height, 5 ft; width, 30 in; length over all, 55 in. Made of selected hardwood. Solid center balance wheel, weight, 60 lbs. Diameter, 18 in; 12x4 in. pulley. Pulley should run about 700 R.P.M. For slow speed engines, shift pulley to other shaft and run about 185 R.P.M.
287C2752—Peerless Self Feed Sheller without elevator or stacker. Shipping weight, 700 pounds. **\$120.00**
287C2754—8-foot Straight Out Cob-Stacker. Ship. wt., 70 lbs. Price, **\$16.00**
287C2756—8-foot Swivel Cob-Stacker. Delivers cobs at any angle from Sheller. Shipping weight, 140 pounds. Price, **\$30.35**
287C2758—5-foot Sacking Elevator. Shipping weight, 110 pounds. Price, **\$29.35**
287C2760—Wagon Box Elevator. Shipping weight, 170 pounds. Price, **\$38.00**
287C2762—Right angle belt attachment. Permits belting straight out from side. Ship. wt., 25 lbs. Price, **\$18.35**
287C2764—Mounting trucks with pole (no neckyoke or double-trees) Ship. wt., 500 pounds. Price, **\$62.50**

A big, powerful sheller, built for heavy work. Capacity, 50 to 75 bushels per hour, with 3 horsepower; 75 to 100 bushels with 4 horsepower.

Shipped from factory near Chicago.

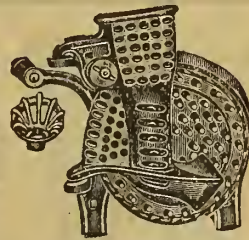


\$120⁰⁰

**A Big
Sheller for
Big Jobs**

Neverfail Corn Sheller

Made of heavy cast iron. Can be quickly attached to any barrel or box by two strong clamps. Will deposit the corn in barrel or box on which it is mounted, and deposit cobs outside. Shipping weight, 13 1/4 lbs.
187C2704—Sheller with Butting and Tipping Attachment. **\$2.65**
 Price, **\$2.65**

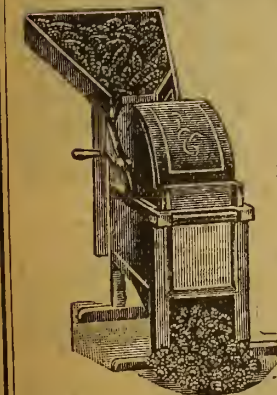


Dandy Corn Sheller

There are a dozen or more kinds some what similar in appearance, but there is considerable difference in the work they will do. The Dandy is adjustable to large or small ears of corn and does first class work. It is made of cast iron. Has spring tension with thumb nut, large sheller-wheel. No bolts furnished. Weight, 8 pounds.
187C2700—Price, **\$1.35**
187C2701—Pop Corn Attachment. Price, **10c**



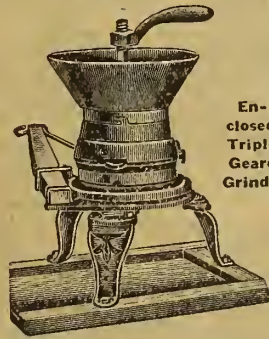
Climax Corn Slicer



Two-hole slicer for slicing up ear corn for feeding cattle, cows, calves, etc. Sliced ear corn provides the needed amount of roughness to promote digestion and perfect assimilation. It is 3 feet 6 inches high, 2 feet 4 inches wide. Shaft is 1 1/2 inch cold rolled steel, has two knives 6 inches long, attached to the very heavy cast arms, which serve as a fly-wheel. The machine is geared so that the knives revolve twice to each turn of the handle and in cuts of 1/2 to 2 inches. Will slice,

when run by hand, about 40 bushels per hour. Pulley to run by power at extra charge. When run by power, the speed should be 200 revolutions per minute. Ship. wt., 215 lbs.

287C2820—Price, with crank, **\$28.00**
287C2822—Extra for pulley, 10 inches diameter, 3 inch face, weight, 12 pounds. **\$2.75**
 Shipped from factory in Ohio.



**Big Four Sweep
Mill**

En-
closed
Triple
Geared
Grinder

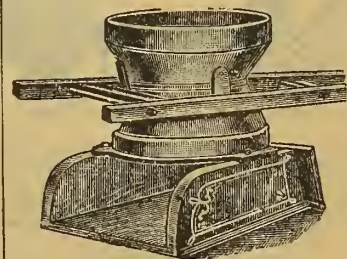
Our Big Four is a big, strong serviceable grinder, geared three to one; that is, burrs make three revolutions to each round of the horses. Easy running and good capacity.

Diameter of burrs, 16 inches; height, 3 1/4 inches; made of white metal so hard that with ordinary care set should grind from 6,000 to 8,000 bushels of grain. With corn in fair condition and team making 3 1/2 revolutions per minute, will grind 12 to 20 bushels per hour, to a medium degree of fineness. Capacity for

oats only is about one-half of corn, but half and half oats and corn or other hard grains, gives good capacity. A hand lever at top, shown in illustration, allows tightening and loosening of burrs when hopper is full of grain. Made with coarse burrs for shelled and cob corn, and fine burrs for shelled corn and small grains. Coarse burrs regularly furnished. Shipping weight of mill, 600 pounds; burrs, 40 pounds.

287C3050—Big Four Sweep Mill, with sweep, wood platform and one pair burrs. **\$53.00**
287C3052—Coarse Burrs, per set. **6.25**
287C3054—Fine Burrs, per set. **6.30**
 Shipped from factory in Iowa.

One Horse Sweep Mill



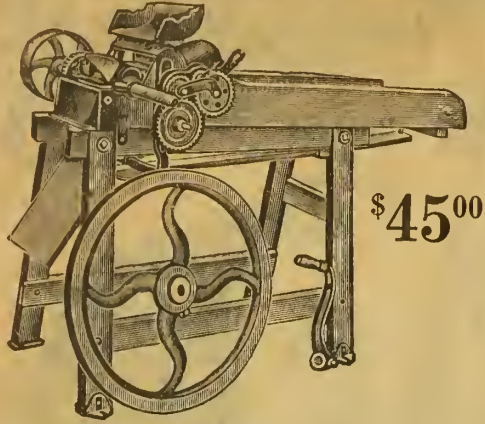
For corn on cob, shelled corn and all kinds of small grain.

Can be operated with one good horse. Is a plain mill not geared and has burrs 16 1/2 inches in diameter. Capacity will vary according to the speed of the horse and the condition of the grain and degree of fineness. For dry corn the capacity is 5 to 8 bushels per hour. Mill can be furnished with either fine or coarse burrs. Unless otherwise

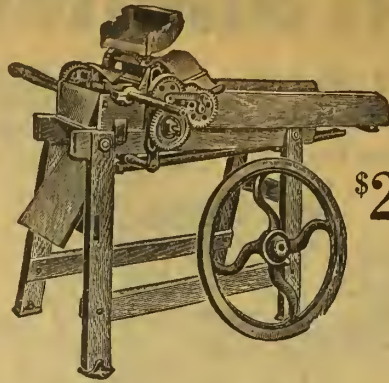
ordered coarse burrs will always be shipped. The coarse burrs are, of course, intended for ear corn and shelled corn suitable for coarse feed, while the fine burrs are for shelled corn or other small grain for fine feed. Complete with sweep and box. Shipping weight, 270 pounds. Weight of burrs, 40 pounds per pair.

287C3056—One Horse Sweep Mill, Price, **\$27.65**
287C3068—Fine Burrs, Price, per pair. **6.25**
287C3069—Coarse Burrs, Price, per pair. **6.25**
 Burrs are priced per pair including inner and outer burr. When ordering be sure and state whether fine or coarse burrs are wanted and if possible give casting number on your old burr.
 Shipped from factory in Iowa.

Superior Feed Cutters—Hand and Power



\$45⁰⁰



\$24⁵⁰



\$54²⁵

Superior Hand and Power Feed Cutter

Especially adapted for poultry on account of its fine cut. Three knives length 10½ in. Cuts ¼, ⅜, or ½-inch lengths. Powerful fast-cutting feed and ensilage cutter that can be operated with very light power. Safety Stop Lever Pulley to run by power. Safety Fly Wheel, Reversible Cutting Bars. Heavy Hardwood Bolted Frame. Capacity for 10 to 20 head of stock and easy to run by hand, when a small amount of feed only is desired. Has sliding cone gear for changing length of cut, 1 to 1½ H.P. required at 300 to 400 R.P.M. Diameter, driving pulley 10 inches; face, 3 inches. Capacity per hour, dry fodder, 800 to 1,200 lbs; green fodder, 1,200 to 2,400 pounds. Shipping wt. 300 lbs.

287C6568—With pulley and crank, at warehouse near Chicago, \$45.00
At Pittsburgh Pa., Saint Paul, Minn. or Omaha
Nebr. 47.80
At Atlanta, Ga. 49.35

Superior Hand Feed Cutter

If your stock food is properly cut it will go farther in feeding and produce better results. This cutter is run by hand. Has heavy balance wheels which, with the shearing cut of knives make the machine very light running. Frame heavy hardwood, strongly bolted. Shaft is heavy, cold rolled steel. Knives are oil tempered tool steel and so constructed as to make a downward shearing cut. Feed Rolls are large and driven by expansion gearing. Change wheels are easily moved, to make any different lengths of cuts. Safety lever stops feed roll instantly while the machine is running. When both knives are used the cuts on smaller machine are ¼ inch, ⅜ in. or 1 inch in length. Cuts can be made twice as long by removing one of the knives. The feed table throat is designed to give ample room and to reduce labor of feeding to a minimum.

Article Number	Number of Knives	Length Inches	Cut Inches	Capacity Per Hour		Shipping Weight Pounds	Price
				Dry lbs.	Green lbs.		
287C6564	2	8½	¼ to 2	150	300	150	\$24.50
287C6565	2	10½	¼ to 2	325	600	280	\$37.75
287C6566 —Pulley, 10x3 inches for 287C6565 only, to run by light power. Weight 18 pounds. Price.....\$2.35							

Shipped from warehouse near Chicago.

Superior Power Feed Cutter

For cutting up any kind of feed for stock. Hardwood bolted frame. Knives set spirally for shearing cut against steel cutting bar. Heavy safety fly wheel set to main shaft by safety friction block. 12x4 inch pulley; speed 400 revolutions; capacity 1 to 1½ tons dry fodder and 2 to 3 tons green fodder per hour. Shipping weight, 400 pounds.

Cuts ¼, ⅜ or 1 inch long, by removing two opposite knives cuts will be ½ to 1¼ or 2 inches long.

287C6570—Superior Power Feed Cutter No. 11 cuts ¼, ⅜ or 1 inch. Has 4 11-inch knives; 1 to 2½ horse power. Price.....\$54.25

287C6573—Crank to run by hand extra..... 1.80

287C6574—12-foot swivel elevator for No. 11 cutter Shipping weight, 200 pounds. Price..... 43.85

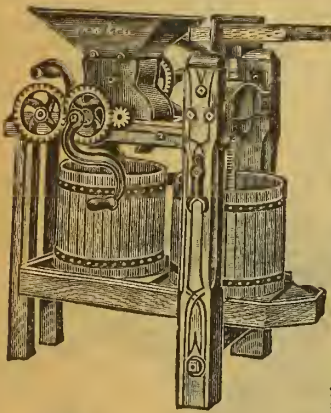
287C6576—Extension to increase elevator in 4, 8 or 12 foot lengths. Shipping weight, per foot, 12 lbs. Price, per foot..... 1.65

Shipped from warehouse near Chicago.

Big Money in Making Cider This Fall

Get One of These High Grade Mills to do Your Work

Arnold Senior Cider Mill



The powerful Arnold mill crushes the fruit thoroughly, thereby breaking all the juice cells and making certain that the grinding will yield every drop of cider. Two cranks on each side enable two boys to run the machine. Made for long service. Capacity 6 to 10 barrels of cider per day. Strictly high grade, carefully constructed, will grind large or small apples. Heavy hardwood frame, bolted press screw, 2-in. steel. Large size bopper force feed. Mill part of best iron, tubs of hardwood slats with bands. Diameter of press tubs, 16 in. Height, 14 in. Hopper, 14½x16 in. Ship. wt. 345 lbs. Price.....\$43.70

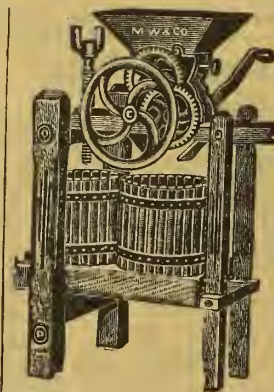
Arnold Senior Power Cider Mill

Built exactly like regular Arnold Senior and fitted with pulley, diameter 18-in.; face, 3-in. Diameter of press screw, 2-in. Cranks also furnished for operation by hand. When run shaft making direct connection.

by hand, it is double geared, the crusher Shipping wt. 440 lbs.

287C6408—Arnold Senior Power Mill, for hand or power, with 2 cranks and pulley. Price.....\$46.80

Shipped from warehouse near Chicago.

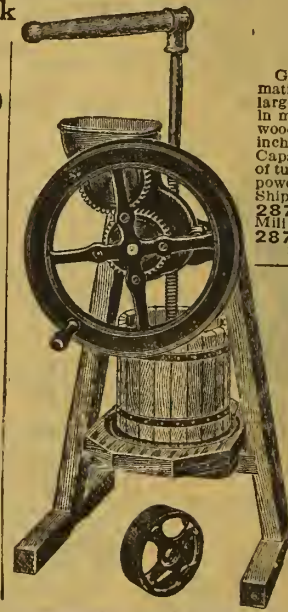


\$23⁵⁰

The Arnold Junior Cider Mill

Two tubs: you can press one while filling the other. The grinding rolls are of large diameter and will thoroughly crush either large or small apples, so that the press will readily take out all the juice. Heavy hardwood frame, securely bolted. Mill parts are iron and steel. Press screw 1½ inch steel. Tubs are of hardwood slats, riveted to iron bands. Well made in every way. Diameter of press tubs, 12 inches. Height, 10 inches. Size of hopper 13½x14½ inches. Shipping weight, 187 lbs. Capacity, from 2 to 4 barrels a day. Price.....\$23.50

Hutchinson Force Feed Cider Mill



Geared cylinder crushes the apples and automatically forces them through grinding rolls. Has larger bopper and wider throat than usually found in mills of this type. Strongly constructed, hardwood frame, working parts, iron. Screw is 1½ inch steel; large balance wheel makes it run easily. Capacity 1½ barrels of cider per day. Diameter of tub, 12 inches. Height, 11 in. For small engine power order the clamp pulley \$x2 priced below. Shipping weight, about 150 lbs.

287C6400—Hutchinson Force Feed Cider Mill.....\$17.50

287C6401—Extra for clamp pulley..... 1.30

Shipped from warehouse near Chicago.

Cider Press Cloth

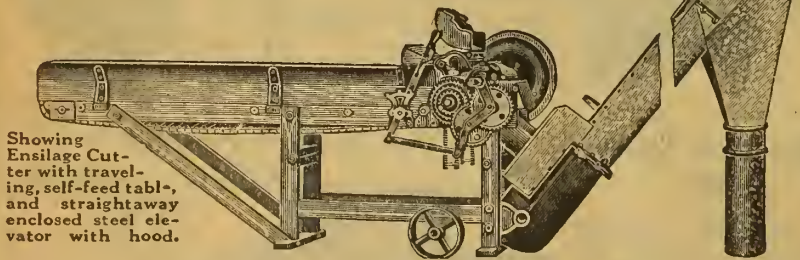
Made of 6-ply Cotton Cord expressly for straining juice in Cider Mill tubs. Better and stronger than cheesecloth with care will last several seasons. In 3 sizes, each size having stitched selvage on four sides. Made heavy and strong. All woven of 6-ply cotton cord. Three sizes only.

287C6410—Size, 36x36 in. Weight, 1 lb. Price, each.....\$1.00

287C6411—Size, 44x44 in. Weight, 1½ lbs. Price, each..... 1.65

287C6412—Size, 66x66. Weight, 2½ lbs. Price, each..... 2.95

Superior Silo Fillers and Ensilage Cutters



Showing Ensilage Cutter with traveling, self-feed table, and straightaway enclosed steel elevator with hood.

Length of cut in all sizes is ¼ in., ½ in. or ¾ in. and by removing 2 opposite knives the cuts will be ½ in., 1 in. or 1½ in.

Straightaway Enclosed Steel Elevators for Superior Cutters only. In figuring the length required, order about ¼ more than the height in feet of the silo. Horse Power required for Cutters with Elevators—No. 1, 4 to 6 H.P.; No. 2, 6 to 8 H.P.; No. 3, 8 to 10 H.P.

Prices for outfits quoted below are for Cutters complete, with Blowers as shown, with collapsible hood and top elbow. Black Steel Piping is extra. When ordering Pipe, order 5 feet less than height of silo.

Complete Cutter and Blower

Article Number	DESCRIPTION	H. P. Required	Shipping wt., lbs.	Price
287C6586	No. 1 Feed Cutter, 4-13 inch knives with traveling table and blower	12 to 15	1200	\$222.00
287C6587	Blower Pipe for above Outfit. Diameter 7 inches. Shipping weight, 3 lbs. per ft.	.....	.....	per ft. 1.15
287C6588	No. 2 Feed Cutter, 4-16 inch knives with traveling table and blower	15 to 20	1475	253.40
287C6589	Blower Pipe for above Outfit. Diameter 8 inches	.....	.....	per ft. 1.50
287C6590	No. 3 Feed Cutter, 4-20 inch knives with traveling table and blower	20 to 25	2225	353.85
287C6591	Blower Pipe for above Outfit. Diameter 11 inches	.....	.....	per ft. 2.00

Shipped from warehouse near Chicago.

Big, Powerful—Easy Running

Made in three sizes, with either drop leaf, or traveling self-feed tables, with or without enclosed steel elevator or blower. Hardwood frames, adjustable steel knives. Feed rolls have expansion gearing. Safety, patented, friction balance wheel and safety stop lever.

Unless otherwise specified on order, we will furnish regular Pulleys. To insure a proper speed, state in your order the horse power of your engine, the diameter and width of face and the speed of the engine pulley. We will then furnish a pulley of correct size on the cutter, to run it at the proper speed.

- 287C6580**—No. 1 size Superior Cutter and Filler. Knives, 4 13-in., requires 3 to 4 H. P. at 500 to 600 R.P.M.; pulley, 10x6; capacity, dry 1½ to 2½ tons per hour; green, 3 to 5 tons. With drop leaf table. Shipping wt., 510 lbs. Price for cutter only, without elevator.....\$87.20
- 287C6581**—No. 1 Cutter with Traveling Self-feed Table. Ship. wt., 735 lbs. Price for cutter only without elevator..... \$109.00
- 287C6582**—No. 2 size Superior Cutter and Filler. Knives, 4 16-in., requires 4 to 6 H. P. at 500 to 600 R.P.M.; pulley, 12x6; capacity, dry, 3 to 4 tons per hour; green, 6 to 8 tons. With drop leaf table. Ship. wt., 570 lbs. Price for cutter only, without elevator..... \$96.20
- 287C6583**—No. 2 Cutter with Traveling Self-feed Table. Ship. wt., 850 lbs. Price for cutter only without elevator..... \$125.00
- 287C6584**—No. 3 size Superior Cutter and Filler. Knives, 4 20-in., requires 6 to 8 H. P. at 500 to 600 R. P. M.; pulley, 14x6; capacity, dry, 6 to 8 tons per hour; green, 12 to 16 tons. With traveling self-feed table. Shipping weight, 1,400 lbs. Price for cutter only, without elevator..... \$206.25
- 287C6606**—Truck for Mounting Cutters. Weight 500 lbs. Price..... 62.50

Enclosed Elevators and Extensions

Article Number	DESCRIPTION	Shipping wt., lbs.	Wt. per foot	Price
Enclosed Steel Elevators,				
287C6594	Elevator for No. 1 Cutter. 12 Ft.....	285	.....	\$73.35
287C6595	Extra Extension for No. 1 to extend over 12 ft. ....	.....	10 lbs. per ft.	2.35
287C6596	Elevator for No. 2 Cutter. 12 Ft.	300	.....	75.35
287C6597	Extra Extension for No. 2 to extend over 12 ft. ....	.....	12 lbs. per ft.	2.60
287C6598	Elevator for No. 3 Cutter. 12 Ft.	565	.....	89.60
287C6599	Extra Extension for No. 3 to extend over 12 ft. ....	.....	18 lbs. per ft.	3.20
Hood and Distributor Pipe				
287C6600	Hopper for No. 1 Elevator.....	40	.....	11.30
287C6601	Hopper for No. 2 Elevator.....	42	.....	11.45
287C6602	Hopper for No. 3 Elevator.....	60	.....	13.30
287C6603	Distributor Pipe for Nos. 1 & 2 in 4 ft. sections diameter large end 10½ in. small end 9 inches. ....	.....	4 lbs. per Sec.	3.70
287C6604	Distributor Pipe for No. 3 Elevator, in 4 ft. sections diameter large end 12 in. small end 10 in. ....	.....	4½ lbs. per Sec.	4.00

Black Steel Hoods and Distribution Pipe in 4 foot sections, fasten with snaps and easily detachable. Note.—24-foot silos require 5 sections and hood; 30 foot, 6 sections and hood; 36 foot, 8 sections and hood.

Shipped from warehouse near Chicago.

Concrete Machinery

Hand and Power Mixers and Block Machines

Automatic Concrete Mixer

\$143.00

Here's one of the best continuous mixers on the market and it is sold at a price within easy reach of the individual user. This Automatic Mixer is all that its name implies—it works automatically.

You will notice the two hoppers, one for sand and one for cement. Keep these hoppers full and the machine will do the rest. The sand hopper has a capacity of two cubic feet and the cement hopper holds two sacks of cement. They are only 35 inches above the base of the machine and shaped so that they can be easily filled.

At the bottom of each hopper is a worm which forces the materials out of the end of the hopper and into the end of the mixing auger where they are mixed dry until the water supply is reached. These worms are absolutely accurate and carry the correct amount of materials at all speeds. You can get different proportions by changing the speed of the worms with the use of the star wheels and obtain just the mixture you desire.

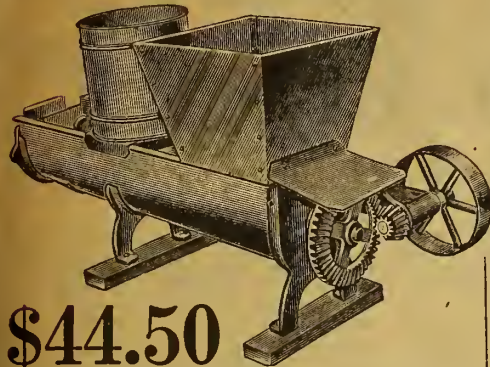
The two rollers on the sand worm gear engage the teeth of the star wheel on the cement worm shaft. By using a 5-tooth star and with 2 rollers on the sand shaft gear you get a proportion of 2½ to 1 to 8 to 1. We furnish a complete set of star wheels for any proportion from 2½ to 1 to 8 to 1. Truck has 8 ft. wood beams and 16x2½ in. front and rear wheels.

The hoppers are easily removed for cleaning by loosening two nuts. The sand hopper is equipped with a screen to keep out large stones. A clutch pulley is also furnished for convenience in stopping the mixer without stopping the engine.

- Capacity, 25 to 40 yards per day.
- Mixer Pulley, 12x3 in. Speed, 200 r.p.m.
- 287C5857—Complete outfit as shown above, with a 1½ h.p. Sattley Gasoline Engine. Shipping weight 595 pounds. **\$143.00**
- 287C5858—Complete outfit as shown above with a 1½ h.p. Sattley Kerosene Engine. Shipping weight, 590 lbs. **148.00**
- 287C5852—Automatic Mixer only. Shipping weight, 350 lbs. **83.25**
- 287C5860—Trucks only, weight 175 lbs. **19.75**

Shipped from Iowa Factory.

Farmers' Friend Mixer

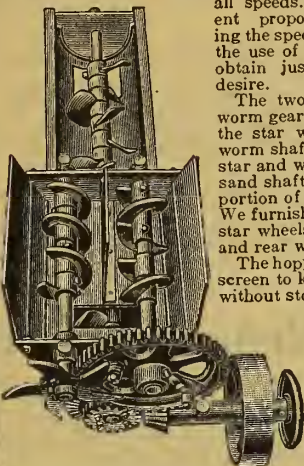


\$44.50

The hopper is made of 16-gauge sheet steel and has a capacity of about two and a half cubic feet, and is bolted to the mixing drum. It is provided with a steel slide to regulate the feed to the mixer, or to shut it off entirely. Has a steel water tank on top of the mixer that can be moved to the right or left. Has a ¼-inch cut-off valve. The mixing drum is 4 feet long. The mixing blades are of special design and are in sections, so if one should be damaged, it could be replaced at small cost. The drive pulley is 12 inches in diameter, with 3 inch face. We can furnish either 9, 12, or 16-inch pulley. Pulley should be run at 220 revolutions per minute. Any small engine 1½ h.p. or more will operate this mixer. Mounted on skids, but can be mounted on truck same as the Automatic Mixer. The mixed concrete is discharged from the end of the mixing drum. Shipping weight, 300 pounds.

- 287C5850—Farmers' Friend Continuous Power Concrete Mixer, Price Complete. **\$44.50**
- 287C5860—Truck for mounting. **19.75**

Shipped from factory in Iowa.



Monarch Batch Mixers

Hand Mixer

Monarch Hand Concrete Mixer is a satisfactory low priced batch mixer. Especially designed for farm use. The Monarch is an exceptionally serviceable little mixer, with a capacity of 2½ cubic feet to the batch. Will thoroughly mix in 12 to 15 revolutions. Drum is 14x14x30 in. made of cold rolled sheet steel, is square in shape, so that the material is carried well up to the top, and falls to the opposite side four times during each revolution. No obstruction inside of drum, so that it is easily cleaned. Four strong rods, running on outside the entire length, hold the drum perfectly secure. Mixer has automatic door, which swings outward, does not interfere with loading. Three automatic latches hold door firmly closed. Steel frame on runners for moving mixer about. Apron or chute under drum to receive the mixed material when dumped. Shipping weight, 160 pounds.

- 287C5872—Price. **\$28.75**

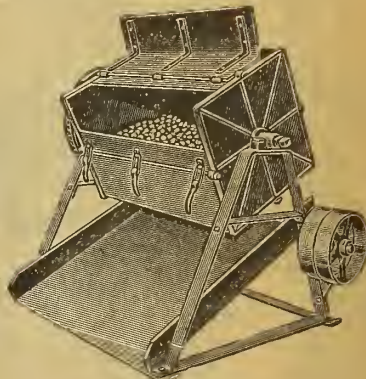
Shipped from factory in Iowa.

Power Mixer

Monarch Power Cement Mixer is a very serviceable power batch mixer made of the very best of materials. Constructed entirely of iron and steel. Has automatic door which swings outward and does not interfere with the loading. This mixer is built on runners so that it can readily be moved from place to place. One to two horse power will readily operate the Monarch, thoroughly mixing a batch in 12 to 15 revolutions. Mixes 7 cubic feet per batch, inside mixing paddles insuring a perfect mix. Has full length automatic door for dumping. Wide opening for loading. Steel apron under drum to receive dumped material. Sprocket wheel and link belt chain drive. Drum 21x21x36 inches. Tight and loose pulleys, 12-inch diameter with 3-inch face. Shipping weight, 400 pounds.

- 287C5870—Power Mixer, Price. **\$62.50**

Shipped from factory in Iowa.



Harvest Machinery Oil

Compounded in our own Oil Plant. For use on all farm implements. Good for Plows, Disc Harrows, Mowers, Reapers, or any other farm machinery. Is better than castor oil and lasts much longer than cheap black oil. Heat and cold affect it very little. Shipping weight, per gal., about 9 lbs.



- 87C11—One Gallon Jacketed Can. **\$1.35**
- 187C12—Five Gallon Jacketed Can. **\$4.20**

Diamond Block Machine

For economy, quick work, durability, big capacity and extra nice uniform blocks, we recommend our Diamond. Its great strength especially adapts it to the requirements of the contractor for continuous work and its low price places it in reach of the farmer who has occasional work to do.

A Face Down Machine with Double Cores operated by lever. Each part carefully made, shaped and fitted to make as near perfect block as any other machine of its kind. Can be furnished for blocks 8x8x16 inches and 8x10x16 inches. To make both sizes necessitates the purchase of an extra mold that can be used over the same frame with the same lever, face plates and cores. Mould boxes closes up perfectly square with self-locking hinges and can be instantly locked or unlocked.

Equipment Regularly Furnished with Each Complete Machine.

- | | | |
|--|---------------------------------------|-----------------------------------|
| 1 Rock Face Plate and 1 Plain Face Plate for Whole Blocks. | 1 L. H. Rock End Door | 1 Steel Plate for Inside Corners. |
| 1 Rock Face Plate and 1 Plain Face Plate for ½ and ¼ blocks. | 1 L. H. Plain End Door | 1 Steel Plate for Gable Blocks. |
| 1 Rock Face Plate for ½ and ¼ blocks. | 1 R. H. Core End Door | 2 Joist Attachments |
| 1 Rock Face Plate and 1 Plain Face Plate for ¾ Blocks. | 1 Core Plug | 1 Steel Carrier |
| | 1 Pallet Plug | 1 Steel Stripper |
| | 2 Dividing Plates for ½ and ¼ Blocks. | 1 Double End Tamper |
| | 1 Graduating Bar | 1 Sample Iron Pallet |

Prices For Complete Machine, with One Size Mold-Box.

- 287C5900—Complete 8x8x16 inch block outfit. Ship. wt., 400 lbs. **\$87.50**
- 287C5902—Complete 8x10x16 inch block outfit. Ship. wt., 430 lbs. **97.50**

Extra Mold Box Outfits Include the Following

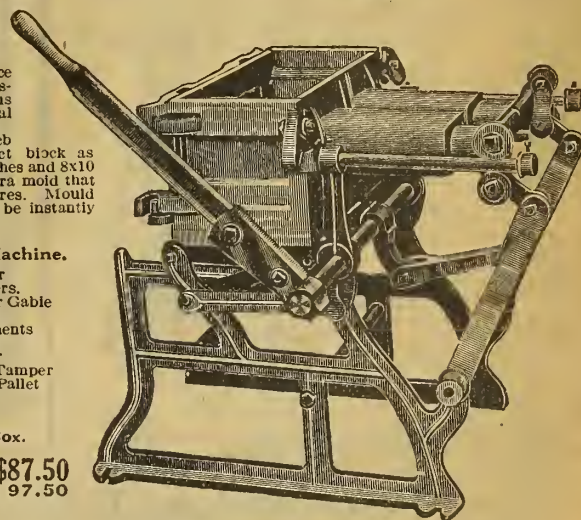
- | | |
|-------------------|--------------------------|
| 1 Mold Box | Plate for Gable Blocks |
| 2 End Doors | Plates for Inside Corner |
| 2 Core End Doors | 2 Joist Attachments |
| 2 Pallet Plugs | 1 Iron Pallet |
| 2 Cores | |
| 2 Dividing Plates | |
| 2 Core Hole Plugs | |
| 1 Steel Carrier | |

- 287C5904—8x8x16 inch Mold-Box Outfit. **\$32.00** weight, 180 lbs. Price.
- 287C5906—8x10x16 inch Mold-Box Outfit. **40.00** weight, 210 lbs. Price.

All mold boxes fit same frame. You can order a mold box outfit of different size and make both size blocks with same style face.

Other Styles of Blocks that Can be Made on the Diamond and for which we can supply Plates and Doors if Specified in your Order:

- Panel Face
- Cobblestone Face
- Broken Ashler



Price of Extras

Face Plates for whole blocks, face plates for ½, ¼ and for ¾ blocks. Any style face. State size and style. All face plates are interchangeable to fit either size mold box.

- 287C5908—Face plates fits both size machines. **\$5.75** Price, each.
- End doors. State style face and whether Right or Left End.
- 287C5910—End Door for 8x8x16 machine. Price each. **3.40**
- 287C5912—End Door for 8x10x16 machine. Price each. **3.50**
- 287C5914—Iron Pallets for 8x8x16 inch machine. Price each. **1.75**
- 287C5916—Iron Pallets for 8x10x16 inch machine. Price each. **.85**
- Silo Block attachment for 16, 20 and 24 ft diameter silos. 8x8 inch blocks with interlocking ends and reinforced groove. Weight, 40 lbs. State size.
- 287C5918—Silo Block Attachment, either size. State size. Price. **\$19.85**
- Adjustable hay window block attachment any style face. State style face plate.
- 287C5919—Bay window attachment 8x8x16 inch size. Price. **11.50**
- 287C5920—Bay window attachment 8x10x16 inch size. Price. **11.60**

Complete outfits, Extra Plates and Parts Shipped from Warehouse near Chicago.

Chicago Feed Cutter

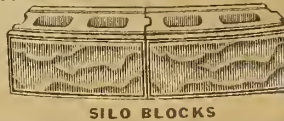
\$19.50

Fluted Roll Feeds to Knife

An excellent easy-running cutter for a few head of stock. Knife is tempered tool steel, and makes a downward shearing cut. Is adjustable to cut from ¾ to 1½ in. and geared to make 3 cuts to one turn of the crank. Main shaft is 1½ in. cold rolled steel. Heavy balance wheel. Has a fluted roll that feeds to knife. Capacity, per hour, about 150 to 200 lbs. dry fodder, 300 to 400 lbs. of green fodder. Shipping weight, 160 lbs.

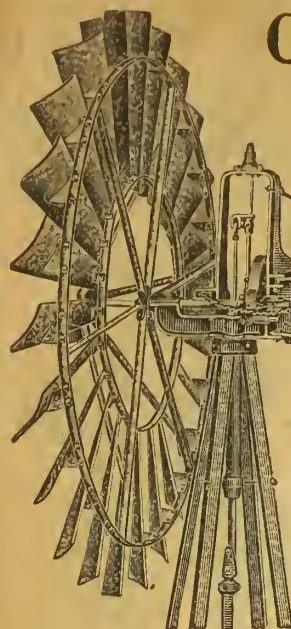
- 287C6560—Price. **\$19.50**

Shipped from warehouse near Chicago.

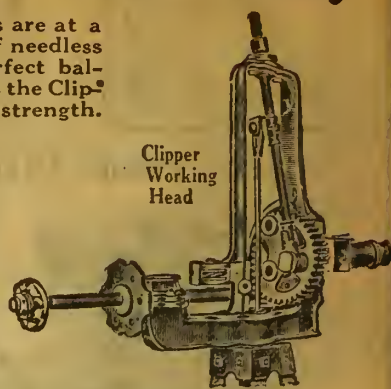


Clipper Windmills—Built Strong—Run Easy

Clipper Windmills will pump water in light winds when many other mills are at a standstill. They work quietly. A noisy, clattering windmill is evidence of needless friction and wear. The correct mechanical design of the Clipper, the perfect balance and the fact that it is made of the very best material obtainable makes the Clipper a Superior Windmill. There are no useless parts that add weight without strength.



\$36.40
to
\$175.00



Wind Wheel is made up in 6 sections in all sizes except the 6-ft. mill, which is made in 4 sections. Our 6, 8 and 12-ft. mills have 4 sails to each section; 10 and 14-ft. mills have 5 sails to each section. Each section is rigidly supported by heavy anchor steel braces.

Vane is made of heavy galvanized sheet steel and heavy steel bracing and is provided with an effective spring governor, which by its action on the vane holds the wheel at the proper angle to develop only the required velocity for work in heavy winds and causing it to face lighter winds full. It is back-gear 2 1/2 to 1, wind wheel making 2 1/2 revolutions to each upstroke of the pump. This feature is especially superior to direct stroke mills as the mill will operate in much lighter winds than a direct stroke mill and in a storm there is less liability of damage to pump. An effective brake operated through governor spring, automatically holds wheel when locked out of wind. Pump rod connection has a swivel joint through center through which the pull-out wire passes and allows mill to turn freely without becoming entangled. 32 ft. of pump rod are supplied to connect pump.

We recommend the purchase of mill and tower together as the tower caps to receive mill are perfectly fitted and the entire outfit can be erected

with little trouble. When specified, we can supply mast fittings with mills in place of wood or steel tower caps. Prices given are for mills only, complete with tower caps ready to set on tower. When mills only are ordered we always furnish cap for wood tower unless the steel tower cap is especially ordered.

If ordered for wood tower, state whether for 3 or 4 post wood tower. Your name or the name of your farm stenciled on the vane if so ordered, without charge.

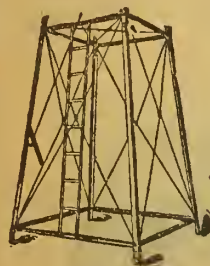
Article Number	Price	Size of Wheel	Length of Stroke	Shipping Weight
287C5200	\$36.40	6 ft.	4 and 6 in.	280 lbs.
287C5202	49.95	8 ft.	4, 6 and 8 in.	380 lbs.
287C5204	63.25	10 ft.	4, 6 and 8 in.	470 lbs.
287C5206	133.00	12 ft.	6, 8 and 12 in.	950 lbs.
287C5208	175.00	14 ft.	6, 8 and 12 in.	1,100 lbs.

Shipped from Warehouse near Chicago.

Clipper Windmills

Six-foot size differs slightly from illustration on account of smaller construction. All other sizes are exactly as shown.

Galvanized All Steel Windmill Towers



Our towers are built of strong steel and made to withstand the severest storms. Corner posts, braces, band-girth, bolts and nuts are galvanized after all cutting and punching is done, leaving no rough edges unprotected. Made in 3 styles or weights each properly proportioned for the mills they are designed to support. A set of cross girts is provided for every 10-ft. section, last set being close to ground and just above the anchor post joints. Each 10 ft. section is firmly braced by 4 sets of round steel brace rods with an eye turned at each end so as not to reduce the size. Two rods on each side of the tower cross each other at a point near

center of the section, where they are clamped and can be tightened so each pair of rods bears same tension, making tower rigid and firm. Also have diagonal cross rods from corner post to corner post in every 10 ft. section by means of which the tower is squared up. Ladders are made of steel, firmly riveted, making them safe to climb. Pull-out lever attached to left post is furnished when mill and tower are furnished together.

Note the weights of our towers indicating the heavy construction and material used insuring strength and rigidity.

Model No. 1. For 6 and 8-ft. Mills.

Article No.	Price	Hgt. Ft.	Shp. Wt. Lbs.
287C5212	\$39.25	20	350
287C5214	56.00	30	535
287C5216	75.75	40	700
287C5218	102.40	50	940

Model No. 2. For 10-ft. Mill.

Article No.	Price	Hgt. Ft.	Shp. Wt. Lbs.
287C5220	\$42.00	20	390
287C5222	60.35	30	560
287C5224	79.95	40	745
287C5226	105.00	50	1000

Shipped from warehouse near Chicago.

Model No. 3. For 12 and 14-ft. Mills.

Article No.	Price	Hgt. Ft.	Shp. Wt. Lbs.
287C5228	\$62.95	20	545
287C5230	89.90	30	790
287C5232	119.00	40	1045
287C5234	157.00	50	1385

Windmill Quadrants

\$6.55



187C5250—Without Wires. Ship. \$6.55

wt., 35 lbs. For either pumping or power mills. To transmit power from mill. Pump connection, 8 feet of wood pump rod and bolts included.

187C5251—Galvanized wire for connecting. Price, per rod. 8c

Climax Pump Jacks

Furnished with Tight and Loose Pulley

With or without base. For attaching to Ordinary Well Pump Standard. Back-gear jacks, to operate by belt, with small gasoline engine or belt power. Can be attached to any ordinary pump with windmill top. Pulley speed, 150 to 200 revolutions per minute. Back geared 4 1/4 to 1. With pulley speed of 160 revolutions, pump will make about 38 strokes per minute. 3 strokes, 5 in., 7 1/2 in., 10 in. Pitman rods are vertical on up-stroke; so there is no side wear on pump piston rod. Diam. of tight and loose pulleys, 12 in. for 2-in. belt, furnished with clamps and bolts to attach to pump standard. Prices do not include pump when in illustration.



287C5262—No. 10 Jack. Clamps to any ordinary pump standard up to 5-in. outside diam. Has leg support. Ship. wt., 70 lbs. Price \$7.10

Shipped from Warehouse nearest you, same as engines. 287C5262—No. 11 Jack. Same as above except with sub-base which supports itself independent of pump, instead of clamp and bolts. Necessary where jack can't be clamped to pump. Can be used on floor, wall or ceiling. Ship. wt., about 80 lbs. Price \$7.85

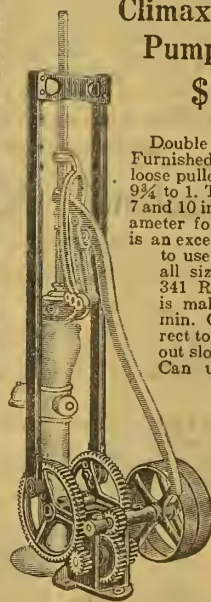
Shipped from Factory in Michigan.



287C5260

Climax Type B Pump Jack \$9.75

Double Back Geared. Furnished with tight and loose pulley. Back geared—9 3/4 to 1. Three strokes—4 1/2, 7 and 10 in. Pulleys, 12 in. diameter for 2-in. belt. This is an excellent all-round Jack to use with Gas engines, all sizes. Pulleys make 341 R.P.M. while pump is making 35 strokes per min. Can be belted direct to small engine without slowing engine down. Can use the full power of engine on very deep wells, or small high speed engine can develop full power and run pump at proper speed. Ship. wt., 95 lbs. Pump Not Furnished. 287C5264—Climax Type B Pump Jack. \$9.75 Shipped from Factory in Michigan.



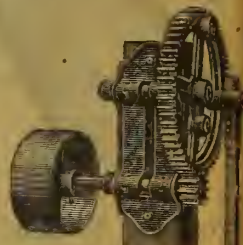
Clipper Power Pumping Jack

Designed to fasten to a post or mast. For belt power connection to pump. Geared back so pump rod makes one stroke while driving pulley of No. 2 makes 4 1/2 revolutions and No. 1 5 1/2 R.P.M. Made in 2 sizes for medium and heavy pumps. Pump connections, 8 ft. of pump pole and such bolts as are necessary to attach the jacks to posts.

287C5256—No. 1 Pump Jack with 10x4 in. pulley for ordinary pumps, back geared 5 1/2 to 1 and with 6-in., 9-in. and 12-in. strokes. Ship. wt., 90 lbs. Price \$13.70

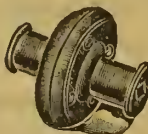
287C5258—No. 2 Pump Jack with 12x5 in. pulley for large pumps, back geared 4 1/2 to 1. Has 12-in., 15-in. and 18-in. strokes. Ship. wt. 150 lbs. Price \$22.95

Shipped from Warehouse near Chicago.



\$22.95

Tumbling Rod Couplings



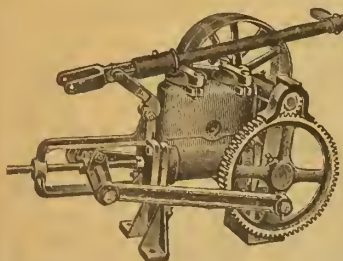
To connect tumbling rods on Horse Powers and Speed Jacks. Iron. Carried in stock to fit 1, 1 1/2 or 1 3/4-inch squared shafts. Shipping weight, each, 14 pounds. 187C5575—For 1-inch shaft \$1.20 187C5576—For 1 1/2-inch shaft \$1.30 187C5577—For 1 3/4-inch shaft \$1.40

Windmill Pump Spring



A cushion spring to connect between the wood and flat pump bar, or to any joint on wood rod, eliminating jars and jerks on pump. It fits all pumping mills. Is attached same as any pump connection. Allows mill to do more work in lighter winds. Ship. wt., 7 1/4 lbs. 187C5252—Price \$1.20

Geyser Junior Hand and Power Pump



For pressure not over 75 lbs. or not over 175 feet total head (lift and force). Pump must not be placed more than 20 feet above the surface of water. Requires from 1/4 to 1 1/2 H.P. according to speed and total head or pressure. Latest design, 1920 Model. To use as hand pump, pull out pin which connects side crank arms to cross head and connect up hand lever. Has machine cut gear and pinion. Waterways are short, direct and of large area. The suction valves are placed slightly below suction opening so pump will hold its priming. All parts are accessible. Head can be reversed allowing suction or discharge to be taken from either side. Cylinder is 3-inch diameter, tight and loose for priming.

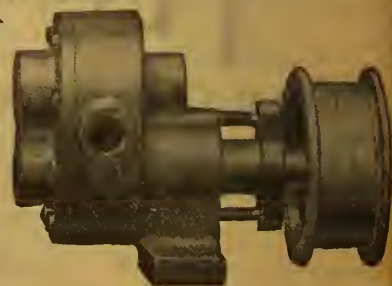
2-inch belt. Capacity of pump, 12 gallons per minute at 40 R.P.M. Fitted for 1 1/2-inch suction and 1 1/4-inch discharge. Tapped with 1/4-inch opening for air valve so pump can be used with pressure tank. Shipping weight, 145 lbs. 187C5536—Price \$46.90 187C5534—Price, Air Valve complete, extra .95

Shipped from stock at Chicago.

Geyser Rotary Geared Power Pump

This pump can be used wherever a ten foot suction pipe will reach water. When placed not more than ten feet above the surface of the water it will force twelve gallons per minute an additional height of fifty feet. It can be driven by a 1/2 H.P. motor, a small engine or a line shaft, with a short length of 1-inch belt. The 7 1/2-inch flanged pulley will give you the proper pump speed, with a 2-inch pulley on your motor or a 6-inch pulley on your engine. The suction and discharge openings are tapped for 1-inch pipe. This pump is especially desirable for residence water supply systems, where water is to be elevated from a cistern to attic tank or reservoir. It is fitted with bronze gears which will not rust. This means that the pump will last and that water passing through it will remain clean. A suitable sand screen and brass check valve is furnished with each pump. Shipping weight, 30 lbs. 187C5538—Geyser Rotary Power Pump \$23.95 Price

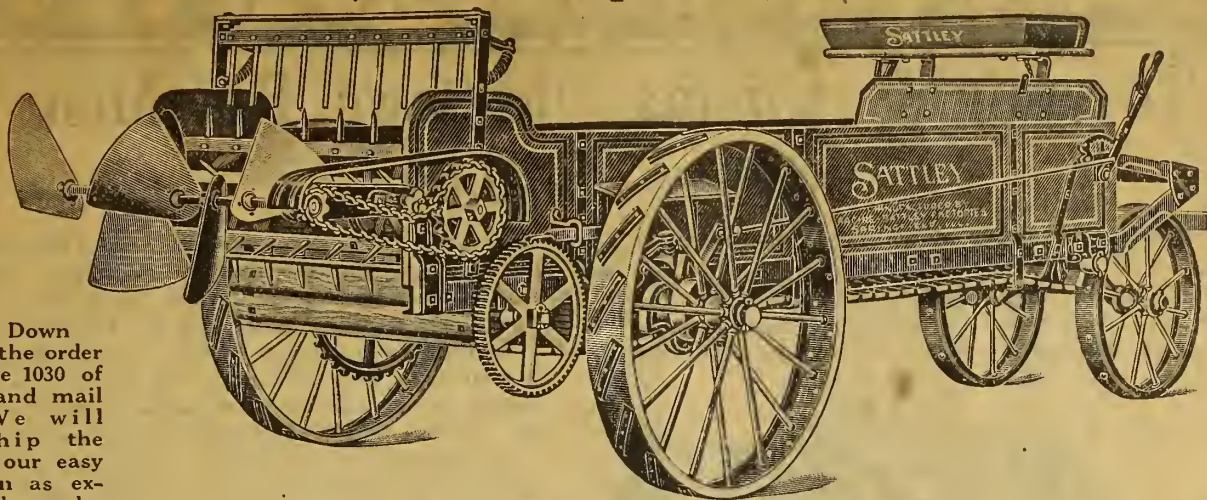
Shipped promptly from stock at Chicago.



Bronze Gears Will Not Rust

Complete with Sand Scree and Brass Check Valve

Sattley Low Down, Wide Spread, Light Draft Spreader



\$146.25
Easy Payment
Price

Thirty days after date of your order pay one-tenth of the amount and the balance in payments, 30 days apart. See page 1030 of this catalog.

No Money Down
Just fill in the order blank on page 1030 of this catalog and mail to us. We will promptly ship the spreader on our easy payment plan as explained on the order blank.

Sold on Easy Terms—No Money Down

287C 1275—Sattley Spreader, with combination 2 and 3-horse equalizer, but without wide spread distributor. Shipping weight, 1550 pounds.
Price, Easy Payment Plan \$146.25
Price, Cash with Order 142.00

287C 1276—Sattley Spreader complete with wide spread distributor and combination 2 and 3 horse equalizer. Shipping weight, 1750 pounds.
Price, Easy Payment Plan \$169.50
Price, Cash with Order 164.50

287C 1277—Extra for wide spread distributor to fit Sattley Spreader. Shipping weight, 200 pounds.
Price, Easy Payment Plan \$23.25
Price, Cash with Order 22.50

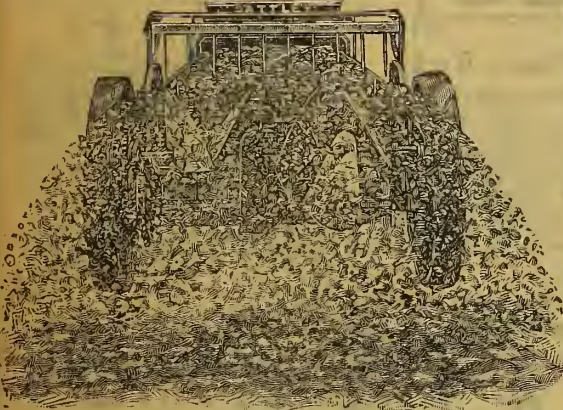
A Big Value

The Sattley Manure Spreader is made in one of the best equipped implement plants in the country. Strictly up to date methods prevail in every department. This, in a measure, accounts for the material and mechanical excellence of the Sattley Manure Spreader. The Sattley is as good as any manure spreader made, regardless of price.

When you buy a Sattley Manure Spreader from us you deal directly with the factory owners for we own and operate the Sattley factories. There are no middlemen's profits with Sattley products. That is the reason we are able to offer, this high, grade, spreader at such a moderate price.

A Severe Test For Any Spreader

Here is a test that the Sattley Spreader Mechanism will withstand: With the spreader loaded start the horses at a fast gait and then throw the spreader in gear. The machine is so strong that we guarantee you cannot break it in this manner.



Wide-Spread Distributor

It only requires a few minutes to attach or detach the wide spread attachment. All that is necessary is to bolt the arms to the main frame with four heavy bolts.

The wings are extra heavy, fan-shaped, mounted on a high carbon steel shaft. The draft is reduced to a minimum by means of smooth wide bearings and chain drive. The manure is pulverized perfectly and spread evenly and wide behind the rear wheels. The Sattley has no equal for top-dressing growing corn.

Conveyor

The Sattley Spreader has the endless slat apron bottom which has proved to be the most durable and satisfactory method of carrying the load—the entire bottom moves toward the beater and forces even distribution. This conveyor runs on Steel Slides. Never sticks or gets out of order.

Special Features

- Easy to load—only 42 inches to top of box.
- Bolster reinforced with extra heavy steel bar.
- Heavy spring on end of gear lever rod acts as shock absorber when starting suddenly, or if anything should get into the beater and stop it.
- Square shafts prevent sprockets slipping.
- Frame always lined up—can't twist if one wheel drops down—front truck forms third point of support.
- All working parts built on steel frame so they can't get out of line, if wood box warps or breaks (see illustration at bottom of page).
- Cut under front wheels allow short turning.
- High arch front axle and exceptionally large fifth wheel with cup for hard oil.

Specifications

- Width of Track**—Front wheels, 28-inch rear wheels, 61 inches; outside to outside rear wheels, 72 inches.
- Wheels**—Front wheels, 28 inches diameter with 4½-inch face. Rear wheels, 40 inches diameter with 5½-inch face.
- Size of Box**—Height, 17 inches; width, 40 inches; length, 10 feet 6 inches.
- Capacity**—60 to 65 bushels. 70 bushels if well loaded.
- Beater**—All Steel. Moves fast enough to thoroughly pulverize the manure.
- Distributor Blades**—All steel paddles, catch manure thrown from beater and spread it to a width of 6 or 7 feet, or 6 inches beyond track of spreader.
- Trucks**—All steel. Malleable iron castings.
- Seat**—Large and roomy. Tips forward out of way.
- Conveyor**—Endless slat apron conveyor of closely spaced narrow wood slats.
- Feed**—4 Adjustments.
- Equipment**—Combination two and three-horse steel equalizer with each machine. It is all steel except the single-trees.



This is a much better evener than furnished with most spreaders.

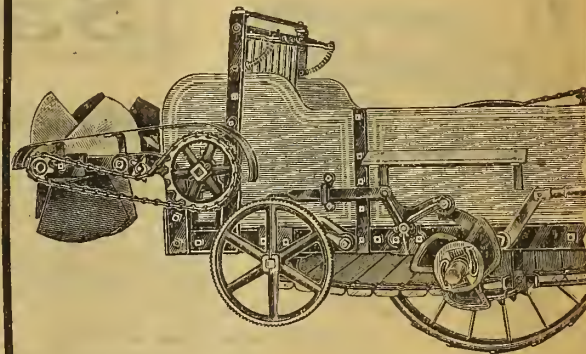
Quick shipments from warehouse nearest you.

Send your order to Chicago and tell us which of the following warehouses to ship from:

- | | |
|--------------------|----------------------|
| Springfield, Ills. | Kansas City, Mo. |
| Saint Paul, Minn. | Omaha, Nebr. |
| Fargo, No. Dak. | Oklahoma City, Okla. |

Light Draft

The Sattley Manure Spreader pulls easy. It will pull easy for the lifetime of the spreader. That is because all the feed-mechanism and working parts are attached to an all-steel frame instead of a wooden box. This keeps the bearings always in perfect alignment. If any of the parts were attached to the wood box, some of the bearings would soon get out of line. It would make the machine pull hard and the bearings would wear out and repairs would often be necessary. If you will look at the illustration shown below you will notice the all-steel under-construction of the Sattley Spreader. You can readily see why the bearings are always kept in perfect alignment, thus assuring light draft and easy pulling.



The Sattley Force Feed

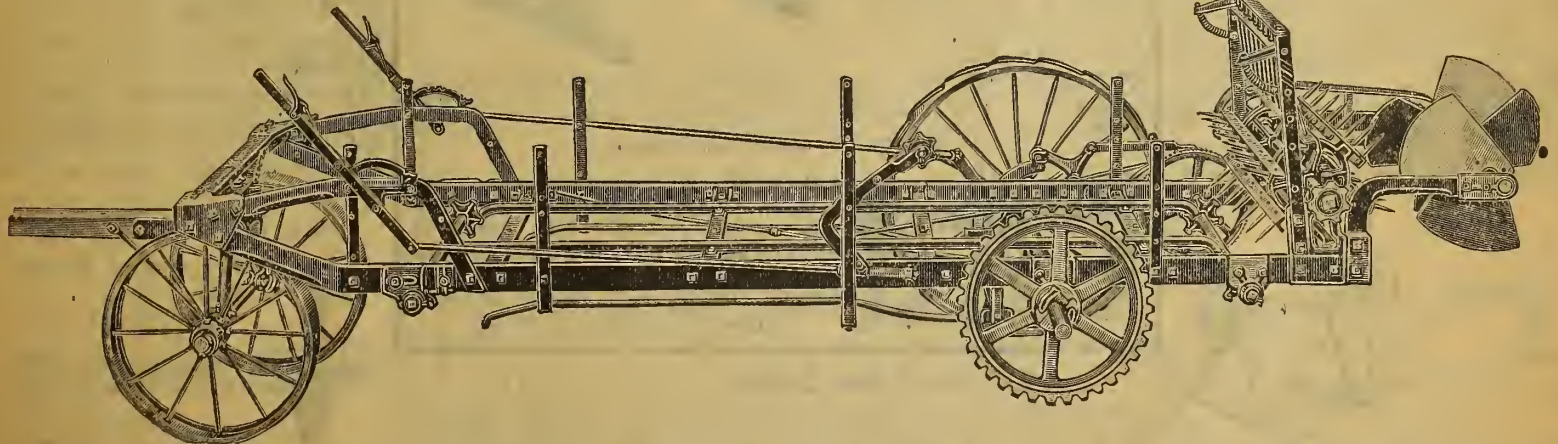
This view shows the powerful force feed on the Sattley Spreader. It has 4 different feeds which are changed as desired by the hand lever at the right of the operator on the front of the machine.

- Feed—4 Adjustments.
- Without Wide Spread Distributor—5, 10, 15 or 20 loads to the acre.
- With Wide Spread Distributor—3, 6, 9, 12 loads to the acre.

Sprockets Cannot Slip

The apron shafts, beater shafts, and wide spread distributor shafts are of square or hexagon steel to which the parts are carefully broached and fitted, doing away with keys and key-ways which often cause trouble. Ratchet and sprocket wheels are easily and quickly removed by withdrawing cotter pin. With key-ways it is often very hard to remove wheels—while set screws slip and cause trouble.

Malleable Castings—We are using malleable and steel castings instead of the clumsy gray iron castings wherever possible so as to reduce the weight of the spreader and make it stronger.



All-Steel Frame

The frame consists of two extra heavy channel steel side sills rigidly braced with trussed channel steel cross members. The cross members are securely fastened to the side sills by means of wrought steel corner brackets. Added strength is given by two diagonal brace rods that are fastened to the frame.

Indestructible All-Steel Beater

The beater bars, teeth, and shaft are steel. There are no wood parts to crack, rot or warp. It is sufficiently strong to break up heavy, frozen manure without injury to the beater. The beater teeth are riveted to heavy angle iron, which in turn are securely bolted to strong malleable hubs mounted on a square steel shaft.

The wide bearings are rigidly braced to the steel angle frame, thus keeping them in line and making beater run easier. Perfect pulverizing of the manure is insured by staggered teeth.

Direct Chain Drive

It is simple, durable, positive and never fails to work. Beater is driven by a heavy chain from a large sprocket mounted on the rear axle. Within reach of the operator is the throw-out lever. This is connected with a throw-cut arm with a cushion spring that takes any sudden shock, prevents injury to the mechanism and insures engagement at all times.

Climax Portable Log & Tree Saw

The Mighty Climax Out-Saws Ten Men

Price Complete, **\$179.00**

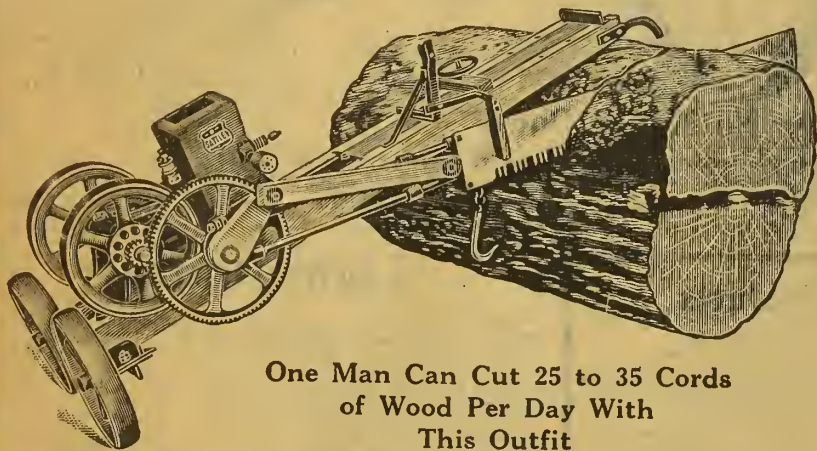
Climax Log Tree Outfit may be easily moved by one man from cut to cut on the log.

The truck has swivel axles so that either or both wheels can be set tracking or crossways. Capacity, 25 to 35 cords of wood per day with 1 man, depending on size and kind of logs. Is equally efficient for dry or green logs. The outfit

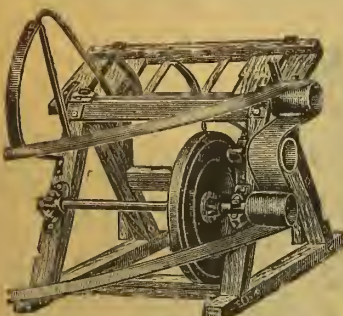
is complete in itself. It is built to stand hard use in the timber lot. Guaranteed for 10 years against defects in material or workmanship. Easily moved on the road on its large steel truck wheels, by hand wheelbarrow style, or hooked on behind a wagon or buggy with saw folded back onto the engine frame. Wheels are set in line with log when sawing. No time is lost in moving from cut to cut or setting up, thus giving 25 to 50% more sawing capacity per day than any other machine without this special wheel feature. Saw can be hooked up while moving from cut to cut, and kept in motion without danger to operator. If saw is pinched in the cut or suddenly held in any manner, friction clutch will automatically disconnect the power. The positive gear drive transmission and the friction clutch on small gear to handle different cut loads are superior features. The Climax engine used with this outfit is an all purpose light duty farm engine of the four-cycle water-cooled type, equipped with a Webster Oscillating Magneto. It will develop 3 h. p. at 600 r. p. m. on belt work. The speed is adjustable. 6 x 4 pulley furnished.

The entire outfit can be easily taken apart with simple tools and the entire saw mechanism removed by pulling one cotter pin. The saw blade is of finest grade crucible saw steel, either Simonds, Disston, or Atkins of 10 gauge thickness of special design for heavy fast work; teeth filed and set ready for use.

- 287C5004—Climax Log Saw Outfit Complete with 5-ft. blade. Actual weight, 450 lbs. Shipping weight, 490 lbs. Price..... **\$179.00**
 - 287C5005—Climax Log Saw Outfit Complete with 6-ft. blade. Actual weight, 455 lbs. Shipping weight, 500 lbs. Price..... **\$181.45**
 - 287C5007—Climax Log Saw Outfit Complete with 7-ft. blade. Actual weight, 460 lbs. Shipping weight, 510 lbs. Price..... **\$183.85**
- Shipped from factory near Kansas City, Missouri.



One Man Can Cut 25 to 35 Cords of Wood Per Day With This Outfit



Swing Table Wood Saw Frame

Made to give good, long service. Diameter of mandrel, 1 1/2 inches, cold rolled steel; length, 49 inches, turned at arbor to fit saws with 1 3/8-inch hole. Tightener pulley in center hung on strong bracket box. Diameter of pulleys, 5 inches with 6-inch face. All bearings babbitted. 95-pound balance wheel. Works equally well with cordwood or poles. Speed, per minute, 750 to 1,000 revolutions. Balance wheel is low down, and out of the way of long poles, giving machine steadier motion than if attached to mandrel. Frame is extra strong constructed. Shipping weight, 400 pounds. Saw blades are extra. For prices on saws, see bottom of this page.

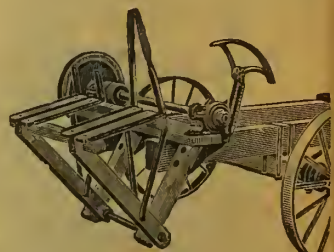
- 287C6440—Right Hand only. Wood drops to your right. Price..... **\$35.00**
- Shipped from factory near Chicago.

Saw Frames

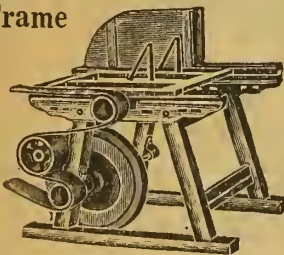
Tilting Table Wagon Rack Saw Frame Attachment

This saw frame is made especially to attach to wagon rack. It is fitted with a 4 1/2-in. mandrel, made with cold rolled steel shaft 1 1/2-in. diameter and turned down to fit saw with 1 3/8 in. bore. 5x6 in. pulley, babbitted boxes and balance wheel. We furnish only saw frame, not wagon or rack or saw blade. Can be attached to wagon on which gas engine is mounted. The pulley is adjustable to line up with drive pulley on engine and outfit may be quickly adjusted to wide racks 38 in. or narrow as desired. Outfit is complete without saw blade. For prices on saws, see bottom of this page. Shipping weight, 225 pounds. Guards are adjustable for saws 20 to 30 inches in diameter.

- 287C6460—For right hand cut..... **\$27.50**
 - 287C6461—For left hand cut..... **27.60**
- Shipped from factory near Chicago.



Sliding Table Pole Saw Frame



For sawing poles and cordwood. Sliding table pattern. Balance wheel on separate shaft, allowing sawing of poles as well as cordwood. Belt tightener pulley on heavy bracket shaft box prevents belt slipping and insures even steady motion. Frame seasoned hardwood, strongly bolted and thoroughly braced. Safety hood over saw blade. Diameter of arbor and mandrel pulleys, 5 inches, 6-inch face, 95-pound balance wheel, all bearings well babbitted, 1 1/2-in. cold rolled steel mandrel with 1 3/8-in. arbor. Speed 750 to 1,000 revolutions per minute. Saw blades extra. Shipping wt., 430 lbs.

- 287C6442—Right Hand Pole Saw Frame. (Cut-off wood drops to your right hand.) Price..... **\$39.90**
- Shipped from factory near Chicago.

Tilting Table Wood Saw Frame

\$24.00

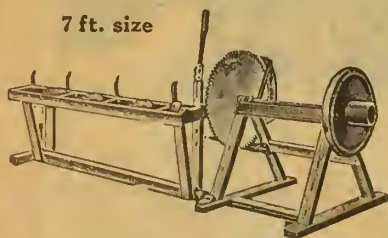


1 1/2-inch Cold rolled Steel Mandrel. Bolted frame. Extra strong. Well braced. Made in 2 styles for cordwood only and with attachment for use with long poles. Frame is of dry hardwood full size thoroughly ironed and braced. Bearings are long and well babbitted. Diameter of saw arbor, 1 1/2 in.; length, 49 in.; cold rolled steel turned down at ends to fit saws with 1 3/8-in. holes. Belt pulley, diameter 5 in. with 6-in. face. Heavy iron saw guard. Speed, 750 to 1000 revolutions per minute. Saw blade is extra. Right hand only.

- 287C6432—For cordwood only as in large illustration; 60-pound balance wheel. Shipping weight, 275 pounds. Price..... **\$24.00**
 - 287C6434—For cordwood only, as in large illustration; 95-pound balance wheel. Shipping weight, 310 pounds. Price..... **\$26.25**
- Shipped from factory near Chicago.

Swing Table Pole Saw Frame

7 ft. size



Frame made of seasoned hardwood well braced. Bearings long and well babbitted. Diameter mandrel, 1 1/2 inches, cold rolled steel turned down to 1 3/8 inches at arbor. Diameter of pulley, 5 inches with 6-inch face. 95-pound balance wheel. Suitable for saws 20 to 30 inches diameter. Speed, 750 to 1,000 revolutions per minute. Tilting table is fitted with 3 rollers. Compression spring returns table to position. Steel lever fitted with dogs holds pole in place. Saw blades are extra. Shipping weight, 250 lbs. Right Hand Only.

- 287C6444—7-ft. Swing Table Pole Saw Frame Complete. Price..... **\$31.85**
- Shipped from factory near Chicago.



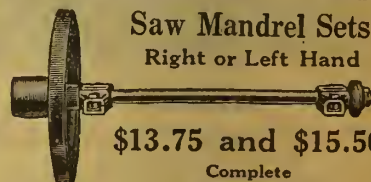
Cordwood Saw Blades

All sizes have 1 3/8-inch arbor bore. Requires about 2 1/2 Horse Power for the 20 and 22-in. saws, 4 H. P. for the 24-in., 5 to 7 H. P. for the 28 and 30-in. Saw blades showing defects, replaced. We do not recommend more than 1,000 revolutions per minute. Weights, crated, range from 9 1/2 lbs. for 20-in. size to 27 lbs. for 30-in. size.

Article No.	Diam. Inches	Gauge	Speed	Price
287C6420	20	13	1000 to 1400	\$4.75
287C6422	22	12	1000 to 1400	5.75
287C6424	24	11	950 to 1200	6.75
287C6426	26	11	900 to 1200	8.00
287C6428	28	10	800 to 1000	9.25
287C6430	30	10	800 to 1000	10.50

Shipped from stock at Chicago, or with saw frames, from factory near Chicago.

Saw Mandrel Sets Right or Left Hand



\$13.75 and \$15.50

Complete

For use on pole or cordwood sawing outfits. Length of mandrel, 49 inches; diameter, 1 1/2 inches. Cold rolled steel turned to 1 3/8 inches at arbor for saws with 1 3/8-inch bores. Boxes have babbitted bearings. Size of balance wheels 60, and 95 pounds with key ways; diameter of pulley, 5 inches, 6-inch face. Right hand shipped unless you order Left Hand. Bolts not furnished.

- 287C6446—Complete set, including mandrel, with arbor plates, flat babbitted boxes, 5-inch pulley with 6-inch face, and 60-pound balance wheel. Can be used on any flat top frame. Ship. wt., 125 lbs. Price..... **\$13.75**
 - 287C6447—Complete set, as above, but with 95-pound balance wheel. Ship. wt., 160 lbs. Price..... **\$15.50**
 - 287C6448—Mandrel only, with arbor plates and nut. Ship. wt., 31 lbs. Price..... **\$5.50**
 - 287C6449—60-pound balance wheel only. Price..... **4.70**
 - 287C6450—95-pound balance wheel only. Price..... **6.45**
 - 287C6451—Flat babbitted boxes. Per pair..... **2.40**
 - 287C6452—5-inch diameter, 6-inch face pulley. Price..... **1.65**
- Shipped promptly from factory near Chicago.

Saw Mandrel Sets with Connected Boxes

Right or Left Hand. Right Hand shipped unless you order Left Hand



- Balance wheels, 60 and 95 lbs. with key ways. Diameter of mandrel, 1 1/2 inches. Length, 49 inches, with 1 3/8 in. saw arbor. Bolts not furnished.
 - 287C6454—Mandrel set, including mandrel with arbor plates, 60-pound balance wheel, connected boxes and pulley. Shipping weight, 130 pounds. Price..... **\$14.75**
 - 287C6455—Mandrel set, including mandrel with arbor plates, 95-lb. balance wheel, connected boxes and pulley. Ship. wt., 170 lbs. Price..... **\$16.90**
 - 287C6456—Connected babbitted boxes. Weight, 15 pounds. Per set, price..... **\$4.25**
- Shipped from factory near Chicago.

Farm Power Equipment

Line Shaft Outfit \$23.95

With this speed governing line shaft outfit you can run several light machines at various speeds from the same engine or motor. Our Universal Line Shaft Outfit will transmit 2 1/2 H. P., and will drive your cream separator, churn, pump jack and washing machine independent of each other, or all together, at the proper rates of speed, without changing the speed of your engine. The line shaft governor will absorb the jerks and speed variations of the engine, and deliver a steady pull on your machines. It will permit you to pick up speed gradually, on your cream separator, or slow down the speed of your churn to gather the butter. It will permit you to slow down the speed of your washing machine when washing heavy pieces, such as blankets and quilts. A turn of the hand wheel will stop the shaft while the engine continues running. A turn of the hand wheel in the reverse direction will start the shaft and it will pick up speed gradually. It can then be set for any speed you desire.

The outfit consists of an 8-ft. shaft, 1 in. in diameter; speed governor with 9 x 6 drive pulley; one 4 x 3; one 6 x 2 1/2; and one 8 x 2 1/2-in. pulley; all mounted on a substantial 2-in. plank and supported by three hangers. Grease cups provide lubrication. Shaft can be driven at a speed of from 200 to 300 r.p.m. Speed of pulleys can be varied from 50 to 300 r.p.m. No belt is included in the price, but would recommend a 50 ft. roll of 2-in. 2-ply rubber belt for driving line shaft and three machines.

287C5272—8-ft. Line Shaft Outfit with four pulleys as described \$23.95 above. Shipping weight 115 lbs. Price.....

Shipped from warehouse nearest you, same as engines.



Plain Cast Iron Pulleys

Bored for 1 or 1 1/4 in. Shaft Only.

Made of close grained gray iron with straight cast face, bored for 1 or 1 1/4-inch shaft, only; held in place by set screw. Be sure to state which bore when ordering. Cannot furnish in other size bores.

187C5286—(State which bore, also size)

Size	Weight	Price Ea	Size	Weight	Price Ea
3x4 in.	5 lbs.	\$1.49	12x2 1/2 in.	16 lbs.	\$1.99
4x4 in.	6 lbs.	1.59	12x4 in.	18 lbs.	3.19
6x4 in.	9 1/2 lbs.	1.59	14x4 in.	23 lbs.	3.77
8x4 in.	11 lbs.	2.39	16x4 1/2 in.	28 lbs.	4.49
10x4 in.	15 lbs.	2.59			

Shipped promptly from stock at Chicago.

Ground Cast Iron Pulleys

Pulleys listed are known as Single Belt Pulleys, full standard weight, accurately bored and turned. Furnished with key seats or set screws as ordered. Unless otherwise ordered, they will be furnished with crowning face and set screws. Cast pulleys are made to order and will be shipped about 5 to 10 days after order is received. Pulleys under 6 inch diameter and narrower than 3 in. face cost more than 6x3 inch pulleys due to special hand molding and turning. You must give all dimensions, diameter, face and bore. State whether key seat or set screw before we can fill order.

Special hubs, spokes or rims take extra costs.

387C5284

Diam. In.	Face In.	Weight Lbs.	Price Each	Diam. In.	Face In.	Weight Lbs.	Price Each
6	3	6	\$3.10	12	3	23	\$7.15
6	4	8	3.50	12	4	32	8.00
6	5	11	4.48	12	5	30	8.00
6	6	13	5.10	12	6	45	10.10
6	8	16	5.32	12	8	37	9.10
6	10	20	5.50	12	10	48	11.50
10	4	15	4.90	12	12	42	10.35
10	6	22	6.10	12	13	40	13.00
10	8	25	7.55	12	14	42	13.00
10	10	30	8.55	12	16	60	14.00
12	4	17	5.68				

Write for prices of double belt pulleys and other sizes.

Solid Sleeve Coupling

For joining shafting with two set screws in sockets, not projecting. Article number **87C5298**

For Shaft Wt. Lbs.	Price
1 1/4	\$2.48
1 1/2	2.85
1 3/4	3.30

Safety Shaft Collar

Cast iron with Howe set screw on center protected by flange on each side. Will not catch on anything while in motion.

Wt. 1 and 1 1/4 in. size, 1 lb.; 1 1/2 in. size, 1 1/2 lbs.	Price
For shaft, in.	1 1/4 1 1/2
Price.....	28c 37c 45c

Split Pillow Blocks

Cast iron and babbitted, with base bolt adjusting slots. Article number **87C5292**

For shafts, in.	1 1/4	1 1/2
Weights, lbs.	3	4
Price.....	90c	\$1.08 \$1.44

Post Hangers

A neat design of split journal post box well habitted. Adjustable by bolt slots. Article number **87C5294**

For Size Shaft In.	Wt. Lbs.	Price, each
1 1/4	4	\$1.50
1 1/2	5	2.40

Cold Rolled Steel Shafting

Every bar straight and true to size. U. S. Standard. Prices are for shafts 5 ft. to 18 ft. long. Less than 5 ft. we charge for cutting as follows:

1 in.	15c per cut.
1 1/4 in.	20c per cut.
1 1/2 in.	20c per cut.

Prices Subject to Market Changes.

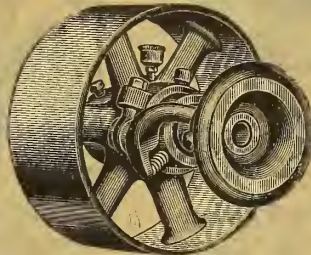
Steel shafting can be cut any length not exceeding 18 feet and will be shipped about 5 days after order is received.

387C5300

Size	Weight per ft.	Price per ft.
1 in.	2 1/2 lbs.	26c
1 1/4 in.	4 1/4 lbs.	45c
1 1/2 in.	6 lbs.	60c

Friction Clutch Pulleys for Engines.

Our hug grip clutch pulley with contracting band is constructed of only 11 parts, simple to operate and adjust. The wide friction band worked by a single toggle lever secures positive action and insures long life. The entire adjustment is made by tightening or loosening one nut. The hand wheel is a one-piece casting without joints or lugs, and cannot injure operators' hands or fingers. The extra wide pulley bearing fitted with grease cup, and the simplicity of construction and adjustment makes this one of the best friction clutch pulleys on the market.



We furnish plain engine pulleys regularly with all Sattley Engines but a Friction Clutch Pulley performs better enabling the operator to start or stop the engine independent of each other, saving wear and tear on both.

287C5280

These sizes are bored for Sattley Engine Crank Shafts and are the same size as the regular plain pulley listed with each size engine. The prices quoted are to be used only when Friction Clutch Pulleys are ordered and shipped in place of the regular plain pulley with new Sattley Engines. Shipped from warehouse nearest you with your engines.

Diam. & Face In.	Sattley Eng. H. P.	Bore In.	Ship Wt. lbs.	Price	Diam. & Face In.	Sattley Eng. H. P.	Bore In.	Ship Wt. lbs.	Price
8x4	3	1 1/4	45	\$13.50	20x8	9	2 1/4	140	\$29.00
12x6	5	2	60	16.20	24x8	12	2 3/4	175	35.00
16x6	7	2 1/4	80	19.95					

Made to Order Friction Clutch Pulleys

387C5281

If you already have an engine and want to equip it with a Friction Clutch Pulley, make your selection from the following list being careful to state diameter and width of face, diameter and length of crank shaft extension, the H. P. and speed of engine.

Shipped only from factory in Chicago.

Diam. & Face In.	Max. imum H. P. Clutch Cap'cy	Larg. est. Bore In.	Ship Wt. lbs.	Price	Diam. & Face In.	Max. imum H. P. Clutch Cap'cy	Larg. est. Bore In.	Ship Wt. lbs.	Price
8x4	3	1 1/4	45	\$19.80	20x8	12	2 3/4	145	\$42.75
12x6	6	2 1/4	50	23.60	22x8	12	2 3/4	155	47.25
14x6	6	2 1/4	70	26.90	24x8	16	3	175	46.40
16x6	8	2 1/2	80	30.95					

READ CAREFULLY

All pulleys and shafting listed as 387C are made to order and will require 5 to 10 days to make shipment. When ordering pulleys we must know diameter, width of face, size of bore and whether key seated or with set screws. We cannot fill your order if either specification is omitted. Pulleys with special hubs, spokes or rims take extra costs. We reserve the privilege of changing prices of all power equipment shown on this page. If market declines we will give you the benefit on your order.

Wood Split Pulleys

They are standard throughout. Can be used with satisfaction any place where a leather belt can be used.

All our wood split pulleys are made of select straight-grained kiln-dried hardwood. Properly nailed and glued together. Bushing turned both inside and out. Sizes, 10 in. and under have no spokes.

Be sure to state diameter and width of face and bore or size of shaft.

87C5288

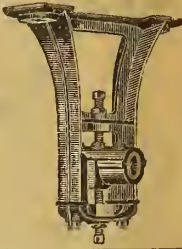
Diam. In.	Face In.	Weight Lbs.	Price	Diam. In.	Face In.	Weight Lbs.	Price
3	3	1/2	\$2.05	8	4	5	\$2.52
3	4	3/4	2.10	8	6	7	2.95
3	6	1	2.40	10	4	8	2.75
4	4	3/4	2.15	10	6	12	3.40
4	6	1 1/4	2.30	12	4	10	3.95
6	3	2 1/4	3.16	14	6	11	4.75
6	4	3	3.32	16	6	16	5.45
6	6	4 1/4	2.70	18	6	18	6.25
				20	6	19	6.95

Adjustable Ball and Socket Hanger

Double braced, full weight, of standard design and great strength. They have habitted, self oiling boxes, are adjustable and can be turned upside down and used as floor stand.

87C5290

8 in. drop	Bore	Ship Wt.	Price
For shaft.....	1 inch	13	\$2.10
For shaft.....	1 1/4 inch	14	2.25
For shaft.....	1 1/2 inch	15	2.40
12 in. drop	Bore	Ship Wt.	Price
For shaft.....	1 inch	20	\$2.55
For shaft.....	1 1/4 inch	21	2.80
For shaft.....	1 1/2 inch	22	3.00



Iron Foot Valves

Foot valve will hold water while pump is being primed. Foot valve under 6 inches always threaded, unless ordered with flange. Foot valves same size as suction size of pump.

Article Number	Size Inches	Price	Article Number	Size Inches	Price
287C5510	1	\$0.82	287C5515	4	\$5.25
287C5511	1 1/4	1.90	287C5516	5	8.12
287C5512	2	1.20	287C5517	6	22.50
287C5513	2 1/2	2.24	287C5518	8	32.40
287C5514	3	3.15			

Shipped from factory in Northern Illinois.

Centrifugal Pump Primers

Size of Primer is same as foot valve or suction size of pump

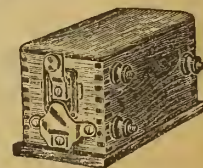
Article Number	Suction Size Inches	Wt. Lbs.	Price
287C5520	1	35	\$16.80
287C5521	2	70	20.80
287C5522	3	80	1.60
287C5523	4	100	32.20
287C5524	5	135	32.00
287C5525	6	150	38.60
287C5526	8	200	48.00

Shipped from factory in Northern Illinois.

Fansteel Jump Spark Coils

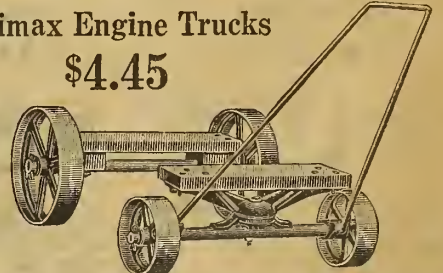
Fansteel Jump Spark High Tension Coils for both Stationary and Marine Engines. Their high efficiency has placed them in a class by themselves. Equipped with trouble-proof vibrator. Their Tungsten contact points are the hardest, and most reliable ever employed in work of this kind.

87C5330—Type 36, 1 cylinder box coil. Ship wt., about 3 lbs. Price, each.....



Climax Engine Trucks

\$4.45



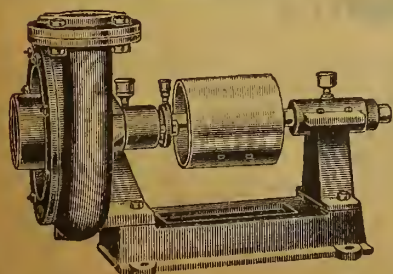
Steel handle truck has wood cross-beams each 1 3/8x3 1/2x16 1/2 inches. Engine base or box bolted to beams acts as frame. Wheels 9 inches diameter by 1 1/2 inch face. Tubular axles 1 inch diameter, length 26 inches. Ship wt., 47 lbs. **87C5326**—Price.... \$4.45 Shipped from Chicago Stock.

287C5328—Heavy Truck for engines up to 1,000 lbs. Length, 5 feet. Width, outside of beams, 22 in. Diameter of front wheels, 9 in. Diameter of rear wheels, 14 in. Width of tires 3 in. Ship. wt., 118 lbs. Price..... \$8.95 Shipped from Factory Cent. Ill.

\$28.40

and up

Geyser Centrifugal Pump



Geyser pumps are intended for irrigation, drainage and contractors' use where it is desirable to handle large quantities of water at a moderate elevation. Rainfall cannot be regulated but a supply of water for growing crops can be had in any quantity as often as required, to keep the crops in a condition most essential to rapid even growth. The pump is used extensively for fire protection and work where the moderate lift of big quantities of water is desired and for drainage service not exceeding 65 feet total head and where the pump can be placed not more than 25 feet above the surface of the water.

It has a large pulley, supported on either side by long bearings, furnished with grease cups. Only genuine high grade babbit metal is used in our Geyser bearings. An extra long packing gland is provided on each shaft to insure operation without attention.

Article Number	Size of Discharge Inches	Size of Suction Inches	Capacity Gallons per minute	Diameter and Face of pulley	Shipping Weight pounds	Price at Factory near Chicago
287C5501	1 1/2	1 1/4	25	4x 3	40	\$28.40
287C5502	2	1 1/2	70	4x 4	75	47.25
287C5503	2 1/2	2 1/4	120	4x 4	95	66.20
287C5504	3	3	185	6x 6	165	84.95
287C5505	3 1/2	4	265	7x 6	205	110.40
287C5506	4	5	470	8x 8	330	122.95
287C5507	5	6	750	9x10	485	156.00
287C5508	6	8	1050	10x10	600	208.00

Shipped from factory in Northern Illinois.

Sattley

Throttling Governor

Easy Payments No Money Down

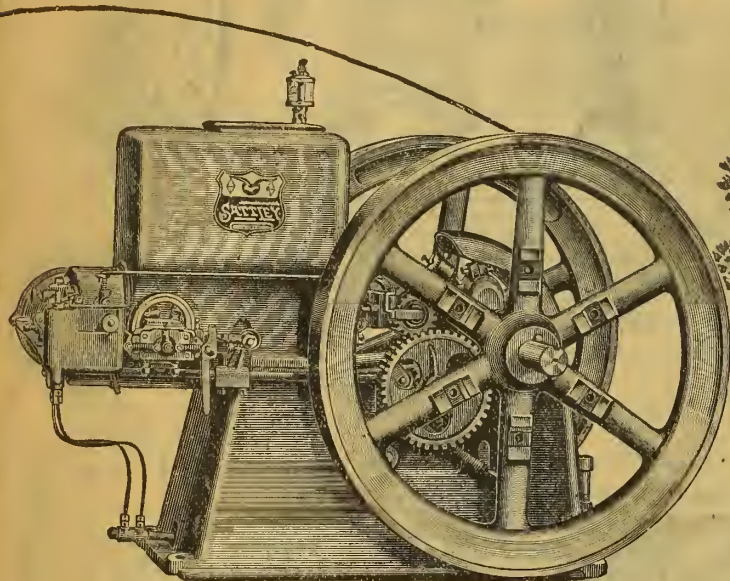
See Order Blank on Page 1030 of this Catalog

30 Days' Free Trial.
If Satisfied Pay for it in 10 Equal Monthly Payments

Two Methods

Only One Small Profit to Pay

There is no good reason why you should pay one cent more for an engine than the price we ask for the Sattley. You pay for quality only when you buy a Sattley. No Manufacturer can build more quality into an Engine than we do in the Sattley, no matter what price the Engine sells at. You may ask yourself—where does this difference in price come in? The answer is on opposite page—read it—also study the chart.



Factory-to-

	Easy Payment Price	Cash with Order Price
1 1/2 H. P. Sattley Kerosene Engine 1 1/2 Actual Horse Power at normal speed. Bore, 3 1/4 inches. Stroke, 4 inches. Webster Magneto, Normal Speed 625 R. P. M. Pulley, 4x4. Shipping weight, 240 lbs. 287C5158—1 1/2 H. P. Sattley Throttling Governor Kerosene Engine with Webster Magneto.	\$63 ³⁵	\$59 ⁷⁵
3 H. P. Sattley Kerosene Engine 3 Actual Horse Power at normal speed. Bore, 4 1/2 inches. Stroke, 6 inches. Webster Magneto, Normal Speed 550 R. P. M. Pulley, 6x4. Shipping weight, 515 pounds. 287C5161—3 Horse Power Sattley Throttling Governor Kerosene Engine.	\$110 ⁷⁵	\$104 ⁵⁰
5 H. P. Sattley Kerosene Engine 5 Actual Horse Power at normal speed. Bore 5 1/4 inches. Stroke, 7 inches. Webster Magneto, Normal Speed, 475 R. P. M. Pulley, 12x6; Flywheels, diameter, 28 inches; weight, each, 150 lbs. Crankshaft, 2 inches. Shipping weight, about 935 pounds. 287C5165—5 Horse Power Sattley Throttling Governor Kerosene Engine.	\$167 ⁵⁰	\$158 ⁰⁰



Our Warehouse Plan Saves You Time and Money. Equip your new Sattley Engine with a Friction Clutch Pulley. See page 1023, 287C5280. Shipped from our Warehouse nearest you.

Reduce Your Fuel Costs

Use Kerosene, Distillate, Coal Oil and Other Cheaper Fuels as well as Gasoline.

Reliable power at lowest cost under different load and weather conditions is what interests farmers. The Sattley Throttling Governor Kerosene Engine is Built for Service. It is without question the highest type Farm Engine on the market. It is built particularly for the farmer and his work and guaranteed to meet these requirements.

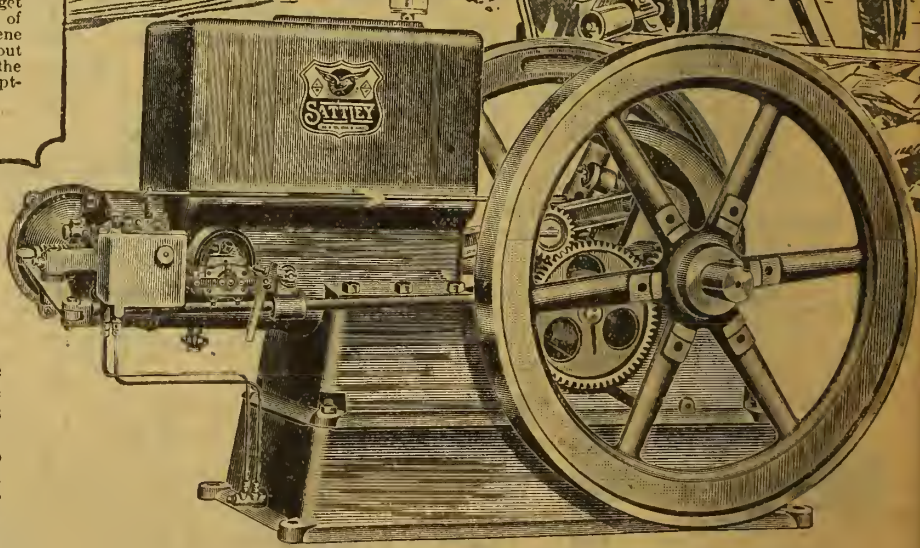
Bear in mind, the Sattley Throttling Governor Kerosene Engine is an Oil Engine, designed and built particularly to use kerosene, but gasoline can also be used, and deliver its full rated Horse Power or more. Horse Power is what you want and if you get the same Horse Power from a Gallon of Kerosene as you would from a Gallon of Gasoline, that's the Engine you want and the Sattley Throttling Governor Kerosene Engine is just such an Engine. It solves a problem in farm economy and is without question the best and cheapest power any farmer can buy. Every day you operate the Sattley Throttling Governor Kerosene Engine the more you will appreciate its adaptability to your work.

See Page 1030 of this Catalog for Particulars on Easy Payments

Always On The Job—

The Sattley eliminates waste time—does away with non-productive expense—odd jobs are quickly and efficiently done. The Sattley Engine gives a farmer more time to plan—more time to farm, thereby increases his income and makes farming a pleasure instead of hard work.

Work the Sattley twenty-four hours a day and it will be on the job ready for the next day's work. Easy to start—even in cold weather—runs as steady as a clock—gives you a steady even power that is a Glutton for Work. Hitch it to your pump—your grinder—your sheller—your saw outfit—and The Sattley Throttling Governor Kerosene Engine will always be on the job to deliver the power.



7, 9 and 12 H. P. Throttling Governor Kerosene Engines.

Carbon Steel Crank Shaft



Forged from a solid piece of close-grained high tensile strength steel—the best known metal for the purpose, not a weld in it, strong enough to carry twice the strain expected and then thoroughly heat treated to give it even more tensile strength. Every crank shaft is made according to our chemists' specifications and guaranteed perfect.

Long Life Valves



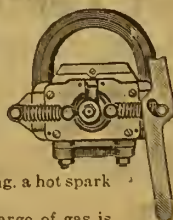
Sattley Valves are of the overhead type, large in size with heavy steel stems, to insure long life. They are ground to a perfect fit, with oil and emery dust in automatic machines made for the purpose. Do not buy an engine with a small exhaust pipe, as this indicates small valves. Large valves are better. For Example: A 7 Horse Power Engine should have not less than a one and one-half inch exhaust pipe.

Reliable Ignition

Four Reasons why you should buy an Engine equipped with a Webster Oscillating Magneto and why all Sattley engines are so equipped:

- (1) **Reliability.** A hot spark is always ready.
- (2) **Very Economical.** Fuel is not wasted. No miss firing. A hot spark ignites every charge.
- (3) **More Power.** Every charge of gas is ignited and converted into power.
- (4) **Saves Money.** Dry cells used for battery ignition are expensive and must be renewed.

Webster Magneto is water, oil and dust proof. Magneto is equipped with easy starting device and Engine starts on magneto. Webster Magneto is guaranteed for the life of the Engine. Remember all Sattley Engines are equipped with magneto and are not to be compared with Battery equipped Engines.



Pistons



Correctly designed, semi-steel, extra long, ground to an exact fit, so as to cause as little friction as possible and still hold compression. Oil grooves are just the right size to lubricate perfectly without waste. Piston rings are fitted accurately to piston grooves, doweled pinned into place. Doweled pinning is insurance against lost compression.

Connecting Rod



The Connecting Rod is the arm which takes the force of the explosion in the cylinder and transmits it to the crank shaft. Each explosion develops a sudden shock. Sattley Connecting Rod is made of malleable iron—the only correct material for connecting rods. Strong, tough and lasting. It is of I-beam construction, which is the same form which is used in making the big girders for bridges and connecting rods of a locomotive. The crank shaft end has a large adjustable babbit bearing; the head end connecting rod bearing is adjustable in the 5, 7, 10 and 15 H P sizes. The 1 1/2, 2 1/2 and 3 H P. sizes have removable bronze bushings.

Kerosene Engines

Of Selling-
Three Profits to Pay

Other Manufacturers' Way—That Makes You Pay

Why pay these unnecessary Profits—the Manufacturer's Profit, Jobber's profit and Dealer's Profit? The extra handling by the Jobber and Dealer does not add to the quality one bit—does not make the engine work any better or last any longer. Keep these extra profits—the jobber's and the dealer's—in your own bank and pay for quality only by ordering a Sattley.

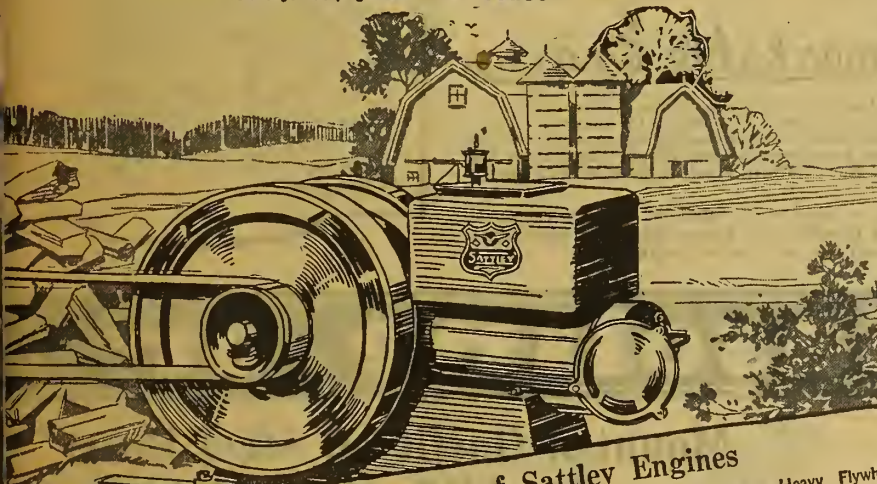
You Pay Prices

7 H. P. Sattley Kerosene Engine
7 Actual Horse Power, at normal speed. Bore, 6 inches. Stroke, 8 1/2 inches. Webster Magneto. Normal Speed, 400 P.M. Pulley, 16x6. Flywheels, diameter 34 inches; weight, each, 230 pounds. Crankshaft, 2 3/4 inches. Shipping Weight, 1320 lbs.
37C5167—7 Horse Power Sattley Throttling Governor Kerosene Engine.
For Friction Clutch Pulleys, see page 1023.

9 H. P. Sattley Kerosene Engine
9 Actual Horse Power, at normal speed. Bore, 6 1/2 inches. Stroke, 12 inches. Webster Magneto. Normal Speed, 340 R.P.M. Pulley, 20x8. Flywheels, Diameter 44 inches; weight, each about 325 pounds. Crankshaft, 2 3/4 inches. Shipping weight, about 2025 lbs.
37C5168—9 Horse Power Sattley Throttling Governor Kerosene Engine.
For Friction Clutch Pulleys, see page 1023.

12 H. P. Sattley Kerosene Engine
12 Actual Horse Power, at normal speed. Bore, 7 1/2 inches. Stroke, 12 inches. Webster Magneto. Normal Speed, 300 P.M. Pulley, 24x8. Flywheels, diameter, 44 inches; weight, each, 530 lbs. Crankshaft, 2 3/4 inches. Ship. wt., 2070 lbs.
37C5172—12 Horse Power Sattley Throttling Governor Kerosene Engine.
For Friction Clutch Pulleys, see page 1023.

Shipped from Warehouse Nearest to You.
Equip your New Sattley Engine with a Friction Clutch Pulley. See page 1023. 287C5280

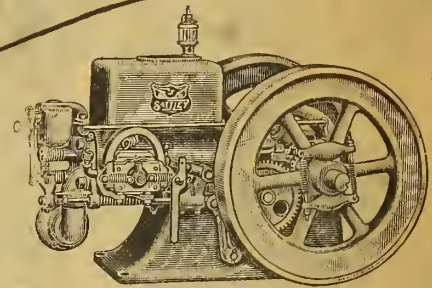


Sattley Pays for Itself—Order Now!

on Easy Payments

No Money Down

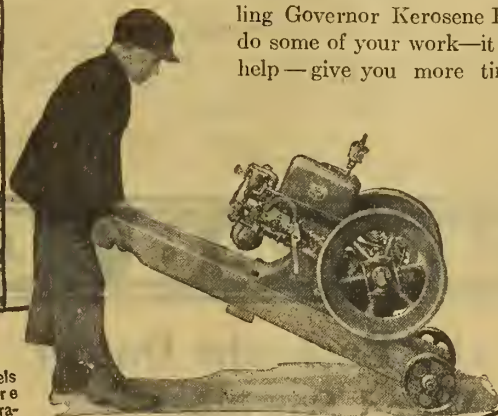
See Page 1030 For Particulars



Farmers' Quick and Easy

1 1/2 H. P Throttling Governor Kerosene Engine

A Fast Worker and an Easy Starter—what better combination could anyone ask for? Low in price—economical in operation—it is a Sattley Engine Farmers need and want. Burns Kerosene, Coal Oil or Gasoline. Don't delay buying this Sattley Kerosene Engine—hitch it to your Separator—Churn—Pump or other machines about your farm—it sure will deliver the goods. You cannot afford to be without this Sattley 1 1/2 H. P. Throttling Governor Kerosene Engine. Let this Sattley do some of your work—it certainly will be a great help—give you more time to plan, thereby increase your earning power. The price is exceptionally low. Has Webster Oscillating Magneto and the latest improvements. This Engine is ideal for two or four wheel portable truck outfit as shown on page 1027.



increase your earning power. The price is exceptionally low. Has Webster Oscillating Magneto and the latest improvements. This Engine is ideal for two or four wheel portable truck outfit as shown on page 1027.

14 Superior Features of Sattley Engines

No. 1. Ample cooling capacity in every size. No danger of Sattley Engines becoming overheated.

No. 2. The Throttling Governor economical in fuel consumption.

No. 3. The Oiling System that you cannot overlook or forget. Automatic Sight feed lubricator supplies oil to piston, cylinder and wrist-pin bearings.

No. 4. Kerosene Mixer with mechanically operated fuel pump.

No. 5. Webster Oscillator Magneto. Insures easy starting. No wiring or short circuits.

No. 6. Large Cylinder Bore and Stroke for every size. Ample power at moderate speeds. Smooth finish insures long life and smooth running.

No. 7. Fuel Tanks Inside Base, Safety First. Completely protected from damage by the heavy iron base. No danger of fire.

No. 14. Large Heavy Flywheels properly counterbalanced, insure smooth steady running without vibration.

No. 13. Heavy, Strong Cast Shield not thin sheet steel as is sometimes used.

No. 12. Connecting Rod especially designed of 1" beam section. Wide bearings to take up wear.

No. 11. Wide Main Bearings adjustable Wick oiled.

No. 10. Extra heavy Crankshaft made of drop forged steel. Ground and polished.

No. 9. Adjustable side rod pullback spring.

No. 8. Heavy Cast Base high enough to support the flywheels clear of the ground.

Order Your Sattley The Way You Like Best

The following ways of ordering are for your convenience:

Full Purchase price with your order

Nearly all our customers send cash with their order, so if you wish to order on this plan, send a Post Office or Express Money Order, Bank Draft or Personal check, for the engine you desire and we will ship at once.

When it arrives at your station you then pay the freight charges, take the engine home and use it for 30 days before deciding to keep it. Then should you decide not to keep the engine, write us for return shipping directions. We will gladly return your money and the freight charges you paid.

Pay After 30 days' Trial

Should you want to take advantage of our liberal 30 Day Free Trial to see and try the Sattley before paying for it, just give us the name of your Home Banker or ask him to give you a letter saying that he knows you are reliable, which he unquestionably will gladly do. Then send this letter with your order. After you receive the engine, try it for 30 days and after assuring yourself that the Sattley is perfectly satisfactory send us payment in full at the end of your 30 day trial.

Our Easy Payment Plan

You do not have to send any money with your order. Just fill out the Easy Payment order blank on page 1030 of this catalog, and mail to us. We will ship the engine you select, on 30 days' free trial so you may inspect and try it out to satisfy yourself that it is all we claim for it.

Then send us one tenth of the purchase price and balance in 9 payments 30 days apart. See page 1030 for Easy Payment order blank.

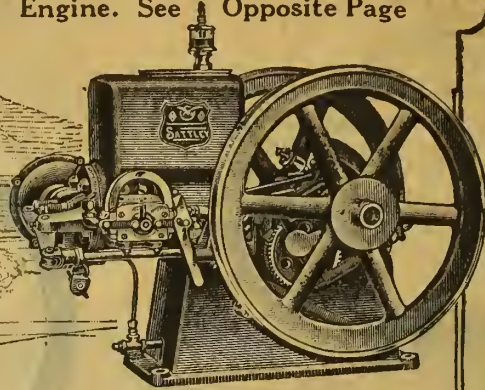
Sattley Pays for Itself

When you buy the Sattley you pay our low Factory-to-You Prices in payments so small you won't feel the cost at all. You use the Sattley while paying for it. You give it a chance to earn its own cost and more before you pay. Take advantage of this liberal Easy Payment Plan NOW. See page 1030 for Time Payment Order Blank.

Sattley Three-Speed



Illustration of our Corn and Cob Crusher connected with 5 H. P. Engine. See Opposite Page



Our Thirty Day Trial Offer

Easy Payments
No Money Down

Let The Sattley Prove Its Quality to You

There is really only one way of convincing you of the quality of the Sattley and that is for you to take advantage of our 30 Day Free Trial Offer—let the Sattley prove its value and quality to you by doing your work on the farm for 30 Days—before you pay a cent.

Farmers must have an engine they can run and keep running without constant attention. When buying an engine don't guess—don't take any man's word—some agents and concerns will tell you almost anything to make a sale. Make their engine prove every claim. If anyone tells you their engine is better than the Sattley, make them give you 30 Days Trial to prove it. Try their engine side by side with the Sattley and run both engines yourself. After you have tried both engines thoroughly, judge for yourself the one to keep—we will abide by your decision. Could anyone make a fairer offer?

When you send to Montgomery Ward & Co. for an engine you know that your interests are safeguarded by the most liberal guarantee ever written. "Satisfaction Guarantee or your Money Back." How many Dealers will give you this guarantee?

Easy Payment Plan

For the convenience of those who want to buy on easy payment terms, we will ship your engine on 30 days' free trial. No money down. At the end of 30 days send us one-tenth of the purchase price and balance in equal payments 30 days apart.

Odd Jobs Well Done with a Sattley

It has solved the problem of cheap and convenient power on thousands of Farms—It will do the same on yours. No experience necessary to run it—a gallon of gasoline keeps it working at full speed for about 8 hours. Let this Sattley do the odd jobs that are tiresome. Pumping, shelling, running a washing machine, separator, grinder, etc. It is a boon to the women and a time and money saver on any farm. Your Farm is not complete without a 1½ H. P. Sattley. Read the specifications and send your order at once.

Specifications.—Actual Horse Power at normal speed, 1½. Hit or Miss Governor.—Bore, 3½ inches. Stroke, 4 inches. Ignition, Webster Magneto. Normal Speed, 550 revolutions per minute. Pulley, diameter, 4 inches; width, 4 inches. Crank Shaft, diameter, 1¼ inches. Flywheel, diameter, 15½ inches. Has regulator for changing speed without stopping. Shipping weight, 245 pounds.
287C5042—1½ Horse Power Sattley Gasoline Engine with Webster Magneto.

Easy Payment Price \$59.15 | Cash Payment Price \$54.75
Shipped from nearest warehouse.

The Sattley - A Remarkable Engine

Change Speed with Engine Running

Sattley Hit and Miss type Gasoline Engines of 3, 5 and 7 H. P. sizes are fitted with the famous Sattley 3 Speed regulator. Simply push the hand wheel in or out—change the speed to suit your need.

Expert Mechanics, Modern Machinery and the Best Materials experience and money can buy has made the Sattley a remarkable engine at an exceptionally low price.

Iron and steel are carefully analyzed, selected and mixed. The right kind and correct amount must be put into cupola or melting furnace so that when the Hot Molten Metal is poured into the sand forms or molds it will be the right analysis to conform to our "Standard of Quality."

The workmanship is unsurpassed, extreme care is taken in regards to detail of molding and finishing the castings. The

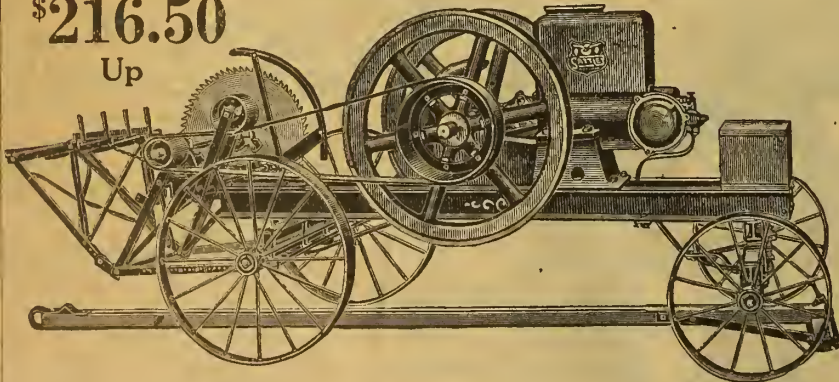
Sattley is tested by Inspectors for Correct Balance, Horse Power and construction before it is allowed to be crated for shipment. That's why Sattley Engines have had and are having such a wonderful sale. Farmers everywhere have been seeking the combination of Top Notch Quality and Rock Bottom Price, as presented in Sattley Engines.

The details of construction on pages 1024 and 1025 offer convincing evidence of Sattley Quality—the Prices speak for themselves. In justice to yourself read every word carefully.

Mounted Gasoline or

Takes the Backache Out of Wood Sawing

\$216.50
Up



The saw frame and table of the Sattley Saw Outfit can be removed from the truck in a few minutes, then you have a complete portable engine. The 5 H. P. engines with single base, are mounted direct on the truck beams, but the 7 H. P. engines are mounted with the engine bed directly bolted to the beams, the 7 H. P. sub-base removed, with the 7 H. P. fuel tank fastened by steel strap between the truck beams so that the whole engine and flywheels are lowered to avoid top-heaviness on the road when transported.

The truck has heavy 5-inch channel steel beams 8 feet long with 1½x62 inch front and rear round solid steel axles strengthened by 3-inch I beams 42½ inches long bolted above the axles with braces from the beams to rear axle and fifth wheel. Front wheels are 24-inch diameter with 4-inch grooved tires ¾-inch thickness. Rear wheels are 32-inch diameter with 4-inch grooved tires, ¾-inch thickness. The tilting table saw frame has all steel frame and braces with standard 60-pound balance wheel and shaft for saws with 1½-inch arbor hole. Standard steel cordwood cutoff saw furnished, filed and set ready for use, 26-inch diameter with 5 H. P. Outfits, 30-inch diameter with 7 H. P. Outfits. Complete outfit includes truck and engine with Webster magneto, tool and seat box, saw frame, belt, saw and standard 2-horse pole. (Neckyoke, single and doublers not furnished.)

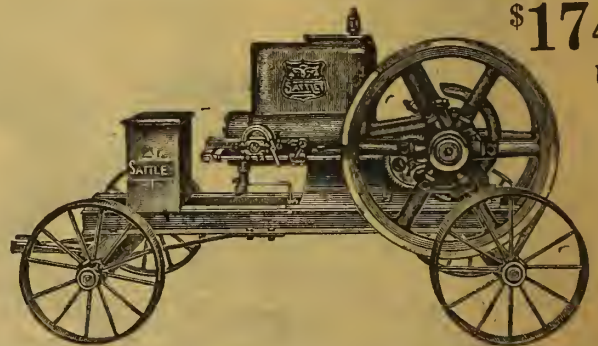
Equip your New Sattley Engine with a Friction Clutch Pulley. See page 1023, Cat. No. 187C5280.

Article Number	Description	Shipping Weight	Easy Payment Price	Cash Price
287C5080	Saw Rig Complete with 5 H. P. Gasoline Eng.	1670 lbs.	\$229.55	\$216.50
287C5081	Saw Rig Complete with 5 H. P. Kerosene Eng.	1680 lbs.	265.00	250.00
287C5084	Saw Rig Complete with 7 H. P. Gasoline Eng.	1885 lbs.	282.75	266.75
287C5085	Saw Rig Complete with 7 H. P. Kerosene Eng.	1900 lbs.	322.00	304.00
287C5093	Tilting Table Steel Saw Frame with balance wheel only without saw blade or belt.	220 lbs.	44.15	42.00

Shipped only from factory at Jackson, Michigan.

Mounted Outfit on Steel Beam Steel Wheel Truck

\$174.50
Up



The 5 and 7 H. P. Engines are mounted on steel horse trucks, the same truck as used for the Saw Rig Outfit with 5-inch channel steel beams, 8 feet long, extending to the rear from the rear axle and with beams bored for our standard tilting table 5 or 7 H. P. saw frame. The beams are also bored to match base bolt holes of 5 H. P. or bed bolt holes of 7 H. P. engines, so that no drilling is required if truck only is ordered separately. The heavy all-steel trucks for the 9 and 12 H. P. engines have 6-inch channel steel beams 8 feet long as shown, with 26-inch front wheels with 5-inch grooved tires ¾-inch thick, rear wheels, 36-inch diameter with 5-inch grooved tires ¾-inch thick. Front and rear axles are round solid steel, 2 inch diameter, reinforced above with bolted 4-inch I beams and with steel braces from beams to rear axle and fifth wheel. Beams of 9 and 12 H. P. trucks bored to match bed bolt holes of 9 and 12 H. P. Engines so if truck is ordered separately, the engine can be mounted easily on truck without the engine sub-base. All horse truck outfits furnished with 2-horse pole. (Neckyoke, single and doublers not furnished.) For Friction Clutch Pulleys see page 1023.

Article Number	Description	Shipping Weight	Easy Payment Price	Cash Price
287C5070	5 H. P. Gasoline Engine on Horse Truck	1460 lbs.	\$185.00	\$174.50
287C5071	5 H. P. Kerosene Engine on Horse Truck	1470 lbs.	220.50	208.00
287C5074	7 H. P. Gasoline Engine on Horse Truck	1675 lbs.	238.25	224.75
287C5075	7 H. P. Kerosene Engine on Horse Truck	1700 lbs.	275.75	262.00
287C5190	9 H. P. Kerosene Engine on Horse Truck	2700 lbs.	350.00	330.00
287C5191	12 H. P. Kerosene Engine on Horse Truck	3720 lbs.	424.00	400.00
287C5076	Horse Truck only with pole for 5 or 7 H. P. engines. (State H. P. and serial number of engine and center to center distances in width and length of 5 H. P. base bolt holes or 7 H. P. bed bolt holes.)	700 lbs.	55.65	52.50
287C5077	Horse Truck only with pole for 9 or 12 H. P. engines.	820 lbs.	68.90	65.00

Shipped only from factory at Jackson, Michigan.

Gasoline Engines

A Sattley Engine for Every Job

Buy More Power than you need today. You will find in a short time that the Sattley will save you considerable time and money and you will naturally want to buy other machines to still further lighten your work and to improve conditions on your farm. The cost of fuel is only a few cents per day more for a larger size. A little spare power is a good investment. It is your time and your men's time that you want to save, so buy your Sattley large enough to do the work easily and save your valuable time.

The 1 1/2 H. P. Sattley Engine

Is the popular size for the innumerable odd jobs on the farm. It will pump water, run a separator, churn, washing machine, grind stone, emery wheel, two hole sheller, small grain mill, feed grinder or single unit milking machine.

The 3 H. P. Sattley Engine

Is just right for the shop and a handy source of power mounted on hand truck so it may be brought to the various jobs on the farm. This size will run all the machinery the 1 1/2 H. P. will handle and in addition it is ideal power to run the pneumatic water system and electric lighting plant. It will run a small feed cutter, 4 to 6-inch feed grinder, two-hole corn sheller, concrete mixer, cider mill, fanning mill, two or three unit milking machine, bone and vegetable cutter and 20-inch saw. In the machine shop it will run the lathe, drill press, tool grinder, etc.

The 5 H. P. Sattley Engine

Is the most popular size for the farm. It has power enough to handle the big tough jobs and yet is economical of fuel on the lighter work. It will run several machines at once if desired, thus saving time. It has ample power to run a 26-inch saw, grind 20 to 25 bushels of grain per hour, run a 250-watt dynamo, 6 or 8-inch feed grinder, 11 or 13-inch feed cutter, or an 8-inch cane mill.

The 7 H. P. Sattley Engine

Is the ideal size for irrigating with a centrifugal pump. It will grind 30 to 40 bushels of grain per hour. We recommend it for an 8-inch feed grinder, 12-inch burr mill, 12-inch silage cutter with blower, 16-inch silage cutter with carrier, two roll husker and shredder, four-hole corn sheller, baling press, large cider mill, 30 or 32-inch saw or a concrete mixer.

The 9 H. P. Sattley Engine

Will handle a 40-inch saw, drive the heavier baling presses, 4-hole husker and shredder, 14-inch silage cutter or small threshing machines. Will operate a small rock crusher or 4-hole corn sheller.

The 12 H. P. Sattley Engine

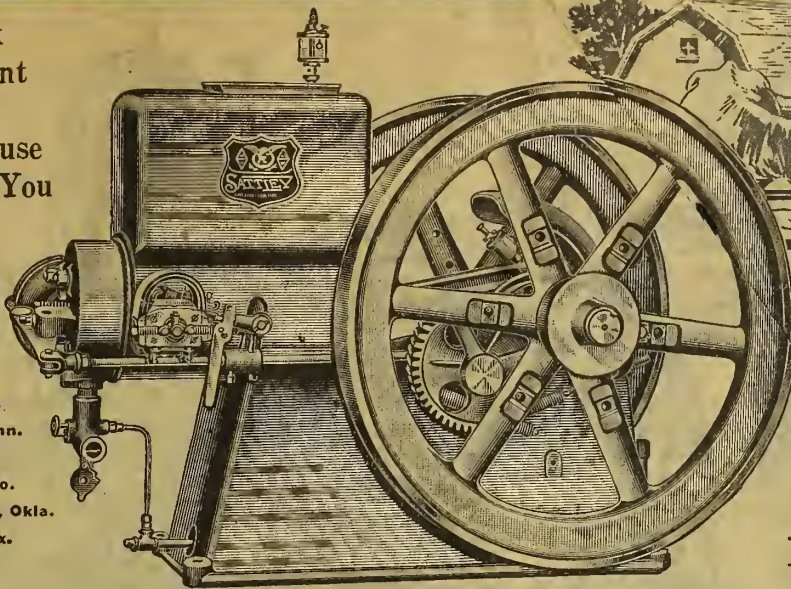
Will drive medium size threshing machines, silage cutters, hoists, rock crushers, hay balers, 6-hole corn sheller, or grind 60 to 100 bushels of grain per hour.

If you are not sure just what size is best suited to your work, write us, telling your problem, and our experts will recommend the engine which in our judgment will give you the best.

Quick Shipment from Warehouse Nearest You

Send your order to Chicago and tell us from which city to make shipment. You pay freight only from the warehouse nearest you.

Springfield, Ill.
Des Moines, Ia.
Saint Paul, Minn.
Pittsburgh, Pa.
Atlanta, Ga.
Fargo, N. Dak.
Kansas City, Mo.
Omaha, Nebr.
Oklahoma City, Okla.
Portland, Ore.
Fort Worth, Tex.



Easy Payments No Money Down

Let the Economical Sattley Do All Your Work

You should have a 5 or 7 H. P. Sattley on your farm in addition to the Sattley 1 1/2 H. P. to take care of the heavier jobs and for satisfactory and Economical Service cannot be excelled. Sattley Three-Speed Regulator enables you to handle heavy jobs without strain and light jobs at low cost.

3 Actual Horse Power at normal speed. Bore—4 1/2 inches; Stroke—6 inches; Ignition—Webster Magneto. Normal Speed—475 revolutions per minute. Pulley—Diameter, 8 inches; Width, 4 inches. Shipping weight, 470 pounds.

287C5052—3 Horse Power Sattley Gasoline Engine with Webster Magneto and Three-Speed Regulator. Easy Payment Price.....\$93.20
Cash Price.....87.85

5 Actual Horse Power at normal speed. Bore, 5 1/2 inches. Stroke, 7 inches. Ignition, Webster Magneto. Normal Speed, 425 revolutions per minute. Pulley, diameter, 12 inches. Width, 6 inches. Flywheels, diameter, 28 inches; weight, each, 150 lbs. Crankshaft diameter, 2 inches. Shipping weight, about 925 pounds.

287C5062—5 Horse Power Sattley Gasoline Engine, with Webster Magneto and Three-Speed Regulator. Easy Payment Price.....\$132.00
Cash Price.....124.50

7 Actual Horse Power, at normal speed. Bore, 6 inches. Stroke, 8 1/2 inches. Ignition, Webster Magneto. Normal Speed, 375 revolutions per minute. Pulley diameter, 16 inches; width, 6 inches.

Flywheels, diameter, 34 inches; weight, each, 230 pounds. Crankshaft diameter, 2 1/2 inches; shipping weight, about 1,300 pounds.

287C5066—7 Horse Power Sattley Gasoline Engine, with Webster Magneto and Three-Speed Regulator. Easy Payment Price.....\$184.50
Cash Price.....174.75

If you order on Easy Payment plan be sure to use order blank on page 1030.

Shipped from nearest warehouse. Equip your New Sattley Engine with a Friction Clutch Pulley. See page 1032 Cat. No. 187C5280.

Our Factory Motto—"Quality First" Pay Big

Every Sattley Engine shipped not only adds one more satisfied customer to our fast growing list, but the owner of a Sattley tells his friends and neighbors about it.

Engines are Past Experimental Stage.

One argument often used to induce you to buy an engine near home is that if you have engine trouble you can be helped out more quickly. Gasoline and Kerosene Engines generally are past the experimental stage and the Sattley is so simple in construction a woman or boy can start and operate it.

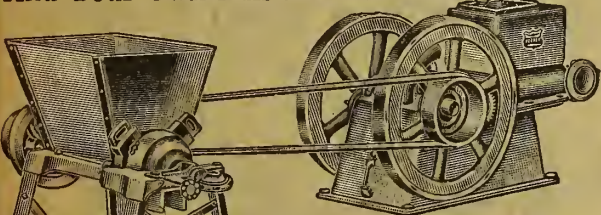
No shrewd and economical buyer will pay a fancy price for an offered service that is seldom ever used.

Repairs Always: Sattley Engines are made in our own factory. You will always be able to get repairs. A stock of every part is always carried ready for immediate shipment. Chicago, Kansas City, Portland, Ore., Fort Worth and in our factory at Jackson, Mich. Buy the Sattley now. It is an engine Guaranteed to Satisfy You.

If You Order on Easy Payment Plan, Use Order Blank on Page 1030.

Kerosene Engine Outfits

Grind Your Own Mill and Feed Job



This outfit consists of an 8-inch Climax Corn-On-Cob Crusher and 5 H. P. Sattley Three-Speed Gasoline Engine with Magneto or 5 H. P. Sattley Throttling Governor Kerosene Engine with Webster Magneto and 30 feet of 5-inch 4-ply rubber belting. The grinder is built strongly of steel and iron. It will grind corn on the cob, shelled or mixed.

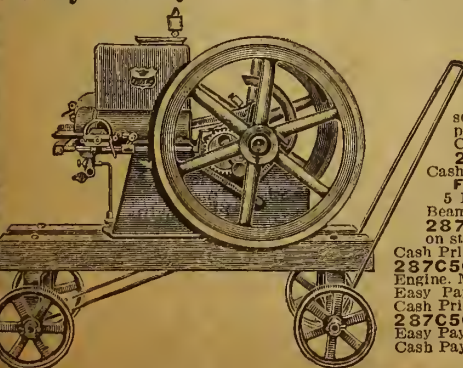
Capacities vary from 25 bushels to 35 bushels per hour. Balance wheel, engine and two sets of burrs included. Shipping weight, mill, 225 lbs. 5 H. P. Engine, 225 lbs.

287C5126—5 H. P. Corn-On-Cob Crusher outfit with 5 H. P. Sattley Three-Speed Gasoline Engine with Webster Magneto, Mill and Belt complete. Easy Payment Price.....\$177.95
Cash Price.....167.90

287C5127—5 H. P. Corn-On-Cob Crusher outfit with 5 H. P. Sattley Throttling Governor Kerosene Engine with Webster Magneto, Mill and Belt complete. Easy Payment Price.....\$202.90
Cash Price.....191.50

Shipped from warehouse near you.

Always Ready for the Power Job



Put this Sattley Outfit to work on your farm—your worry will then be over.

287C5059—3 H. P. Gasoline Engine. Mounted on wood beam truck. Shipping weight about 545 pounds. Cash Price.....\$95.45
Easy Payment Price.....101.20

287C5162—3 H. P. Throttling Governor Kerosene Engine. Mounted on wood beam truck. Shipping weight, about 590 pounds. Cash Price.....\$112.15
Easy Payment Price.....118.90

287C5035—Wood beam Truck only. Wt. 75 lbs. Cash Price.....\$7.65
Easy Payment Price.....\$8.15

For Friction Clutch Pulleys see page 1032.

5 H. P. Sattley Engines mounted on a Steel Channel Beam Hand Truck with heavy steel axles.

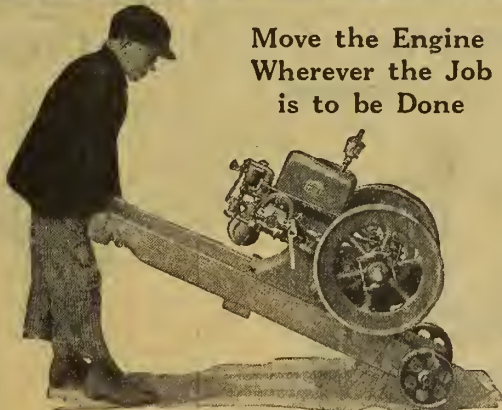
287C5038—5 H. P. Sattley Gasoline Engine. Mounted on steel truck. Ship. wt. abt. 1080 lbs. Cash Price.....\$141.25
Easy Payment Price.....149.75

287C5089—5 H. P. Throttling Governor Kerosene Engine. Mounted on steel truck. Shipping wt., about 1090 lbs. Easy Payment Price.....\$185.25
Cash Price.....174.75

287C5037—Steel truck only. Weight 150 pounds. Easy Payment Price.....\$17.80
Cash Payment.....16.75

Shipped from warehouse nearest you.

Move the Engine Wherever the Job is to be Done



This is a 1 1/2 H. P. Sattley Kerosene Engine, mounted on wood skids, with a pair of wheels arranged to form a wheel barrow truck. When you set it down the wheels clear the ground and engine rests on the skids, making a solid foundation. Holes bored and bolts furnished to mount engine easily, when received.

287C5046—1 1/2 H. P. Sattley Gasoline Engine. With Webster Magneto, mounted on two-wheel truck. Ship. wt., 265 lbs. Cash Price.....\$57.10
Easy Payment Price.....\$61.70

287C5047—1 1/2 H. P. Sattley Kerosene Engine with Webster Magneto, mounted on two wheel truck. Ship. wt., 260 lbs. Easy Cash Price.....\$62.10
Easy Payment Price.....\$65.35

287C5049—Wheelbarrow Truck, only. Ship. wt., 20 lbs. Cash Price.....\$2.35
Easy Payment Price.....\$2.50

Shipped from warehouse nearest you.

Don't Waste Your Time Pumping Water by Hand

Time is money to the man on the farm. It is therefore real economy to buy this Pumping Outfit NOW.

Outfit Complete



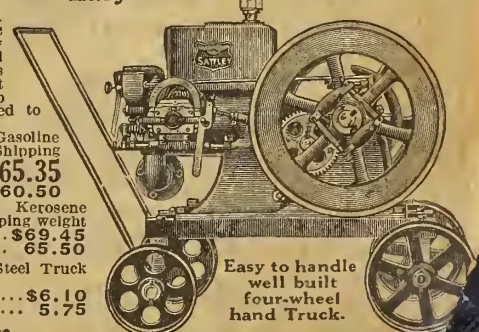
The Sattley Pumping Outfit includes a 1 1/2 H. P. Sattley Gasoline or Kerosene Engine with Webster Magneto, pump jack and 16 feet of 2-inch 2-ply belting. No pump is furnished. It comes ready to attach to any ordinary pump.

287C5054—Sattley Pumping Outfit with 1 1/2 H. P. Gasoline Engine. Total shipping weight, 290 lbs. Easy Payment Price.....\$68.65
Cash Price.....63.75

287C5055—Sattley Pumping Outfit with 1 1/2 H. P. Kerosene Engine. Total shipping weight, 285 lbs. Easy Payment Price.....\$73.75
Cash Price.....68.75

Shipped from nearest warehouse.

Easy Move Engine Outfit



This Outfit consists of a 1 1/2 H. P. Sattley Gasoline or Kerosene Engine with Webster Magneto and 4x4 pulley and steel hand truck. Truck has steel 1 1/2x25-in. angle beams, 3/4-in. steel axles 21 in. wide, 7 in. front, 9 in. rear cast wheels with 2 inch tires. Truck is set up with holes bored and bolts furnished to mount engine easily when received.

287C5043—1 1/2 H. P. Sattley Gasoline Engine with 4-wheel hand truck. Shipping weight 295 pounds. Easy Payment Price.....\$65.35
Cash Price.....60.50

287C5044—1 1/2 H. P. Sattley Kerosene Engine with 4 wheel hand truck. Shipping weight 290 lbs. Easy Payment Price.....\$69.45
Cash Price.....65.50

287C5051—4 wheel, 1 1/2 H. P. Steel Truck only. Ship. wt., 50 lbs. Easy Payment Price.....\$6.10
Cash Price.....5.75

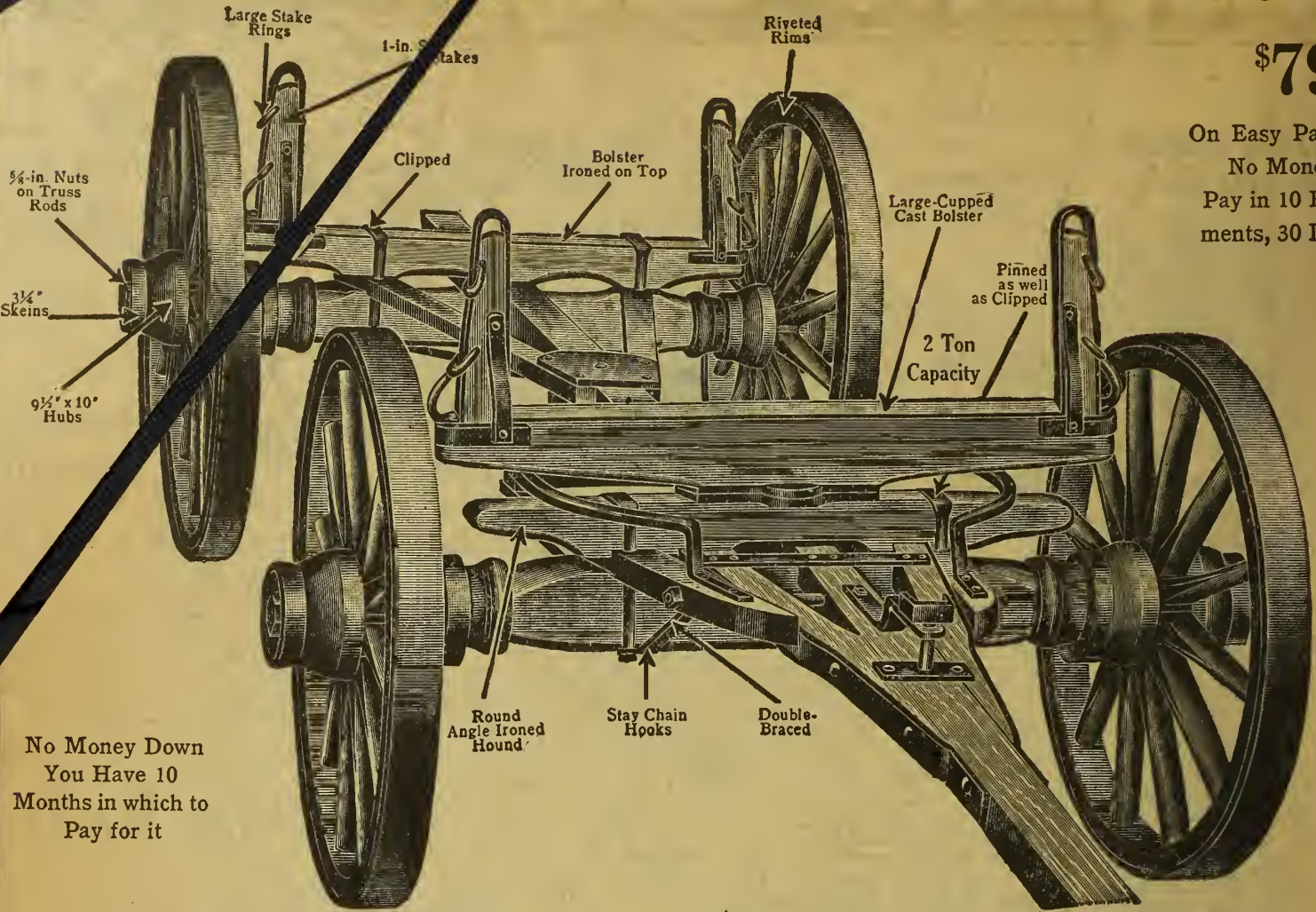
Shipped from nearest warehouse.

Easy to handle well built four-wheel hand Truck.

Whitewater Wood Wheel Truck

\$79⁵⁰

On Easy Payment Plan
No Money Down
Pay in 10 Equal Payments, 30 Days Apart



No Money Down
You Have 10
Months in which to
Pay for it

Easy Payment Plan:

Easy Payment Plan: You don't have to send any money with your order for a Whitewater Farm Truck. Just fill in the order blank on page 1030 of this catalog, mail it to us and we will promptly ship you the Truck so that you may inspect and try it out to satisfy yourself beyond any doubt that it is all we claim for it and a big bargain at the price. 30 days after date of order send one-tenth of the purchase price and the balance in equal payments 30 days apart. You take no chances in buying this truck on our easy payment plan because the Montgomery Ward & Co. guarantee protects your purchase.

Whitewater Wood Wheel Farm Trucks

With Riveted Rims

Whitewater Trucks are made of the very best material fully ironed and braced where necessary. Wheels have riveted rims. Whitewater Trucks have given splendid satisfaction to many of our customers and we recommend them for strength and long service. Note the many practical features described with illustration above.

Whitewater Wood Wheel Farm Truck With Riveted Rims

Specifications

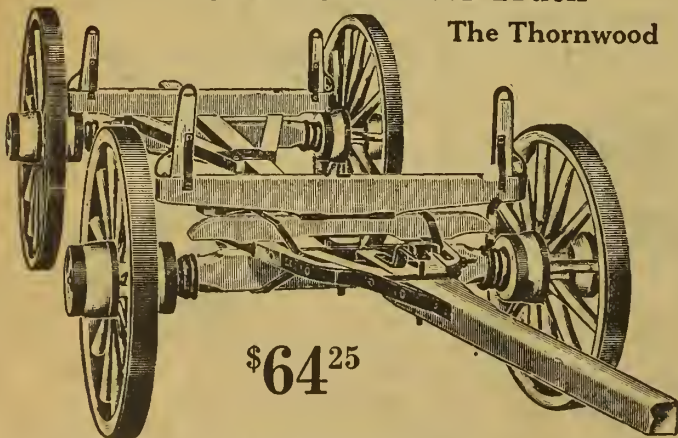
Steel Gear—Round front hound, drop tongue. Axles hardwood. Bolsters, sand-boards and other wood parts selected hardwood.
Wheels—Height, 36 and 40 inches. Tires, 3x $\frac{3}{4}$ inches. Hubs, spokes and rims hardwood. Riveted Rims.
Skeins—3 $\frac{1}{4}$ x10 inches, cast, standard pattern.
Painting—Orange, with black stripes, varnished.
Track—Narrow, 4 feet 6 inches from center to center of tires.
Capacity, 5000 pounds. Shipping weight, 650 pounds.
287C7640—As described above. Price..... \$75.50

	All Cash	Easy Payments
287C7640—As described above. Price.....	\$75.50	\$79.50
Extra for wide 5-foot track.....	3.50	3.50
Extra for doubletree, singletrees and neckyoke.....	4.65	4.65
Extra for gear brake.....	6.75	6.75
Extra for 40-inch front wheels, 48-inch rear wheels.....	3.00	3.00

Shipped from warehouse at Saint Paul, Minn. or Central Illinois.
This size shipped only from Saint Paul.

Two Ton Wood Wheel Truck

The Thornwood

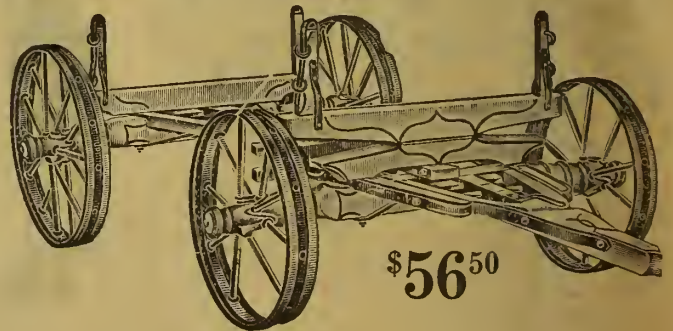


\$64²⁵

Gear—Oak reaches and tongue. Hardwood axles and bolsters.
Wheels—Bolted, birch hubs; rims, elm; spokes, hardwood; tires 3x $\frac{3}{4}$ in.
Skeins—3 $\frac{1}{4}$ x10 cast skeins.
Painting—Deep orange neatly striped and varnished.
Track—Narrow, 4 ft. 6 in. regular.
Capacity—4,000 lbs. Shipping weight, 650 lbs.
287C7605—Wheels, 36 in. front, 40 in. rear. Tires, 3x $\frac{3}{4}$ in. Price..... \$64.25
Extra for doubletree, singletrees, and neckyoke..... 4.65
Extra for gear brake..... 6.75
Extra for 40-inch front wheels and 48-inch rear wheels..... 3.00
Extra for wide track 5 ft..... 3.50

Shipped from warehouse at Saint Paul, Minn. or Central Illinois.

Climax Two Ton Steel Wheel Truck



\$56⁵⁰

The illustration shows our new Steel Wheel Farm Truck with square hound in front and sandboards. Skeins, 3 $\frac{1}{4}$ x10 in. Capacity, 4,000 lbs. Tongue Set in Square.

Hound—Drop Tongue.
Bolsters—Sandboards, Reaches and other gear parts Seasoned Hardwood.
Bolster Stakes well ironed.
Wheels—Front, 28 inches high; rear, 34 inches.
Tires—Grooved, $\frac{3}{4}$ -inch thick; 4 inches wide.
Track—Narrow, 4 feet 6 inches. Shipping weight, about 650 lbs.
287C7625—28 in. front, 34 in. rear wheels. Price..... \$56.50
Extra for neckyoke, doubletree and singletrees..... 4.65
Extra for wide Track, 5 feet..... 3.50
Extra for Gear Brake..... 6.75

Shipped from warehouse at Saint Paul, Minn. or Central Illinois.

Handy Farm Truck

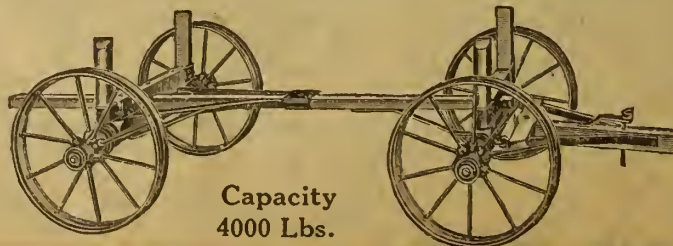
A very convenient, low down handy farm truck easily loaded, easy running and strong construction.

Built low down with Steel wheels, 4x $\frac{3}{4}$ inch grooved tires. Well made throughout of first class material thoroughly ironed and braced where needed. Cast iron skeins measuring 3 $\frac{1}{4}$ x10 inches, set to the axles under hydraulic pressure.

The axles are made of hardwood and the rest of the gear in oak.

Steel Wheel Low-Down Farm Truck

\$48²⁵



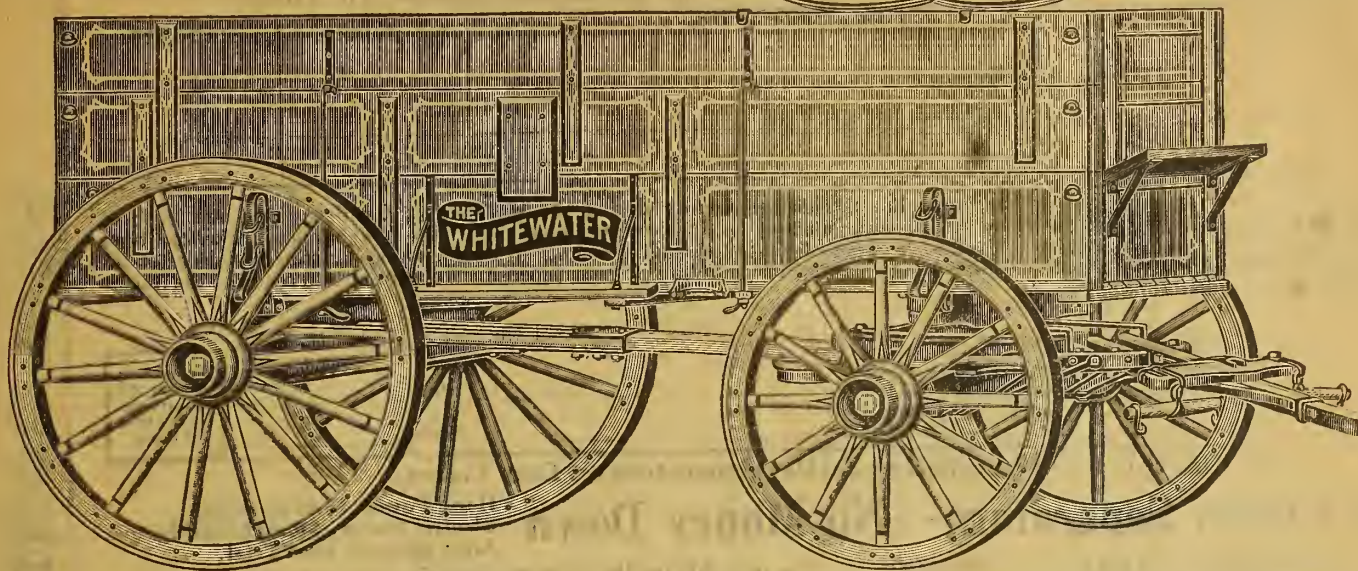
Capacity
4000 Lbs.

Front wheels, 28 inches high; rear wheels, 32 inches. Bolsters measure 38 inches between the stakes. T pole securely braced and held to front axle with an eye bolt; quickly detached when necessary. Track measures 4 feet 8 inches between wheel centers.
287C7620—Metal wheel truck, complete as illustrated with T Pole. Ship. wt., 500 lbs. \$48.25
Price.....
Extra for doubletree and singletrees and neckyoke..... 4.65
Shipped from Warehouse at Saint Paul, Minn., or factory in Central Illinois.

Famous Whitewater Farm Wagons

*Sold on Easy Terms
No Money Down
Ten Months in Which to Pay*

\$132⁵⁰
*On Easy
Payments*



Easy Payments: No Money Down

You don't have to send any money with your order for this high grade Whitewater farm wagon. Just fill out the order blank on page 1030 of this catalog and mail to us. We will ship the wagon and guarantee it will arrive in perfect condition, and that you will be thoroughly satisfied that it is the best farm wagon you can buy at the price. Thirty days after date of your order when you have had time to inspect and try out this wagon, then send us one-tenth of the purchase price (\$132.50) and the balance in equal monthly payments until the full amount is paid. Don't miss this opportunity to buy this high grade wagon with all latest practical improvements, on terms so easy that any farmer can afford to own one. Remember: Montgomery Ward & Co.'s guarantee of satisfaction to you protects your purchase on easy payment plan just the same as it does on cash orders.

Improved Whitewater Farm Wagon

Complete with Tip Top box, seat, double trees, neckyokes, grain cleats, anti-spreader chains and riveted rims. Whitewater farm wagons include all the improved features that practical use have demonstrated to be worth while. Nothing has been skimped or slighted in its make up. A trial will convince you beyond question that it is one of the best values offered in a farm wagon.

Specifications

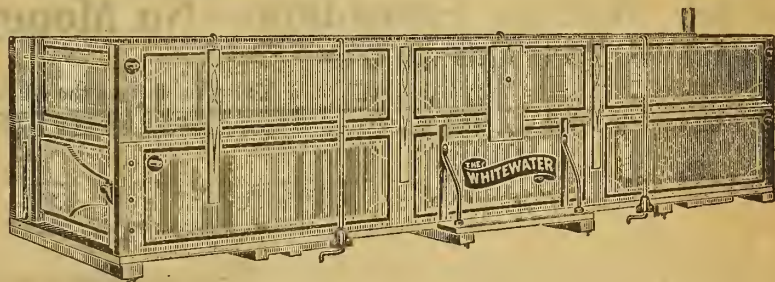
Capacity—5000 pounds.
Gear—Round hound, drop tongue. Axles selected hickory. Bolsters, Reach, Tongue and other wood parts, selected hardwood.
Wheels—Height, 40 and 48 in. Tires, 3x $\frac{3}{4}$ in. Number one bubs, oak spokes and oak rims.
Skeins—3 $\frac{1}{4}$ x10 in., cast, standard pattern.
Painting—Bed, green and ornamented. Gear and wheels, orange striped.
Box—Length, 10 $\frac{1}{2}$ feet; height, 36 in. with Comstock patent end gate; width, on narrow track wagons, 38 in., on wide track wagons, 42 in. Hard pine floor with gum wood sides and ends, box fasteners, anti-spreader chain.
Track—Narrow, 4 ft. 6 in., center to center of tires.
/ Deduct \$6.75 when Tip Top box is not wanted.
287C7655—Price for wagon complete with Tip Top box as illustrated with doubletree, neckyoke, singletrees, spring seat. Shipping weight, about 1100 pounds. All cash **\$126.50** with order.
Easy Payment Price, **132.50**
Extra for Gear Brake \$8.95. Wide track, 5 ft., extra \$3.50.
Shipped from warehouse at Saint Paul, Minn., or Central Illinois



Whitewater One Horse Wagon

Use one of these easy running wagons, for Light Hauling and save time and labor, as well as your horses. Capacity, 1500 pounds. Made in the same careful manner as our large farm wagon shown above. The best of material is used in its construction and great care is given to make it light, easy running and strong and substantial.
287C7638—Cast Skeins, 2 $\frac{1}{4}$ x7 in. Shafts, axle, spokes, hubs, rims, bolsters and gear woods made of highly seasoned hardwood. Tires, 1 $\frac{1}{4}$ x $\frac{3}{4}$ in. Front wheels, 42 inches high. Rear wheels, 48 inches high. Box, 8 $\frac{1}{2}$ feet x 14 inches, seasoned wood with hardwood cross and end cleats, bevel edge irons on top of sides and ends. Complete wagon is painted with two coats of high grade paint and neatly striped and varnished. Spring seat is included as illustrated. Ship. wt., about 550 lbs.
Price, complete, all cash **\$81.75**
Easy Payment **85.50**
Extra for gear brake, Price **8.50**
Extra for Pole in place of Shaft **6.25**
Extra for Pole and Shafts **10.50**
Shipped from factory in Southern Indiana.

Whitewater Farm Wagon Box Without Tip Top Section



\$32.75

A good substantial Farm Wagon Box complete with Tip Top section, Yellow pine bottom, and gum or cottonwood sides. Comstock patent end gate, side box fasteners, grain cleats and anti-spreader chain.
Hardwood cross and end cleats; double bottom over rear bolster, bevel edge irons on top of sides and ends; box straps, $\frac{3}{8}$ in., side braces, reinforced side blocks $\frac{1}{2}$ in., 4 hold-down rods, 2 on each side, end rods $\frac{3}{8}$ inch; painted green striped. Cleats nailed and riveted at each end.
287C7675—Wagon Box; length, 10 $\frac{1}{2}$ ft., heights, 26 in. for bolsters, 38 in. between stakes. Shipping weight, about 300 lbs.
Price, Complete as illustrated **\$32.75**
For 10 in. Tip Top section. Price **10.65**
For bolsters 42 in. add **1.50**
Spring seat without lazy back, add **6.95**
Spring seat with lazy back, add **7.25**
Shipped from warehouse at Saint Paul, Minn., Central Illinois and Southern Indiana.

Whitewater Shoveling Board

Quickly and easily attached or detached to farm wagons, for use as a dump or shoveling board. Can be raised three heights, about 4, 8 and 11 inches to allow grain to fall through, when unloading to a conveyor, etc. Made in two heights: 42 and 38 in. Specify which. The 42 inch is popular for hauling heavy loads of ear corn, etc. The 38 inch is the same height as the average wagon box which gives it a neat appearance on your wagon. 38 in. furnished if not specified. Made of hardwood, nicely painted.

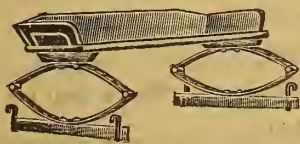
With Dumping Attachment
287C7645—For box, width 38 inches. Wt., 45 lbs. Price **\$4.35**

287C7646—For box, width 42 inches. Wt., 50 lbs. Price **4.65**

Without Dumping Attachment
287C7647—For box, width 38 in. Wt., 40 lbs. Price **3.95**

287C7648—For box, width 42 in. Wt., 45 lbs. Price **4.35**
Shipped from factory in Iowa.

Whitewater Wagon Seat



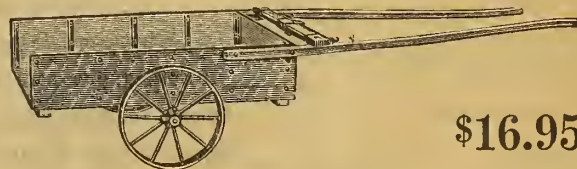
Standard seat. Depth, 12 in., and well made of best seat stock throughout, neatly painted and finished. Mounted on regular elliptic seat springs, with hangers and hooks ready to attach to box. Weight, about 36 pounds.

187C7700—For 38-in. box **\$6.95**

187C7701—For 42-inch box **6.95**

Shipped from factory in Saint Paul, Central Illinois and Southern Indiana.

Handy Farm Cart—One Horse



\$16.95

Well Built of Good Material

Useful for many purposes on the farm or road. Can be driven in places inaccessible to large vehicles.

For gathering fruit, potatoes, melons, vegetables and all sorts of farm products. Body—Width, 44 inches; length, 62 inches; depth, 12 inches. Well built of good sound material and well ironed. Adjustable shafts keep body level. Painted red.

Wheels—Height, 30 inches; tires, width, 2 $\frac{1}{2}$ inches. Axles, round tubular steel; diameter, 1 $\frac{1}{8}$ inches. Painted black. Weight, crated for shipment, 200 lbs.

287C7699—Price, complete with shafts, as described above **\$16.95**

Shipped from factory in Southern Indiana.

Easy Payment Order Blank

Date of Order _____

Use this Order Blank when ordering Engines, Separators, Manure Spreaders, Farm Wagons or Trucks on Easy Payments.

If it is more convenient for you to pay in monthly installments we will ship Engines, Separators, Manure Spreaders, Farm Wagons and Farm Trucks to you on easy monthly payments. No deposit is necessary at the time of ordering. You get the use of your purchase

while paying for it. You give it a chance to earn its own cost and more before you pay. **Take advantage of this liberal Easy Payment Plan Now.**

Write plainly and carefully and please answer all questions. All information given us will be regarded as confidential.

Be sure to answer all questions on bottom of page.

(Use this Form in ordering Sattley Engines on Easy Terms)

Sattley Engines—No Money Down 10 EQUAL MONTHLY PAYMENTS 1st PAYMENT AFTER 30 DAYS' TRIAL

MONTGOMERY WARD & CO., CHICAGO: You may ship me the following goods for 30 days trial

Article Number	Quantity	Size	DESCRIPTION	Price Each	Extend Here

Thirty days after receiving the shipment, if the outfit has proven satisfactory during the trial period, I will pay you one tenth of the total amount, or \$ _____ and will pay you the same amount each succeeding month until the full purchase price has been paid. Then the outfit will become my property. Should I be dissatisfied with the outfit I agree to notify you within thirty days after receiving the shipment and you are then to send me shipping instructions for its return at your expense. You are also to send me the freight charges I have paid.

Sign here _____ R. F. D. _____ Box _____ Street No. _____
Sign your name plainly and carefully.

Post Office _____ County _____ State _____

Shipping Point _____ County _____ State _____

Be sure to answer all questions on bottom of page.

(Use this Form in ordering Sattley Separators on Easy Terms)

Sattley Cream Separators—No Money Down Hand Power, \$5.00 Monthly Electric Power, \$10.00 Monthly After 30 Days' Free Trial.

MONTGOMERY WARD & CO., CHICAGO: You may ship me the following goods for 30 days trial.

Article Number	Quantity	Size	DESCRIPTION	Price Each	Extend Here

Thirty days after receiving the shipment, if the outfit has proven satisfactory during the trial period, I will pay you \$ _____ and will pay you the same amount each succeeding month until the full purchase price has been paid. Then the outfit will become my property. Should I be dissatisfied with the outfit I agree to notify you within thirty days after receiving the shipment and you are then to send me shipping instructions for its return at your expense. You are also to send me the freight charges I have paid.

Sign here _____ R. F. D. _____ Box _____ Street No. _____
Sign your name here plainly and carefully.

Post Office _____ County _____ State _____

Shipping Point _____ County _____ State _____

Be sure to answer all questions on bottom of page.

(Use this Form in ordering Wagons, Trucks or Manure Spreaders on Easy Terms)

Sattley Manure Spreaders—No Money Down Total Time Payment Price Payable In 10 Equal Monthly Payments, First Payment 30 Days from Date of Order.

FARM WAGONS AND TRUCKS

MONTGOMERY WARD & CO., CHICAGO. You may ship me the following goods:

Article Number	Quantity	Size	DESCRIPTION	Price Each	Extend Here

Please ship this order with the understanding that I am to pay \$ _____ monthly, beginning one month from the date of this order until I have paid in full, then the shipment becomes my property.

Sign here _____ R. F. D. _____ Box _____ Street No. _____
Sign your name here plainly and carefully.

Post Office _____ County _____ State _____

Shipping Point _____ County _____ State _____

(Please be sure to fill out this Form before you mail your order)

I desire to make it plain to you that I am worthy of your confidence and I make the following answers for the purpose of having you ship me the goods ordered herein on the above conditions.

How long have you lived at your present address _____ If less than 5 years give former address _____

Married or Single _____ Age _____ Business or Occupation _____

If farming, how many acres _____ What crops do you raise _____

Do you own or rent _____ If renting, give name of landlord _____

Value of farm if owned _____ Amount of Mortgage _____ What is your net worth above debts _____

Income last year _____ What is the age of your oldest debt _____

How is your farm Stocked. Give value _____ No. Head _____ Cattle _____ Hogs _____ Sheep _____
No. Head _____ No. Head _____ No. Head _____ No. Head _____

Give the Names of Two References. Banks or Merchants Preferred.

Name	Address	Business

You may send us a letter from your banker, recommending this credit, instead of giving above information, if you would rather do so.

(Tear on the Dotted Line)

ORDER BLANK

Montgomery Ward Co.
Satisfaction Guaranteed or Your Money Back

CHICAGO

CHICAGO KANSAS CITY FORT WORTH PORTLAND, ORE.

Please do not write in this space

Please write plainly
Mrs., Miss or Mr.

All members of one family should order under one name
First Name Middle Initial Last Name

NAME

Post Office

State

Street and No.

R. F. D.

P. O. Box No.

Shipping Point

State

County

How Many Miles Do You Live From Your Freight Depot?

Amount of Money Enclosed

How To Be Shipped

Please do not write in this space

Parcel Post

Be Sure to Send Enough Money for Postage

Express

Exp. Co.

Freight

R. R. Co.

Pages in middle of our general Catalog give valuable information about the best way to ship goods. Mark X in space adjoining to show how you want goods sent.

If there is no freight agent at your shipping point, it will be necessary for you to send money to prepay the freight charges. If there is an agent, you can pay the freight when the shipment reaches you. It is only necessary to prepay when there is no agent at your station. The charges are the same.

Do Not Write Here	Number in Catalog Make Figures Plainly	Quantity	Be Sure to Give Name of Each Article Wanted	Colors, Sizes, Finishes, etc.	Price, Each or per Doz.	Extend Here	Please Do Not Write in This Space
1				Colors, Sizes, Etc.			
2				Colors, Sizes, Etc.			
3				Colors, Sizes, Etc.			
4				Colors, Sizes, Etc.			
5				Colors, Sizes, Etc.			
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7				Colors, Sizes, Etc.			
8				Colors, Sizes, Etc.			
9				Colors, Sizes, Etc.			
10				Colors, Sizes, Etc.			

Have You Stated Size and Color? ←

PLEASE NOTE

We Guarantee to Satisfy You or Return Your Money →

Amount Allowed

{ For Parcel Post

Total

COUPON

We make no charge for these books

Mark the Square for the Book you Want

Special CATALOG COUPON

- Wall Paper
- Auto Supplies
- Bicycles

- Grocery Catalog
- Pianos
- Monuments
- Lighting Fixtures
- Lighting Plants
- Heating and Plumbing
- Paint

NAME

Post Office

R. F. D. No.

State

P. O. Box No.

Street and No.

Order Blank—Tear Off on Dotted Line

Montgomery Ward & Co.
Satisfaction Guaranteed or Your Money Back

ORDER BLANK

CHICAGO KANSAS CITY FORT WORTH PORTLAND, ORE.

Please Do Not Write in this Space

Please Write Plainly
Ms., Miss or Mr.

All Members of One Family Should Order Under One Name
First Name Middle Initial Last Name

NAME *Mr. Jonas Dolliston*

Post Office *Brickton* **State** *Illinois*

Street and No. _____ **R. F. D.** _____

Shipping Point *Brickton* **State** *Ill* **P. O. Box No.** *666*

How Many Miles Do You Live From Your Freight Depot? _____ **County** *Bruck*

Amount of Money Enclosed *\$62.59*

How To Be Shipped

Parcel Post **Be Sure to Send Enough Money For Postage**

Express **Exp. Co.** _____

Freight **R. R. Co.** *Northwestern*

Pages in middle of our general Catalog give valuable information about the best way to ship goods. Mark 'X' in space adjoining to show how you want goods sent.

If there is no freight agent at your shipping point, it will be necessary for you to send money to prepay the freight when the shipment reaches you. It is only necessary to prepay the same when there is no agent at your station. The charges are the same.

Go Not Write Here	Number in Catalog Make Figures Plainly	Quantity	Be Sure to Give Name of Each Article Wanted	Colors, Sizes, Finishes, etc.	Price, Each or per Doz.	Extend Here	Please do not write in this space
1	51 C 7372	1	Book of 1000 Songs				
2	51 C 6540	1	Ukulele			1.49	
3	75 C 7713	5 gal	Coverall House Paint	white	2.75	13.65	
4	74 C 7341	5 gal	Runsite Auto Oil	medium	70	3.50	
5	172 C 7086	1	Congoleum Rug	9x12 ft			
6	39 C 3215	1	Boys Serge Sheet	Blue, 144 in		16.25	
7	63 C 1803	1	Prusella Electric			15.85	
8			Iron				
9						4.85	
10							
11							
12							
13							
14							
15							
16							

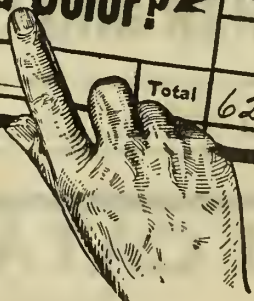
Have You Stated Size and Color?

PLEASE NOTE

We Guarantee to Satisfy You or Return Your Money

Amount Allowed For Parcel Post

Total *62.59*



Sample Order Blank

Filled out just to show you how easy it is to make out an order.

All members of one family should order under one name.

We have filled out the above order on one of our regular order blanks to show how easily it is done.

No attempt has been made to give exact article numbers and prices—the purpose is simply to show you where to place the article numbers, prices, etc.

We will be glad to send you regular order blanks, free of charge, whenever you need them. But you can

always send in your order on any plain piece of paper that you may have handy.

Before sealing the envelope please see that you have given full name, address, size, color and article number for all the merchandise desired, and that your remittance covers the cost of the goods and transportation charges.

ORDER BLANK

Montgomery Ward Co.
Satisfaction Guaranteed or Your Money Back

CHICAGO

CHICAGO KANSAS CITY FORT WORTH PORTLAND, ORE.

Please Do Not Write in this Space

Please Write Plainly
Mrs., Miss or Mr.

All Members of One Family Should Order Under One Name
First Name Middle Initial Last Name

NAME

Post Office

State

Street and No.

R. F. D.

P. O. Box No.

Shipping Point

State

County

How Many Miles Do You Live From Your Freight Depot?

Amount of Money Enclosed

How To Be Shipped

Please Do Not Write in this Space

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Be Sure to Send Enough Money For Postage

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Exp. Co.

Freight

R. R. Co.

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Order Blank—Tear Off on Dotted Line

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17				Colors, Sizes, Etc.			
18				Colors, Sizes, Etc.			

Have You Stated Size and Color? ←

PLEASE NOTE

We Guarantee to Satisfy You or Return Your Money →	Amount Allowed	For Parcel Post	Total
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Write Us in Your Own Language

Use our Order Blanks if you have them. If not, any plain piece of paper will do. Write us in your own way and in your own language. We have people here to translate your order and have it filled correctly. On Page 1032 you will find a Sample Order Blank showing how simple it is to fill out an order.

Norsk

Skriv til os paa Deres eget sprog. Om det er lettere for Dem at benytte et andet sprog end det Engelske, saa kan De skrive Deres breve og bestillinger paa Deres eget sprog, og vore kontorister af samme nationalitet vil læse dem. De vil besvare Deres breve, og Deres bestillinger vil blive hurtigt og omhyggeligt ekspederet.

Hollandsch

Schrijf ons in Uw eigen taal. Indien de Engelsche taal minder gemakkelijck voor U is, aarzel niet, maar schrijf ons in Uw eigen taal. Onder onze bedienden vindt U landgenooten en deze zullen zorg dragen dat de brieven en bestellingen prompt vertaald worden. De brieven worden in Uw eigen taal beantwoord en de bestellingen prompt afgezonden.

Deutsch

Schreiben Sie uns in Ihrer Muttersprache. Wenn es Ihnen leichter oder mehr bequem ist eine andere Sprache als die englische zu gebrauchen, dann schreiben Sie uns in Ihrer Muttersprache. Wir haben viele Ihrer Konationalen hier angestellt, welche Ihre Briefe und Bestellungen uebersetzen und in Ihrer Sprache dieselben beantworten werden, und somit Ihre Bestellungen sorgfaeltig und auf das genaueste erledigt werden.

Svenska

Skriv till oss på Edert eget språk. Om det är mera lämpligt för Eder att begagna ett annat språk än det engelska, så kan Ni skriva Edra brev och orders på Edert eget språk, och våra kontorister av Eder nationalitet skola läsa dem. De skola besvara Edra brev, och Edra orders skola bliva skyndsamt och omsorgsfullt utförda.

Español

"Escribanos en su propia idioma. Contamos con un personal de empleados de todas las nacionalidades del mundo que contestarán sus cartas y atenderán sus órdenes con eficacia y prontitud."

Portuguez

Escrevei-nos na vossa lingua mãe. Temos um pessoal de empregados de todas as nacionalidades do mundo, e elles responderão as vossas cartas e encarregar-se-hão das vossas encomendas com o maximo cuidado e promptidão.

Suomia

Kirjoita meille omalla kielellänne. Se on enempi käytännöllistä teille kirjoittaa meille omalla kielellänne kun Engliskaksi, te voitte kirjoittaa teidän kirjat ja tilaukset meille omalla kielellänne ja meidän palveliat teidän kielestä lukee ne. Ne vastaavat teidän kirjeenne ja teidän tilaukset täytetään tarkasti ja pikaisesti.

Polski

"Proszę pisać w swoim języku. Jeżeli jest łatwiej pisać w innym języku jak w Angielskim, to można napisać list i wypisać zamówienie w swoim języku, a ci którzy pracują w naszym składzie z tej samej narodowości, przeczytają i przetłomaczą. Oni także odpiszą na listy, a zamówienia będą wypełnione uważnie i z szybkością."

Italiano

Scriveteci nella vostra lingua se questa vi riesce più facile dell'inglese. Nella nostra casa ci sono degl'impiegati della vostra nazionalità, i quali risponderanno alle vostre lettere, e così i vostri ordini avranno pronta ed esatta attenzione.

Français

Si la langue anglaise est trop difficile pour vous, écrivez nous en Français. Nous employons des correspondants français parmi notre personnel qui seront heureux d'apporter tous leurs soins a vos commandes en donnant leur beinveillante attention a la bonne exécution de celles-ci et répondront a toutes questions posées.

По Русски

"Пишите намъ на своемъ родномъ языкѣ. Если Вамъ удобнѣе и легче писать по русски, то не задумывайтесь обращаться къ намъ на своемъ родномъ языкѣ. У насъ имѣются русскіе корреспонденты, съ помощью которыхъ русскія письма отвѣчаются съ той же поспѣшностью какъ и англійскія и заказы на этомъ языкѣ выполняются такъ же быстро и аккуратно"

Cechoslovácky

Jestli jest to Vám lehčí psát po česku, pište nám česky, nebo slovácky. My rozumíme Vaši řeči dobře a Vaše objednávka bude vyřízená se stejnou pozorností jako by byla psaná anglicky.

Montgomery Ward Co.

Satisfaction Guaranteed or Your Money Back

CHICAGO

CHICAGO KANSAS CITY FORT WORTH PORTLAND, ORE.

ORDER BLANK

Montgomery Ward Co.
Satisfaction Guaranteed or Your Money Back

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CHICAGO KANSAS CITY FORT WORTH PORTLAND, ORE.

Please Do Not Write in this Space

Please Write Plainly
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All Members of One Family Should Order Under One Name
First Name Middle Initial Last Name

NAME

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Street and No.

R. F. D.

P. O. Box No.

Shipping Point

State

County

How Many Miles Do You Live From Your Freight Depot?

Amount of Money Enclosed

How To Be Shipped

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Exp. Co.

Freight

R. R. Co.

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Order Blank—Tear Off on Dotted Line

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15				Colors, Sizes, Etc.			
16				Colors, Sizes, Etc.			
17				Colors, Sizes, Etc.			
18				Colors, Sizes, Etc.			

Have You Stated Size and Color?

PLEASE NOTE

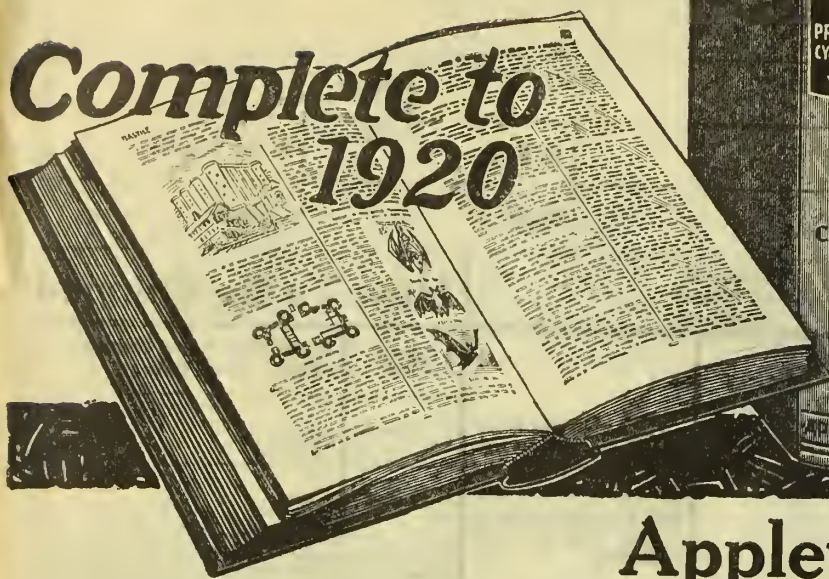
We Guarantee to Satisfy You or Return Your Money

Amount Allowed For Parcel Post

Total

(ORDER BLANK ON REVERSE SIDE)

Complete to 1920



Appleton's New Cyclopaedia

Special Sale Offer

At last the Cyclopaedia you have waited for is here. Send for your Set without delay—keep it in your home for 15 Days—and make it prove to you that it is a complete up-to-date Cyclopaedia in six volumes at a price you want to pay.

We know you will find it surprising both in appearance and contents—we know too that you will welcome it to your home.

The actual worth of Appleton's Cyclopaedia alone should make it a family necessity regardless of its low price. Consider these points: it is complete to 1920.—That includes the tense story of the World War and General Pershing—the Articles of the League of Nations—Federal Loan Bank Operations—Prohibition—Suffrage—the red-blooded life of Roosevelt and authoritative answers on every important subject from the time of the early Crusades to immortal Chateau Thierry.

Without doubt Appleton's Cyclopaedia is a priceless education in world knowledge for every member of the family. A help to father and mother in managing the household and a great aid to brother and sister in answering all questions, thus making their studies a pleasure. Many of the foremost educators and teachers in the country recommend Appleton's Cyclopaedia as a real education in an interesting, absorbing and entertaining way.

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See Pages 328, 329, 330 for Full Line of
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THESE days you want clothes that will give you service. In order to give service—clothes must have quality—and quality must start with the fabrics and continue through the trimmings, construction and workmanship.

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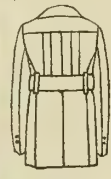
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\$3750 For Father This suit of All-Wool Striped Worsted

SIZES: Chest, 35 to 44 inches
Waist, 30 to 42 inches
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39C1243—Dad will want a new suit this season. Here is one that will appeal surely. Made of a firm all-wool worsted with harmonizing colored stripes. Three button style with soft lapel. Two lower pockets have flaps. Serviceably lined. Five button vest. Plain bottom trousers have usual pockets, etc. Elegantly tailored and will please the most exacting man as well as give the best wear. Average shipping weight, 5 lbs.



\$2975 Young Men's Style All-Wool Brown Mixture Overcoating, Olive Overplaid

SIZES: Chest, 34 to 42 inches
Average length, 43 inches

39C2807—Tippy style for the young men. Artistically perfect as to drape and appearance. Made of an all-wool, heavy weight overcoating in the beautiful shade shown, with olive overplaid. Double-breasted with convertible collar. Loose all around belt. Two patch pockets with flaps. Sleeve has cuff and buttons. Body is three-eighths lined and sleeves full lined with venetian. Seams are piped. Average shipping weight, 6 1/4 lbs.

\$1495 Olive and Brown Mixed Cassimere

Ages, 9 to 17 years

39C3377—Your boy should have this suit of brown and olive cassimere because it will give exceptional service. Fabric is about three-fourths wool, a good winter weight. Single-breasted with crescent shaped pockets. All around loose belt. Yoke and plaits in back. Strong twill body lining. Full lined knickerbockers with double sewed and taped seat, crotch and inseams. Four pockets. Average shipping weight, 3 3/4 lbs.

\$3150 Young Men's Suit All-Wool—Olive and Blue Mixed Cassimere

SIZES: Chest, 34 to 42 inches
Waist, 28 to 38 inches
Inseam, 29 to 33 inches

39C1725—Young men, buy a suit like this one that has individuality in its appearance. The fabric is all-wool, that means keeping its shape and extra wear. The pattern is an olive and blue small plaid. Two-button model with soft roll effect. Breast pocket. The cash and two lower pockets each have flap. Durable body lining of Gibraltar serge, which will wear as long as outer fabric. Five-button vest. Cuff bottom trousers with usual side, watch and hip pockets. Average shipping weight, 5 lbs.

\$1850 Boys' Overcoat of All-Wool Cheviot in Olive and Brown Mixture

Ages, 10 to 17 years

39C3071—Here is the kind of overcoat that boy of yours will like. Buy it and see how pleased he'll be. The material is all-wool, heavy weight and warm. Color as shown. The style is double-breasted with all around loose belt. Cuff on sleeve. Convertible collar. Two slanting patch pockets. Strong twill body and sleeve lining. Average shipping weight, 5 1/2 lbs.



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For Information on How to Measure see page 596

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