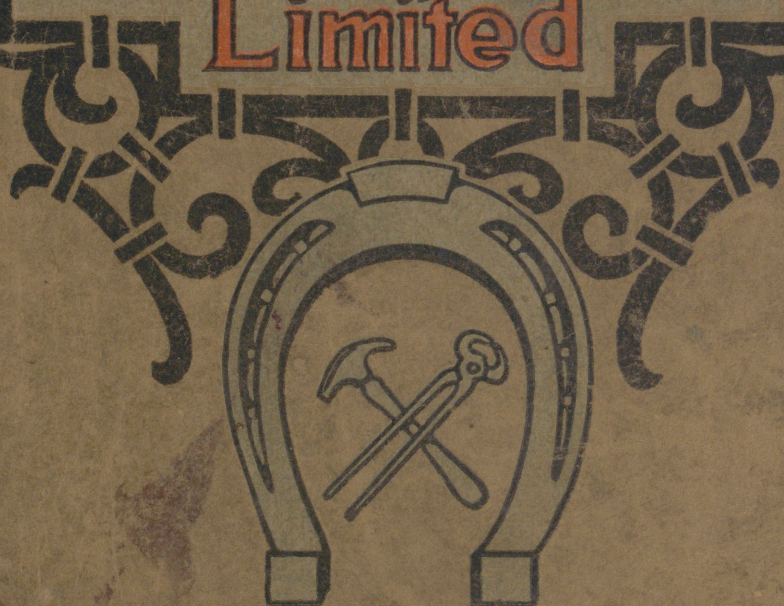


Wilkinson
Kompass
Limited



BLACKSMITH
SUPPLIES



Limited

Bar Iron and Steel ☐ Blacksmiths' and
Wagonmakers' Tools, and Supplies ☐
Hardware and Implement Specialties

Winnipeg, Manitoba

WILKINSON & KOMPASS
Toronto, Ont.



To the Trade

In publishing this catalogue, we have endeavored to show lines of standard stock which are most generally called for. We are continually adding new lines to our stock, and solicit inquiries for any goods not shown.

ORDERING GOODS

When ordering goods by mail be sure to give full name and address. State how the shipment is to be made, by freight or express. Give quantity of each article desired and follow with full catalogue description, such as grade, size, length, height, shape, weight and any special instructions that will assist us in understanding exactly what is wanted. This precaution will fully repay you for the time and effort required by insuring accuracy and promptness.

RETURNING GOODS

Goods must not be returned for exchange or credit without first taking the matter up with us by mail. We can generally dispose of such goods in your vicinity with a considerable saving of freight.

PRICES

•Write us for net prices, as those shown in this catalogue are constantly changing, owing to unusual market conditions now prevailing.

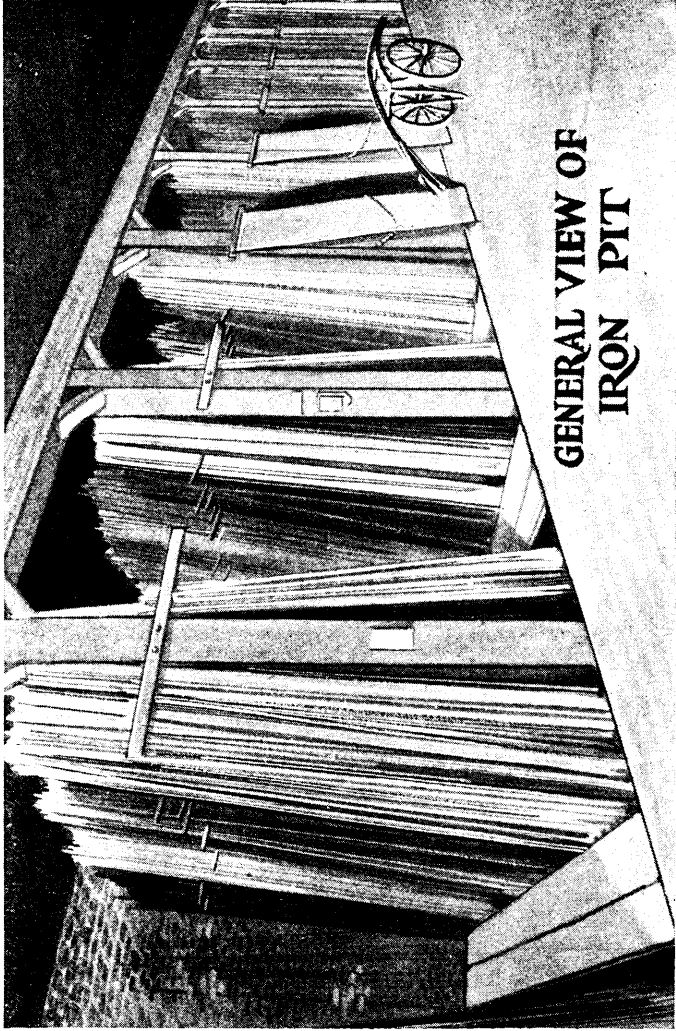
TERMS

Two per cent. 30 days from date of invoice, or 60 days net. C. O. D. orders must be accompanied by a remittance sufficient to pay express or freight charges both ways.

Caution

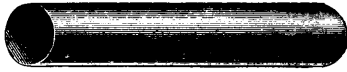
Do not sign receipt until you have checked goods over with your Bill of Lading. If any shortage or damage exists, notify the agent, and when signing specify the shortage or damage on receipt.

We cannot be responsible for damage to or loss of goods in transit, our responsibility ceasing when the goods are delivered in good order to the transportation company. We are, however, prepared to give our customers every assistance in securing settlement from the transportation company for any loss or damage to their shipments.

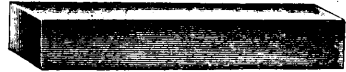


GENERAL VIEW OF
IRON PIT

IRON AND MILD STEEL



Rounds, in 12 to 18 ft. Bars.



Squares, in 12 to 18 ft. Bars.

Size in Inches	Weight per Foot, Lbs.
$\frac{3}{16}$.....	.094
$\frac{1}{4}$.....	.167
$\frac{5}{16}$.....	.261
$\frac{3}{8}$.....	.375
$\frac{7}{16}$.....	.511
$\frac{1}{2}$.....	.667
$\frac{9}{16}$.....	.845
$\frac{5}{8}$	1.043
$\frac{11}{16}$	1.262
$\frac{3}{4}$	1.502
$\frac{7}{8}$	2.044
1	2.670
$1\frac{1}{8}$	3.379
$1\frac{1}{4}$	4.173
$1\frac{3}{8}$	5.049
$1\frac{1}{2}$	6.008
$1\frac{5}{8}$	7.051
$1\frac{3}{4}$	8.178
$1\frac{7}{8}$	9.388
2	10.60
$2\frac{1}{4}$	13.52
$2\frac{1}{2}$	16.69
$2\frac{3}{4}$	20.20
3	24.03

Size in Inches	Weight per foot, Lbs.
$\frac{3}{16}$.....	.119
$\frac{1}{4}$.....	.212
$\frac{5}{16}$.....	.333
$\frac{3}{8}$.....	.478
$\frac{7}{16}$.....	.651
$\frac{1}{2}$.....	.850
$\frac{9}{16}$	1.076
$\frac{5}{8}$	1.328
$\frac{11}{16}$	1.608
$\frac{3}{4}$	1.913
$\frac{7}{8}$	2.603
1	3.400
$1\frac{1}{8}$	4.303
$1\frac{1}{4}$	5.312
$1\frac{3}{8}$	6.428
$1\frac{1}{2}$	7.650
$1\frac{5}{8}$	8.978
$1\frac{3}{4}$	10.41
$1\frac{7}{8}$	11.95
2	13.60
$2\frac{1}{4}$	17.22
$2\frac{1}{2}$	21.25

NOTICE

We specialize in **MILD STEEL**, and can supply special lengths and larger sizes than listed on short notice.

Price on application.

IRON AND MILD STEEL



Flats, in 12 to 18 ft. Bars.

Stock Sizes and Estimated Weights.

Size Inches	Weight per Foot, Lbs.	Size Inches	Weight per Foot, Lbs.
$\frac{3}{16} \times \frac{1}{2}$	.32	$\frac{3}{8} \times \frac{3}{4}$	.96
$\frac{3}{16} \times \frac{5}{8}$	.40	$\frac{3}{8} \times \frac{7}{8}$	1.12
$\frac{3}{16} \times \frac{3}{4}$	.48	$\frac{3}{8} \times 1$	1.28
$\frac{3}{16} \times \frac{7}{8}$	.56	$\frac{3}{8} \times 1 \frac{1}{8}$	1.44
$\frac{3}{16} \times 1$	.64	$\frac{3}{8} \times 1 \frac{1}{4}$	1.59
$\frac{3}{16} \times 1 \frac{1}{8}$	.72	$\frac{3}{8} \times 1 \frac{1}{2}$	1.92
$\frac{3}{16} \times 1 \frac{1}{4}$	.80	$\frac{3}{8} \times 1 \frac{3}{4}$	2.23
$\frac{3}{16} \times 1 \frac{1}{2}$	.96	$\frac{3}{8} \times 2$	2.55
$\frac{3}{16} \times 1 \frac{3}{4}$	1.11	$\frac{3}{8} \times 2 \frac{1}{4}$	2.87
$\frac{3}{16} \times 2$	1.28	$\frac{3}{8} \times 2 \frac{1}{2}$	3.19
$\frac{3}{16} \times 2 \frac{1}{4}$	1.44	$\frac{3}{8} \times 2 \frac{3}{4}$	3.51
$\frac{3}{16} \times 2 \frac{1}{2}$	1.59	$\frac{3}{8} \times 3$	3.83
$\frac{3}{16} \times 3$	1.91	$\frac{3}{8} \times 3 \frac{1}{2}$	4.47
$\frac{3}{16} \times 3 \frac{1}{2}$	2.23	$\frac{3}{8} \times 4$	5.10
$\frac{3}{16} \times 4$	2.55	$\frac{3}{8} \times 5$	6.38
		$\frac{3}{8} \times 6$	7.65
$\frac{1}{4} \times \frac{1}{2}$	.42	$\frac{7}{16} \times 1$	1.49
$\frac{1}{4} \times \frac{5}{8}$	.53	$\frac{7}{16} \times 1 \frac{1}{4}$	1.86
$\frac{1}{4} \times \frac{3}{4}$	.64	$\frac{7}{16} \times 1 \frac{1}{2}$	2.23
$\frac{1}{4} \times \frac{7}{8}$	.75	$\frac{7}{16} \times 1 \frac{3}{4}$	2.60
$\frac{1}{4} \times 1$	.85	$\frac{7}{16} \times 2$	2.98
$\frac{1}{4} \times 1 \frac{1}{8}$	.96	$\frac{7}{16} \times 2 \frac{1}{4}$	3.35
$\frac{1}{4} \times 1 \frac{1}{4}$	1.06	$\frac{7}{16} \times 2 \frac{1}{2}$	3.72
$\frac{1}{4} \times 1 \frac{3}{8}$	1.14	$\frac{7}{16} \times 3$	4.46
$\frac{1}{4} \times 1 \frac{1}{2}$	1.28	$\frac{7}{16} \times 3 \frac{1}{2}$	5.20
$\frac{1}{4} \times 1 \frac{3}{4}$	1.49	$\frac{7}{16} \times 4$	5.75
$\frac{1}{4} \times 2$	1.70	$\frac{1}{2} \times \frac{3}{4}$	1.28
$\frac{1}{4} \times 2 \frac{1}{4}$	1.91	$\frac{1}{2} \times \frac{7}{8}$	1.49
$\frac{1}{4} \times 2 \frac{1}{2}$	2.12	$\frac{1}{2} \times 1$	1.70
$\frac{1}{4} \times 2 \frac{3}{4}$	2.34	$\frac{1}{2} \times 1 \frac{1}{8}$	1.92
$\frac{1}{4} \times 3$	2.55	$\frac{1}{2} \times 1 \frac{1}{4}$	2.12
$\frac{1}{4} \times 3 \frac{1}{4}$	2.76	$\frac{1}{2} \times 1 \frac{1}{2}$	2.55
$\frac{1}{4} \times 3 \frac{1}{2}$	2.98	$\frac{1}{2} \times 1 \frac{3}{4}$	2.98
$\frac{1}{4} \times 4$	3.40	$\frac{1}{2} \times 2$	3.40
$\frac{1}{4} \times 4 \frac{1}{2}$	3.83	$\frac{1}{2} \times 2 \frac{1}{4}$	3.83
$\frac{1}{4} \times 5$	4.25	$\frac{1}{2} \times 2 \frac{1}{2}$	4.25
$\frac{1}{4} \times 5 \frac{1}{2}$	4.67	$\frac{1}{2} \times 3$	5.10
$\frac{1}{4} \times 6$	5.10	$\frac{1}{2} \times 3 \frac{1}{2}$	5.95
$\frac{1}{4} \times 7$	5.95	$\frac{1}{2} \times 4$	6.80
		$\frac{1}{2} \times 5$	8.50
$\frac{5}{16} \times \frac{1}{2}$	.53	$\frac{1}{2} \times 6$	10.20
$\frac{5}{16} \times \frac{5}{8}$	.67	$\frac{5}{8} \times 1$	2.12
$\frac{5}{16} \times \frac{3}{4}$	.80	$\frac{5}{8} \times 1 \frac{1}{4}$	2.65
$\frac{5}{16} \times \frac{7}{8}$	.93	$\frac{5}{8} \times 1 \frac{1}{2}$	3.19
$\frac{5}{16} \times 1$	1.06	$\frac{5}{8} \times 1 \frac{3}{4}$	3.72
$\frac{5}{16} \times 1 \frac{1}{8}$	1.20	$\frac{5}{8} \times 2$	4.25
$\frac{5}{16} \times 1 \frac{1}{4}$	1.33	$\frac{5}{8} \times 2 \frac{1}{4}$	4.78
$\frac{5}{16} \times 1 \frac{3}{8}$	1.46	$\frac{5}{8} \times 2 \frac{1}{2}$	5.31
$\frac{5}{16} \times 1 \frac{1}{2}$	1.59	$\frac{5}{8} \times 3$	6.38
$\frac{5}{16} \times 1 \frac{3}{4}$	1.86	$\frac{5}{8} \times 3 \frac{1}{2}$	7.44
$\frac{5}{16} \times 2$	2.12	$\frac{5}{8} \times 4$	8.50
$\frac{5}{16} \times 2 \frac{1}{4}$	2.59	$\frac{3}{4} \times 1 \frac{1}{4}$	3.19
$\frac{5}{16} \times 2 \frac{1}{2}$	2.65	$\frac{3}{4} \times 1 \frac{1}{2}$	3.83
$\frac{5}{16} \times 2 \frac{3}{4}$	2.92	$\frac{3}{4} \times 1 \frac{3}{4}$	4.47
$\frac{5}{16} \times 3$	3.19	$\frac{3}{4} \times 2$	5.11
$\frac{5}{16} \times 3 \frac{1}{2}$	3.72	$\frac{3}{4} \times 2 \frac{1}{2}$	6.38
$\frac{5}{16} \times 4$	4.25	$\frac{3}{4} \times 3$	7.65
$\frac{5}{16} \times 4 \frac{1}{2}$	4.78		
$\frac{5}{16} \times 5$	5.31		
$\frac{5}{16} \times 6$	6.38		

Price on Application.

IRON AND MILD STEEL**Round Edge Tire Steel**

Sizes Carried in Stock.

Size Inches	Est. Wt. Per Set of Four. Lbs.	Size Inches	Est. Wt. Per Set of Four. Lbs.	Size Inches	Est. Wt. Per Set of Four. Lbs.
$\frac{3}{16} \times \frac{7}{8}$	30	$\frac{3}{8} \times 1\frac{1}{8}$	85	$\frac{1}{2} \times 1\frac{1}{2}$	145
$\frac{3}{16} \times 1$	34	$\frac{3}{8} \times 1\frac{1}{4}$	94	$\frac{1}{2} \times 1\frac{5}{8}$	156
$\frac{1}{4} \times \frac{3}{4}$	35	$\frac{3}{8} \times 1\frac{3}{8}$	106	$\frac{1}{2} \times 1\frac{3}{4}$	165
$\frac{1}{4} \times \frac{7}{8}$	40	$\frac{3}{8} \times 1\frac{1}{2}$	111	$\frac{1}{2} \times 2$	187
$\frac{1}{4} \times 1$	46	$\frac{3}{8} \times 1\frac{3}{4}$	120	$\frac{1}{2} \times 2\frac{1}{2}$	232
$\frac{1}{4} \times 1\frac{1}{8}$	51	$\frac{3}{8} \times 2$	137	$\frac{1}{2} \times 3$	275
$\frac{1}{4} \times 1\frac{1}{4}$	57	$\frac{3}{8} \times 2\frac{1}{2}$	165	$\frac{1}{2} \times 3\frac{1}{2}$	320
$\frac{5}{16} \times 1$	58	$\frac{3}{8} \times 3$	200	$\frac{5}{8} \times 2\frac{1}{4}$	278
$\frac{5}{16} \times 1\frac{1}{8}$	65	$\frac{7}{16} \times 1\frac{1}{4}$	106	$\frac{5}{8} \times 2\frac{1}{2}$	305
$\frac{5}{16} \times 1\frac{1}{4}$	72	$\frac{7}{16} \times 1\frac{3}{8}$	115	$\frac{5}{8} \times 3$	360
$\frac{5}{16} \times 1\frac{3}{8}$	84	$\frac{7}{16} \times 1\frac{1}{2}$	124	$\frac{5}{8} \times 4$	450

Measured on Flat.

Spring Steel

Round Edge, Measured Over All.

Sizes Carried in Stock.

Inches	Inches	Inches	Inches
$\frac{1}{8} \times \frac{7}{8}$	$\frac{1}{4} \times 1\frac{3}{8}$	$\frac{5}{16} \times 1\frac{1}{4}$	$\frac{5}{16} \times 3$
$\frac{1}{8} \times 1$	$\frac{1}{4} \times 1\frac{1}{2}$	$\frac{5}{16} \times 1\frac{3}{8}$	$\frac{3}{8} \times 1\frac{1}{2}$
$\frac{3}{16} \times 1$	$\frac{1}{4} \times 1\frac{3}{4}$	$\frac{5}{16} \times 1\frac{1}{2}$	$\frac{3}{8} \times 1\frac{3}{4}$
$\frac{3}{16} \times 1\frac{1}{4}$	$\frac{1}{4} \times 2$	$\frac{5}{16} \times 1\frac{3}{4}$	$\frac{3}{8} \times 2$
$\frac{3}{16} \times 1\frac{1}{2}$	$\frac{1}{4} \times 2\frac{1}{4}$	$\frac{5}{16} \times 2$	$\frac{3}{8} \times 2\frac{1}{4}$
$\frac{1}{4} \times 1$	$\frac{1}{4} \times 2\frac{1}{2}$	$\frac{5}{16} \times 2\frac{1}{4}$	$\frac{3}{8} \times 2\frac{1}{2}$
$\frac{1}{4} \times 1\frac{1}{4}$	$\frac{1}{4} \times 3$	$\frac{5}{16} \times 2\frac{1}{2}$	$\frac{3}{8} \times 3$

16-Foot Bars.

High-Grade Automobile Spring Steel

We carry a very complete stock in 16-foot Bars. For sizes, see above list.

Prices on Application.

IRON AND MILD STEEL

Sleigh Shoe Steel

Square Edge, in 16-Foot Bars.

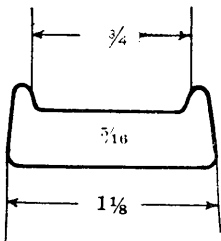
Sizes Carried in Stock.

Inches	Inches	Inches	Inches
$\frac{1}{4} \times \frac{3}{4}$	$\frac{5}{16} \times \frac{3}{4}$	$\frac{3}{8} \times \frac{3}{4}$	$\frac{1}{2} \times \frac{1}{2}$
$\frac{1}{4} \times \frac{7}{8}$	$\frac{5}{16} \times \frac{7}{8}$	$\frac{3}{8} \times 1$	$\frac{1}{2} \times 1 \frac{3}{4}$
$\frac{1}{4} \times 1$	$\frac{5}{16} \times 1$	$\frac{3}{8} \times 1 \frac{1}{8}$	$\frac{1}{2} \times 2$
$\frac{1}{4} \times 1 \frac{1}{8}$	$\frac{5}{16} \times 1 \frac{1}{8}$	$\frac{3}{8} \times 1 \frac{1}{4}$	$\frac{1}{2} \times 2 \frac{1}{4}$
$\frac{1}{4} \times 1 \frac{1}{4}$	$\frac{5}{16} \times 1 \frac{1}{4}$	$\frac{3}{8} \times 1 \frac{1}{2}$	$\frac{1}{2} \times 2 \frac{1}{2}$
$\frac{1}{4} \times 1 \frac{1}{2}$	$\frac{5}{16} \times 1 \frac{1}{2}$	$\frac{3}{8} \times 1 \frac{3}{4}$	$\frac{1}{2} \times 3$
$\frac{1}{4} \times 1 \frac{3}{4}$	$\frac{5}{16} \times 1 \frac{3}{4}$	$\frac{3}{8} \times 2$	$\frac{1}{2} \times 3 \frac{1}{2}$
$\frac{1}{4} \times 2$	$\frac{5}{16} \times 2$	$\frac{3}{8} \times 2 \frac{1}{4}$	$\frac{5}{8} \times 2$
$\frac{1}{4} \times 2 \frac{1}{4}$	$\frac{5}{16} \times 2 \frac{1}{4}$	$\frac{3}{8} \times 2 \frac{1}{2}$	$\frac{5}{8} \times 2 \frac{1}{2}$
$\frac{1}{4} \times 2 \frac{1}{2}$	$\frac{5}{16} \times 2 \frac{1}{2}$	$\frac{3}{8} \times 2 \frac{3}{4}$	$\frac{5}{8} \times 3$
$\frac{1}{4} \times 2 \frac{3}{4}$	$\frac{5}{16} \times 2 \frac{3}{4}$	$\frac{3}{8} \times 3$	$\frac{5}{8} \times 3 \frac{1}{2}$
$\frac{1}{4} \times 3$	$\frac{5}{16} \times 3$	$\frac{7}{16} \times 2$	$\frac{5}{8} \times 4$

Price on Application.

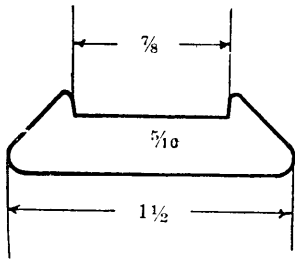
Steel Cutter Channels

Tapered at Point.



No. 1. $1 \frac{1}{8} \times \frac{7}{8} \times \frac{5}{16}$ in. Length, 6 ft. 6 in.

Price per pair, \$1.30.



No. 2. $1 \frac{1}{2} \times \frac{7}{8} \times \frac{5}{16}$ in. Length, 6 ft. 6 in.

Price per pair, \$1.60.

Cast Sleigh Shoes

Interchangeable, Right or Left.

For 2, 2 1/4, 2 1/2 and 3-in. Runners. Length, 5 ft. 5 in. Price per lb., 07c.

Harrow Tooth Steel

Sizes Carried in Stock.

$\frac{1}{2}$ in. square. $\frac{9}{16}$ in. square. $\frac{5}{8}$ in. square. $\frac{3}{4}$ in. square. $\frac{7}{8}$ in. square.

Price on Application.

IRON AND MILD STEEL



Half Ovals

Size Inches	Weight per Foot, Lbs.
$\frac{1}{2} \times \frac{1}{8}$.....	.15
$\frac{5}{8} \times \frac{5}{32}$.....	.23
$\frac{3}{4} \times \frac{3}{16}$.....	.33
$\frac{7}{8} \times \frac{1}{4}$.....	.53
1 $\times \frac{1}{4}$.....	.60
$1\frac{1}{8} \times \frac{9}{32}$.....	.75
$1\frac{1}{4} \times \frac{5}{16}$.....	.93
$1\frac{1}{2} \times \frac{3}{8}$	1.34
2 $\times \frac{3}{8}$	1.75



Half Rounds

Size Inches	Weight per Foot, Lbs.
$\frac{1}{2}$.....	.33
$\frac{5}{8}$.....	.52
$\frac{3}{4}$.....	.75
$\frac{7}{8}$	1.02
1	1.34
$1\frac{1}{8}$	1.69
$1\frac{1}{4}$	2.09
$1\frac{1}{2}$	3.00

Price on Application.

Band Steel

In Bundles of from 70 to 90 Lbs.

$\frac{1}{8}$ in. Thick.

Size Inches	Weight per Foot, Lbs.	Size Inches	Weight per Foot, Lbs.	Size Inches	Weight per Foot, Lbs.
$\frac{1}{2}$.....	.22	$1\frac{1}{4}$.....	.57	3	1.37
$\frac{5}{8}$.....	.28	$1\frac{1}{2}$.....	.68	$3\frac{1}{2}$	1.59
$\frac{3}{4}$.....	.34	$1\frac{3}{4}$.....	.80	4	1.82
$\frac{7}{8}$.....	.40	2 .....	.91	5	2.27
1 .....	.45	$2\frac{1}{4}$	1.02	6	2.73
$1\frac{1}{8}$.....	.51	$2\frac{1}{2}$	1.14	8	3.64

Price on Application.

Hoop Steel

In Coils of from 40 to 60 Lbs.

Width, in.	Gauge	Width, in.	Gauge	Width, in.	Gauge
$\frac{5}{8}$	22	1	19	$1\frac{3}{4}$	17
$\frac{3}{4}$	20	$1\frac{1}{4}$	18	2	16
$\frac{7}{8}$	19	$1\frac{1}{2}$	17	$2\frac{1}{2}$	15

Price on Application.

IRON AND MILD STEEL

Angle Steel

Sizes Carried in Stock.

Size Inches	Est. Wt. Per Foot. Lbs.	Size Inches	Est. Wt. Per Foot. Lbs.	Size Inches	Est. Wt. Per Foot. Lbs.
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$.....	.59	$1\frac{3}{4} \times 1\frac{3}{4} \times \frac{3}{16}$	2.12	2 x2 x $\frac{1}{4}$	3.19
1 x1 x $\frac{1}{8}$.....	.80	2 x2 x $\frac{3}{16}$	2.44	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{4}$	4.10
1 x1 x $\frac{3}{16}$	1.16	$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{4}$	1.92	2 x2 x $\frac{5}{16}$	3.92
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{16}$	1.48	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{4}$	2.34	$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{5}{16}$	5.00
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$	1.80	$1\frac{3}{4} \times 1\frac{3}{4} \times \frac{1}{4}$	2.77	3 x3 x $\frac{3}{8}$	7.20

Toe Calk Steel

Round and Square Edge

Sizes Carried in Stock.

Inches	Inches	Inches	Inches	Inches	Inches
$\frac{3}{16} \times \frac{3}{16}$	$\frac{3}{16} \times \frac{7}{8}$	$\frac{1}{4} \times \frac{1}{2}$	$\frac{5}{16} \times \frac{7}{16}$	$\frac{3}{8} \times \frac{3}{4}$	$\frac{1}{2} \times \frac{3}{4}$
$\frac{3}{16} \times \frac{5}{16}$	$\frac{3}{16} \times 1$	$\frac{1}{4} \times \frac{5}{8}$	$\frac{5}{16} \times \frac{1}{2}$	$\frac{3}{8} \times \frac{7}{8}$	$\frac{1}{2} \times \frac{7}{8}$
$\frac{3}{16} \times \frac{3}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4} \times \frac{3}{4}$	$\frac{5}{16} \times \frac{5}{8}$	$\frac{1}{6} \times \frac{5}{8}$	$\frac{1}{2} \times 1$
$\frac{3}{16} \times \frac{1}{2}$	$\frac{1}{4} \times \frac{5}{16}$	$\frac{1}{4} \times \frac{7}{8}$	$\frac{5}{16} \times \frac{3}{4}$	$\frac{1}{6} \times \frac{3}{4}$	
$\frac{3}{16} \times \frac{5}{8}$	$\frac{1}{4} \times \frac{3}{8}$	$\frac{1}{4} \times 1$	$\frac{3}{8} \times \frac{1}{2}$	$\frac{1}{6} \times \frac{7}{8}$	
$\frac{3}{16} \times \frac{3}{4}$	$\frac{1}{4} \times \frac{7}{16}$	$\frac{5}{16} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{5}{8}$	$\frac{1}{2} \times \frac{5}{8}$	

Width Measured Over All.

Horse Shoe Iron

Inches	Inches	Inches	Inches
$\frac{3}{8} \times \frac{3}{4}$	$\frac{1}{2} \times \frac{7}{8}$	$\frac{9}{16} \times 1$	$\frac{5}{8} \times 1$
$\frac{3}{8} \times \frac{7}{8}$	$\frac{1}{2} \times 1$	$\frac{9}{16} \times 1\frac{1}{8}$	$\frac{5}{8} \times 1\frac{1}{8}$
$\frac{7}{16} \times \frac{7}{8}$	$\frac{1}{2} \times 1\frac{1}{8}$	$\frac{9}{16} \times 1\frac{1}{4}$	$\frac{5}{8} \times 1\frac{1}{4}$
$\frac{7}{16} \times 1$	$\frac{1}{2} \times 1\frac{1}{4}$	$\frac{9}{16} \times 1\frac{3}{8}$	$\frac{5}{8} \times 1\frac{3}{8}$
	$\frac{1}{2} \times 1\frac{3}{8}$		

Round Machine Steel, Iron Finish

Inches	Inches	Inches	Inches	Inches
$\frac{7}{16}$	$\frac{5}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$
$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$

Prices on Application.

IRON AND MILD STEEL

Round Cold-Rolled Shafting

Accurately Straightened and Polished.

Sizes for Immediate Shipment.

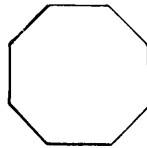
Inches	Inches	Inches	Inches	Inches	Inches
$\frac{1}{8}$	$\frac{7}{16}$	$\frac{13}{16}$	$1\frac{3}{16}$	$1\frac{9}{16}$	$2\frac{3}{16}$
$\frac{3}{16}$	$\frac{1}{2}$	$\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{11}{16}$	$2\frac{1}{4}$
$\frac{1}{2}$	$\frac{9}{16}$	$1\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{13}{16}$	$2\frac{5}{16}$
$\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{15}{16}$	$2\frac{7}{16}$
$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{7}{8}$	2	$2\frac{9}{16}$
$1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{5}{8}$	$1\frac{1}{2}$	$2\frac{1}{16}$	$2\frac{11}{16}$

Sizes from $\frac{1}{8}$ to $\frac{9}{16}$ in.—12 and 14-foot Bars.
 $\frac{5}{8}$ in. and larger—20-foot Bars.

Can supply sizes and shapes not listed on short notice.

Cast Tool Steel

High-Grade Octagon.



Sizes Carried in Stock.

$\frac{3}{8}$ " $\frac{7}{16}$ " $\frac{1}{2}$ " $\frac{5}{8}$ " $\frac{3}{4}$ " $\frac{7}{8}$ " 1" $1\frac{1}{8}$ " $1\frac{1}{4}$ " $1\frac{3}{8}$ " $1\frac{1}{2}$ "

Square.

1" $1\frac{1}{4}$ " $1\frac{1}{2}$ " $1\frac{3}{4}$ " 2"

Wagon Box Steel

Bevel Edge

$\frac{3}{4}$ " in. Wide.
 $\frac{7}{8}$ " in. Wide.

12 Gauge
12 Gauge

Plow Steel

Crucible

$\frac{1}{4}$ in 5, $5\frac{1}{2}$, 6, 7, 8
 $\frac{5}{16}$ in 6, 7
 $\frac{3}{8}$ in 6, 7, 8

Sickle Bar Steel

$\frac{3}{8}$ x $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in

$\frac{1}{4}$ x $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in.

Prices on Application.

Extras on Iron and Steel Bars

Extras in Dollars and Cents to be Added to Base Price

Rounds and Squares

	Per 100 Lbs.
$\frac{3}{4}$ to 3 inches	Base
$\frac{5}{8}$ & $\frac{11}{16}$ in.	\$0.10
$\frac{1}{2}$ & $\frac{9}{16}$ in. ....	.15
$\frac{7}{16}$ in. ....	.25
$\frac{3}{8}$ in. ....	.35
11 32 in. ....	.40
$\frac{5}{16}$ in. ....	.45
9 32 in. ....	.55
$\frac{1}{4}$ in. ....	.65
$\frac{3}{16}$ in.	1.50
$3\frac{1}{8}$ in. ....	.30
$3\frac{1}{4}$ in. ....	.30
$3\frac{1}{2}$ in. ....	.40
$3\frac{3}{4}$ in. ....	.50
4 in. ....	.60

Half Ovals

1 to 4 inches	\$0.40
$\frac{3}{4}$ to $\frac{15}{16}$ in. ....	.65
$\frac{5}{8}$ in. ....	.80
$\frac{1}{2}$ in.	1.25

Half Rounds

1 to 2 inches	\$0.35
$\frac{3}{4}$ & $\frac{7}{8}$ in. ....	.50
$\frac{5}{8}$ & $\frac{11}{16}$ in. ....	.70
$\frac{1}{2}$ & $\frac{9}{16}$ in.	1.15
$\frac{3}{8}$ & $\frac{7}{16}$ in.	1.50

Ovals

$\frac{7}{8}$ to $1\frac{1}{4}$ inches	\$0.30
$\frac{3}{4}$ in. ....	.45
$\frac{5}{8}$ in. ....	.65
$\frac{9}{16}$ in. ....	.90
$\frac{1}{2}$ in. ....	.90

For intermediate sizes, the next higher extra to be charged in all cases.

Flats

1 to 6 in. x $\frac{3}{8}$ to 1 in.	Base
1 to 6 in. x $\frac{1}{4}$ to $\frac{5}{16}$ in.	\$0.15
$\frac{11}{16}$ to $\frac{15}{16}$ in. x $\frac{3}{8}$ to $\frac{3}{4}$ in. ....	.30
$\frac{11}{16}$ to $\frac{15}{16}$ in. x $\frac{1}{4}$ to $\frac{5}{16}$ in. ....	.35
$\frac{9}{16}$ to $\frac{5}{8}$ in. x $\frac{3}{8}$ to $\frac{1}{2}$ in. ....	.35
$\frac{9}{16}$ to $\frac{5}{8}$ in. x $\frac{1}{4}$ to $\frac{5}{16}$ in. ....	.50
$\frac{1}{2}$ in. x $\frac{3}{8}$ to $\frac{1}{2}$ in. ....	.70
$\frac{1}{2}$ in. x $\frac{1}{4}$ to $\frac{5}{16}$ in. ....	.80
$1\frac{1}{8}$ to 6 in. x $1\frac{1}{16}$ to $1\frac{3}{16}$ in. ....	.10
$1\frac{1}{8}$ to 6 in. x $1\frac{1}{4}$ to $1\frac{1}{2}$ in. ....	.15
$1\frac{3}{4}$ to 6 in. x $1\frac{5}{8}$ to 2 in. ....	.20

Flats $\frac{3}{16}$ in. and thinner see "Bands."

For intermediate sizes, the next higher extra to be charged in all cases.

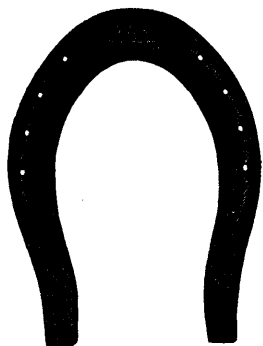
Bands and Light Flats

Birmingham Wire Gauge.

$1\frac{1}{2}$ to 6 in. x No. 10 or $\frac{1}{8}$ in.	\$0.40
1 to $1\frac{3}{8}$ in. x " ..	.45
$\frac{7}{8}$ in. x " ..	.50
$\frac{3}{4}$ in. x " ..	.80
$\frac{5}{8}$ in. x " ..	1.30
$\frac{1}{2}$ in. x " ..	2.00
$1\frac{1}{2}$ to 6 in. x $\frac{3}{16}$ in. ....	.30
1 to $1\frac{3}{8}$ in. x $\frac{3}{16}$ in. ....	.35
$\frac{7}{8}$ in. x $\frac{3}{16}$ in. ....	.45
$\frac{3}{4}$ in. x $\frac{3}{16}$ in. ....	.70
$\frac{5}{8}$ in. x $\frac{3}{16}$ in. ....	.90
$\frac{1}{2}$ in. x $\frac{3}{16}$ in.	1.15

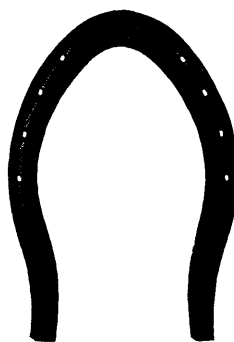
HORSE SHOES

"Bell" Brand



Front

"M. R. M." Brand



Hind

Light Iron Shoes

Sizes, No.	0	1	2	3	4	5	6	7	8
Wt., front, ozs. each	12	15	17½	21½	24¾	30	36	41	50
Wt., hind, ozs. each	9½	12¼	14¾	18	21¼	25½	29½	34	40

Medium Iron Shoes

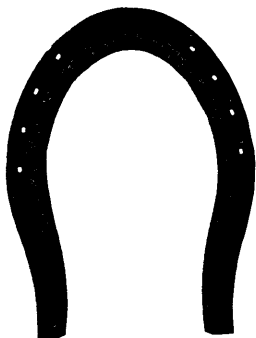
Extra Heavy. For Use on Pavements and for Heavy Teaming.

Sizes, No.	3	4	5	6	7	8
Wt., front, ozs. each	26½	30½	36	43½	50	55
Wt., hind, ozs. each	22	27	31	36	41½	48¼

Packed 100 lbs. in a keg; all front, all hind, or assorted front and hind.

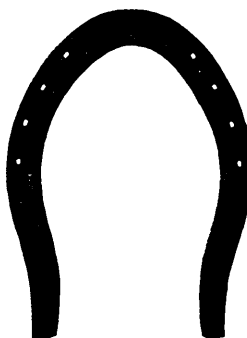
Snow Shoes

"Bell" Brand



Front

"M. R. M." Brand



Hind

Sizes, No.	1	2	3	4	5	6
Wt., front, ozs. each	12½	14½	18½	21½	25	31
Wt., hind, ozs. each	10½	13	16	18½	21½	26

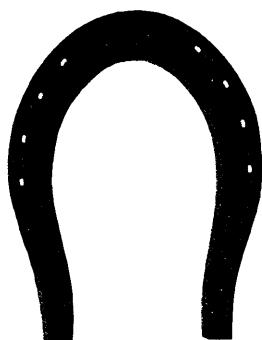
Packed 100 lbs. in a keg; all front, all hind, or assorted front and hind.

Prices on application.

HORSE SHOES

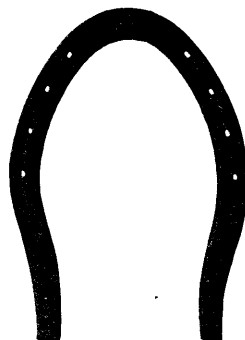
Light Steel Shoes

“Bell” Brand



Front

“X. L.” Brand



Hind

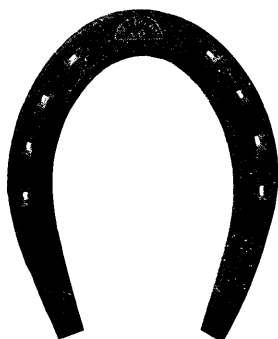
Sizes, No.	0	1	2	3	4	5	6
Wt., front, ozs. each	11	13½	16	19½	23	27	31
Wt., hind, ozs. each	8½	10½	13¼	16	19	21½	26½

Featherweight Steel Shoes

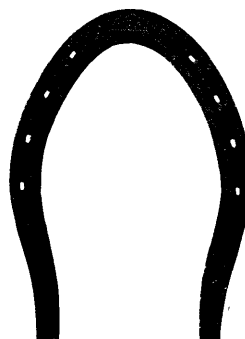
Sizes, No.	0	1	2	3	4
Wt., front, ozs. each	8½	10	12	14	17½
Wt., hind, ozs. each	7½	8½	10	12½	15

Packed 100 lbs. in a keg; all front, all hind, or assorted front and hind.

Countersunk Steel Shoes



Front



Hind

Sizes, No.	0	1	2	3	4
Weight, front, ounces each	8½	10	12½	15	18
Weight, hind, ounces each	7½	8½	10	12	14

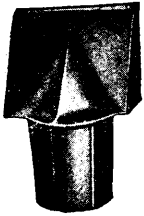
Toe Weight Shoes

Fronts Only.

Sizes, No.	1	2	3	4
Weight, ounces each	12	14½	17½	21

Prices on application.

DIAMOND DRIVE CALKS

Sharp
Short Blade

Diamond Calks are scientifically made. The shanks are guaranteed not to vary $1/10,000$ of an inch. They are specially designed for slippery pavements and icy roads. They have ribbed shanks that prevent them from turning in the shoe, or dropping out.

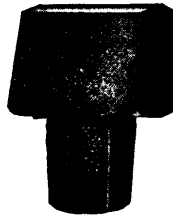
Sharp
Standard Blade

Short or Standard

Size	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$
Price per 100	\$3.00	\$3.00	\$3.20	\$3.29

Packed 50 in Box.

Dull or Blunt



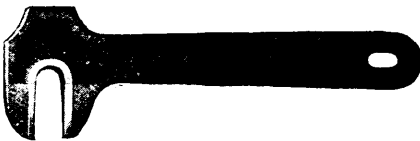
Designed for use on open pavements and roads to replace sharp calks when icy conditions disappear.

Short or Standard

Size	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$
Price per 100	\$3.00	\$3.00	\$3.20	\$3.29

Packed 50 in Box.

Diamond Calk Extractors



Size No. 1.	For $\frac{7}{16}$ and $\frac{1}{2}$ in.	Each, 35c.
Size No. 2.	For $\frac{9}{16}$ and $\frac{5}{8}$ in.	Each, 35c.

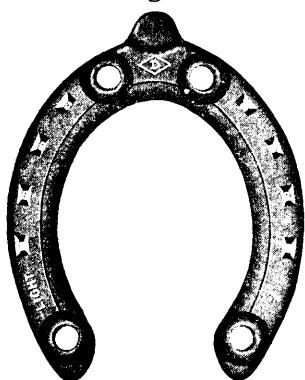
Diamond Resetting Shells



Packed 100 in Box.
Can be supplied for any size Calk.
Price per 100, \$1.00.

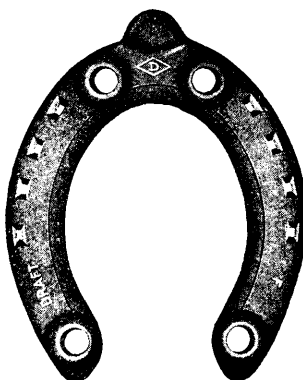
Diamond Drive Calk Shoes

Driving Shoes



Size	Calk	Av. Per Keg
No. 1	7 11	155
No. 2	7 11	119
No. 3	7 11	107
No. 4	7 11	73
No. 5	7 11	67
No. 6	7 11	63
No. 7	7 11	55

Draft Shoes



Size	Calk	Av. Per Keg
No. 4	9 11	69
No. 5	9 11	51
No. 6	9 11	43
No. 7	9 11	40
No. 8	9 11	36
No. 9	9 11	30

Made of Special
Quality Drop-
Forged Steel.

Supplied in Front
and Hind

100 lbs. in keg.

TO PUT ON DIAMOND CALKS

First.—Fit shoes the same as any ordinary shoe, and let them cool.

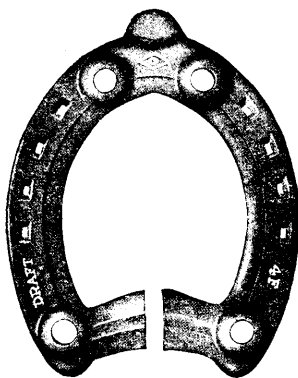
Second.—Oil punch and drive it in calk hole till its shoulder strikes the shoe.

Third.—Nail on shoe and clinch.

Fourth.—Set calks by driving in with a small anvil hammer, holding a clinch block under the heel of shoe—two or three blows with the hammer will do.

Don't punch calk hole while shoe is hot.

Bar Shoes



The bar is open in the centre so that the heels may be readily adjusted to fit the foot, and ample stock is left in the bar to draw and weld the heel together if desired.

Made of same quality steel and same design as regular Draft Pattern Front Shoes.

Packed 6 Pairs of One Size in Box.

Size 4
Size of Calk 9 16

5 5 8

6 5 8

7 5 8

8 5 8

Prices on Application.

Diamond Calk Punches

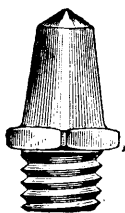


Highest Quality Tool Steel.

Made in Two Lengths—Short and Long. All sizes, each, 25c.

NEVERSLIP CALKS

Red Tip



No. 4
Square Shoulder



No. 1
Round Shoulder

Nos. 1 and 4 Red Tip Calks are hard-centre, self-sharpening calks, and are adapted for use on icy streets. They will keep a horse from slipping under all circumstances.

Size, inches.....	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$
Price per 100	\$2.90	\$2.90	\$3.10	\$3.10	\$3.30	\$3.30

No. 4 Calks will always be supplied unless otherwise specified.

Packed 50 in a box.

NEVERSLIP SPEEDWAY CALKS

In sizes $\frac{5}{16}$ in. and $\frac{3}{8}$ in. only.

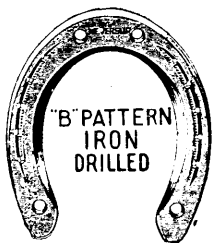
The Speedway Calk is used for horses shod with light shoes, and will be found an ideal calk for the purpose intended.

Price same as No. 4.

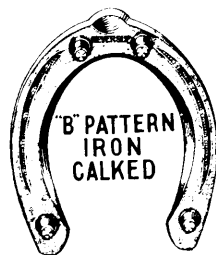
Packed 50 in a box.

NEVERSLIP IRON SHOES

For Screw Calks



Made in Sizes
0 to 8.



This shoe is made of selected stock, double refined, and is creased to prevent snow from balling in hoof.

Size of shoe	0	1	2	3	4	5	6	7	8
Size of calk, in.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{8}$
Drilled shoes, per keg.....	\$13.00	\$13.00	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50	\$12.50
Drilled and tapped, per keg	14.75	14.75	14.25	14.25	14.25	14.25	14.25	14.25	14.25
Calked shoes, per set.....	1.20	1.25	1.35	1.45	1.65	2.00	2.15	2.35	2.55

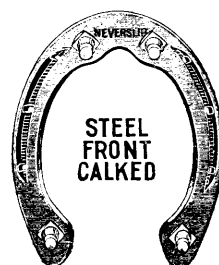
Packed 100 lbs. in a keg; all front, all hind, or assorted front and hind.

NEVERSLIP STEEL SHOES

Creased



Made in Sizes
0 to 7



This shoe is made of the highest grade of drop forged steel, and is an excellent one for use on medium weight horses.

Size of shoe.....	0	1	2	3	4	5	6	7
Size of calk, in.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{9}{16}$
Drilled shoes, per keg.....	\$16.00	\$16.00	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50
Drilled and tapped, per keg.....	17.90	17.90	17.40	17.40	17.40	17.40	17.40	17.40
Calked shoes, per set.....	1.40	1.50	1.60	1.70	2.00	2.20	2.50	2.80

Packed 100 lbs. in a keg; all front, all hind, or assorted front and hind.

NEVERSLIP EXTRA LIGHT STEEL SHOES

Countersunk



Made in Sizes
0 to 5.



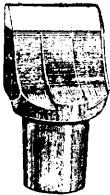
A very light shoe, drop forged from high-grade steel, for light road work.

Size of shoe.....	0	1	2	3	4	5
Size of calk, in.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$
Drilled shoes, per pair.....	\$0.40	\$0.40	\$0.40	\$0.45	\$0.45	\$0.50
Drilled and tapped, per pair.....	.45	.45	.45	.50	.50	.55
Calked shoes, per pair.....	.80	.80	.80	.90	.90	1.00

Hind shoes made right and left.

Packed 10 pairs in a box.

NEVERSLIP DRIVE CALKS



Sharp

Made in Regular
and Low Pattern



Blunt

Size, inches.....	⁷ / ₁₆	¹ / ₂	⁹ / ₁₆	⁵ / ₈
Sharp, per 100.....	\$2.80	\$2.80	\$3.00	\$3.00
Blunt, per 100.....	2.90	2.90	3.10	3.10

58 Calks can be supplied oversize if desired.

Packed 50 in a box.

NEVERSLIP DRIVE CALK SHOES

Driving Pattern



Made in Sizes
2 to 8

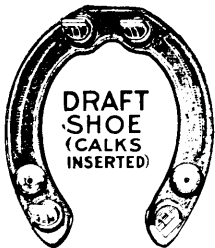


Size of Shoe.....	2	3	4	5	6	7	8
Size of Calk, in.....	⁷ / ₁₆	¹ / ₂	¹ / ₂	⁹ / ₁₆	⁵ / ₈	⁵ / ₈	⁵ / ₈
Price per keg.....	\$16.50	\$16.50	\$16.50	\$16.50	\$16.50	\$16.50	\$16.50

Draft Pattern



Made in Sizes
5 to 8



Size of Shoe.....	5	6	7	8
Size of Calk, in.....	⁵ / ₈	⁵ / ₈	⁵ / ₈	⁵ / ₈
Price per keg.....	\$16.00	\$16.00	\$16.00	\$16.00

Packed 100 lbs in a keg; all front, all hind, or assorted front and hind.

NEVERSLIP TOOLS

Regular Wrenches



One Size only—Price, Each, \$0.70

Jonson Wrenches



One Size Only—Price, Each, \$2.10

Boston Tongs

Made in two sizes.		Price, each
Small, for $\frac{5}{16}$, $\frac{3}{8}$ and $\frac{7}{16}$ -in. Calks		\$1.10
Large, for $\frac{1}{2}$, $\frac{9}{16}$ and $\frac{5}{8}$ -in. Calks		1.10

Hand Taps



Machine Taps



Size, in	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$
Hand Taps, Each	\$0.35	\$0.40	\$0.45	\$0.50	\$0.55	\$0.60
Machine Taps, each	.50	.50	.50	.50	.55	.65
Stub Taps, each	.50	.50	.50	.50	.55	.55

Tapping Machines

With a Neverslip Tapping Machine shoes can be tapped with greater ease, and in one-half the time that it takes to do the work with an ordinary tap wrench.

Complete, without taps	Price
Complete, with full set taps	\$15.50
	17.50

Drive Calk Punches



Neverslip Punches are necessary in order to make the hole true and to proper taper after heating.
Price each, all sizes 20c.

Drive Calk Extractors

Price each, all sizes 30c.

SWEET'S TOE CALKS Blunt

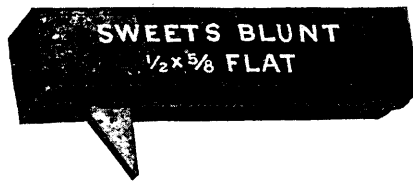


In 25-lb. Boxes.

No.	Inch	Reg.	Long	Ex. Long
0	$\frac{7}{16} \times \frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
1	$\frac{1}{2} \times \frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
2	$\frac{9}{16} \times \frac{7}{16}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$
3	$\frac{1}{2} \times \frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$
4	$\frac{3}{4} \times \frac{1}{2}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$
5	$\frac{13}{16} \times \frac{9}{16}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
6	$\frac{7}{8} \times \frac{9}{16}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$
7	$\frac{15}{16} \times 19/32$	3	$3\frac{1}{4}$	$3\frac{1}{2}$

Prices on Application.

Special Flat Calks



Sizes	Med.	Long	Ex. Long
$\frac{3}{8} \times \frac{1}{2}$ Flat	$1\frac{3}{4}$	2	$2\frac{1}{4}$
$\frac{1}{2} \times \frac{1}{2}$ Square	2	$2\frac{1}{4}$	$2\frac{1}{2}$
$\frac{1}{2} \times \frac{5}{8}$ Flat	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$
$\frac{1}{2} \times \frac{3}{4}$ Flat	$2\frac{1}{2}$	$2\frac{3}{4}$	3
$\frac{5}{8} \times \frac{5}{8}$ Square	$2\frac{3}{4}$	3	$3\frac{1}{4}$

Prices on Application.

Half Sharp or Country Pattern

No.	1	2	3	4	5	6	7
Size, in.	$\frac{1}{2} \times \frac{5}{16}$	$\frac{5}{8} \times 11/32$	$23/32 \times \frac{7}{16}$	$\frac{7}{8} \times \frac{7}{16}$	$\frac{7}{8} \times \frac{1}{2}$	$\frac{15}{16} \times \frac{9}{16}$	$\frac{15}{16} \times 17/32$
Length, in.	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3

Prices on Application.

Heel Calks

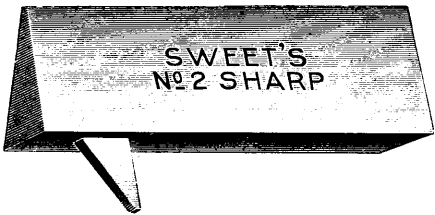
In 25-lb. Boxes.

Blunt

No.	2	3	4	5	6
Length, in.	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$

Prices on Application.

SWEET'S TOE CALKS
Sharp



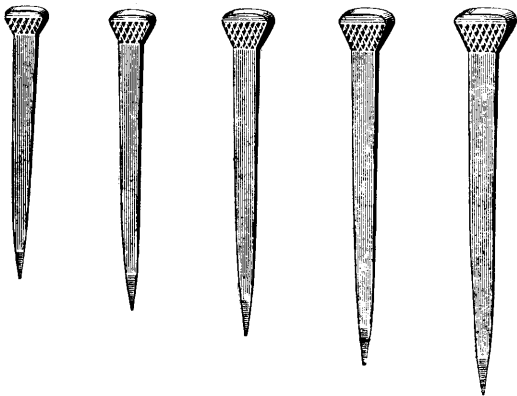
In 25-lb. Boxes.

No.	Inches	Reg.	Long	Ex. Long
0	$\frac{1}{2}$ x $\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
1	$\frac{5}{8}$ x $\frac{7}{16}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$
2	$\frac{3}{4}$ x $\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$
3	$\frac{7}{8}$ x $\frac{9}{16}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$
4	$\frac{15}{16}$ x $\frac{9}{16}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
5	1 x $\frac{5}{8}$	$2\frac{3}{4}$	3	$3\frac{1}{4}$
6	$1\frac{1}{16}$ x $\frac{5}{8}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$
7	$1\frac{1}{16}$ x $\frac{5}{8}$	$3\frac{1}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$

Prices on Application.

CAPEWELL HORSE NAILS

"The Best in the World."



Regular Head

		No. 2	3	4	4½			
		In One-lb. Boxes.					Prices on Application.	
No.	5	6	7	8	9	10	11	12
Per lb.	24c.	23c.	22c.	21c.	20c.	20c.	20c.	20c.
In 25-lb. Boxes.								

Special or City Head

No.	5	6	7	8	9
Per lb.	24c.	23c.	22c.	21c.	20c.

In 25-lb. Boxes.

"B. & M." Patent Ribbed Steel

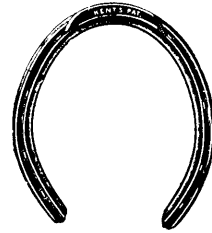
Sold in the Bar Only, Sizes 0 to 7

Weights per foot
of steel :

SIZE	OUNCES
No. 0	3½
No. 1	4½
No. 2	5½
No. 3	6½
No. 4	8½
No. 5	11
No. 6	14
No. 7	18

B. & M. Steel, all Sizes, 25c. per lb.

Toed Racing Plates



1	2	3	4
Light Racing, Front			
2½	2¾	3	3¾ ounces

Heavy Racing, Front			
3	3¼	3½	3¾ ounces

Training			
4	4½	4¾	5¼ ounces

Width, Front			
4¼	4½	4¾	5 inches

Length, Front			
4½	4¾	4¾	5 inches

Hind Shoes weigh about ¼ of an ounce less than front. In outside measurements vary about ⅓ of an inch.

Price per set (4), \$1.50.

C. & K. Steel

Light Racing.



Heavy Racing.



Light Training.



Heavy Training.



Trotting.



Light Racing	..... 3	oz., per foot
Heavy Racing	..... 3½	oz., per foot
Training	..... 4	oz., per foot
Trotting	..... 6½	oz., per foot

C. & K.
all
sizes, 30c.
pound.

CHAINS

Electric Welded Coil Chain



Sizes Carried in Stock.

$\frac{3}{16}$ exact	$\frac{1}{4}$ exact	$\frac{1}{4}$ full	$\frac{5}{16}$ full	$\frac{3}{8}$ full	$\frac{7}{16}$ full	$\frac{1}{2}$ full	Size, in.
46	63	75	110	155	200	260	Wt. per 100 ft.
\$34.00	\$28.00	\$25.00	\$21.00	\$19.00	\$18.60	\$18.30	Price per 100 lbs.

Plain or Fire Weld

Sizes $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ in. Prices on application.

Anti-spreader Chains

For Wagon Boxes.

No. 1-0 Chain for 38-in grain boxes. Price, dozen, \$2.60.

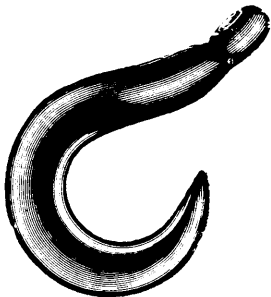
Log Chains



Complete with Slide and Grab Hooks and Swivel in Centre.

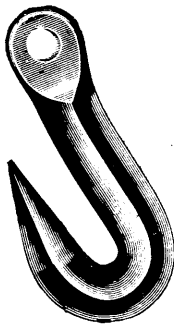
Size	Weight	Proof Test	Price, each
$\frac{7}{16}$ x 14'	17 lbs.	5,000 lbs.	\$3.00
$\frac{3}{4}$ x 14'	24 lbs.	6,000 lbs.	3.50

Chain Hooks



Slide Hooks

For Chain	Price, each
$\frac{5}{16}$ "	\$0.27
$\frac{3}{8}$ "	.36
$\frac{7}{16}$ "	.45
$\frac{1}{2}$ "	.60



Grab Hooks

For Chain	Price, each
$\frac{5}{16}$ "	\$0.27
$\frac{3}{8}$ "	.36
$\frac{7}{16}$ "	.45
$\frac{1}{2}$ "	.60

Carriage Bolts



Manufacturers' Standard List.

Price per Hundred

Length under the head, inches	Diam. $\frac{1}{4}$ inch	Diam. $\frac{5}{16}$ inch	Diam. $\frac{3}{8}$ inch	Diam. $\frac{7}{16}$ inch	Diam. $\frac{1}{2}$ inch	Diam. $\frac{9}{16}$ and $\frac{5}{8}$ inch	Diam. $\frac{3}{4}$ inch
1½	\$1 00	\$1 40	\$1 90	\$2 20			
2	1 10	1 52	2 06	2 40			
2½	1 20	1 64	2 22	2 60	\$ 3 25	\$ 5 75	\$ 8 50
3	1 30	1 76	2 38	2 80	3 53	6 13	9 00
3½	1 40	1 88	2 54	3 00	3 81	6 51	9 50
4	1 50	2 00	2 70	3 20	4 09	6 89	10 00
4½	1 60	2 12	2 86	3 40	4 37	7 27	10 50
5	1 70	2 24	3 02	3 60	4 65	7 65	11 00
5½	1 80	2 36	3 18	3 80	4 93	8 03	11 50
6	1 90	2 48	3 34	4 00	5 21	8 41	12 00
6½	2 00	2 60	3 50	4 20	5 49	8 79	12 50
7	2 10	2 72	3 66	4 40	5 77	9 17	13 00
7½	2 20	2 84	3 82	4 60	6 05	9 55	13 50
8	2 30	2 96	3 98	4 80	6 33	9 93	14 00
8½	2 40	3 08	4 14	5 00	6 61	10 31	14 50
9	2 50	3 20	4 30	5 20	6 89	10 69	15 00
9½	2 60	3 32	4 46	5 40	7 17	11 07	15 50
10	2 70	3 44	4 62	5 60	7 45	11 45	16 00
11	2 90	3 68	4 94	6 00	8 01	12 21	17 00
12	3 10	3 92	5 26	6 40	8 57	12 97	18 00
13	3 30	4 16	5 58	6 80	9 13	13 73	19 00
14	3 50	4 40	5 90	7 20	9 69	14 49	20 00
15	3 70	4 64	6 22	7 60	10 25	15 25	21 00
16	3 90	4 88	6 54	8 00	10 81	16 01	22 00
17	4 10	5 12	6 86	8 40	11 37	16 77	23 00
18	4 30	5 36	7 18	8 80	11 93	17 53	24 00
19	4 50	5 60	7 50	9 20	12 49	18 29	25 00
20	4 70	5 84	7 82	9 60	13 05	19 05	26 00

Sleigh Shoe Bolts

With Tire Bolt Heads

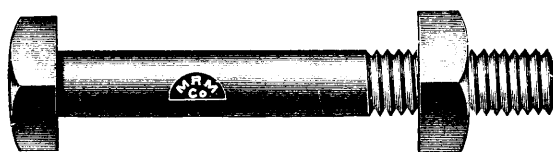


Manufacturers' Standard List.

Price per 100

Diam. inches	1½	2	2½	3	3½	4	4½	5	5½	6	6½	7	7½
$\frac{1}{4}$	\$1 00	\$1 10	\$1 20	\$1 30									
$\frac{5}{16}$	1 40	1 52	1 64	1 76	\$1 88	\$2 00							
$\frac{3}{8}$				2 38	2 54	2 70	\$2 86	\$3 02	\$3 18	\$3 34	\$3 50	\$3 65	\$3 82
$\frac{7}{16}$						3 20	3 40	3 60	3 80	4 00	4 20	4 40	4 60

Machine Bolts



Manufacturers' Standard List.

Price per 100

Length in ins.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$ and $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
$1\frac{1}{2}$	\$1 70	\$2 00	\$2 40	\$2 80	\$ 3 60	\$ 5 20	\$ 7 70	\$10 50	\$15 10	\$22 50	\$30 00
2	1 78	2 12	2 56	3 00	3 86	5 58	8 25	11 20	16 00	23 70	31 50
$2\frac{1}{2}$	1 86	2 24	2 72	3 20	4 12	5 96	8 80	11 90	16 90	24 90	33 00
3	1 94	2 36	2 88	3 40	4 38	6 34	9 35	12 60	17 80	26 10	34 50
$3\frac{1}{2}$	2 02	2 48	3 04	3 60	4 64	6 72	9 90	13 30	18 70	27 30	36 00
4	2 10	2 60	3 20	3 80	4 90	7 10	10 45	14 00	19 60	28 50	37 50
$4\frac{1}{2}$	2 18	2 72	3 36	4 00	5 16	7 48	11 00	14 70	20 50	29 70	39 00
5	2 26	2 84	3 52	4 20	5 42	7 86	11 55	15 40	21 40	30 90	40 50
$5\frac{1}{2}$	2 34	2 96	3 68	4 40	5 68	8 24	12 10	16 10	22 30	32 10	42 00
6	2 42	3 08	3 84	4 60	5 94	8 62	12 65	16 80	23 20	33 30	43 50
$6\frac{1}{2}$	2 50	3 20	4 00	4 80	6 20	9 00	13 20	17 50	24 10	34 50	45 00
7	2 58	3 32	4 16	5 00	6 46	9 38	13 75	18 20	25 00	35 70	46 50
$7\frac{1}{2}$	2 66	3 44	4 32	5 22	6 72	9 76	14 30	18 90	25 90	36 90	48 00
8	2 74	3 56	4 48	5 40	6 98	10 14	14 85	19 60	26 80	38 10	49 50
9	2 90	3 80	4 80	5 80	7 50	10 90	15 95	21 00	28 60	40 50	52 50
10	3 06	4 04	5 12	6 20	8 02	11 66	17 05	22 40	30 40	42 90	55 50
11	3 22	4 28	5 44	6 60	8 54	12 42	18 15	23 80	32 20	45 30	58 50
12	3 38	4 52	5 76	7 00	9 06	13 18	19 25	25 20	34 00	47 70	61 50
13			6 08	7 40	9 58	13 94	20 35	26 60	35 80	50 10	64 50
14			6 40	7 80	10 10	14 70	21 45	28 00	37 60	52 50	67 50
15			6 72	8 20	10 62	15 46	22 55	29 40	39 40	54 90	70 50
16			7 04	8 60	11 14	16 22	23 65	30 80	41 20	57 30	73 50
17					11 66	16 98	24 75	32 20	43 00	59 70	76 50
18					12 18	17 74	25 85	33 60	44 80	62 10	79 50
19					12 70	18 50	26 95	35 00	46 60	64 50	82 50
20					13 22	19 26	28 05	36 40	48 40	66 90	85 50

Tire Bolts



Manufacturers' Standard List.

Price per 100

Length, inches	$\frac{1}{8}$ and $\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$
$1\frac{1}{2}$	\$0 60	\$0 95	\$1 40
$1\frac{3}{4}$	65	1 00	1 40
2	70	1 05	1 47
$2\frac{1}{4}$	75	1 10	1 54
$2\frac{1}{2}$	80	1 15	1 61
$2\frac{3}{4}$	85	1 20	1 68
3	90	1 25	1 75
$3\frac{1}{4}$	95	1 30	1 82
$3\frac{1}{2}$	1 00	1 35	1 89
$3\frac{3}{4}$		1 40	1 96
4		1 45	2 03

Plow Bolts



No. 1. Key Head



No. 3. Round Head
Square Shank



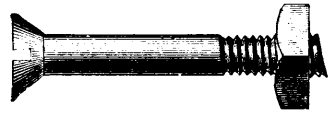
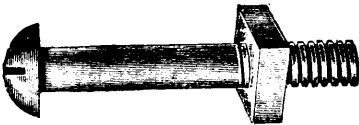
No. 7. Reverse Head

Manufacturers' Standard List.

Price per 100

Length inch	Diam. $\frac{3}{8}$ per 100	Diam. $\frac{1}{2}$ per 100	Diam. $\frac{3}{4}$ per 100	Diam. $\frac{1}{2}$ per 100	Diam. $\frac{3}{4}$ per 100
$1\frac{1}{4}$	\$2 00	\$2 60			
$1\frac{1}{2}$	2 10	2 75	\$3 70		
$1\frac{3}{4}$	2 20	2 90	3 90		
2	2 30	3 05	4 10	\$5 25	\$6 60
$2\frac{1}{4}$	2 40	3 20	4 30	5 50	6 90
$2\frac{1}{2}$	2 50	3 35	4 50	5 75	7 20
$2\frac{3}{4}$	2 60	3 50	4 70	6 00	7 50
3	2 70	3 65	4 90	6 25	7 80

Stove Bolts



Price List Round or Flat Heads

Price per 100

Size	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$
$\frac{3}{4}$	\$0 85	\$1 20	\$1 75	\$2 65
1	90	1 30	1 85	2 75
$1\frac{1}{8}$	95	1 35	1 90	2 85
$1\frac{1}{4}$	1 00	1 40	1 95	2 90
$1\frac{3}{8}$	1 05	1 45	2 00	3 00
$1\frac{1}{2}$	1 10	1 50	2 05	3 10
$1\frac{3}{4}$	1 15	1 55	2 15	3 20
2	1 20	1 60	2 30	3 40
$2\frac{1}{4}$	1 25	1 70	2 40	3 60
$2\frac{1}{2}$	1 30	1 80	2 50	3 80
3	1 50	2 00	2 70	4 20

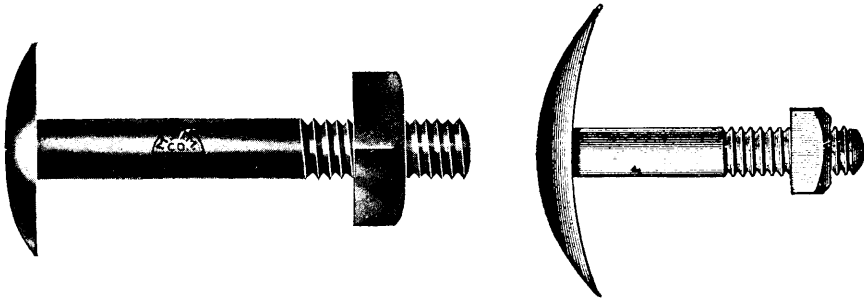
Assorted Stove Bolts

100 in Package

Flat Head— $\frac{3}{16}$ and $\frac{1}{4}$ diameter, assorted $\frac{1}{2}$ to $1\frac{1}{4}$ long. Per Package 60c.

Round Head— $\frac{3}{16}$ and $\frac{1}{4}$ diameter, assorted $\frac{1}{2}$ to $1\frac{1}{4}$ long. Per Package, 60c.

Shaft and Step Bolts



Step Bolt

Size.....	$\frac{3}{4} \times 1 \frac{1}{4}$	$1 \frac{1}{2}$
Price per 100.....	3.10	3.20

Shaft Bolt

$1 \frac{3}{4}$	2	$2 \frac{1}{4}$	$2 \frac{1}{2}$
3.30	3.40	3.50	3.60

Coach Screws or Skein Bolts



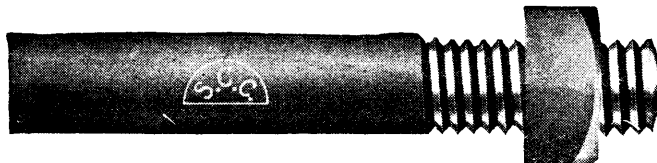
Manufacturers' Standard List.

Adopted January 1, 1909.

Price per 100

Length inches	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$ and $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
$1 \frac{1}{2}$	\$2 25	\$2 70	\$3 15	\$ 3 75				
2	2 45	2 98	3 47	4 11	\$ 6 00			
$2 \frac{1}{2}$	2 65	3 22	3 79	4 47	6 50	\$ 9 20		
3	2 85	3 48	4 11	4 83	7 00	9 90	\$15 00	
$3 \frac{1}{2}$	3 05	3 74	4 43	5 19	7 50	10 60	16 00	\$22 00
4	3 25	4 00	4 75	5 55	8 00	11 30	17 00	23 30
$4 \frac{1}{2}$	3 45	4 26	5 07	5 91	8 50	12 00	18 00	24 60
5	3 65	4 52	5 39	6 27	9 00	12 70	19 00	25 90
$5 \frac{1}{2}$	3 85	4 78	5 71	6 63	9 50	13 40	20 00	27 20
6	4 05	5 04	6 03	6 99	10 00	14 10	21 00	28 50
$6 \frac{1}{2}$			6 35	7 35	10 50	14 80	22 00	29 80
7			6 67	7 71	11 00	15 50	23 00	31 10
$7 \frac{1}{2}$			6 99	8 07	11 50	16 20	24 00	32 40
8			7 31	8 43	12 00	16 90	25 00	33 70
9			7 95	9 15	13 00	18 30	27 00	36 30
10				9 87	14 00	19 70	29 00	38 90
11				10 59	15 00	21 10	31 00	41 50
12				11 31	16 00	22 50	33 00	44 10

Bolt Ends



With Square Nuts

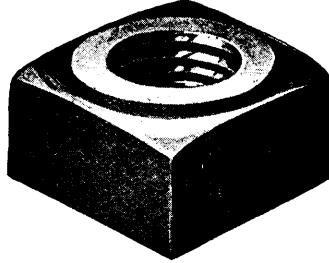
Manufacturers' Standard List.

Diam. inches...	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1 \frac{1}{8}$	$1 \frac{1}{4}$	$1 \frac{3}{8}$	$1 \frac{1}{2}$
Price per lb...	.14	.12	.10	.10	.10	.10	.11	.11	.11

Unless otherwise ordered, standard lengths will be supplied.
Add 10% to list for Hexagon nuts.

HOT PRESSED WROUGHT NUTS

Square



Price per pound

Size for bolt, in.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$ and larger
Tapped	.20	.18	.16	.15	.14	.14	.13 $\frac{1}{2}$	.13

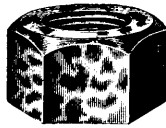
Hexagon



Price per pound

Size for bolt, in.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$ and larger
Tapped	.31	.24	.21	.19	.18 $\frac{1}{2}$	.18	.17 $\frac{1}{2}$	.17

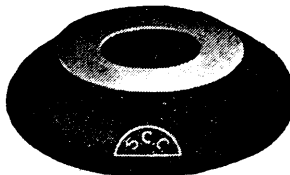
Semi-finished Hexagon Nuts



Manufacturers' Standard List.

Size for bolt, in.	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Price, each	.02	.02 $\frac{1}{2}$	.03 $\frac{1}{4}$	.03 $\frac{3}{4}$	.04 $\frac{1}{2}$	.05 $\frac{1}{2}$	.06 $\frac{1}{2}$	.08 $\frac{1}{2}$	.08 $\frac{1}{2}$	.12	.16 $\frac{1}{2}$	.22	.30

Cast Iron Washers



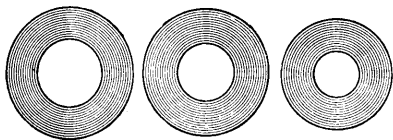
Size of bolt, in.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	2
Approx. weight, lbs. per 100	60	70	80	125	170	225	300	500	

Price per lb., 10c.



WASHERS
Wrought

Size of Bolt, in.	Price per lb.
$\frac{1}{4}$	20c.
$\frac{5}{16}$	18c.
$\frac{3}{8}$	16c.
$\frac{7}{16}$	15c.
$\frac{1}{2}$	14½c.
$\frac{9}{16}$	14½c.
$\frac{5}{8}$	14c.
$\frac{3}{4}$	14c.
and larger.	



Thin Steel Washers or Iron Burrs

For Tire Bolts.
In One-Pound Papers.

Sizes, in.	$\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$
Price per lb.	36c.

New List on Lock Washers

S. A. E.—Light
Size Steel

Size Bolt, Inch	Width, Inch	Thickness, Inch	Price Per M.
$\frac{3}{16}$	$\frac{1}{16}$	$\frac{3}{64}$	\$1.35
$\frac{1}{4}$	$\frac{5}{64}$	$\frac{1}{16}$	2.70
$\frac{5}{16}$	$\frac{1}{8}$	$\frac{3}{32}$	5.00
$\frac{3}{8}$	$\frac{1}{8}$	$\frac{3}{32}$	5.70
$\frac{7}{16}$	$\frac{11}{64}$	$\frac{1}{8}$	9.70
$\frac{1}{2}$	$\frac{11}{64}$	$\frac{1}{8}$	10.35
$\frac{9}{16}$	$\frac{13}{64}$	$\frac{5}{32}$	14.35
$\frac{5}{8}$	$\frac{13}{64}$	$\frac{5}{32}$	15.33
$\frac{11}{16}$	$\frac{1}{4}$	$\frac{3}{16}$	35.00
$\frac{3}{4}$	$\frac{1}{4}$	$\frac{3}{16}$	36.88
$\frac{7}{8}$	$\frac{17}{64}$	$\frac{2}{16}$	42.50
1	$\frac{5}{16}$	$\frac{1}{4}$	61.78

Lock Washers



ASSORTED LOCK
WASHERS

Put up in boxes containing 39 assorted sizes, $\frac{3}{16}$ light to $\frac{5}{8}$ in. heavy type.

Per Doz. Boxes, \$3.75.

WOOD SCREWS



FLAT HEAD, BRIGHT

Manufacturers' Standard List.												Price Per Gross.							
No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
In.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
$\frac{1}{4}$	72	72	72	72	72														
$\frac{3}{8}$	72	72	72	72	72	75	78	82	88	94									
$\frac{1}{2}$		72	72	72	72	75	78	80	84	90	96	105	110	120					
$\frac{5}{8}$			72	72	72	75	78	82	86	92	98	107	112	120	125	130			
$\frac{3}{4}$				72	75	78	82	85	90	95	100	110	115	125	135	150	165	180	
$\frac{7}{8}$					74	78	82	85	90	94	100	105	115	125	135	145	155	175	200
1						80	84	87	92	98	105	110	120	130	140	160	170	200	250
$1\frac{1}{4}$							92	98	105	110	115	120	130	140	155	170	190	215	275
$1\frac{1}{2}$								110	115	120	130	135	140	150	165	180	200	235	320
$1\frac{3}{4}$									130	133	145	150	155	160	170	180	200	225	400
2										145	150	155	160	165	175	185	200	220	420
$2\frac{1}{4}$											155	160	165	175	185	195	205	220	455
$2\frac{1}{2}$												190	200	210	220	230	240	250	470
$2\frac{3}{4}$													240	260	270	280	290	300	500
3																			550

DRIVE SCREWS

Manufacturers' Standard List.

Size, in.	$\frac{3}{4}$ x8	$\frac{7}{8}$ x9	1x9	1x10	$1\frac{1}{4}$ x10
Price Per Gross.	95c.	\$1.05	\$1.10	\$1.20	\$1.30

RIVETS

In 5-pound Packages

Round Head



$\frac{3}{16}$ in. Diameter.
 $\frac{1}{4}$ in. "
 $\frac{5}{16}$ in. "
 $\frac{3}{8}$ in. "

Sizes Carried in Stock.

$\frac{1}{2}$ to 4 in. Long.
 $\frac{1}{2}$ to 4 $\frac{1}{2}$ in. "
 $\frac{3}{4}$ to 4 $\frac{1}{2}$ in. "
 $\frac{3}{4}$ to 4 $\frac{1}{2}$ in. "

Wagon Box Head



Price per lb., 21c.
 " " " 21c.
 " " " 21c.
 " " " 21c.

Wheel Rivets



No. 0
 $1\frac{9}{16}$
 $\frac{3}{16}$

No. 1
 $1\frac{5}{8}$
 $\frac{7}{32}$

No. 3
 $1\frac{3}{4}$
 $\frac{7}{32}$

No. 9
 $1\frac{11}{16}$
 $\frac{1}{4}$

No. 13
 $2\frac{1}{8}$
 $\frac{9}{32}$

No. 21
 $2\frac{3}{4}$
 $\frac{9}{32}$

No. 33
 $2\frac{3}{8}$
 $\frac{5}{16}$

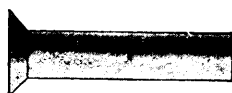
in. Long.
 in. Diameter.

All sizes. Price per lb., 21c.

Assorted, in 5-lb. packages, Nos. 0 to 21. Price per lb., 21c.



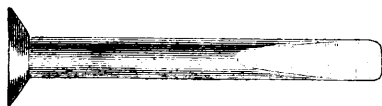
Section Rivets



In 1-pound Packages.

No. 5 $\frac{1}{2}$. Bung Head. $\frac{3}{8}$ to 1 $\frac{1}{2}$ in. Long. Price per lb., 24c.
 No. 5 $\frac{1}{2}$. Countersunk Head. $\frac{3}{8}$ to 1 $\frac{1}{2}$ in. Long. Price per lb., 24c.
 No. 6. Countersunk Head. $\frac{3}{8}$ to 1 $\frac{1}{2}$ in. Long. Price per lb., 24c.

Chisel Point Nails



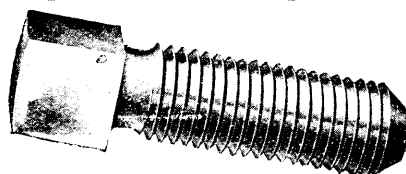
Countersunk Head. $\frac{3}{16}$ in. Diameter. 1 to 2 in. Long.
 $\frac{1}{4}$ in. " 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ in. "
 Round Head. $\frac{3}{16}$ in. " 1 to 2 in. "
 $\frac{1}{4}$ in. " 1 $\frac{1}{4}$ to 2 $\frac{1}{2}$ in. "

Price per lb., 18c.

Assorted, in 5-lb. Packages. Per lb., 18c.

Iron Set Screws

Square Head, Cup Point



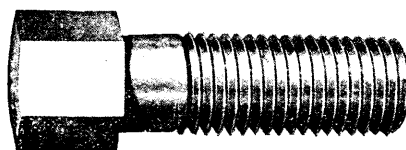
Manufacturers' Standard List.

Price per 100

Diameter of Screw	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
$\frac{3}{4}$	\$2 00	\$2 20	\$2 50	\$2 90	\$ 3 40	\$ 5 00	\$ 5 00			
1	2 15	2 35	2 65	3 10	3 80	5 75	5 75	\$10 00		
$1\frac{1}{4}$	2 30	2 50	2 85	3 50	4 30	6 50	6 50	11 00	\$15 50	
$1\frac{1}{2}$	2 50	2 70	3 10	4 00	4 80	7 25	7 25	12 00	16 20	\$22 00
$1\frac{3}{4}$	2 75	3 00	3 50	4 50	5 40	8 00	8 00	12 80	17 70	24 00
2	3 25	3 50	4 00	5 15	6 00	8 80	8 80	13 60	19 20	26 00
$2\frac{1}{4}$	3 75	4 00	4 50	5 75	6 75	9 60	9 60	14 50	20 70	28 00
$2\frac{1}{2}$	4 25	4 50	5 00	6 35	7 50	10 40	10 40	15 40	22 20	30 00
$2\frac{3}{4}$	4 75	5 00	5 50	6 75	8 25	11 20	11 20	16 30	23 70	32 00
3	5 25	5 50	6 00	7 20	9 00	12 00	12 00	17 30	25 20	34 00
$3\frac{1}{4}$	5 75	6 10	6 70	7 60	9 75	12 75	12 75	18 40	26 70	36 00
$3\frac{1}{2}$	6 25	6 70	7 40	8 00	10 50	13 50	13 50	19 50	28 20	38 00

Iron Cap Screws

Square or Hexagon Head

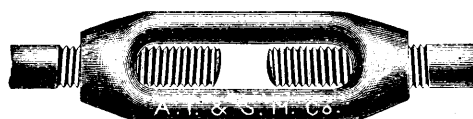


Manufacturers' Standard List.

Price per 100

Diameter of Screw	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
$\frac{3}{4}$	\$3 00	\$3 25	\$3 75	\$4 50	\$ 5 70					
1	3 25	3 50	4 00	4 90	5 90	\$ 9 25	\$ 9 25			
$1\frac{1}{4}$	3 50	3 75	4 25	5 30	6 50	9 50	9 50	\$12 50		
$1\frac{1}{2}$	3 75	4 00	4 50	5 70	7 10	10 00	10 00	13 50	\$18 40	
$1\frac{3}{4}$	4 00	4 25	4 85	6 10	7 70	10 75	10 75	14 50	19 70	\$22 75
2	4 25	4 85	5 20	6 50	8 30	11 50	11 50	15 50	21 00	25 00
$2\frac{1}{4}$	4 70	5 35	5 55	7 15	8 90	12 60	12 60	16 50	22 40	27 25
$2\frac{1}{2}$	5 25	5 80	6 00	7 50	9 50	13 60	13 60	17 50	23 70	29 50
$2\frac{3}{4}$	5 75	6 30	6 65	7 90	10 10	14 40	14 40	19 00	25 00	31 75
3	6 25	6 80	7 20	8 40	10 70	15 20	15 20	20 60	26 40	34 00
$3\frac{1}{4}$	6 80	7 40	7 85	9 15	11 50	16 00	16 00	22 10	28 20	36 25
$3\frac{1}{2}$	7 35	8 00	8 50	9 75	12 30	17 30	17 30	23 70	30 00	38 50

Turnbuckles



Size	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$
Each	.45	.50	.63	.75	.88	1.00	1.25	1.38	1.50	2.00

MALLEABLES

Whiffletree Ferrules



No. 5. Closed End

Two Dozen on String.

B	C
$\frac{7}{8}$	1 in. Inside Large End.
1	$1\frac{1}{8}$ in. Deep.
$\frac{7}{16}$	$\frac{7}{16}$ in. Cockeye Hole.

Price per lb., 28c.

No. 15. Open End

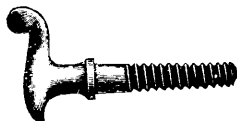
Two Dozen on String.

C	D	E	F	G	H	J
$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in. Inside Small End.
$\frac{13}{16}$	$\frac{15}{16}$	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{1}{2}$	$1\frac{3}{8}$ in. Inside Large End.
$\frac{7}{8}$	1	1	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{3}{8}$	$1\frac{3}{8}$ in. Deep.

Price per lb., 28c.

Cut shows open end.

Whiffletree Cockeyes



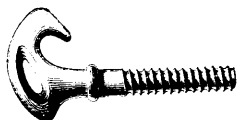
No. 67. Bent Pattern

A	B
$\frac{3}{8}$	$\frac{7}{16}$ in. Screw Shank.
3	$3\frac{1}{4}$ in. long over all.

Price per lb., 24c.

In pairs, right and left.

Whiffletree Cockeyes



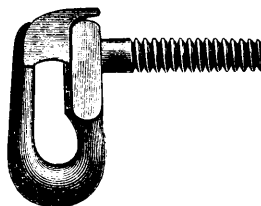
No. 75

Two Dozen on String.

A	B
$\frac{3}{8}$	$\frac{7}{16}$ in. Screw Shank.
$3\frac{1}{4}$	$3\frac{3}{4}$ in. long over all.

Price per lb., 24c.

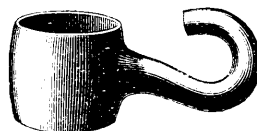
Whiffletree Hooks



No. 114

No. 114	A	B	D
Screw Shank, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{7}{16}$
Length, inches.....	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{8}$
Price per pair.....	.20	.30	.28

Whiffletree Hooks



No. 115

A	B	C	D	E
$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$ in. Diam. Small End.
$1\frac{3}{16}$	$1\frac{5}{16}$	$1\frac{7}{16}$	$1\frac{9}{16}$	$1\frac{3}{4}$ in. Diam. Large End.
$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$ in. Deep.

Used with Spring No. 116.

Price per lb., 24c.

Whiffletree Hooks



No. 153

$\frac{7}{8}$ in. Wide.
 $1\frac{1}{8}$ and $1\frac{1}{2}$ in. Between Clips.
 5 in. Length of Clips.
 $6\frac{1}{4}$ in. entire Length.

Price per lb., 24c.

Whiffletree Hook Spring



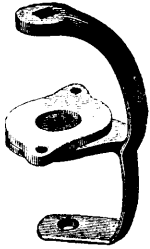
No. 116. Steel

Per pair, 30c.

Used with No. 115 Hooks.

MALLEABLES

Whiffletree Clevises



No. 632. For Shafts

C
1½x2 in. Cross Bar.
1½ in. Whiffletree.
5/16 in. Bolt.
1/8 in. Depth of Plate.

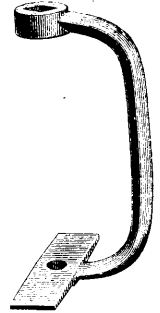
No. 633. For Poles, with Check Loop
Price per lb., 24c.

No. 635

Two Dozen on String.

B	C	G
3¾	4¼	4½ in. Inside.
5/16	7/16	7/16 in. Bolt.

Price per lb., 24c.



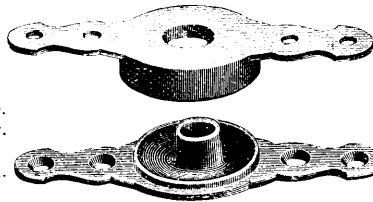
Whiffletree Couplings

No. 695

Low Pattern
Cut Shows High Pattern.

C	D	E	F	G	H	J	
1¾	2	2½	2¼	2½	2¾	3	in. Wide.
4¾	47/8	5½	5¾	5¾	6¼	6½	in. Long.
3/8	3/8	7/16	7/16	7/16	7/16	7/16	in. Bolt.
3/8	7/16	7/16	7/16	7/16	9/16	5/8	in. High.

Price per lb., 24c.

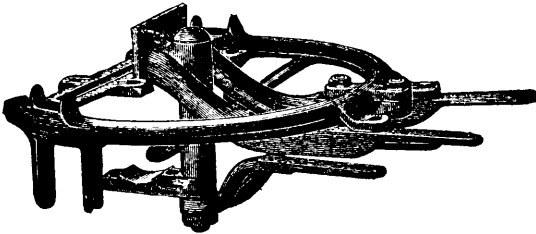


No. 700. High Pattern
Cut Shows High Pattern.

C	A	B	E	
1¾	17/8	2¼	2½	in. Wide.
5	47/8	5½	5¾	in. Long.
3/8	3/8	7/16	7/16	in. Bolt.
5/8	5/8	3/4	3/4	in. High.

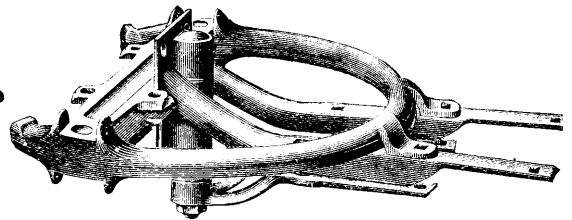
Price per lb., 24c.

Fifth Wheels



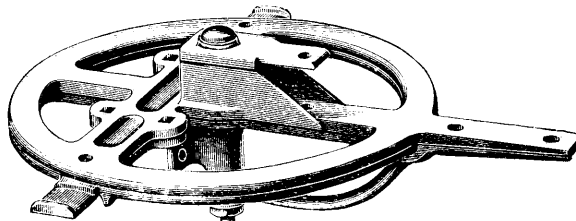
No. 440. Buggy Circle

	A	C
Circle	10	10
Reach	Single	Double
Price, each	1.35	1.35



No. 947. Buggy Circle

Single Perch		Double Perch	
A	B	C	D
10	12	10	12 in. Circle.
1¼	1½	1¼	1½ in. Head Block.
1¼	1¾	1¼	1¾ in. Axle Bearing.
7/8	1	¾	7/8 in. Perch.
1.35	1.75	1.35	1.75 Each.

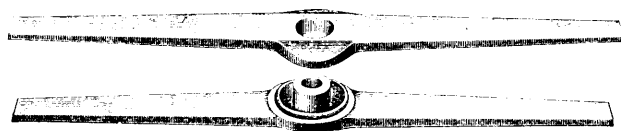


No. 890. Democrat Circle
For Light, Medium and Heavy Spring Wagons.

A	B	C	D	E	
10x¾x1¼	11x7/8x15/16	12x1x3/8	13x1½x7/16	14x1¾x1/2	in. Circle.
1¼	1½	1½	1¾	2	in. Head Block.
1	1½	1¾	1¾	1½	in. Axle Bearing.
1	1½	1¾	1½	1¾	in. Perch.
7/16	7/16	1½	1½	1½	in. King Bolt.
3/8	3/8	3/8	7/16	1½	in. Spring Clip Holes.
4	4	4	4	4½	in. c. to c. of Clip Holes.
2.75	3.00	3.75	4.75	5.50	Each.

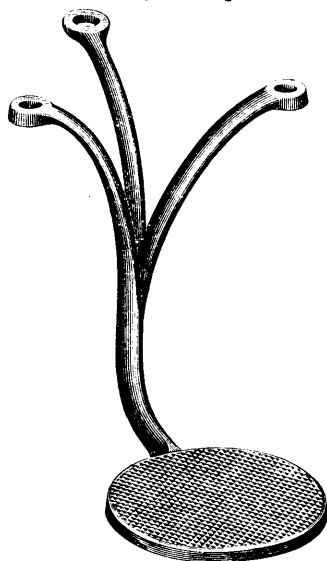
MALLEABLES

Platform Bolster Plates



No. 731					
A	B	C	D	E	
21	23	25	26 3/4	29	in. Long.
1 1/2	1 3/4	2	2 1/4	2 1/2	in. Bed.
5/8	1 1/16	1 1/16	1 1/16	1	in. King Bolt.
.24	.24	.24	.24	.24	Per Lb.

Buggy Steps

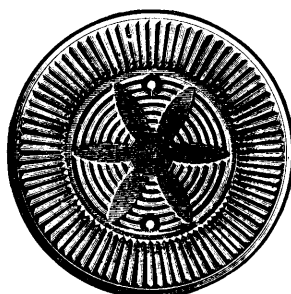


No. 1930F

6 1/2 in. Drop.
6 in. Projection.
3 5/8 x 5 in. Pad.
6 in. c. to c. of Holes.

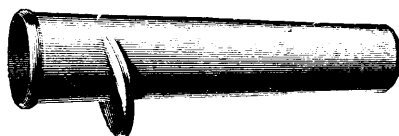
Price per lb., 24c.

Step Plates



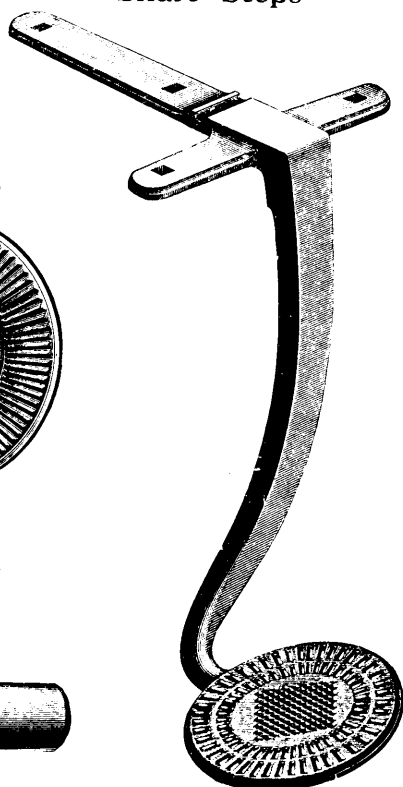
No. 1726D
3 1/2 inches.
Price per lb., 24c.

Pole Tips



No. 3850				
A	B	C	D	E
1 1/4	1 3/8	1 1/2	1 5/8	1 3/4 in. Diam. Inside End.
1 1/2	1 5/8	1 3/4	1 7/8	2 in. Diam. Outside End.
7	7	7	7	7 in. Long.
Price per lb., 24c.				

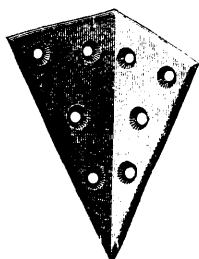
Shaft Steps



No. 1962

B
8 1/2"
6 1/2"
4 1/2"
5 1/2"
Price per lb., 24c.

Seat Corner Iron

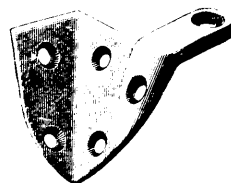


No. 4012

In Pairs,
Right and Left.

4 3/4 in. Long.
2 1/2 x 2 1/4 in. Wide.
63° Bevel.

Price per lb., 24c.



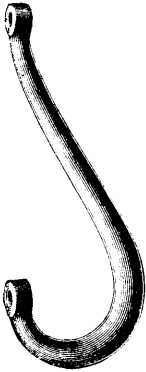
No. 4060

In Pairs, Right and Left.

B	C
1 1/4	1 3/4 in. projection to centre of Hole.
2	2 in. inside corner to c. of Lug.
Price per lb., 24c.	

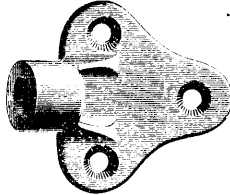
MALLEABLES

Seat Handles



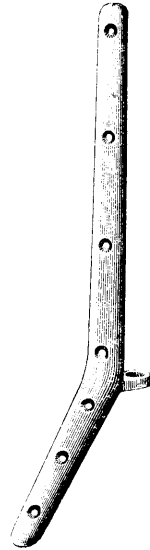
No. 4333 B
6 $\frac{1}{2}$ in. c. to c. of Holes.
8 $\frac{1}{2}$ in. entire length.
Price per lb., 24c.

Arm Rail Sockets



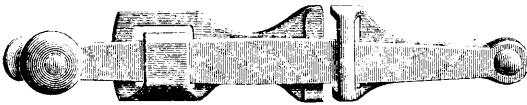
No. 4806 B
 $\frac{3}{4}$ in. Arm Rail.
Price per lb., 28c.

Lazy Back Irons



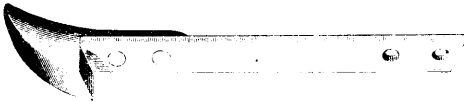
No. 4746 A
A
5 $\frac{3}{4}$ in. height of Panel.
11 $\frac{1}{2}$ in. height of Lazy Back.
1 $\frac{1}{4}$ in. Wide.
1 $\frac{3}{8}$ in. projection to c. of Hole.
52° Bevel.
Price per lb., 24c.

Perfection Door Latch

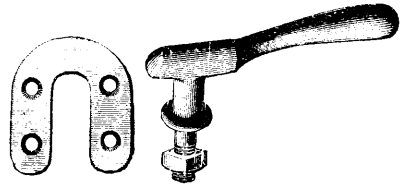


No. 5686
10 $\frac{3}{4}$ in. Long.
2 $\frac{1}{4}$ in. Wide.
Price, each, \$1.40.

End Gate Fasteners

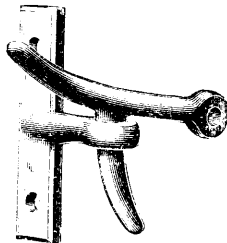


No. 5697
Steel Spring, Malleable End.
C D E
8 $\frac{7}{8}$ 7 $\frac{1}{8}$ 1 in. Panel.
9 $\frac{1}{4}$ 9 $\frac{3}{4}$ 9 $\frac{3}{4}$ in. Length of Spring.
.70 .70 .72 Per Pair.



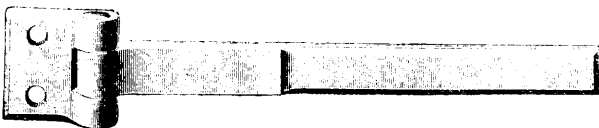
No. 5705
Comstock Pattern

No. 5710
A B
1 1 $\frac{1}{4}$ in. thick Gate.
Price per lb., 24c.



Handle.
4 $\frac{1}{2}$ in. Long.
1 $\frac{3}{8}$ in. Shank.
2 $\frac{3}{8}$ in. from inside of Handle
to end of Shank.
Threaded, with nuts.
Price per set, 12c.
Plate.
2 $\frac{1}{4}$ in. Long.
 $\frac{5}{8}$ in. Slot.

End Gate Hinges

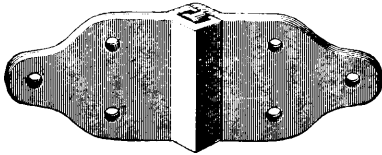


No. 5810
A B
9 13 in. Panel.
 $\frac{3}{4}$ 1 in. Wide.
Price per lb., 24c.

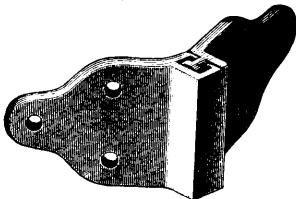
MALLEABLES

Stake Rack Fasteners

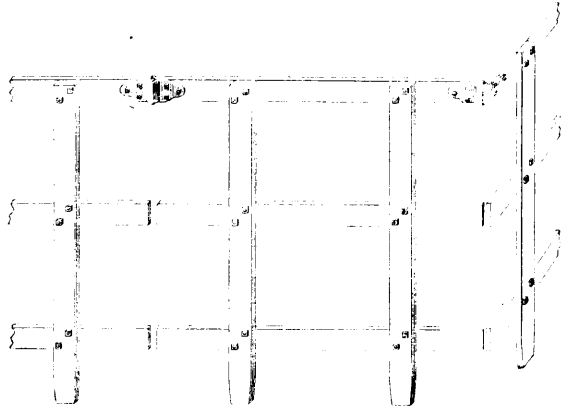
Position on Side Rack



A $2\frac{1}{2}$ in. Wide.
 B $8\frac{1}{2}$ in. Long.
 $\frac{1}{4}$ in. Bolts.
 Price per lb., 24c.



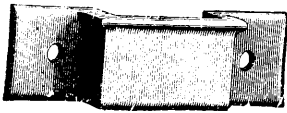
Position at Rear Corner



No. 5755

No. 5755 is a Universal Rack Fastener and may be used on Straight Sides or at Corners. Any section of the Rack may be removed independently.

Express Stake Pockets. No. 5990



A	B	C	F	G
1x2	$1\frac{1}{8} \times 2\frac{1}{4}$	$1\frac{1}{4} \times 2\frac{1}{2}$	$1\frac{1}{2} \times 2\frac{3}{4}$	$1\frac{3}{8} \times 3$ in. Stake.
$1\frac{3}{4}$	$1\frac{7}{8}$	2	$1\frac{7}{8}$	$1\frac{7}{8}$ in. Deep.
$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{16}$	$\frac{1}{16}$ in. Bolt.
$5\frac{3}{4}$	6	$6\frac{1}{4}$	$6\frac{1}{2}$	$6\frac{3}{4}$ in. length over all.

Box Rod Handle Nuts



No. 5910

A	B	C	D
$3\frac{3}{4}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$4\frac{1}{2}$ in. Long.
$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{16}$	$\frac{1}{2}$ in. Rod.
$\frac{1}{8}$	$\frac{15}{16}$	$1\frac{1}{16}$	$1\frac{1}{8}$ in. Width Flange.

Price per lb., 24c.

Wagon Box Staples



No. 6069

A	B	C	D	E
$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	1 in. Deep Inside.
$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	2 in. Wide Inside.
$3\frac{3}{8}$	$3\frac{3}{4}$	4	$4\frac{1}{2}$	$4\frac{1}{2}$ in. Long.
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$ in. Bolts.

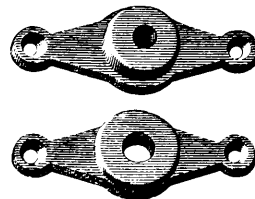
Box Rod Nuts and Washers

No. 5875

In Pairs.

B	C
$\frac{3}{8}$	$\frac{1}{16}$ in. Rod.
$3\frac{1}{8}$	$3\frac{3}{4}$ in. Long.

Price per lb., 24c.



MALLEABLES

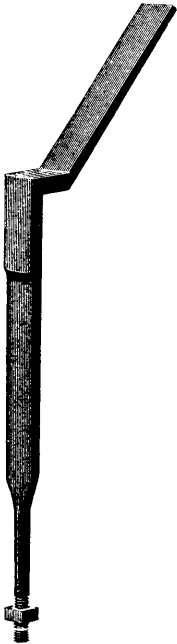
Body Brace and Flare Board Irons

No. 6103

B	C	D	
8 1/2	10	11	in. Panel.
1 1/8	1 1/8	1 1/4	in. Offset.
1 1/8 x 3	1 1/2 x 4 1/2	1 1/2 x 5 1/2	in. Shank.
1 1/8	1 1/4	1 1/4	in. Width of Strap.
6	6	7	in. Flare Board.
50°	50°	50°	Bevel.

Price per lb., 24c.

Furnished threaded, with Nuts, unless otherwise ordered.



No. 6103

Spring Wagon Body Braces

No. 6170

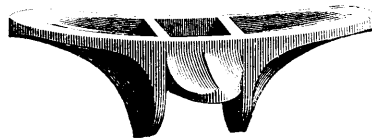
C	A
5	6 1/4 in. High from shoulder to flat part.
3	3 in. Length of flat part.
7/8	7/8 in. Wide.
3	3 in. Projection.
7/16	7/16 in. Shank.
2 1/4	2 1/2 in. Length of Shank.

Price per lb., 24c.



No. 6170

Spring Chairs

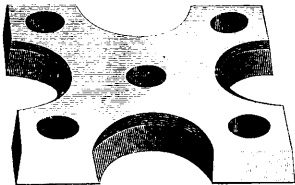


No. 6615

A	B	C	G	H	D	E	J	F	
1	1 1/8	1 1/8	1 1/8	1 1/4	1 1/4	1 1/4	1 3/8	1 3/8	in. Axle.
1 1/4	1 1/4	1 3/8	1 1/2	1 1/4	1 3/8	1 1/2	1 1/2	1 3/4	in. Spring.
5 1/4	5 1/4	5 3/8	5 1/2	5 1/2	5 5/8	5 5/8	5 5/8	6	in. Long.

Price per lb., 24c.

Spring Clip Tie Plates



No. 6665

A	B	C	D	E
1 1/2	1 3/4	1 3/4	1 3/4	2 in. Spring.
1 1/4	1 3/8	1 1/2	1 1/2	1 1/2 in. Axle.
3/8	7/16	7/16	7/16	7/16 in. Clip.
7/16	7/16	7/16	7/16	7/16 in. Thick.
3/8	1/2	1/2	1/2	1/2 in. Spring Bolt.

Price per lb., 24c.

Check Loops



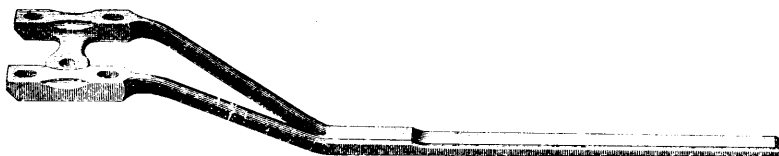
No. 6400

E	F
1 1/2	1 3/4 in. Loop.
3 1/4	3 1/2 in. Long.
1/4	1/4 in. Depth of Loop.

Price per lb., 26c.

MALLEABLES

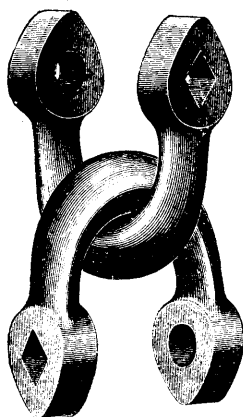
Spring Braces



No. 6674

B	C	D	E	F	K	H	
1 1/2	1 1/2	1 1/2	1 3/4	1 3/4	1 3/4	2	in. Spring.
1 3/16	1 1/16	1 3/16	1 1/4	1 1/4	1 1/2	1 1/4	in. width of Perch.
1 3/4	2 1/4	2 1/2	2 3/4	2 1/2	2	2 3/4	in. Drop.
1 5/16	3/4	1 1/16	1 1/2	1 1/16	1 1/16	1 1/2	in. Clip.
23	22	23	24	23	20 1/2	24	in. length over all.
4 1/2	4 1/2	4 1/2	4	4	5 1/2	4 1/2	in. c. to c. of Clip Hole.

Price per lb., 24c.



Spring Shackles

For Platform Springs.

No. 6780

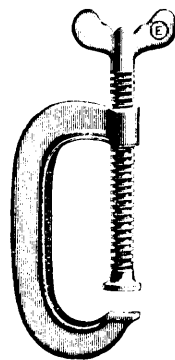
J	K	F	A	B	C	
1 1/2	1 3/4	1 3/4	2	2 1/4	2 1/2	in. between Ears.
3/8	7/16	1/2	1 1/2	2 1/8	2 1/8	in. Bolts

Price per lb., 24c.

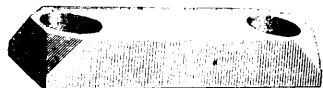
Screw Clamps

No. 7600. Malleable
Japanned Finish.

A	B	C	D	E	F	G	H	J	
2 1/2	3	4	5	6	7	8	10	12	in. opening.
1 1/2	1 1/2	2	2 1/8	2 3/8	2 1/2	3 1/2	4	4 1/2	in. clearance between Screw and Frame.
.40	.45	.60	.70	.90	1.10	1.45	2.00	2.40	Each.



Axle Clip Ties



No. 7115. 1 1/8" Clip

B	C	D	E	F	
1	1 1/8	1 3/4	1 3/8	1 1/2	in. Axle.

No. 7120. 3/4" Clip

A	B	C	D	E	
1 3/4	1 3/8	1 1/2	1 5/8	1 3/4	in. Axle.

Price per lb., 24c.

Spring Clip Ties



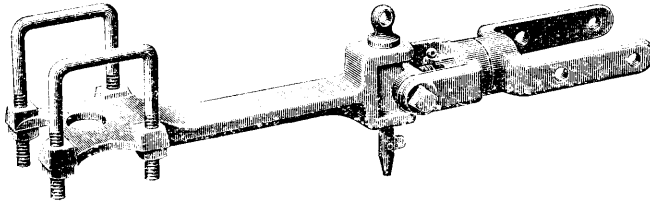
No. 7126

A	C	E	G	J	M	
1 1/2	1 3/4	2	2 1/4	2 1/2	3	in. Spring.
1 1/8	1 1/8	1 1/2	1 1/8	1 1/2	1 1/4	in. Clip

Price per lb., 24c.

MALLEABLES

Trailer Couplings.

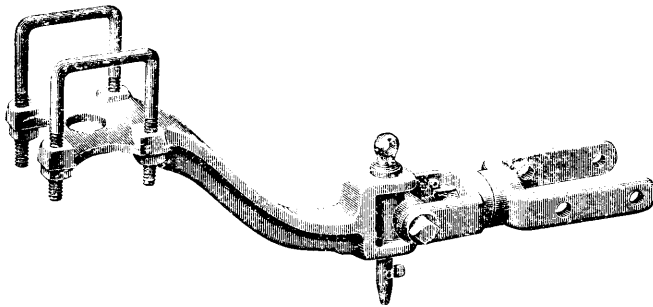


No. 9152

To Fit Spring Bar of Ford Car.

2 in. Spring Bar.
 $2\frac{1}{4}$ in. between Trailer Tongue Jaws.
 $\frac{3}{8}$ in. Bolts and $\frac{5}{16}$ Clips.

Price, each, \$3.00.



No. 9153

Same as No. 9152, except for 4-inch drop in arm.

Price, each, \$3.20.

Any Malleables required for Trailers or Special Bodies can be supplied at short notice.

SPRING SHACKLES

For Trailers, etc.



No. 6815

C	D
$1\frac{1}{2}$	$1\frac{3}{4}$ in. Spring.
$\frac{1}{16}$	$\frac{1}{16}$ in. Spring Bolt.
$\frac{1}{4}$	$\frac{1}{4}$ in. attaching Bolts.
5	$5\frac{1}{2}$ in. over all.



No. 6816

For loose end of spring to slide in	
C	D
$1\frac{1}{2}$	$1\frac{3}{4}$ in. Spring.
$\frac{1}{4}$	$\frac{1}{4}$ in. attaching Bolts.
6	6 in. over all.

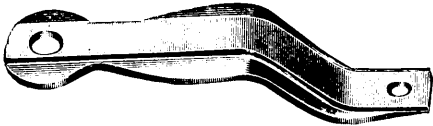
Steel Pole Caps



No. 3260

Price, each, 30c.

Steel Hammer Straps

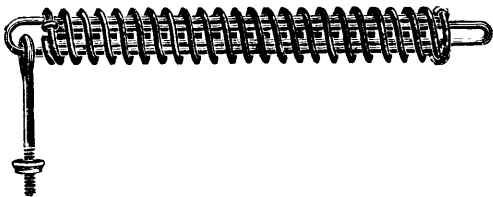


No. 3240

8 3/4 in. c. to c. of Hole.

Price, each, 30c.

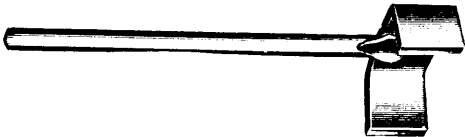
Improved Pole Spring



3/8 x 16 in.

Price, each, \$1.50.

Steel Wagon Wrenches



No. 3250

Opening	Shank	Price, Each
2 1/8 in.	5/8 x 9 in.	\$0.30
2 1/4 in.	5/8 x 9 in.	.30
2 3/8 in.	5/8 x 9 in.	.40
2 1/2 in.	5/8 x 9 in.	.40

Steel Wagon Box Side Braces



No. 3155

	Diameter	Length	Each
E	1/2 in.	12 in.	\$0.16
F	1/2 in.	14 in.	.18
B	1/2 in.	16 in.	.20

Steel Wagon Box Strap Bolts

No. 3150

STRAIGHT PATTERN



No. 3151

HOOKED PATTERN

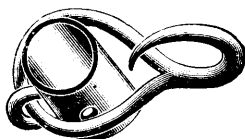


	Diameter of Shank	Length over all	Length Shank	Set of 8 Pieces
H	3/8 in.	14 in.	3 1/4 in.	\$1.25
K	3/8 in.	16 in.	3 1/4 in.	1.35
V	3/8 in.	18 in.	3 1/4 in.	1.60
X	3/8 in.	22 in.	3 1/4 in.	1.90

	Diameter of Shank	Length Under Hook	Set of 8 Pieces
G	3/8 in.	14 in.	\$1.45
K	3/8 in.	17 1/4 in.	1.75
M	3/8 in.	19 1/4 in.	1.90

Whiffletree Ferrules and Hooks

No. 3550. Back Pull

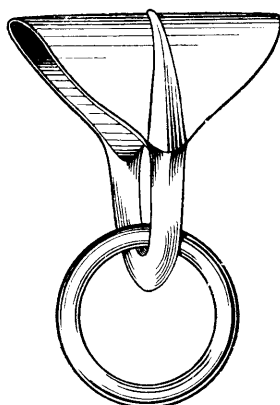


No. 3550	Diameter of Ferrule at Large End	Size of Steel in Hook	Per 100 Pieces
A	1 3/8"	3/8"	\$15.00
B	1 1/2"	3/8"	16.00
C	1 5/8"	3/8"	18.00
D	1 5/8"	7/16"	21.00
E	1 3/4"	7/16"	24.00
F	1 7/8"	7/16"	26.00

No. 3555. Front Pull



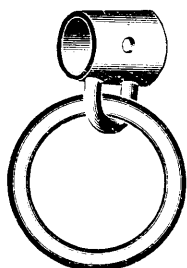
No. 3555	Diameter of Ferrule at Large End	Size of Steel in Hook	Per 100 Pieces
A	1 3/8"	3/8"	\$18.00
B	1 1/2"	3/8"	19.00
C	1 5/8"	3/8"	21.00
D	1 5/8"	7/16"	25.00
G	1 3/4"	3/8"	26.00
F	1 3/4"	7/16"	28.00
E	1 7/8"	7/16"	30.00



Center Clips Welded with Rings

No. 3520	Size of Round Part of Clip	Size of Steel in Ring	Per 100 Pieces
A	3/4"	5/8"	\$46.00
E	5/8"	9/16"	30.00
C	5/8"	1/2"	29.00
D	9/16"	1/2"	26.00
E	9/16"	7/16"	26.00
F	1 1/2"	7/16"	23.00
G	1 1/2"	3/8"	17.00

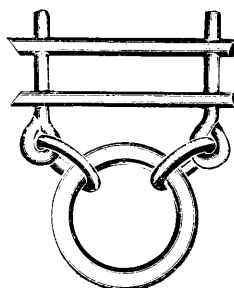
Neckyoke End Irons



No. 3605

	Dia. of Ferrule Large End	Per 100 Pieces
A	1 3/8"	\$14.00
B	1 1/2"	15.00
D	1 5/8"	19.00
F	1 3/4"	22.00
E	1 7/8"	24.00

Neckyoke Center Irons

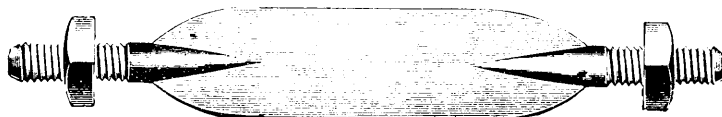


No. 3600

	Ring	Inside Diameter	Per 100 Pieces
A	9/16"	3 1/4"	\$50.00
C	9/16"	3 1/2"	54.00
B	5/8"	3 1/2"	62.00
D	9/16"	4"	62.00

Extra plates, per pair, 20c.

SUPERIOR AXLE CLIPS

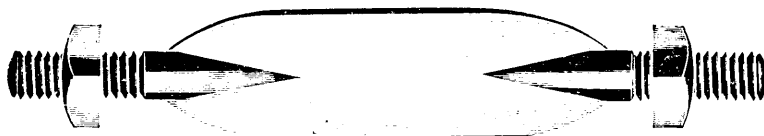


No. 1001

With $\frac{5}{16}$ -in. Shanks.

Length of Flat, in.....	2 $\frac{1}{4}$	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4 $\frac{1}{4}$	4 $\frac{3}{4}$	5 $\frac{1}{4}$	5 $\frac{1}{2}$
Price per 100.....	\$7.00	\$7.00	\$7.00	\$7.00	\$7.50	\$8.00	\$9.00	\$10.00	\$11.00	\$12.00

HEAVY AXLE CLIPS



No. 1005

With $\frac{3}{8}$ -in. Shanks.

Length of Flat, in.....	4	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6	6 $\frac{1}{2}$	7
Price per 100.....	\$11.00	\$12.50	\$14.00	\$15.50	\$17.00	\$18.50	\$20.00

SPRING BAR CLIPS

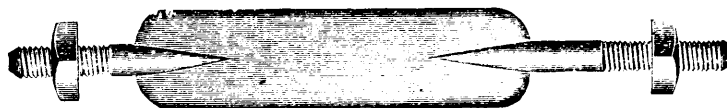


No. 1007

With $\frac{5}{16}$ -in. Shanks.

Length of Flat, in.....	3 $\frac{3}{4}$	4 $\frac{1}{4}$	4 $\frac{3}{4}$	5 $\frac{1}{2}$	5 $\frac{3}{4}$
Price per 100.....	\$9.75	\$10.75	\$11.75	\$12.75	\$13.75

BREWSTER SIDE BAR CLIPS



No. 1009

With $\frac{5}{16}$ -in. Shanks, Long End 2 in., Short End 1 $\frac{1}{4}$ in.

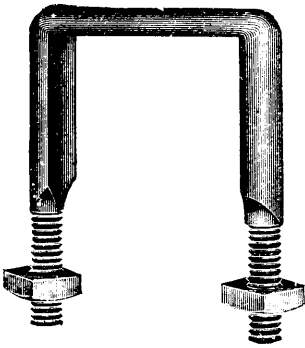
Length of Flat, in.....	3	3 $\frac{3}{4}$	4 $\frac{1}{4}$	4 $\frac{3}{4}$
Price per 100.....	\$8.00	\$9.50	\$10.50	\$11.50

CUTTER CLIPS

With $\frac{1}{4}$ -in. Shanks.

Length of Flat, in.....	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{2}$
Price per 100.....	\$7.00	\$7.25	\$7.50	\$8.00

All Clips packed 50 in a box.



SHORT SPRING CLIPS

No. 1019 With $\frac{5}{16}$ -inch Shanks

Size of Spring, in.....	1 $\frac{1}{4}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$
Length of Flat Part, in.....	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Price per 100.....	\$10.00	\$11.00	\$12.00

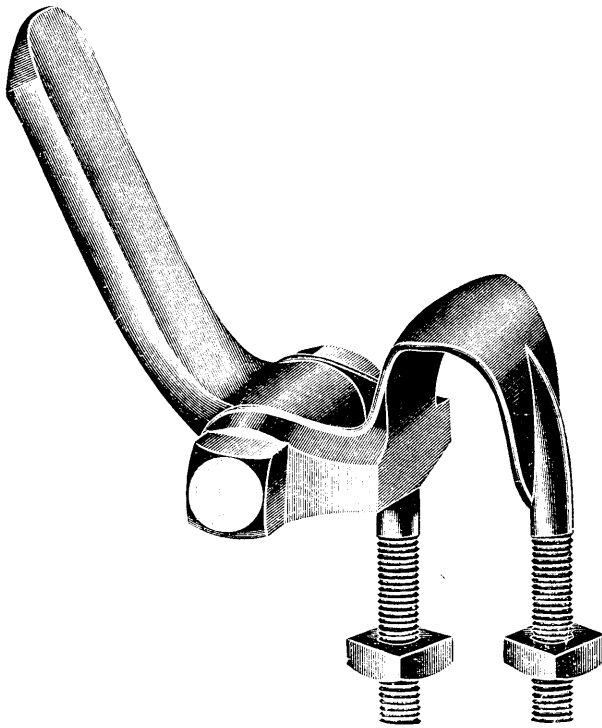
Packed 50 in a box.

3-PIECE SADDLE CLIPS

$\frac{5}{16}$ -in. Shanks. Set consists of Two Clips and One Flat Plate.

Length of Flat, in.....	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$
Width of Spring, in.....	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{4}$
Price per set.....	.24	.25	.25	.26	.26	.27

SHAFT COUPLINGS—Regular Pattern



No.....	0 $\frac{1}{2}$	2A	2B	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$ B	5 $\frac{1}{2}$	6	7
Eye, in.....	$\frac{7}{8}$	1	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$
Bolt, in.....	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Clip, in.....	3	3 $\frac{1}{4}$	3 $\frac{1}{4}$	4	4 $\frac{1}{2}$	5	5	6	6
Price per pair, with eyes.....	.80	.87	.87	\$1.25	\$1.45	\$2.00	\$2.12	\$4.17	\$4.35

SHAFT AND POLE EYES

Size Eye, in.....	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
Dia. Bolt, in.....	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{2}$	$\frac{1}{2}$
Price per pair.....	.32	.38	.45	.60	.65	\$1.30

WELDING COMPOUNDS

(Formerly *PEERLESS*)**A Compound Unequalled for General Use**

In 5-lb. and 25-lb. boxes.....	Price Per Lb.
In bulk.....	\$0.16
	.14

Climax Compound

For Tires, Axles and General Welding.

In 5-lb. boxes.....	Price Per Lb.
In bulk.....	\$0.16
	.14

Vulcan Toe-Calk Compound

Leaves the Shoe Clean and Smooth.

In 5-lb. boxes. Per lb.....	\$0.16
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**For Welding Toe Calks and Plow Share Work**

In 5-lb. and 25-lb. boxes.....	Price Per Lb.
In bulk.....	\$0.16
	.14

Boraxette Compound

A Flux Designed to be Applied to the Outer Surface of the Work.

In 5-lb. boxes. Per lb.....	\$0.16
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Cherry Heat Compound

Welds Steel at the Lowest Possible Heat. Apply Between the Lap.

In 5-lb. boxes. Per lb.....	\$0.16
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Borax

Price Per Lb.

Crystal, in bulk.....	\$0.15
" in 100-lb. sacks.....	.14
Pulverized, in bulk.....	.15

WELDARINE—Positively Guaranteed to Weld Cast Iron

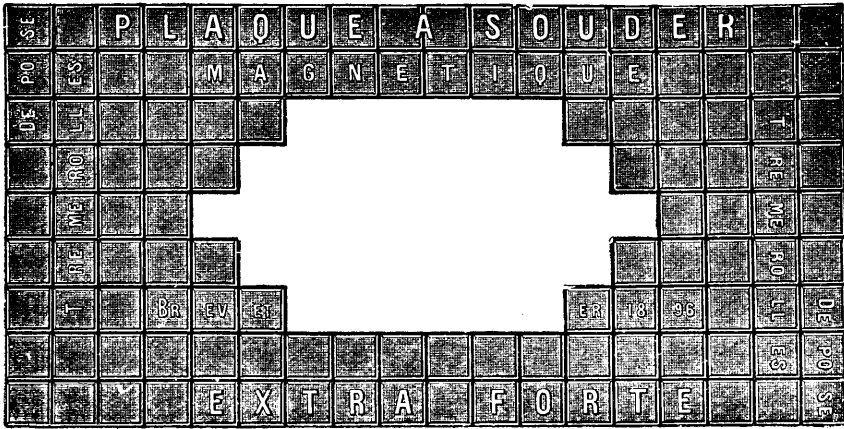
Two Sizes.

Each set consists of one can Weldarine, one can Weldarine Fluid, one can Weldarine Borax, one can Weldarine Spelter and one Steel Brush.

Small Set—Weight 2 lbs.....	\$3.00
Large Set—Weight 4 lbs.....	4.00

Packed one set in wooden box.

LAFFITTE WELDING PLATES



Laffitte Welding Plates

For chemically welding all characters of iron and steel at low temperature. Saves 33% in time and fuel. Gives a perfect and absolutely homogenous joint. Makes impossible welds possible.

10 sheets to box. Size 4 x 8 in. Price, \$2.80 box.

Laffitte Welding Powder

To be used where the rigidity of the Laffitte Plate is not adapted to the work to be done.

Price, 60c. lb.

Laffitte Brazing Powder

Goes four times as far as borax. Never swells or blisters. Leaves no trace of oxide. facilitates work and produces sure results.

Price, \$1.00 lb.

Laffitte Brazing Plates

10 Sheets to Box.

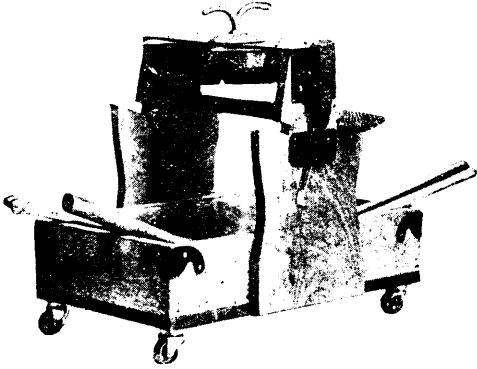
- No. 1. For brazing Brass, Red Copper, Bronze, Cast Iron.
- No. 2. For brazing Red Copper and Iron.
- No. 3. For brazing Iron and Steel.

Price, \$3.00 Per Box.

Laffitte Tempering Powder

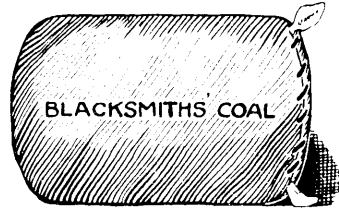
Tempers iron to hardness of steel. Makes mild steel as hard as the hardest of steel. Gives carbon steel a greater hardness than can otherwise be obtained.

Price, 90c. lb.

UNIVERSAL TOOL BOX

A strong, handy Tool Box. Has separate compartments for different size nails.

Price, complete with cators.....\$4.00

BLACKSMITHS' COAL**Blosberg Smithing Coal**

We carry in stock genuine Blosberg Smithing Coal, in 100-lb. sacks for immediate shipment.

We also handle Blosberg Coal in car lots, on which we will be pleased to quote special prices. This coal will be shipped in direct car from head of the Lakes.

Prices on application

COKE

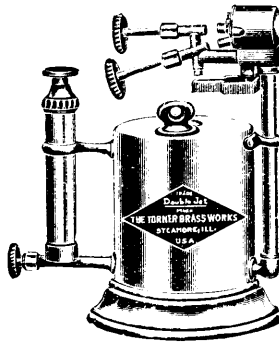
Best Gas Coke in 100-lb. sacks.

Price on application.

CHARCOAL

For pre-heating large castings. In sacks of about 40 lbs.

Price on application.

GASOLENE TORCHES**No. 92. Double Burner. Polished Brass**

With this Torch, 3,000 degrees of heat can be obtained, which is nearly double the capacity of all single-valve burners. Recommended for light brazing, annealing light material, and paint burning.

Capacity 1 quart. Height 9½ inches. Diameter 4 inches. Consumption about ½ pint per hour.

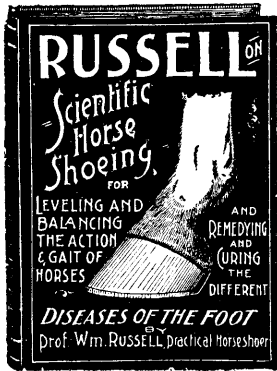
Price, each.....\$12.00

No. 212. Single Burner. Polished Brass

This Torch will meet any ordinary requirements. It is well made, strong and durable; the tank being made of heavy 18-gauge brass. Capacity 1 quart. Height 9½ inches. Diameter 4 inches. Consumption about ½ pint per hour.

Price, each

\$9.00



This book contains 390 pages, 600 cuts of shoes, 600 cuts of feet, legs and teeth of the horse. You will find a shoe for any faulty action of the horse, also for soreness or lameness of any description. Also treatment for all diseases of foot and leg. Invaluable to any farrier.

Price\$4.00

OAKUM

For use with hoof-pads, in applying pine tar, or any hoof-dressing.

Price per lb.:

50-lb. Bale 28c.
Less than 50-lb. Bale 30c.

PINE TAR

Carefully prepared from the best North Carolina Pine, is cooling and healing, and can be applied with Oakum to diseased feet with excellent results.

Price per 1/2-gal. Can \$0.75
Price per 1-gal. Can 1.30
Price per 5-gal. Can 6.00

PEAT MOSS HOOF STUFFING

Used under Pads, instead of Tar and Oakum, a medicated hoof stuffing, always ready for use; never dry; prevents corns and draws all fever from the feet and limbs. No hoof can remain hard and unhealthy when it is used.

Price per lb.

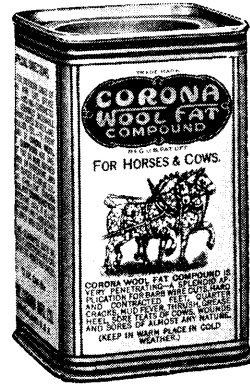
In barrels of 150 lbs. 14c.
In less than barrel lots 15c.

HOOF OIL

Assists the healthy growth of the hoof. Improves the finish, and should be used after every shoeing. Used with a brush.

Price each

One-gallon Cans\$1.20
1/2-gallon Cans70



Corona Wool Fat Compound is a combination of the secretions extracted from the wool of the sheep with other healing and antiseptic properties. It will never decompose or become rancid.

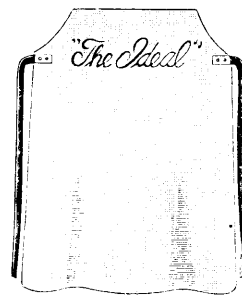
We recommend Corona Wool Fat as the best preparation known for treatment of the following: Barb-wire Cuts, Contracted Hoofs, Corns, Scratches, Grease Heel, Collar Boils, and sores of every description.

Full directions for use on every tin.

Price per dozen:

12-ounce size \$ 6.00
2-lb. size 12.00

BLACKSMITH APRONS



"Ideal" Oak-tanned Horsehide
With Bib

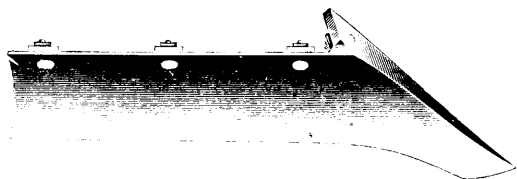
Price each

Size No. 2, 27x36 in. \$3.30
Size No. 3, 28x38 in. 3.60
Size No. 4, 29x40 in. 3.90

Muleskin
With Bib

Price each\$4.25

FITTED PLOW SHARES
Ready to Bolt to Plow



Guarantee

We guarantee these Shares to fit the plow for which they are intended as perfectly as the originals, are as finely made and finished, and in many cases more durable. We will refund your money or replace every Share that should prove defective. Made from high-grade steels. Soft-centre Shares not guaranteed against breakage unless they show defect.

Bradley

No.	Inches	Inch
19-127	12	$\frac{5}{16}$
19-147	14	$\frac{5}{16}$
19-167	16	$\frac{5}{16}$
20-147	14	$\frac{5}{16}$
20-167	16	$\frac{5}{16}$
L33	12	$\frac{5}{16}$
L45	14	$\frac{5}{16}$
L70	16	$\frac{5}{16}$

Canton or P. & O. (Continued)

No.	Inches	Inch
336	16	$\frac{5}{16}$
340 Breaker	14	$\frac{3}{8}$
342 "	14	$\frac{3}{8}$
344	12	$\frac{5}{16}$
348	14	$\frac{5}{16}$
350	16	$\frac{5}{16}$

Canton or P. & O.

No.	Inches	Inch
42	14	$\frac{5}{16}$
44	13	$\frac{1}{4}$
46	12	$\frac{1}{4}$
48	11	$\frac{1}{4}$
50	10	$\frac{1}{4}$
54	16	$\frac{5}{16}$
60	8	$\frac{1}{4}$
62	9	$\frac{1}{4}$
64	10	$\frac{1}{4}$
66	12	9 32
66	14	9 32
110R	16	$\frac{1}{4}$
112	14	9 32
116	8	$\frac{1}{4}$
128	14	9 32
176	12	$\frac{1}{4}$
204	16	9 32
228	14	$\frac{1}{4}$
230	10	$\frac{1}{4}$
242 Alfalfa	16	9 32
243 A-LH-Alfa	14	$\frac{5}{16}$
244 Alfalfa	14	$\frac{1}{4}$
248	14	$\frac{1}{4}$
264	12	$\frac{5}{16}$
266	14	$\frac{5}{16}$
267LH	14	9 32
268	16	9 32
294	14	$\frac{1}{4}$
300	13	$\frac{5}{16}$
310K Alfalfa	16	$\frac{1}{4}$
324	12	9 32
326	14	$\frac{1}{4}$
328	16	$\frac{5}{16}$
334	14	$\frac{5}{16}$

Case

No.	Inches	Inch
AA	14	$\frac{1}{4}$ or $\frac{5}{16}$
AA	16	$\frac{1}{4}$
ADL	12	$\frac{5}{16}$
ADL	13	9 32
ADL	14	9 32 or $\frac{5}{16}$
ADHL	14	$\frac{5}{16}$
ADL	16	9 32 or $\frac{5}{16}$
AP	14	$\frac{1}{4}$ or $\frac{5}{16}$
AP	16	9 32 or $\frac{5}{16}$
ARB	14	$\frac{5}{16}$ or $\frac{3}{4}$
AS	12	9 32
AS	14	$\frac{1}{4}$ or $\frac{5}{16}$
AS	16	$\frac{1}{4}$ or $\frac{5}{16}$
AS	18	9 32 or $\frac{5}{16}$
ASL	14	9 32 or $\frac{5}{16}$
ASL	16	9 32
EM Breaker	12	$\frac{1}{4}$
EM "	14	$\frac{1}{4}$
EM Breaker	16	$\frac{1}{4}$
EMH "	14	$\frac{5}{16}$
SGHL	14	$\frac{5}{16}$

Cockshutt

No.	Inches	Inch
A2	12	$\frac{1}{4}$
BS	16	$\frac{1}{4}$
C16	16	9 32
C18	18	$\frac{5}{16}$
G2	16	$\frac{1}{4}$
GS	12	$\frac{1}{4}$
H2	16	$\frac{1}{4}$
J2	14	$\frac{1}{4}$
JG12	12	9 32
JG12H	12	$\frac{5}{16}$ or $\frac{1}{4}$
JG14H	14	$\frac{5}{16}$ or $\frac{1}{4}$
JG	14	$\frac{1}{4}$
JGSH	12	$\frac{1}{4}$

Prices on Application.

FITTED PLOW SHARES (Continued)

Cockshutt (Continued)

No.	Inches	Inch
JGS	14	9 32
JGSH	14	5 16
L16	16	9 32
L16H	16	3 8
L18	18	5 16
M2	14	9 32
SP27 Break.	14	3 8
SP90	14	5 16
SP220 "	14	5 16
SGSX	12	9 32
9X	14	1 4
1024	14	9 32
1331	16	9 32
2070	14	5 16

Deere (Continued)

No.	Inches	Inch
F11	11	9 32
NF	14	1 4
P33H	14	5 16
PF12	12	1 4
PF14	14	1 4
PG16	16	1 4
U12	12	9 32
X13	13	9 32
X41LH	13	9 32
X41	13	9 32
X42	14	9 32 or 1 4
X42LH	14	9 32
Y41	12	9 32
Y41LH	12	9 32

Deere

No.	Inches	Inch
13	13	9 32
31	12	9 32 or 5 16
31H	12	5 16
33	14	9 32 or 5 16
36	7	1 4
40	16	9 32 or 5 16
42	14	9 32 or 5 16
44	18	5 16
46	16	5 16
48	12	9 32
84 Alfalfa	16	1 4
94	14	9 32
95	16	5 16
97	12	5 16
107	14	9 32
110	16	9 32
119	14	1 4
142	12	9 32
143	14	1 4
151	13	5 16
152	12	5 16
157	14	5 16
161	13	5 16
162	16	5 16
163	18	5 16
164 Breaker	12	5 16
165 Breaker	14	5 16
166	16	5 16
179 "	14	3 8
205 "	14	3 8
207	14	5 16
215	12	5 16
216	13	5 16
217	14	5 16
218	16	5 16
219	18	5 16
231	12	5 16
232	14	5 16
233	16	5 16
242	16	5 16
243	14	5 16
250	14	3 8
266 QD RH	14	5 16
266 QD LH	14	5 16
DBF Break.	14	1 4 or 5 16
DBG Break.	16	1 4 or 5 16
F10	10	1 4

Defiance (La Crosse)

No.	Inches	Inch
92	16	9 32
97	12	9 32 or 5 16
97	14	9 32 or 5 16
97	16	9 32 or 5 16
B12	12	1 4
B14	14	1 4
B16	16	9 32
LAX04	12	1 4
LAX04	14	9 32 or 5 16
LAX04	16	1 4 or 5 16
LAX07	12	1 4
LAX07	14	9 32
LAX07	16	9 32
LAX11	12	1 4
LAX11	14	9 32
LAX11	16	9 32

Emerson

No.	Inches	Inch
GE	14	5 16
N12	12	9 32 or 5 16
N13	13	5 16
N14	14	9 32 or 5 16
N16	16	9 32 or 5 16
N18	18	5 16
N12R	12	9 32 or 5 16
N13R	13	5 16
N14R	14	9 32 or 5 16
N16R	16	9 32 or 5 16
N18R	18	5 16
N14R2	14	5 16
N14RC	14	5 16
N14R8	14	3 8
N12RC9	12	5 16
N14R9	14	5 16
N16R9	16	5 16
P12-2	12	2 4
P16-10 B'k'r	16	5 16
P14-10 B'k'r	14	5 16
P14-4 B'k'r	14	5 16
P14-2	14	5 16
PE2	16	5 16
RN	12	9 32 or 5 16
RN	13	5 16
RN	14	9 32 or 5 16
RN	16	9 32 or 5 16

Prices on Application.

FITTED PLOW SHARES (Continued)

Fuller & Johnson

No.	Inches	Inch
R	12	$\frac{5}{16}$
UR	12	$\frac{5}{16}$
UR	14	$\frac{5}{16}$
UR	16	$\frac{5}{16}$
12X	12	$\frac{5}{16}$
14X	14	$\frac{5}{16}$
16X	16	$\frac{5}{16}$
18X	18	$\frac{5}{16}$
12XR	12	$\frac{5}{16}$
14XR	14	$\frac{5}{16}$
16XR	16	$\frac{5}{16}$
18XR	18	$\frac{5}{16}$
12XW	12	$\frac{5}{16}$
14XW	14	$\frac{5}{16}$
16XW	16	$\frac{5}{16}$
18XW	18	$\frac{5}{16}$

Grand Detour

No.	Inches	Inch
A25	14	9 32
B26	12	$\frac{5}{16}$
BX	12	$\frac{1}{4}$ or $\frac{5}{16}$
BX	14	$\frac{1}{4}$ or $\frac{5}{16}$
BX	16	$\frac{1}{4}$ or $\frac{5}{16}$
E14	14	9 32
SBX	12	$\frac{1}{4}$
SBX	14	$\frac{1}{4}$
SBX	16	$\frac{1}{4}$

Moline (Continued)

No.	Inches	Inch
FC12	12	$\frac{1}{4}$
FD1	14	$\frac{1}{4}$ or $\frac{5}{16}$
FD11	16	$\frac{1}{4}$ or $\frac{5}{16}$
FD18	18	$\frac{1}{4}$ or $\frac{5}{16}$
FHW	16	$\frac{5}{16}$
FSD1	12	$\frac{1}{4}$ or $\frac{5}{16}$
H114	14	$\frac{1}{4}$
H116	16	$\frac{1}{4}$
MF10	10	$\frac{1}{4}$
MF12	12	$\frac{1}{4}$
NB16	16	$\frac{1}{4}$
T7	7	$\frac{1}{4}$
T8	8	$\frac{1}{4}$
T9	9	$\frac{1}{4}$
T10	10	$\frac{1}{4}$
T12	12	$\frac{1}{4}$
T14	14	$\frac{1}{4}$
T16	16	$\frac{1}{4}$
W	12	$\frac{1}{4}$ or $\frac{5}{16}$
W	14	$\frac{1}{4}$ or $\frac{5}{16}$
W	16	$\frac{1}{4}$ or $\frac{5}{16}$
W-AL Alf.	14	9 32
WH	16	$\frac{1}{4}$ or $\frac{5}{16}$
Y14AL Alf.	14	$\frac{1}{4}$
Y16AL Alf.	16	$\frac{1}{4}$
Y12	12	$\frac{1}{4}$
Y14	14	$\frac{1}{4}$
Y16	16	$\frac{1}{4}$
W18	18	$\frac{1}{4}$

Morrison

No.	Inches	Inch
General Purpose	12	9 32 steel
" "	14	$\frac{1}{4}$ steel
" "	16	9 32 steel

Moline

No.	Inches	Inch
41	14	$\frac{3}{8}$
43 Breaker	12	$\frac{1}{4}$
44 Breaker	14	$\frac{1}{4}$ or $\frac{5}{16}$
45 Breaker	16	$\frac{1}{4}$ or $\frac{5}{16}$
BB8	8	$\frac{1}{4}$
BB9	9	$\frac{1}{4}$
BB10	10	$\frac{1}{4}$
BB11	11	$\frac{1}{4}$
BB12	12	$\frac{1}{4}$
BB14	14	$\frac{1}{4}$
C1, L H	14	$\frac{1}{4}$
C1	14	$\frac{1}{4}$
C10	16	$\frac{1}{4}$
C12 L H	12	$\frac{1}{4}$
C13 L H	13	$\frac{1}{4}$
CY12	12	$\frac{5}{16}$
CY13	13	$\frac{5}{16}$
CY14	14	$\frac{5}{16}$
CY16	16	$\frac{5}{16}$
D1	14	$\frac{1}{4}$ or $\frac{5}{16}$
D10	16	$\frac{1}{4}$
DW	12	$\frac{5}{16}$
DW	13	$\frac{5}{16}$
DW	14	$\frac{5}{16}$
DW	16	$\frac{5}{16}$
DW	18	$\frac{5}{16}$
DW AL	14	$\frac{1}{4}$
DW141	14	$\frac{1}{4}$
D112	12	$\frac{1}{4}$
FALD1-AL	14	$\frac{1}{4}$
FC1	14	9 32
FC10	16	$\frac{5}{16}$

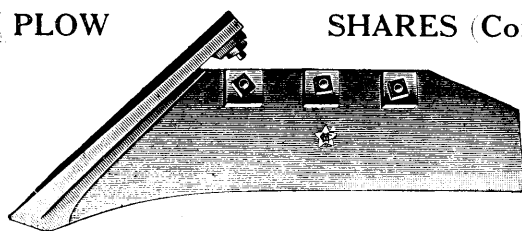
Oliver

No.	Inches	Inch
03	14	$\frac{1}{4}$
03	16	$\frac{5}{16}$
7	12	$\frac{1}{4}$
8	14	$\frac{1}{4}$ or $\frac{5}{16}$
8	16	$\frac{1}{4}$ or $\frac{5}{16}$
17	16	$\frac{5}{16}$
31	11	$\frac{1}{4}$
31X	11	$\frac{1}{4}$
33	12	$\frac{1}{4}$
160	12	$\frac{5}{16}$
161 Breaker	14	$\frac{5}{16}$
162	16	$\frac{5}{16}$
C2	8	$\frac{1}{4}$
C3	9	$\frac{1}{4}$
C4	10	$\frac{1}{4}$
C7	12	$\frac{1}{4}$
C8	14	$\frac{1}{4}$ or $\frac{5}{16}$
C9	16	$\frac{1}{4}$ or $\frac{5}{16}$
DS7	12	$\frac{1}{4}$
DS8	14	$\frac{1}{4}$ or $\frac{5}{16}$
DS8	16	$\frac{1}{4}$ or $\frac{5}{16}$
NC7	12	$\frac{1}{4}$
NC8	14	$\frac{1}{4}$
NC9	14	$\frac{1}{4}$
NC*4A-R	14 Alf.	$\frac{1}{4}$
NC*4A-L	14 Alf.	$\frac{1}{4}$
NCCD	16	$\frac{1}{4}$
NC Cres. 7H	12	$\frac{1}{4}$
NC Cres. 8H	14	$\frac{1}{4}$
NC12	16	$\frac{1}{4}$
NC23	12	$\frac{1}{4}$
NC23	14	$\frac{1}{4}$
NC23	16	$\frac{1}{4}$
NC161 Breaker	14	$\frac{1}{4}$
NC173	12	$\frac{1}{4}$
S9	12	$\frac{1}{4}$
S9	14	$\frac{1}{4}$
S9	16	$\frac{1}{4}$

Prices on Application.

FITTED PLOW

SHARES (Continued)



Paris

No.	Inches	Inch
A12	12	$\frac{5}{16}$
A14	14	9 32
A16	16	$\frac{5}{16}$

Reliance (Janesville)

No.	Inches	Inch
1	12	9 32
2	14	$\frac{5}{16}$
3	16	9 32
R1	12	9 32
R2	14	$\frac{5}{16}$
R3	16	9 32
AS14	14	9 32
AR	12	9 32
AR	14	9 32
AR	16	9 32
AS	16	9 32

Sattley (Continued)

No.	Inches	Inch
F13	13	$\frac{5}{16}$
F13C	13	$\frac{5}{16}$
F13N	13	$\frac{5}{16}$
FN	13	$\frac{5}{16}$
F14	14	$\frac{5}{16}$
F14C	14	$\frac{5}{16}$
F14E	14	$\frac{5}{16}$
F14N	14	$\frac{5}{16}$
FN	14	$\frac{5}{16}$
F16	16	$\frac{5}{16}$
F16C	16	$\frac{5}{16}$
F16N	16	$\frac{5}{16}$
FN	16	$\frac{5}{16}$
X13	13	$\frac{5}{16}$
X14	14	$\frac{5}{16}$
X16	16	$\frac{5}{16}$

Rock Island

No.	Inches	Inch
25	12	$\frac{1}{4}$
26	14	$\frac{1}{4}$
30	12	9 32
32	14	9 32
34	16	$\frac{5}{16}$
38	14	$\frac{1}{4}$ or $\frac{5}{16}$
40	16	9 32 or $\frac{5}{16}$
66	12	$\frac{5}{16}$
68	14	$\frac{1}{4}$ or $\frac{5}{16}$
70H	16	$\frac{5}{16}$
143	14	$\frac{1}{4}$
144	16	$\frac{1}{4}$
TS	12	9 32
TS14	14	9 32 or $\frac{5}{16}$
TS16	16	$\frac{5}{16}$

Thompson

No.	Inches	Inch
C	14	9 32 or $\frac{5}{16}$
D	16	9 32
H	12	9 32
J	14	9 32 or $\frac{5}{16}$
K	16	9 32
14T	14	9 32 or $\frac{5}{16}$
16T	16	9 32

Verity (Massey-Harris)

No.	Inches	Inch
P332	12	9 32
P333	12	9 32
P334	14	9 32
P335	14	9 32
P1421	12	$\frac{1}{4}$
P1422	14	$\frac{1}{4}$
P1667	15	9 32
P1668	15	9 32
P2913	12	$\frac{5}{16}$
P2914	12	$\frac{5}{16}$
P3999	12	$\frac{5}{16}$
P3999A	12	$\frac{5}{16}$
P5076	12	$\frac{1}{4}$
P5077	12	$\frac{1}{4}$
P5078	14	9 32
P5079	14	9 32
P5080	16	$\frac{5}{16}$
P5081	16	$\frac{5}{16}$
P5082	13	9 32
P5083	14	$\frac{5}{16}$
P5083X	14	$\frac{5}{16}$
P5084	16	$\frac{5}{16}$
P7145	12	$\frac{5}{16}$
P7146	12	$\frac{5}{16}$
P7147	14	$\frac{5}{16}$
P7148	14	$\frac{5}{16}$
P7154	16	$\frac{5}{16}$
P7155	16	$\frac{5}{16}$
P8174	16	$\frac{5}{16}$

Rumley

No.	Inches	Inch
B14	14	$\frac{5}{16}$
S14	14	$\frac{5}{16}$

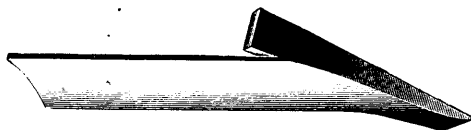
Sattley

No.	Inches	Inch
69	16	$\frac{1}{4}$
69N	16	$\frac{1}{4}$
74	14	$\frac{1}{4}$ or $\frac{5}{16}$
74N	14	$\frac{1}{4}$ or $\frac{5}{16}$
79	14	$\frac{1}{4}$
181	12	$\frac{1}{4}$ or $\frac{5}{16}$
181N	12	$\frac{1}{4}$ or $\frac{5}{16}$
182	14	$\frac{1}{4}$ or $\frac{5}{16}$
182N	14	$\frac{1}{4}$ or $\frac{5}{16}$
186	16	$\frac{1}{4}$ or $\frac{5}{16}$
186N	16	$\frac{1}{4}$ or $\frac{5}{16}$
F12	12	$\frac{5}{16}$
F12C	12	$\frac{5}{16}$
F12N	12	$\frac{5}{16}$
FN	12	$\frac{5}{16}$

Prices on Application.

When ordering, give name of plow, also number stamped on old share.

QUICK REPAIR SHARES



Fully Welded and Point Finished.

The Quick Repair Share has been perfected to meet the demand for a fully welded plow share, that can be quickly and easily fitted to the different makes of plows, thus saving the work of welding on the land-side and finishing the point.

The landside extends at the heel and is long enough to cut to fit any plow.

Stock Sizes.

12x $\frac{5}{16}$ inches.

14x $\frac{5}{16}$ inches.

16x $\frac{5}{16}$ inches.

18x $\frac{5}{16}$ inches.

Crucible quality only. Prices on application.

Plow Share Blanks



Stock Sizes.

12x $\frac{1}{4}$ inches.
12x $\frac{5}{16}$ inches.

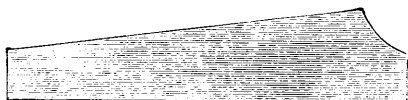
14x $\frac{1}{4}$ inches.
14x $\frac{5}{16}$ inches.

16x $\frac{1}{4}$ inches.
16x $\frac{5}{16}$ inches.

18x $\frac{1}{4}$ inches.
18x $\frac{5}{16}$ inches.

Prices on application.

Landside Plates



Crucible Steel.

Stock sizes: 12, 14, 16 and 18 inches.

Prices on application.

Landside Points



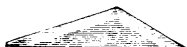
Ready for Welding.

Forged in exact form for welding to share.

Stock sizes: $\frac{9}{16}$ x12, 14 and 16 inches.

Prices on application.

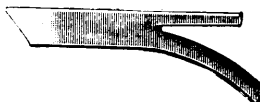
Plow Points



No. 1 and No. 2

No. 1. 9x2 $\frac{1}{2}$ x $\frac{1}{4}$ in.

No. 2. 10x3 $\frac{1}{2}$ x $\frac{1}{4}$ in.



No. 6

No. 6. 12x3 $\frac{1}{2}$ x $\frac{5}{16}$ in.

Prices on application.



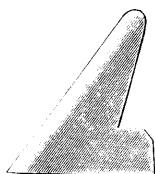
No. 4 and No. 5

No. 4. 8 $\frac{1}{2}$ x3 $\frac{1}{2}$ x $\frac{1}{4}$ in.

No. 5. 9 $\frac{1}{2}$ x4 x $\frac{1}{4}$ in.

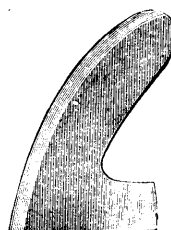
FIN CUTTERS

Plated, Ground and Polished, without holes
Crucible Quality



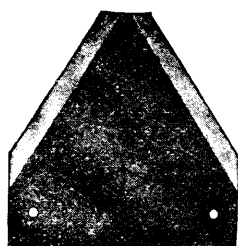
INDIANA PATTERN

Thickness.....	1 1/4 in.
Base Line.....	10 in.
Height.....	11 in.
Price, each.....	\$1.25



REGULAR PATTERN

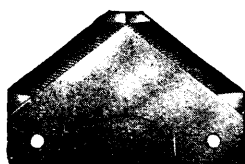
Thickness.....	1 1/4 in.
Base Line.....	8 1/2 in.
Height.....	12 in.
Price, each.....	\$1.25



MOWER SMOOTH SECTIONS

Our Mower Smooth Sections are Interchangeable with those Furnished by the Manufacturers of the Original Machines.

Name	Size, ins.	Price per 100
Deering.....	3x3 1/4	\$5.00
Frost & Wood.....	3x3 1/8	5.00
Massey-Harris.....	3x3 1/4	5.00
McCormick.....	3x3 3/16	5.00

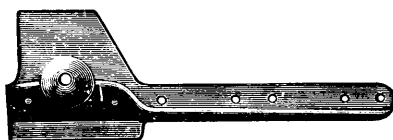


BINDER AND SICKLE SECTIONS

Interchangeable with those furnished by the Manufacturers of the Original Machines.

Name	Size, ins.	Price per 100
Deering.....	3 1/8 x 2 1/8	\$5.00
Frost & Wood.....	3 x 2 1/2	5.00
Massey-Harris.....	3 x 2 3/8	5.00
McCormick.....	3 x 2 1/8	5.00

KNIFE HEADS

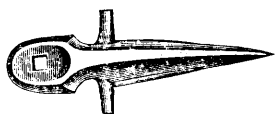


DEERING D 4-63.

Our Knife Heads are Interchangeable with those Furnished by the Manufacturers of the Original Machines.

	Price, each
D463. Deering, Mower.....	\$0.35
H877. Deering, Binder.....	.35
1001. Frost & Wood, Mower (Steel).....	.45
B1700. Frost & Wood, Binder.....	.35
M1708. Massey-Harris, Mower (Steel).....	.45
M123. Massey-Harris, Mower.....	.35
S213. Massey-Harris, Binder.....	.35
M139. McCormick, Mower.....	.35
B23. McCormick, Binder.....	.35
B410. McCormick, Binder.....	.35

MOWER AND BINDER GUARDS

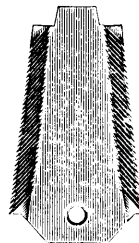


DEERING F&D 442

	Each
D698. Deering Mower (Replaces F&D and D442 Guards).....	\$0.30
286. Deering Binder.....	.30
A. Frost & Wood Mower.....	.30
B. Frost & Wood Binder.....	.30
M395. Massey-Harris Mower.....	.30
S220. Massey-Harris Binder.....	.30
M462. McCormick Mower.....	.30
H495. McCormick Binder.....	.30

GUARD PLATES

Smooth or Sickle.



	Per 100
D1739. Deering, for D598 Guard.....	\$5.00
E1330. Deering, for 286 Guard.....	5.00
1062. Frost & Wood, for A Guard.....	5.00
M1156. Massey-Harris, for M395 Guard.....	5.00
D157. Massey-Harris, for S220 Guard.....	5.00
M219. McCormick, for M462 Guard.....	5.00
H507. McCormick, for H495 Guard.....	5.00
Packed 50 in a Box.	

SECTION RIVETS

We carry a large stock of Section Rivets.

For sizes refer to list shown under heading of Rivets.

BLACKSMITHS' HAND TAPS

Taper Taps—"V" Standard Thread



Plug and Bottoming Taps—"V" Standard Thread

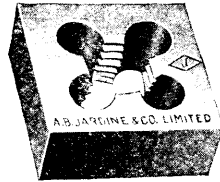


Manufacturers' Standard List.

Size.....	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1		
No. Threads per inch.....	24	20	18	16	14	12	11	10	9	8
Price, each.....	\$0.35	.45	.50	.55	.60	.70	.80	.90	\$1.20	\$2.00

Unless otherwise specified, all Taps will be supplied "oversize." We can supply Taps in U. S. Standard Thread. Sizes and number of threads per inch as above, with the exception of $\frac{1}{2}$, which have 13 threads to the inch.

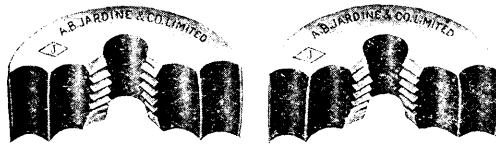
JARDINE SOLID DIES, SQUARE



Manufacturers' Standard List.

Size, in	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
Square, in	1	1	1	1	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2
No. of Threads	20	18	16	14	12	12	11	10	9	8
Price, each	\$0.90	\$0.90	\$0.90	\$0.90	\$1.35	\$1.35	\$1.35	\$1.35	\$2.75	\$2.90

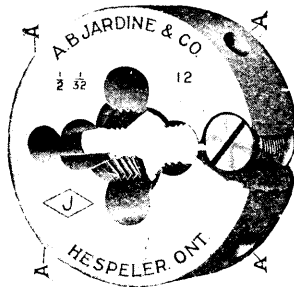
Jardine Lightning Dies



Manufacturers' Standard List.

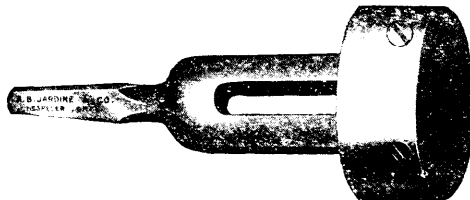
Size, in	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
No. of Threads	20	18	16	14	12	12	11	10	9	8
Price	\$1.25	\$1.25	\$1.25	\$1.30	\$1.50	\$1.75	\$1.90	\$2.35	\$3.00	\$3.75

Jardine Speed Dies



Size, in	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
No. of Threads	20	18	16	14	12	12	11	10	9	8
Price	\$1.25	\$1.25	\$1.25	\$1.30	\$1.50	\$1.75	\$1.90	\$2.35	\$3.00	\$3.75

Brace Stock for Speed Dies



For Speed Dies, $\frac{1}{4}$ to $\frac{1}{2}$ in.

Price, Stock only, \$1.50.

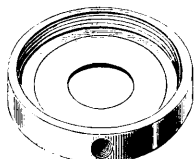
Unless otherwise specified, all Dies will be supplied "oversize."

BUTTERFIELD DIES

"Reece's" Dies

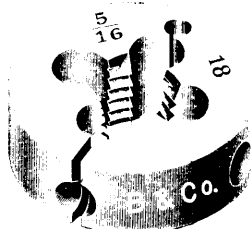


DIE



CAP

Derby Dies



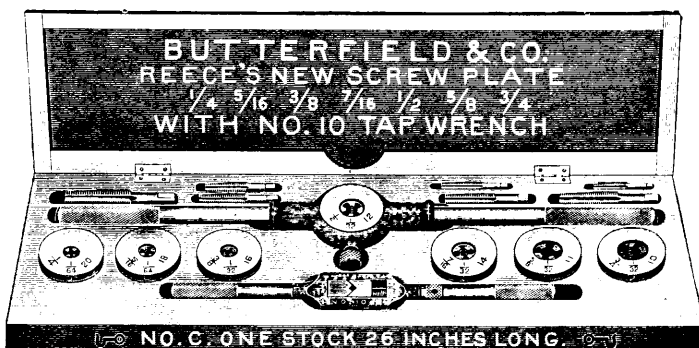
DERBY DIE

Prices of "Reece's" and Derby Dies and Collets.

Size, in.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
No. of Threads.....	20	18	16	14	12	12	11	10	9	8
Die only.....	\$2.00	\$2.00	\$2.00	\$2.00	\$3.00	\$3.00	\$3.50	\$4.00	\$5.50	\$5.50
Collet.....	\$0.70	\$0.70	\$0.70	\$0.70	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00

Unless otherwise specified, dies will be supplied "oversize." When ordering, always state number of set for which dies are intended.

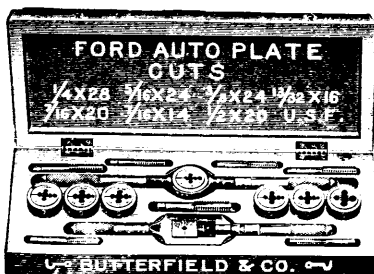
Butterfield Taps and Dies



Set No. C. Cuts $\frac{1}{4}$ to $\frac{3}{4}$ inch. 7 Dies and Collets, 7 Taps, 1 Tap Wrench, 1 Stock. Price per set, \$24.00.
 Set No. E. Cuts $\frac{1}{4}$ to 1 inch. 9 Dies and Collets, 9 Taps, 2 Tap Wrenches. Price per set, \$37.50.

Butterfield Auto Plate

Ford Model T.

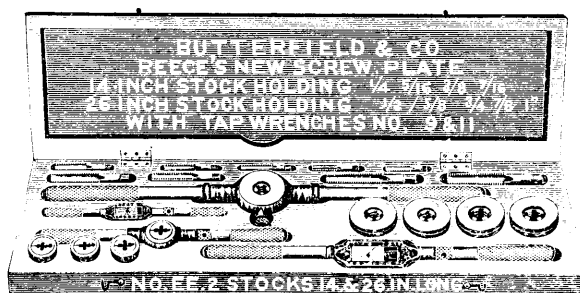


Has 7 Plug Taps and 7 Dies.

Cuts $\frac{1}{4}$ to $\frac{1}{2}$ inch.

Price, each, \$18.00.

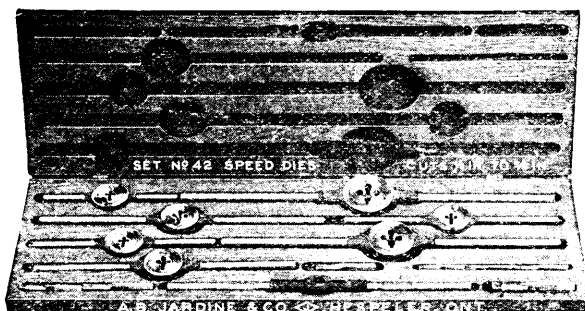
BUTTERFIELD TAPS AND DIES



Set No. CC. Cuts $\frac{1}{4}$ to $\frac{3}{4}$ in. 4 Dies and Collets, $1\frac{5}{8}$ in. diameter, cutting up to $\frac{1}{16}$ in.; 3 Dies and Collets, $2\frac{3}{4}$ in. diameter, cutting up to $\frac{3}{4}$ in.; 2 Stocks, 7 Taps, 1 Tap Wrench. Price per set, \$24.00.

Set No. EE. Cuts $\frac{1}{4}$ to 1 in. 4 Dies and Collets, $1\frac{5}{8}$ in. diameter, cutting up to $\frac{1}{16}$ in.; 5 Dies and Collets, $2\frac{3}{4}$ in. diameter, cutting up to 1 in.; 2 Stocks, 9 Taps, 1 Tap Wrench. Price per set, \$37.50.

JARDINE SPEED AND LIGHTNING DIE SETS



LIGHTNING

Set. No. 20. Cuts $\frac{1}{4}$ to $\frac{3}{4}$ in. Contains 7 Stocks, 7 Dies, 7 Taps, 1 Tap Wrench. Price per set, \$32.00.

Set. No. 25. Cuts $\frac{1}{4}$ to 1 in. Contains 9 Stocks, 9 Dies, 9 Taps, 2 Tap Wrenches. Price per set, \$50.00.

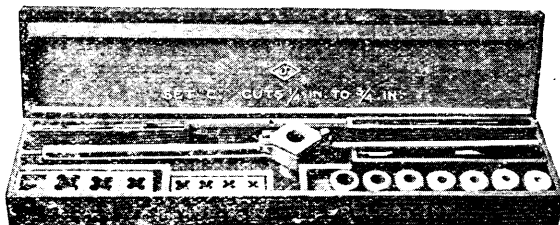
SPEED

Set No. 42. Cuts $\frac{1}{4}$ to $\frac{3}{4}$ in. Contains 7 Stocks, 7 Dies, 7 Taps, 1 Tap Wrench. Price per set, \$32.00.

Set No. 45. Cuts $\frac{1}{4}$ to 1 in. Contains 9 Stocks, 9 Dies, 9 Taps, 2 Tap Wrenches. Price per set, \$50.00.

Set No. 50. Cuts $\frac{3}{8}$, 1, $1\frac{1}{8}$ and $1\frac{1}{4}$ in. 4 Stocks, 4 Dies, 4 Taps only. Price per set, \$55.00.

JARDINE SOLID DIE SETS



Set C. Cuts $\frac{1}{4}$ to $\frac{3}{4}$ in. Contains 1 Stock, 7 Dies, 7 Taps. Price per set, \$20.00.

Set E. Cuts $\frac{3}{4}$, $\frac{7}{8}$ and 1 in. Contains 1 Stock, 3 Dies, 3 Taps. Price per set, \$21.00.

TWIST DRILLS

Half-Inch Shank Drill. No. 112



Size, in. Each	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$
	\$0.45	\$0.45	\$0.50	\$0.55	\$0.60	\$0.65	\$0.70	\$0.75
Size, in. Each	$\frac{3}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{19}{32}$
	\$0.80	\$0.85	\$0.90	\$0.95	\$1.00	\$1.05	\$1.10	\$1.20
Size, in. Each	$\frac{11}{16}$	$\frac{23}{32}$	$\frac{3}{4}$	$\frac{25}{32}$	$\frac{13}{16}$	$\frac{27}{32}$	$\frac{7}{8}$	$\frac{29}{32}$
	\$1.50	\$1.60	\$1.70	\$1.80	\$1.90	\$2.00	\$2.10	\$2.20
Size, in. Each	$\frac{31}{32}$	1	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$
	\$2.40	\$2.50	\$2.60	\$2.70	\$2.90	\$3.00	\$3.10	\$3.30

Straight Shank Drill. No. 105



Size, in. Dozen	$\frac{3}{32}$	$\frac{7}{64}$	$\frac{1}{8}$	$\frac{9}{64}$	$\frac{5}{32}$	$\frac{11}{64}$	$\frac{1}{4}$
	\$1.70	\$1.75	\$1.80	\$1.85	\$1.90	\$2.00	\$2.25
Size, in. Dozen	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{13}{32}$
	\$2.75	\$3.25	\$3.80	\$4.35	\$5.05	\$6.00	\$7.00
Size, in. Dozen	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$				
	\$8.50	\$10.00	\$12.00				

Taper Shank Twist Drills. No. 104



Size, in. Each	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{13}{32}$
	\$0.45	\$0.50	\$0.55	\$0.60	\$0.65	\$0.70	\$0.75	\$0.80	\$0.90
Size, in. Each	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{17}{32}$	$\frac{9}{16}$	$\frac{19}{32}$	$\frac{5}{8}$	$\frac{21}{32}$	$\frac{11}{16}$
	\$1.00	\$1.10	\$1.20	\$1.30	\$1.40	\$1.50	\$1.60	\$1.70	\$1.80
Size, in. Each	$\frac{23}{32}$	$\frac{3}{4}$	$\frac{25}{32}$	$\frac{13}{16}$	$\frac{27}{32}$	$\frac{7}{8}$	$\frac{29}{32}$	$\frac{15}{16}$	
	\$1.90	\$2.00	\$2.10	\$2.20	\$2.40	\$2.60	\$2.80	\$3.00	
Size, in. Each	$\frac{31}{32}$	1	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$	$\frac{11}{16}$
	\$3.25	\$3.50	\$3.75	\$4.00	\$4.50	\$5.00	\$5.50	\$5.75	\$6.00
Size, in. Each	$\frac{13}{16}$	$\frac{11}{8}$							
	\$6.50	\$8.50							

NOTE: $\frac{1}{8}$ to $\frac{3}{16}$ inch have No. 1 Taper Shank.
 $\frac{19}{32}$ to $\frac{29}{32}$ inch have No. 2 Taper Shank.
 $\frac{15}{16}$ to $1\frac{1}{2}$ inch have No. 3 Taper Shank.
Larger have No. 4 Taper Shank.

Bit Stock Drills. No. 108



Size, in. Dozen	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{13}{32}$
	\$1.70	\$3.00	\$3.50	\$4.00	\$4.50	\$5.00	\$6.00	\$7.00	\$8.00	\$8.50	\$10.50

WOOD-BORING DRILLS



No. 109 A

Size	3 32	1 8	5 32	3 16	7 32	1 4	9 32	5 16	11 32	3 8	13 32	7 16	15 32	1 2
Dozen	\$3.25	\$3.25	\$3.50	\$4.00	\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.75	\$9.50

COUNTERSINKS



For Use in Bit Brace.

No. 135



For Use in Drilling Machines.

Diameter, inch.....	5 8
Each	\$0.75

Diameter, inch.....	5 8	3 4	7 8	1
Shanks, inch.....	1 2	1 2	1 2	1 2
Each	\$0.75	\$0.85	\$1.30	\$1.50

When ordering, state style of Shank required.

Combined Drill and Countersink



No. 107

For drilling and countersinking at one operation.

Size, 7 32 and 9 32, for 3 16 and 1 4-in. Tire Bolts. Price, each, 70c.

Taper Reamers



These Reamers are used for reaming and making true, smooth holes in iron or wood.

Size, in	1 4	5 16	3 8	7 16	1 2	9 16	5 8	3 4	7 8	1
Price, each	\$0.70	\$0.75	\$0.80	\$0.90	\$1.05	\$1.20	\$1.35	\$1.80	\$2.90	\$3.00

Steel Stamps



For stamping tools, wood, iron, steel and metals of all kinds. Always mention for what purpose the Stamps are to be used.

Can be supplied in letters 1 8, 3 16, 1 4, 5 16 and 3 8. Price on Application.

FILES

Round Bastard



Square Bastard



Mill Bastard



Flat Bastard



Half Round Bastard

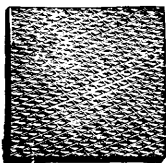


Half Round Wood Rasp

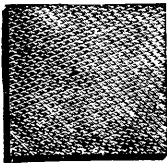


Double Cut Files

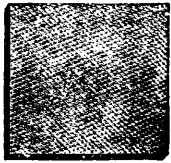
Actual width and cut of section of 8 inch Flat Files.



Bastard



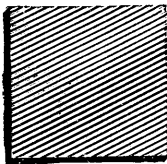
Second Cut



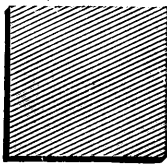
Smooth

Single Cut Files

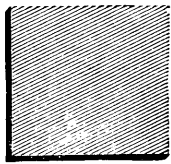
Actual width and cut of section of 8 inch Mill Files.



Bastard



Second Cut



Smooth

Above illustrations show the three different File Cuts in most general use. The coarseness of the cut increases or diminishes in proportion with the size or length of the File.

DIAMETER ROUND AND SQUARE FILES.

Length, inches.....	3	4	6	8	10	12	14	16
Diameter.....	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 3/4	3

PRICE LIST OF FILES

PRICE LIST IN EFFECT NOVEMBER 1st. 1899.

MILL AND ROUND						FLAT						SQUARE						HAND and PILLAR						HIF. Rd. & Three Sq.						WARDING																					
INCH	Bas'd			2d Cut			Sm'th			Bas'd			2d Cut			Sm'th			Bas'd			2d Cut			Sm'th			Bas'd			2d Cut			Sm'th			Bas'd			2d Cut			Sm'th								
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
4	3 00	3 50	3 90	3 70	4 30	4 70	3 20	3 80	4 10	3 90	4 50	4 90	3 80	4 60	4 90	3 70	4 30	4 80	4 10	4 80	5 30	3 90	4 70	5 30	4 10	4 80	5 30	4 50	5 30	5 80	4 90	5 90	6 40	4 00	4 80	5 40	4 50	5 30	5 80	4 50	5 30	5 80	4 50	5 30	5 80	4 50	5 30	5 80	4 50	5 30	5 80
5	3 50	4 00	4 50	4 30	4 80	5 30	3 90	4 60	4 90	4 80	5 50	6 10	4 00	5 10	5 50	4 30	5 10	5 60	4 60	5 10	5 60	4 90	5 80	6 30	5 10	5 80	6 30	5 90	6 90	7 50	6 40	7 50	8 20	5 10	5 80	6 30	5 90	6 90	7 50	6 40	7 50	8 20	5 10	5 80	6 30	5 90	6 90	7 50			
6	4 30	4 80	5 40	5 30	6 10	6 60	4 90	5 80	6 30	6 30	7 20	7 90	4 80	5 80	6 30	5 40	6 30	6 70	5 80	6 30	6 70	5 80	6 30	6 70	5 80	6 30	6 70	5 80	6 30	6 70	7 80	8 30	8 90	6 40	7 50	8 20	6 40	7 50	8 20	6 40	7 50	8 20	6 40	7 50	8 20	6 40	7 50	8 20			
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MILL BLUNT, Double Cut, advance 3 in.						Cant (Blunt) Double Cut advance 2 in.						Square Blunt advance 1 in.						Slottng (Blunt) advance 2 in. Cotter Blunt or Taper advance 2 in.						Ginsaw, Cant Bastard Price Crossing, . . . adv. 2 in. Tumbler, . . . " " Feather Edge (Blunt) " " High Back, . . . " " Half Round, . . . " "																								
4	8 40	5 60	6 10	4 00	4 80	5 40	4 50	5 30	5 80	4 90	5 90	6 40	4 00	4 80	5 40	4 50	5 30	5 80	4 90	5 90	6 40	4 00	4 80	5 40	4 50	5 30	5 80	4 90	5 90	6 40	4 00	4 80	5 40	4 50	5 30	5 80	4 90	5 90	6 40	4 00	4 80	5 40	4 50	5 30	5 80	4 90	5 90	6 40
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12	11 80	13 00	13																																													

Sizes below 4 inches, not extended, take 4 inch price.
 Half inches not specified, take next higher full inch price.
 Dead Smooth, double the price of Bastard Cut.
 One Round Edge, advance 12½ per cent.
 All Lengths above those listed, advance 20 per cent. on next lower inch price.
 Blunt Files not specified, advance one inch on respective kinds and cuts.
 Single or Float Cut not specified, on regular shapes take Double Cut price.
 Equalings (Bellied), advance two inches on respective kinds and cuts.
 Two Round Edges, advance 25 per cent.
 Files Varying from standard sizes, subject to special prices.
 Cuts not Specified, made upon regular blanks, advance one inch on respective kinds and nearest cut.

HORSE RASPS



Plain

	Length, inches.....	14	15	16	18	20
Heller Bros.	Price per doz.....	\$17.80	\$20.90	\$24.40	\$25.90	\$28.90
Stokes Bros.	Price per doz.....	17.80	20.90	24.40	25.90	28.90
W. & K.	Price per doz.....	16.00	19.00	22.50	24.00	26.50

Up to 16-in. Regular Pattern. 18 and 20-in. Slim Pattern.



Tanged

	Length, inches.....	14	15	16
Heller Bros.	Price per doz.....	\$23.10	\$27.30	\$32.20
Stokes Bros.	Price per doz.....	23.10	27.30	32.20
W. & K.	Price per doz.....	21.00	25.00	30.00

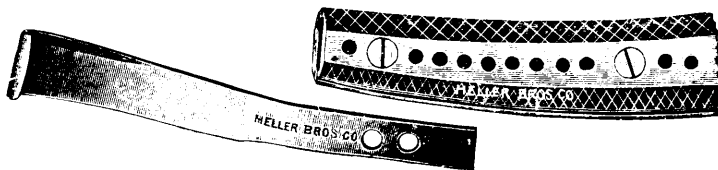
W. & K. Rasps are made expressly for us, and every Rasp is guaranteed.

Heller's Horse Tooth Rasps. No. 4

Made of Polished Steel. Jointed Handle, Adjustable Float. Length over all 20 ins. Length of Float $3\frac{1}{2}$ ins.

Price, complete with Float. Each.....	\$3.00
Extra Floats. Each.....	.80

FARRIERS' KNIVES



Adjustable Iron Handle. Size of Blades, $\frac{1}{4}$ in. to $\frac{7}{8}$ in.

Price, knife complete with blade.....	75c.
Price, Blades only, all sizes.....	60c.

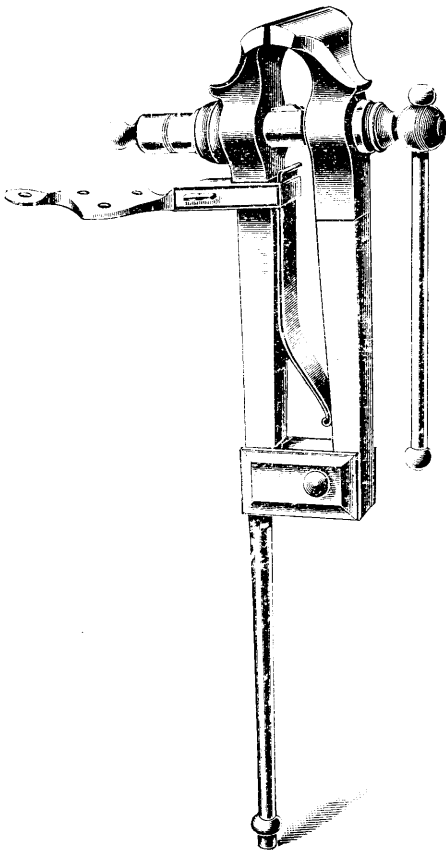
FARRIERS' KNIFE STONES



Made from Selected, Fast-cutting Grit, and shaped especially to fit the hook of a Farrier's Knife.

Pike's. Size, 1 in. x $8\frac{1}{4}$ in. Price, each.....	25c.
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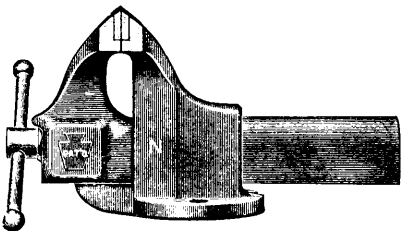
VICES



Solid Box Vises

Wrought Steel. Suitable for horseshoeing and general blacksmith work.
Stock weights, from 50 to 110 lbs.
Size of Jaws, from 4½ to 6 inches.

All sizes. Price per lb.....40c.



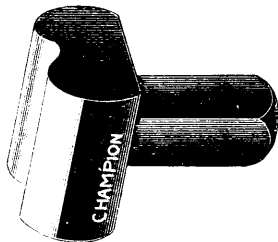
Machinists' Bench Vises. No. 49
Reinforced Slide, Solid Jaws

Width of Jaws.....4½ in.
Vise opens.....7 in.
Weight.....66 lbs.
Price, each.....\$18.00

Coach-makers' Bench Vises

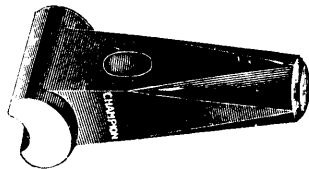
No. 8. Solid Base, Solid Jaw. Price each.....\$15.00
No. 9. Solid Base, Swivel Jaw. Price each.....17.50
No. 10. Swivel Base, Swivel Jaw. Price each.....20.00

ANVIL TOOLS



Bottom Swedges

Sizes, 1/4 in. to 1 1/2 in.
Price per lb..... 50c.

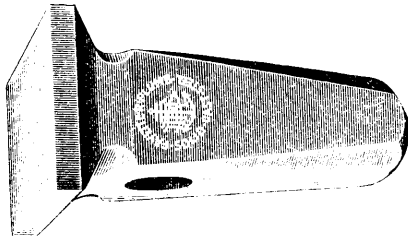


Top Swedges

Sizes, 1/4 in. to 1 1/2 in.
Price per lb..... 50c.

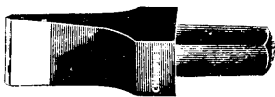
Top and Bottom Fullers

Sizes 1/4 in. to 1 1/2 in. Price per lb., 50c.



Flatters

Sizes, 1 1/2 in. to 3 in. square.
Price per lb..... 50c.

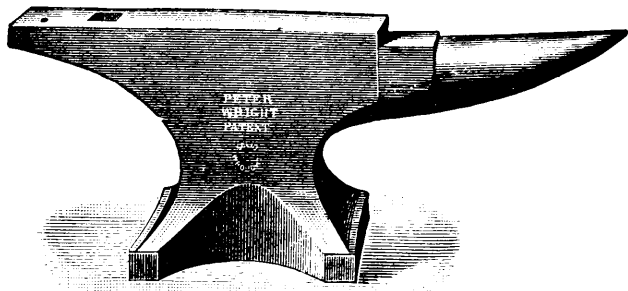


Hardies

Straight. Size shank, in. 7/8 1 1 1/2
Price, each 65c.
Half-round. Size shank, in. 7/8 1 1 1/2
Price, each 90c.

ANVILS

Solid Wrought

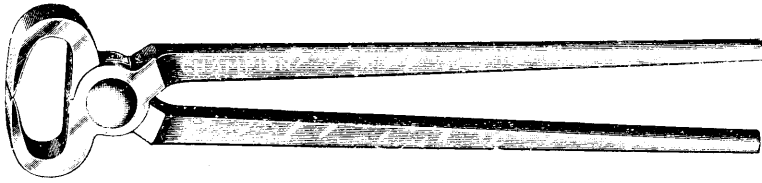


Peter Wright Anvils are forged in one solid piece, and faced with special Sheffield steel.
Made in two designs--Plain and Clip-Horn.
Plain Anvils carried in stock from 85 to 350 lbs.
Clip-Horn Anvils carried in stock from 120 to 180 lbs.
Hay-Budden Anvils, with long face, for heavy plow-share work, carried in stock from 160 to 225 lbs.

Prices:

Peter Wright, Plain Pattern.	Per pound.....	31c.
Peter Wright, Clip-Horn Pattern.	Per pound.....	32c.
Hay-Budden, Plain Pattern.	Per pound.....	35c.
Hay-Budden, Clip-Horn Pattern.	Per pound.....	36c.

Cutting Nippers



No. 25

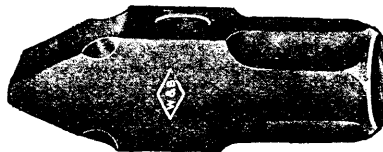
	Full Polished.		
Length, inches.....	10	12	14
Price per pair.....	\$2.00	\$2.50	\$3.00

Buffers



Length, 5½ to 6 ins. Price, each, 90c.

Blacksmiths' Sledges Cross Pein and Double Face

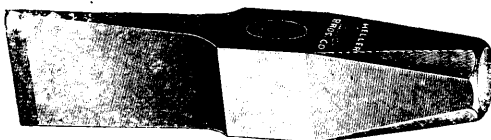


Solid Cast Steel

Weights: 5 lbs. to 14 lbs.

Price per lb., 30c.

Hot Chisels



Widths of Cutting Edge: 1¼ to 1½ in.

Price per lb., 50c.

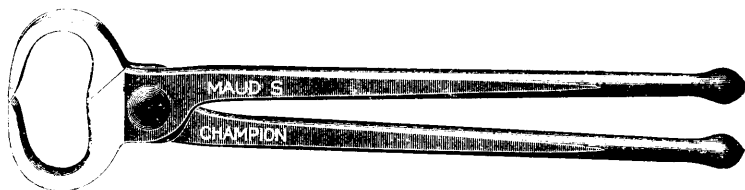
Cold Chisels



Widths of Cutting Edge: 1½ to 1¾ in.

Price per lb., 50c.

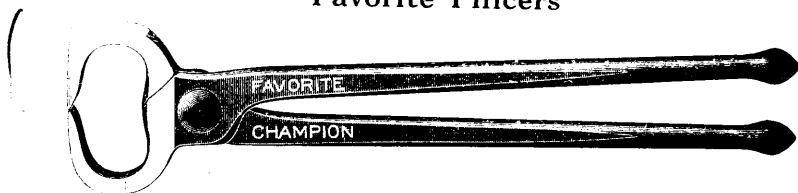
All our Cast Steel Tools are made of the finest material obtainable.

PINCERS**Maud S. Pincers**

No. 23.

Polished Head.
Length, 14 inches.

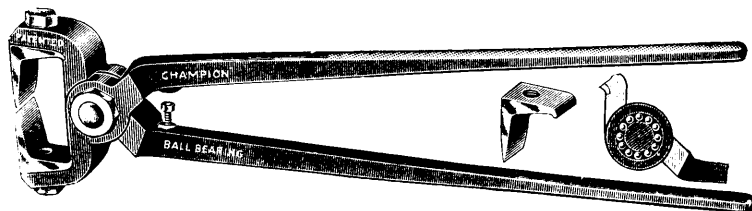
Price per pair, \$3.00.

Favorite Pincers

No. 80.

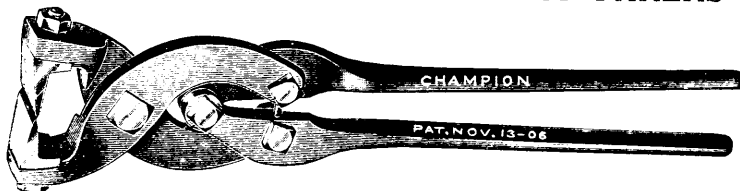
Polished Head. Square Jaw, specially designed to be used as Clinch Block.
Length, 14 inches.

Price per pair, \$3.00.

"OUR PRIDE" HOOF PARERS

No. 81.

Ball-Bearing Joint. Interchangeable Tool Steel Knives.
 Length, 14 inches. Price per pair..... \$4.75
 Extra Knives, per pair..... 1.10
 Knives are right and left. Upper knife is called the right, and the lower the left.

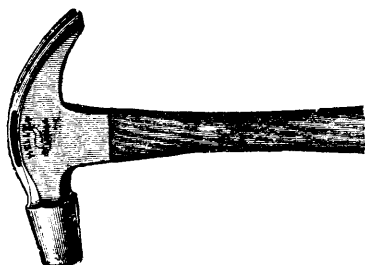
"CASTERLIN COMPOUND" HOOF PARERS

No. 82.

Interchangeable Jaws.

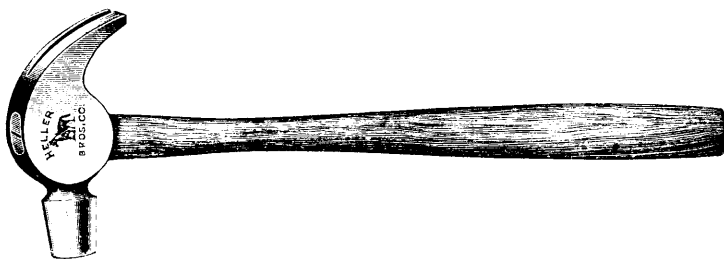
Length, 14 inches. Price per pair..... \$4.50
 Extra knives, per pair..... 1.00

FARRIERS' DRIVING HAMMERS



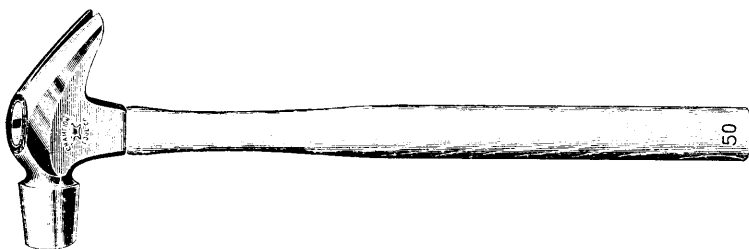
Heller Pattern. No. 65

Weight each, (including handle), ounces.....	15	16	17	18
Price, each.....	\$1.50	\$1.50	\$1.50	\$1.50



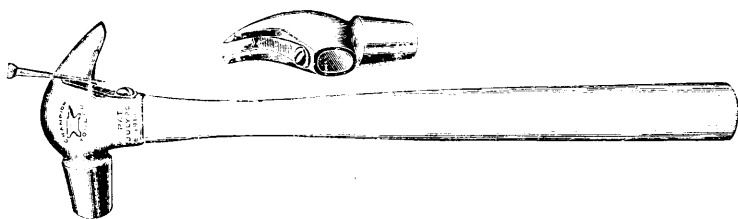
Scotch Pattern. No. 69

Weight each, (including handle), ounces.....	15	16	17
Price, each.....	\$1.50	\$1.50	\$1.50



Champion. No. 50

Weight each, (including handle), ounces.....	15	16	17
Price, each.....	\$1.50	\$1.50	\$1.50



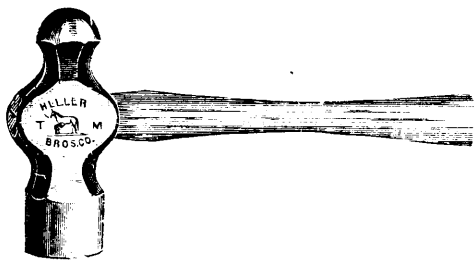
Champion Clean Claw. No. 87

Compact in design, which insures correct swing and good blow. The claw is always kept clean by the spring.

Weight each, (including handle), ounces.....	15	16	17
Price, each.....	\$1.90	\$1.90	\$1.90

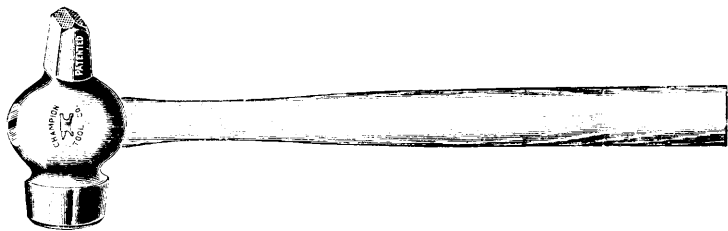
BLACKSMITHS' HAMMERS

Ball Pein Hammers



Weight each, lbs.	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
Price, each	\$0.90	\$1.00	\$1.10	\$1.20	\$1.30	\$1.50	\$1.70

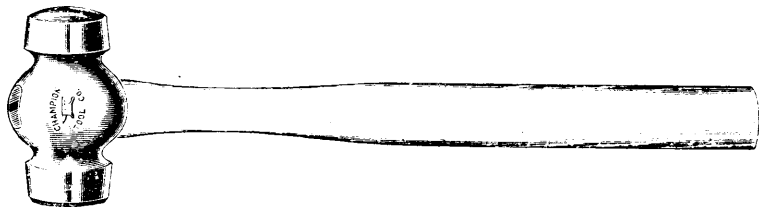
Sharpening Hammers



Double Bevel, Corrugated Pein, Full Polished.

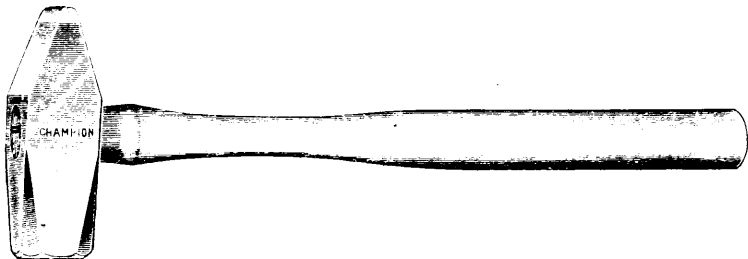
Weight each, lbs., (including handle)	2	2 1/4	2 1/2	2 3/4	3
Price, each	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00

Rounding Hammers



Weight each, lbs., (including handle)	2	2 1/4	2 1/2	2 3/4	3
Price, each	\$3.00	\$3.00	\$3.00	\$3.00	\$3.00

Plow Hammers



Weight each, lbs.	2 1/2	3	3 1/2	4 1/2
Price, each	\$1.50	\$1.60	\$1.70	\$1.90

BLACKSMITHS' TONGS

Shoeing Tongs



No. 40.

Length, inches	14	16
Price per pair	\$0.75	\$0.75

Universal Shoeing Tongs



No. 8.

Automatically adjusts itself to hold securely any size of shoe.
Length, 16 inches. Price per pair, \$1.10.

Straight Lip Tongs



No. 41.

Length, inches	14	16	18	20	22
Price per pair	\$0.75	\$0.85	\$0.95	\$1.10	\$1.20

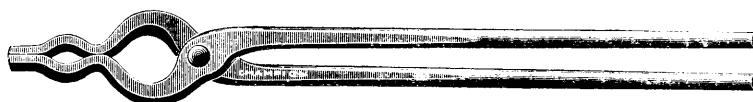
Bolt Tongs



No. 44.

For size Bolt, inches	3/4	1 1/2	5/8	3/4	7/8	1
Price per pair	\$0.90	\$0.90	\$1.00	\$1.00	\$1.10	\$1.10

Pick-Up Tongs



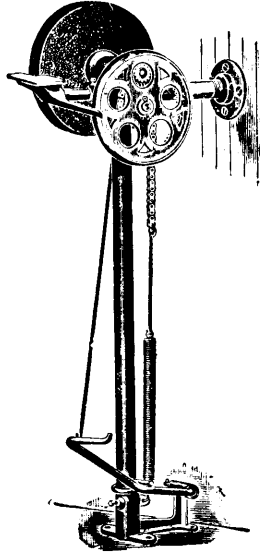
No. 42.

Length, 20 inches. Price per pair, \$1.20.

PRITCHELS



High-grade steel. Specially made to fit the hand. Price, each, 75c.

SUCCESS EMERY GRINDER**Foot Power**

Designed for grinding drills, castings, machine parts, and all kinds of tools.

Three thousand revolutions per minute are obtained by a simple and easy motion of the foot. Equal in every respect to a power machine.

Four feet High, $\frac{3}{4}$ -inch Tubing Standard, $8 \times 1\frac{1}{4}$ -inch Emery Wheel, Complete with Rest.

Each, \$8.00.

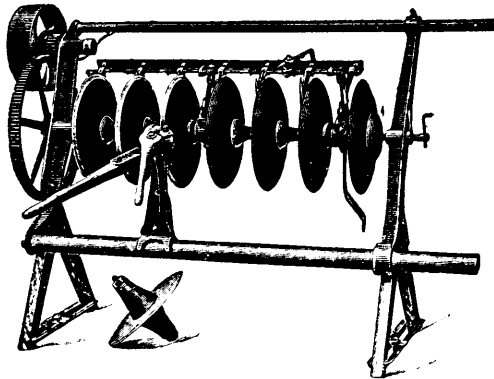
“KARBO” GRINDER

For Mower Knives and General Tool Grinding

The “Karbo” Grinder is useful twelve months in the year—will sharpen Mower Knives and other edge tools perfectly. The machine is simple in construction, and extremely easy in operation—can be handily and securely fastened to bench, table, or while in the field to mower wheel.

No. 1. With Bevel Grinding Wheel only, \$7.00.

No. 2. With Bevel and Straight Face Grinding Wheels, \$8.50.

GIANT WONDER DISC SHARPENER

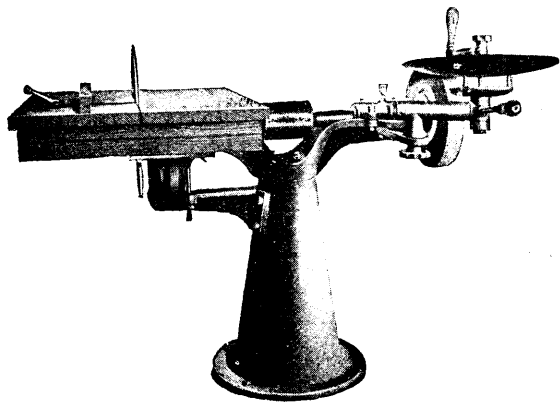
Cut showing the Giant Wonder at work on a Seven-Disc Section without removing Discs. Will sharpen any size from 12 to 32 inches in diameter.

Size of Pulley, 18 inches diameter, 3-inch face. Should run 50 revolutions per minute.

Price, each, \$55.00.

Extra Cutting Knives, per pair, \$2.75.

KERRIHARD EMERY GRINDERS

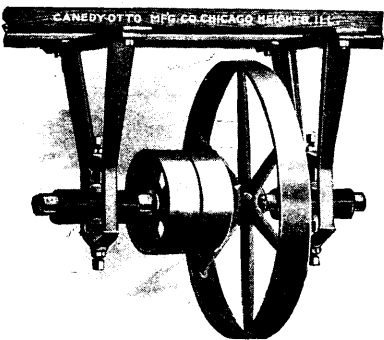


Dimensions	Inches
Arbor to Floor.....	28 "
Diameter of Base.....	18 "
Length of Arbor.....	42 "
Diameter of Arbor between Washers.....	1 1/4 "
Diameter of Washers.....	4 1/4 "
Size of Bearings—Length.....	6 "
Diameter.....	1 1/16 "
Size of Pulley—Diameter.....	4 "
Face.....	5 "
Distance between Wheels.....	32 "
Weight.....	175 lbs.

Finished with rich, high gloss machine enamel. Designed for grinding irregular shapes and such other materials that come into the average blacksmith shop. Is especially adapted for grinding and polishing plow lays. Will carry wheels 18 in. Diameter, 3 in. Thick, 1 1/4-in. Hole.

Wrench is furnished for removing wheels.
Rests not furnished unless ordered.

Price, with Plain Pulley only.....	\$30.00
Price, with Tight and Loose Pulleys.....	35.00
Extra for Saw Table.....	12.00
Extra for Disc Sharpening Attachment.....	10.00
Extra for Rest.....	2.00



COUNTERSHAFTS

For Emery Grinders, etc.

No.	Drive Pulley	Tight and Loose Pulleys	Shaft, In.	Price
2	12 x 3"	6 x 3 "	1 1/8"	\$12.00
3	16 x 4"	6 x 4 1/2"	1 1/4"	13.50

CANEDY-OTTO GRINDER No. 4



An ideal Grinder and Polisher, for Foundries, Blacksmith Shops, Garages, etc. For large work as well as for small work.

Dimensions

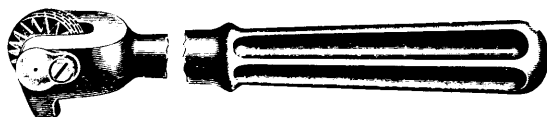
Arbor to Floor.....	30 in.
Length of Arbor.....	42½ in.
Diameter of Arbor.....	1¼ in.
Size of Pulleys.....	5 x 6 in.
Will carry Wheels up to.....	20 x 3 x 1¼ in.
Weight.....	255 lbs.

Price

Plain Pulley.....	\$35.00
Tight and Loose Pulleys.....	40.00

Rests furnished with machine.

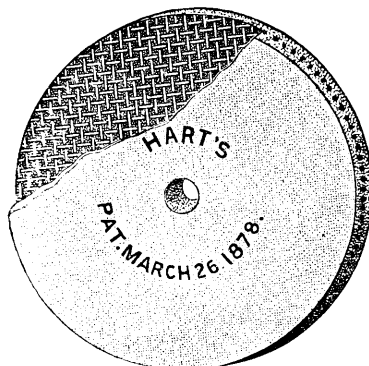
EMERY WHEEL DRESSERS Huntington



For truing, shaping, sharpening and removing glaze from solid emery wheels, running at full speed.

Complete, each.....	\$1.00
Extra Cutting Wheels, per set.....	.15

EMERY WHEELS



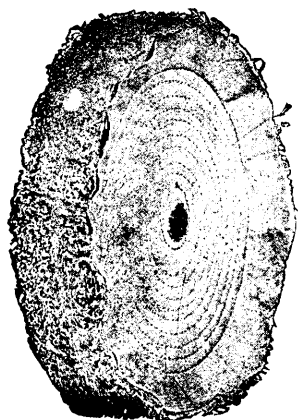
We can supply Emery Wheels suitable for skate-grinding, tool-grinding, plow-work, etc.

Manufacturers' Standard List.

Diam.	Thickness of Wheels in Inches.								
Inches	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$
4	\$1.10	\$1.40	\$1.65	\$1.95	\$2.25	.....	.....	.....	.....
5	1.50	1.90	2.25	2.65	3.00	.....	.....	.....	.....
6	1.90	2.40	2.90	3.40	3.90	4.45	4.95	5.40	\$6.50
7	2.30	2.95	3.60	4.30	4.95	5.60	6.30	6.90	8.20
8	2.70	3.55	4.40	5.20	6.10	6.90	7.80	8.60	10.30
9	.....	.....	5.20	6.30	7.40	8.40	9.50	10.60	12.70
10	.....	.....	6.20	7.50	8.90	10.20	11.50	12.80	15.40
12	.....	.....	.....	.....	.....	13.10	14.90	16.70	20.20
14	.....	.....	.....	.....	.....	.....	.....	21.20	25.80

When ordering, specify diameter of wheel, thickness and size of hole. Large-size wheels will be supplied in grit suitable for plow-work, unless otherwise ordered.

POLISHING WHEELS



Made from muslin cloth, suitable for polishing plowshares and uneven surfaces.

Sizes Carried in Stock.

Price, Each.

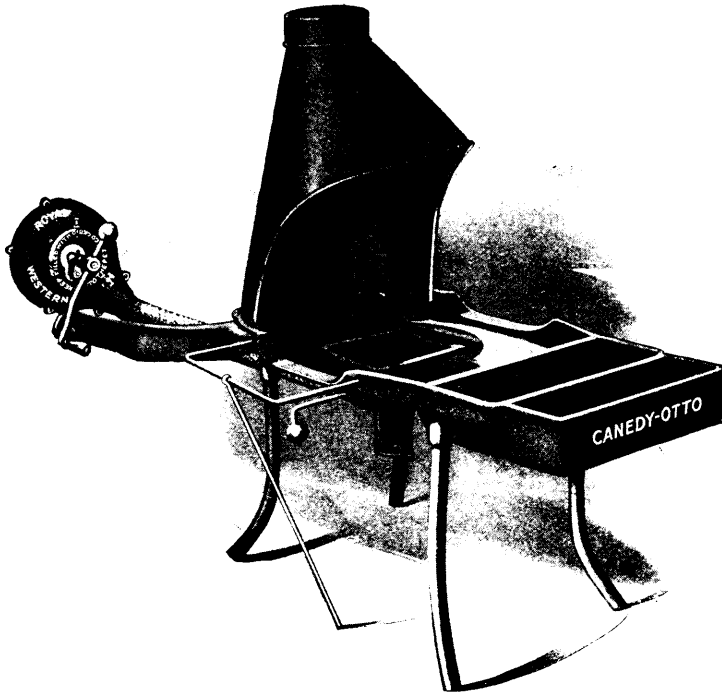
Diam., Ins.	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
8	\$3.00	\$4.00	\$4.80	\$5.60
10	3.20	4.20	5.00	6.20
12	4.50	6.00	7.20	9.00
14	6.00	7.80	9.60	11.40

EMERY POWDER

To be used on Polishing Wheels.
Price per lb., 20c.

LIQUID GLUE

	Price
$\frac{1}{2}$ Pint.....	\$9.40
1 Pint.....	.60
1 Quart.....	1.00

FORGES**Royal Forge. No. 100**

For use in large blacksmith, wagon, plow, railroad shops, etc., where heavy work is done, and a first-class forge and fire are needed.

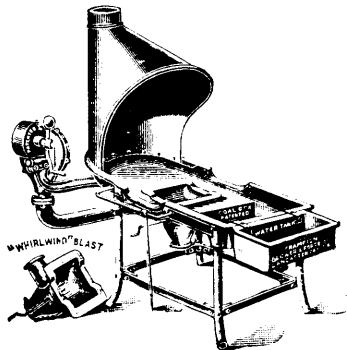
Size of Hearth, $31\frac{1}{2} \times 54\frac{1}{2}$ inches.

Capacity—To heat 4-inch iron.

Height, 30 inches. Fan, 12 inches.

Weight, 295 lbs.

Price, \$60.00.

**Champion Forge. No. 433**

The capacity of this Forge is sufficient for any blacksmith work. It is supplied with the Champion patented sloped bottom coal box, which is entirely out of the way, as it is beneath the level of the bottom of the hearth.

Size of Hearth, 32 x 45 inches

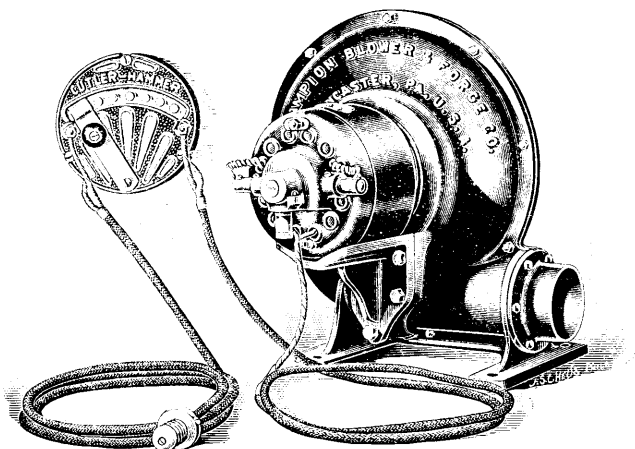
Height, 30 inches. Fan, 12 inches.

Weight, 375 lbs.

Price, \$60.00.

BLOWERS

No. 50. Champion Electric Blower



“The Blower with the Big Motor.” One Fire. Variable Speed.

No. 50 Champion Electric Blower is designed to meet the demands for all blacksmith heating purposes from the smallest up to 4-inch square material, and the variations of the blast are governed by the six different changes in speeds as selected or desired by operator by the movement of the small lever on the detached Rheostat.

No. 50 Champion One-Fire Variable Speed Electric Steel Pressure Blacksmith Blower with Universal Motor, either 110 or 220 volts, with Detached Rheostat for six speeds, with attachment cord and plug to fit any light socket (therefore, can be installed without any expense), and Steel Pressure Fan Case, outlet 3 inches in diameter, for all kinds of general blacksmith work. Will be supplied for alternating current, 110 volts, unless otherwise ordered. Weight, 55 lbs.

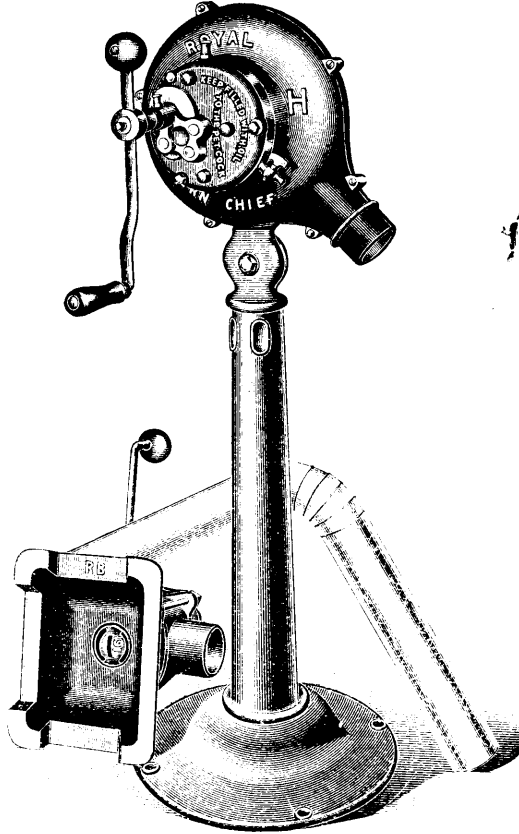
Price \$60.00.

Repair List for Champion Electric Motor as Used on No. 50 Blower

	Price, each
Main Frame.....	\$ 6.00
End Piece.....	3.00
Armature.....	18.00
Commutator.....	8.00
Field Coils (2).....	Pair 8.00
Oil Cups.....	.50
Large Bearing (Give Motor No.).....	1.20
Small Bearing (Give Motor No.).....	1.20
Brush Holder.....	.50
Brushes.....	.25
Brush Springs.....	.25
Brush Terminal.....	.20
Rheostat.....	5.00

BLOWERS

Royal Blower "The Successful Blower"

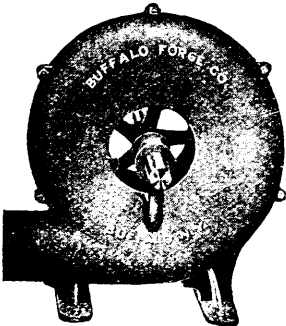


Crank turns forward or backward. Gear case is oil-tight and dust-proof. Gears run in a continuous bath of oil. Fire-pot is $8 \times 9\frac{1}{2} \times 4$ inches inside. Noiseless and easy to operate. Gears are flat and straight cut, made of special materials. No Spiral or Worm Gears. A powerful blast; lasting after blast.

Blower, 12 inches; height, 47 inches; weight, 135 lbs.

Price, Complete with Tuyere Iron, \$40.00.

Price, Blower only, \$30.00.



Power Blower

No. 0. Height, 10 in.; weight, 15 lbs.; for 1 fire.

Price \$16.00.

No. 00. Height, 14 in.; weight, 30 lbs.; for 2 fires.

Price \$20.00.

No. 000. Height, $16\frac{1}{2}$ in.; weight, 50 lbs.; for 3 fires.

Price \$24.00.

BLOWERS

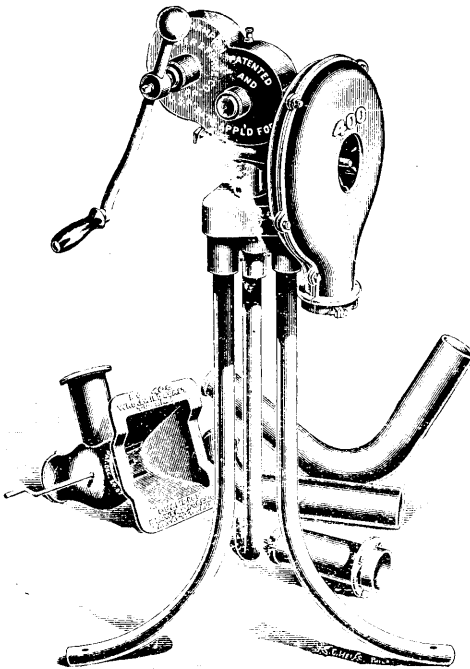
Champion No. 400

12-inch Fan, Crank turns either way.

The Gearing and Adjustable Ball Bearings of **The Famous 400 Blower** are constructed from the highest grade of Phosphor Bronze and Tool Steel, turned up and finished with specially-made automatic machinery. Has adjustable ball bearings turned from the highest grade of tool steel, with cups and cones hardened as hard as glass and then ground to the highest possible polish, making the most durable and practical blower.

Price

Blower, complete with Whirl-	
wind Tuyere Iron.....	\$40.00
Blower only	30.00
Weight, with Tuyere Iron, 160 lbs.	



Jardine No. 12

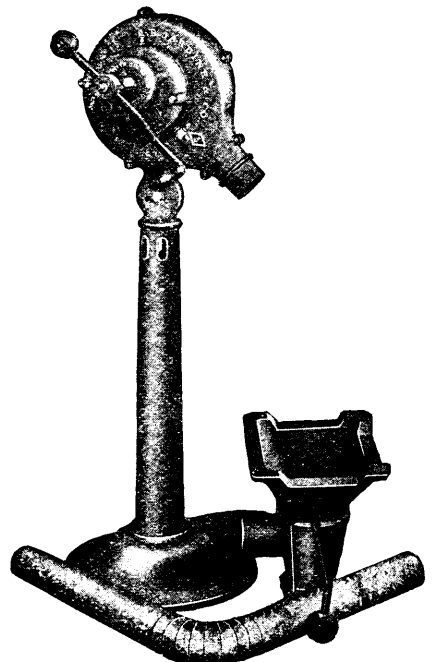
Accurately Made in Every Respect.

The Gears are all cut on the best automatic gear-cutting machinery, and the shafts are all ground straight and true to fit bearings reamed to exact size—insuring wearing qualities and minimum of friction.

The Fan is 12 inches diameter, and can be run in either direction. It gives a strong blast, ample for any black-smith fire.

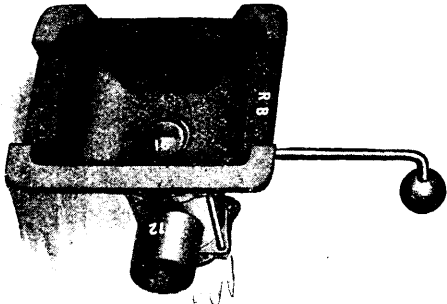
Weight, with heavy Tuyere Iron, 140 lbs.

Price, complete with Tuyere Iron,
\$30.00.



TUYERE IRONS

Mammoth

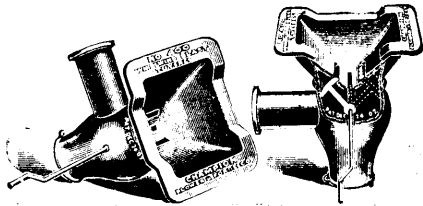


Used With Royal Blowers.

Size inside, 9x11½ inches; depth, 4 inches; weight, 55 lbs.; diameter of inlet, 3 inches. Needs no clay.

Price, each, \$12.00.

Champion “Whirlwind” Blast Anti-Clinker Heavy Nest

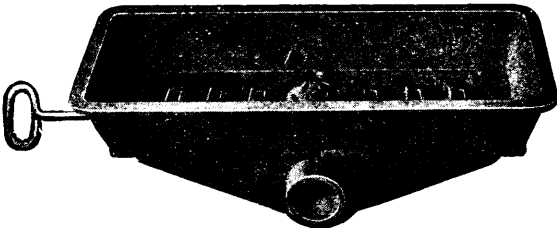


Used With No. 400 Blowers.

Size inside, 8¾x10½ inches; depth, 5 inches; weight, 60 lbs.; size over all, 12¾x14¾ inches.

Price, each, \$12.00.

No. L L Extension

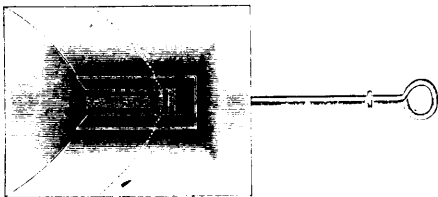


The three narrow blast slots on each side can be closed in pairs—one, two or all three at a time. This makes it possible to have a small fire or a large or long fire, as may be desired.

Size over all, 24x9 inches; depth of firepot, 3½ inches; weight, 90 lbs.

Price, each, \$12.00.

Thompson’s Extension



This Tuyere Iron and Fire Pot is built for plow work and general purposes. Any size fire, 2 inches to 14 inches in length may be had. Easy to adjust and clean. Will give satisfaction for all kinds of work.

Size over all, 15x20 inches; depth, 5½ inches; weight, 65 lbs.

Price, each, \$12.00.



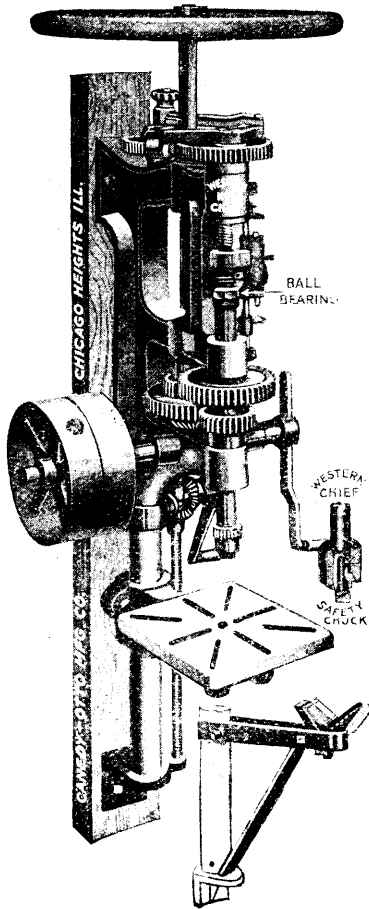
Cast Iron Blast Gates

Outside Diam.	2½ in.	3 in.	4 in.
Net Weight	3 lbs.	5 lbs.	6 lbs.
Price, each	\$1.50	\$2.00	\$2.50

DRILLS

Western Chief Drill No. 16

A Post Drill with the Fine Features of Machine Shop Floor Drills.

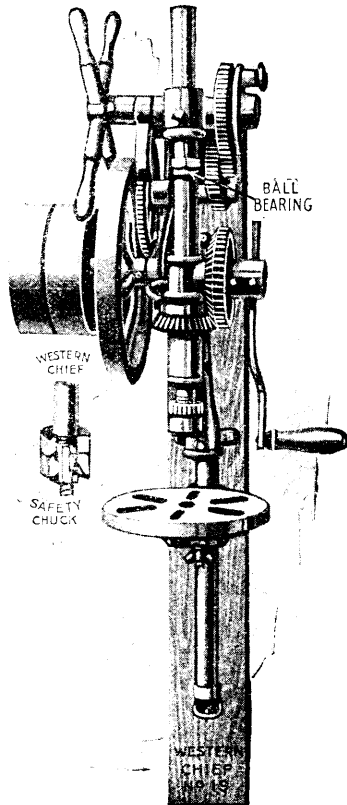


Straight and Bevel Gears are cut.
Fast and Slow Speed, instant change.
Hand Lever Feed, also Horizontal Gear-driven
Positive Self-feed, changed to fast, slow or medium
speed instantly. These feeds work independently
of each other, and bit is lifted quickly.
Raise and lower device to Table.
Drills to centre of 24-inch circle.
Bores 0 to 1½ inches.
Up and Down run of Spindle, 6¼ inches.
Up and Down run of Table, 15½ inches.
Greatest distance from Table to Spindle, 18½
inches.
Size of Pulleys, 10¾x2½ inches. Should run
175 to 180 revolutions per minute.
Spindle bored for ½-inch shank bits.
Weight, 360 pounds.
Always shipped with Pulleys.

Price, \$90.00.

Western Chief Drill No. 19

A Low-priced Combined Hand and Self-feed Drill.
Adapted to Ordinary Shop Use.

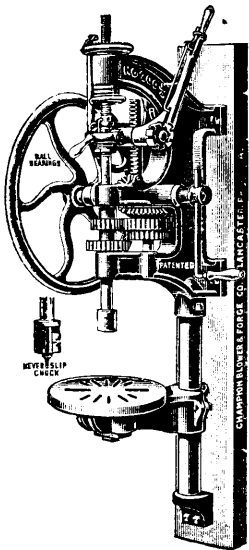


The Hand and Self-feed are independent of each
other, and for quick work, such as wood boring, it
is unsurpassed, as bit is quick-lifted.
Drills to centre of 16½-inch circle.
Bores 0 to 1¼ inch.
Up and Down run of Spindle, 5½ inches.
Up and Down run of Table, 11 inches.
Greatest distance from Table to Spindle, 14
inches.
Size of Pulleys, 8x2 inches.
Should run 190 to 200 revolutions per minute.
Weight, 150 lbs.

Price, \$40.00.

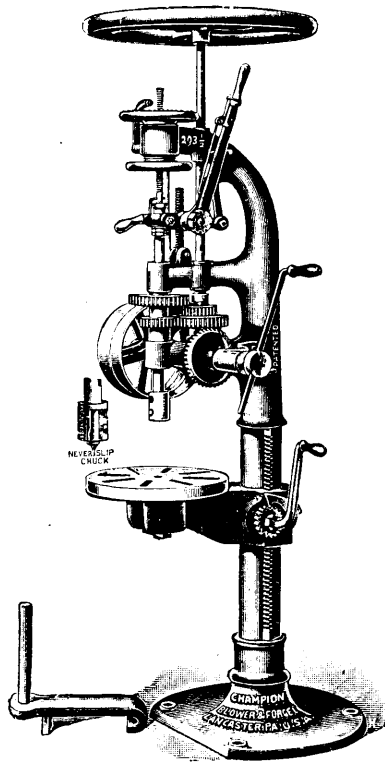
DRILLS

Champion
No. 200 $\frac{1}{2}$



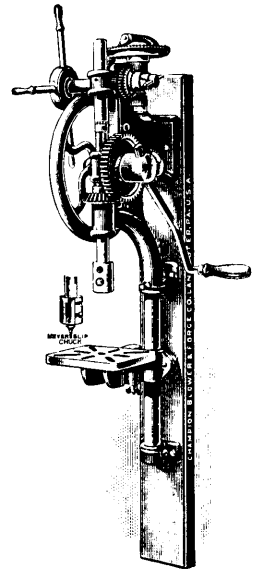
No. 200 $\frac{1}{2}$

Champion
No. 203 $\frac{1}{2}$



No. 203 $\frac{1}{2}$

Champion
No. 97



No. 97

Champion. No. 200 $\frac{1}{2}$

A powerful, medium-priced Blacksmith Drill. Has double compound lever feed, which produces 80 per cent. more pressure at the point. Drills to the centre of an 18-inch circle; drills holes up to 1 $\frac{1}{2}$ inches. Size of pulleys, 11 x 2 $\frac{1}{2}$ inches. Speed, 100 revolutions per minute. Weight, 240 lbs.

Price, Power, \$55.00.

Champion. No. 203 $\frac{1}{2}$

Upright Drill, with Solid Base.

A drill suitable for large blacksmith shops, garages, etc., where heavy and accurate work is required. Combination self-feed and double compound lever feed. Size of Spindle, 1 $\frac{1}{4}$ inches, with Up and Down Run of 5 $\frac{1}{2}$ inches. Drills holes up to 1 $\frac{1}{2}$ inches. Drills to centre of a 21-inch circle. Size of pulleys, 11 x 2 $\frac{1}{2}$ inches. Speed, 80 revolutions per minute. Weight, 625 lbs.

Price, \$150.00.

Champion. No. 97

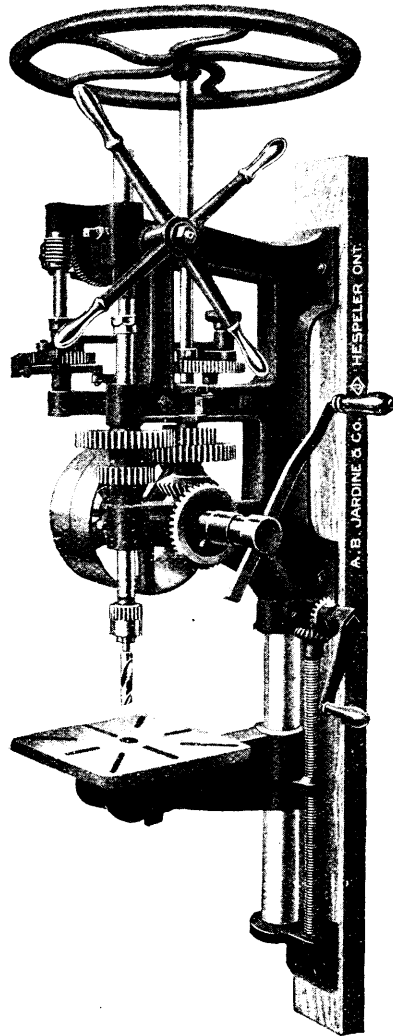
A high-class drill for light work. Hand feed and quick return self-feed. Size of Spindle, 1 $\frac{1}{4}$ inches. Up and Down Run, 5 $\frac{1}{2}$ inches. Drills holes up to 1 $\frac{1}{4}$ inches. Drills to centre of a 16-inch circle. Weight, 160 lbs.

Price, \$25.00.

DRILLS

Jardine Drill. No. 6

An Upright Machine Capable of First-Class Machine Work.



Has Hand Lever Feed, and Power Feed, which can be changed to coarse or fine, as desired. The Feeds are independent of each other, and spindle has quick return.

Fast and slow speed to spindle; instant change of speed.

Perfect cut gearing, both bevel and spur.

Drills to centre of a 24-inch circle.

Takes drills $\frac{1}{2}$ -inch shank.

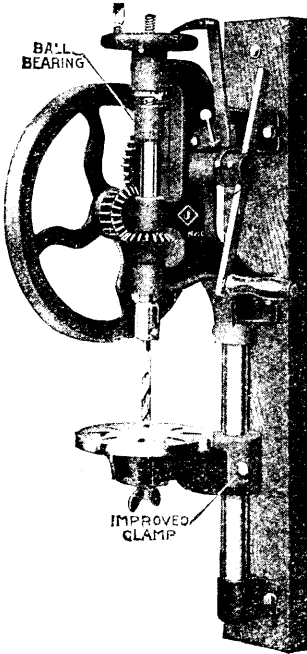
Run of feed, 6 inches.

Table raised and lowered by crank and screw.

Pulleys 10 inches diameter, $2\frac{1}{2}$ -inch face, should run about 175 revolutions per minute.

Weight, 360 lbs.

Price \$80.00.

DRILLS

Jardine Hand Drill
No. 10

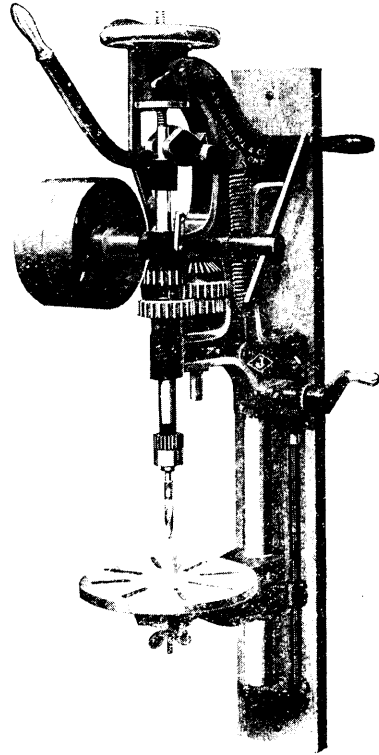
With Ball Bearing.

This machine embodies important improvements, and comes at a price within the reach of any user of a Hand Drill.

It has Ball Bearings between spindle and feed screw, thus minimizing friction. Improved clamp on table arm. Heavy slotted table to hold the work. Automatic feed with three changes, and change of feed can be made while machine is running. Fly wheel turns two and one-half times to one turn of crank.

Drills to centre of 14-inch circle.
Weight, 110 lbs.

Price \$20.00.



Jardine Power Drill
No. 80

With Ball Bearings.

A first-class drill, suitable for all classes of work.

Hand lever feed used for counter-sinking or light drilling.

Back-gear Spindle, giving two speeds, quick change.

Table raised and lowered by crank and screw.

Drills to centre of a 21-inch circle.

Run of feed, 4 inches.

Greatest distance from spindle to table, 15 inches.

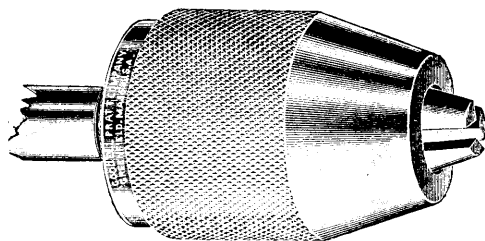
Size of pulleys, 10 by 2½ inches.

Should run about 170 revolutions per minute.

Weight, 285 lbs.

Price \$60.00.

DRILL CHUCKS

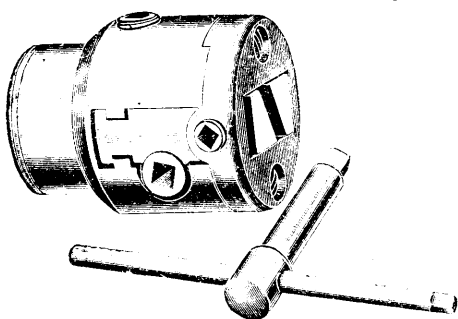


No. 16.

Will take Round Shank Drills from 0 to $\frac{1}{2}$ in.

Price, each, \$3.50.

National Round Body

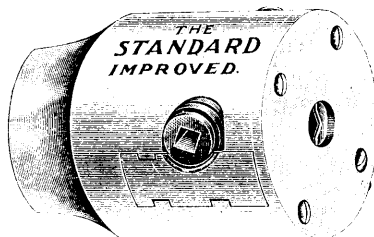


This Chuck is made with three distinct grips that can be applied to the same Tool at the same time, if necessary, or independent of each other, which makes it a positive gripping Chuck. It is not necessary to use each of these grips in all classes of work, but when needed it will be found very convenient to hold the Tool positive.

Capacity, 0 to $\frac{1}{2}$ in.; Round or Square Shank Drills.

Price, each, \$14.00.

The Standard Improved



No. 1

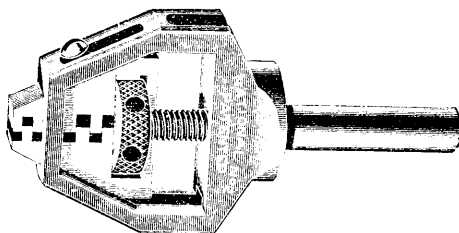
Will hold Round or Square Shank Drills up to $\frac{1}{2}$ inch.

Price, including $\frac{1}{2}$ -in. Arbor, \$14.00.

Price, Arbor only, \$1.00.

National Flat Body

With Solid Arbor.



This Chuck is so simple in construction that it can easily be taken apart and cleaned.

Holds Straight Shank Drills up to $\frac{1}{2}$ inch.

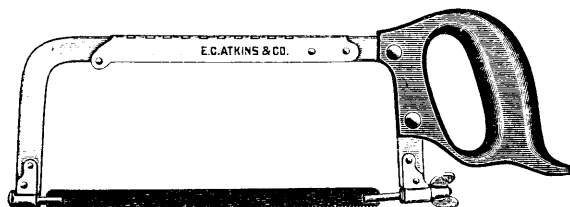
Price, each, \$12.00.



Hack Saw Blades

For Hand.

Length, inches.....	8	9	10	12
Price, per doz.....	\$1.00	\$1.10	\$1.20	\$1.40

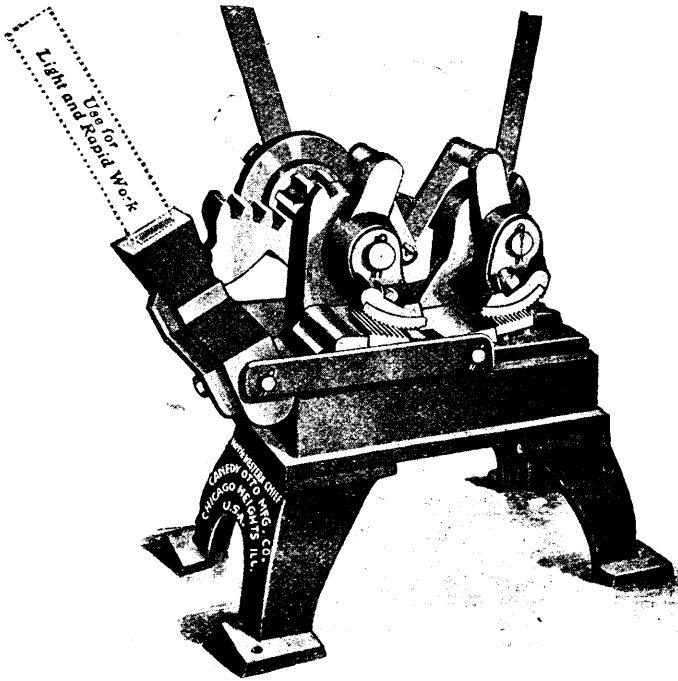


Adjustable Hack Saw Frame

Heavily Nickel Plated Steel Frame, with heavy folded back. Takes blades 8 to 12 inches.

Price each, with hand-saw handle, \$1.25.

Price each, with straight handle, \$1.00.

WESTERN CHIEF TIRE AND AXLE SHRINKERNo. 1 $\frac{1}{2}$ 

The Shrinking Lever pulls toward the machine, not away, as is the case with other makes, and with a powerfully arranged gearing a light man can operate this Shrinker to its full capacity.

The Bed has an open-and-shut movement of 156 inches.

The Jaws are machine-cut, tool steel, properly hardened.

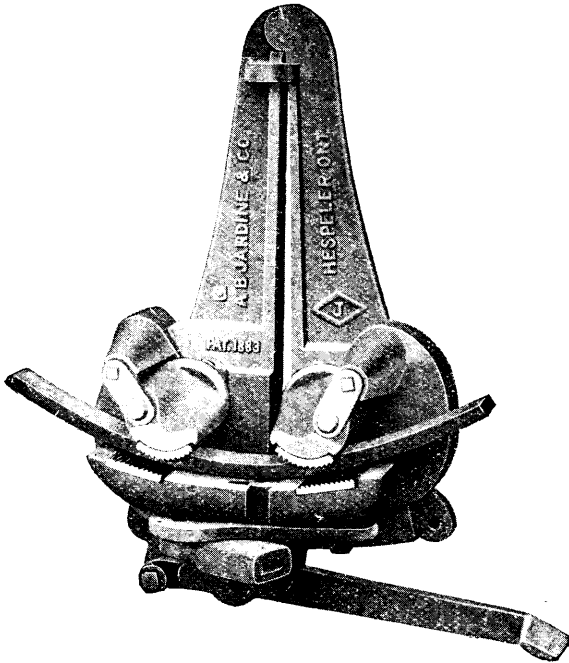
Size of Jaws, 4 $\frac{1}{2}$ inches wide, and will shrink from smallest to 4x1-inch round-edge tires, and 1 $\frac{1}{4}$ -inch square axles.

Weight, 400 lbs.

Price \$80.00.

JARDINE TIRE UPSETTERS

Improved Tire Upsetter No. 2



It has quick grip, both the eccentrics being raised and lowered by one lever. It has strong and sure grip, the eccentrics and jaws being faced with tempered steel. The tire cannot slip.

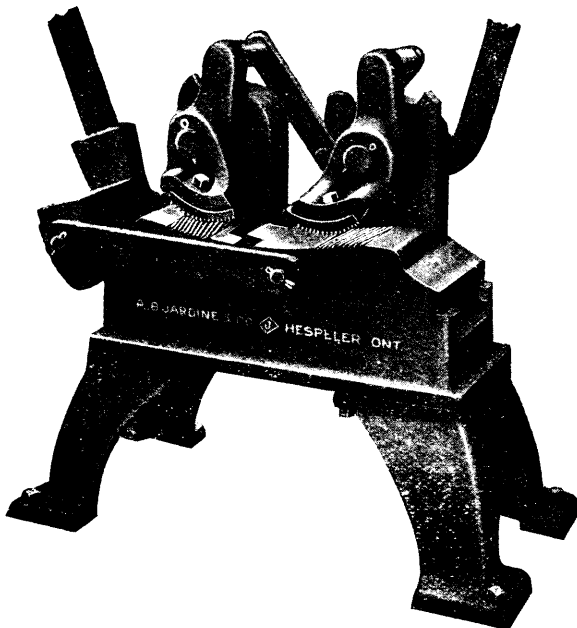
It is durable, the upsetter being made of heavy castings, strong enough to stand the very heavy work it has to do. All pivot pins are of steel. The eccentric strap is a heavy forging, and the machine is well made throughout. Weight, 175 lbs.

No. 2 upsets up to 4 inches

wide.....	\$30.00
Lever Socket.....	1.50
Steel Plates, each	1.50
Eccentric Straps.....	1.70

When ordering steel plate specify upper or lower plate, and right or left side, as you stand facing the machine.

Tire Upsetter No. 5



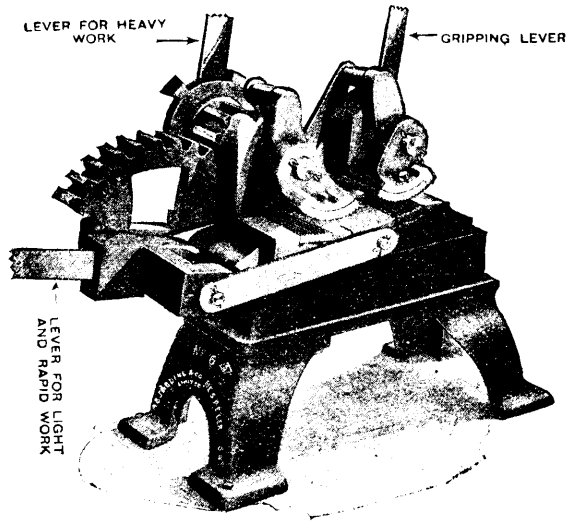
Upsets tires up to 4 inches wide by 1 inch thick, and axles up to 11 1/4 inches.

Jaws are faced with plates of crucible steel, having milled teeth, carefully tempered. Both upper jaws are operated by one lever, giving quick grip.

The machine is extra heavy and calculated to stand the strain of upsetting the heaviest tires up to 4 inches wide.

Weight, 350 lbs.

Price \$70.00.

JARDINE TIRE UPSETTER No. 6

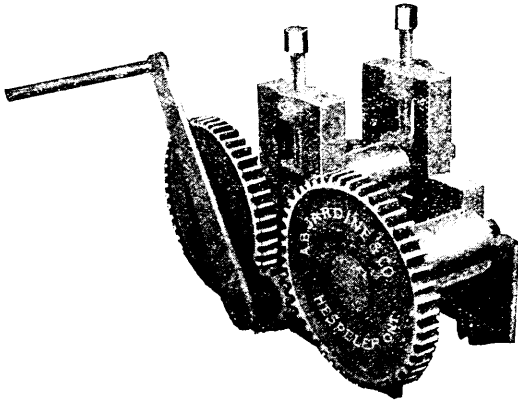
This machine has the usual direct leverage for upsetting light to medium tires, and in addition a geared leverage, increasing the power more than three to one for heavy tires or axles. A man of medium weight can operate it on the heaviest work with ease.

Jaws are of tool steel, teeth are machine cut, carefully tempered.

Upsets any tire up to 4x1 inch, and axles up to 1½ inches.

Weight, 435 lbs.

Price \$80.00.

JARDINE TIRE BENDER No. 2

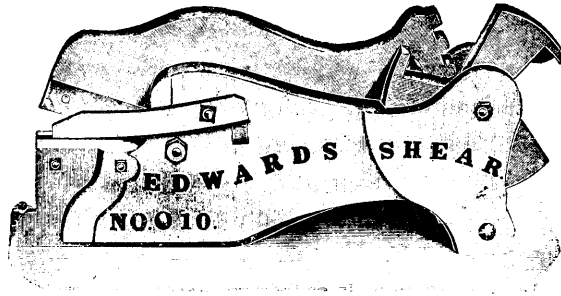
This machine is strongly geared and will bend iron up to 4 inches in width, and is good for tires up to 2x¾ inches. It has change of speed for light and heavy tires. The middle roller is removable to take the tire out after bending or to round up welded tire. A convenient, strong and cheap bender.

Weight, 120 lbs.

Price \$20.00.

EDWARDS' SHEAR

Made in Two Sizes



A powerful, compact and well-built tool.

The best Shear made for the blacksmith or wagon-maker.

No. 5. Cuts Iron or Mild Steel $4 \times \frac{1}{2}$, $\frac{3}{4}$ in. round, and $\frac{1}{4} \times 6 \frac{1}{2}$ in. Plow Steel. Weight, 200 lbs.

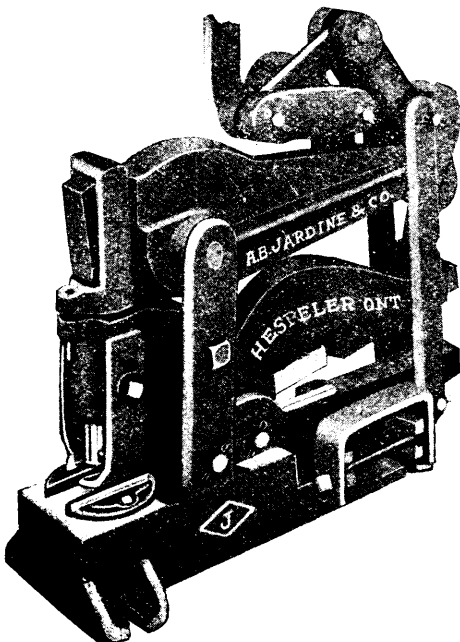
Price \$20.00.

No. 10. Cuts Iron or Mild Steel $4 \times \frac{3}{4}$ or 1 in. round. Weight, 440 lbs.

Price \$35.00.

No handle furnished with these machines.

JARDINE COMBINED PUNCH AND SHEAR



Shears up to $\frac{3}{4}$ inch square or $1 \frac{3}{4} \times \frac{5}{8}$ inches and thinner iron up to 4 inches wide; has a fence or stop for cutting off a number of pieces the same length, and a bar to prevent the work from rising while being cut.

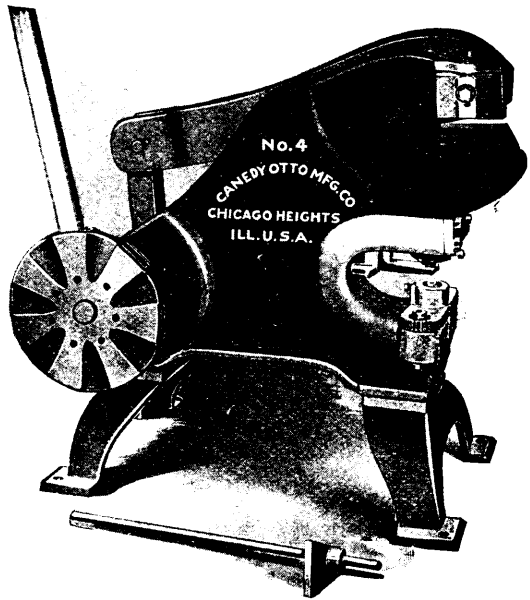
The lower cutter is adjustable for wear. The punch beam is adjustable to accommodate for wear of punches. Centre of punch is $3 \frac{1}{8}$ inches clear of back of throat. It will punch $\frac{3}{8}$ -inch hole in $\frac{3}{8}$ -inch iron, or $\frac{3}{4}$ -inch hole in $\frac{1}{4}$ -inch iron.

The regular assortment of round punches and dies is $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ inch, all $\frac{1}{32}$ inch oversize. Weight, 250 lbs.

Price, with 4 Round Punches and

Dies.....	\$45.00
Extra Round Punches, each.....	.65
Extra Round Dies, each.....	1.50

CANEDY-OTTO COMBINED PUNCH AND SHEAR
No. 4



The No. 4 Combination Punch and Shear is a modern and powerfully-built machine.

It can be operated toward the front or back, whichever is convenient for the user, a feature seldom found on this class of machines.

The material and workmanship are of the best. The knives, punches and dies are made of the best tool steel, properly tempered.

Will shear 1/2x4-inch flat bars. Will punch 1/2-inch hole in 1/2-inch plate.

Will shear 1-inch round bars.

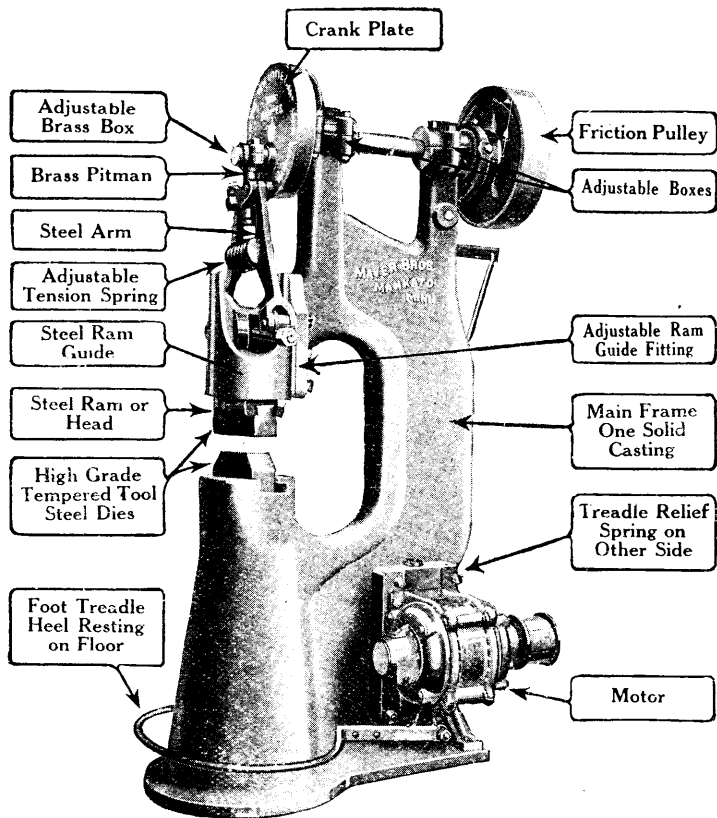
Depth of throat 6 inches.

This machine is furnished with 1/4-inch, 3/8-inch and 1/2-inch punches and dies, also a lever bar.

Net weight, 750 pounds.

Price, Complete.....	\$110.00
Extra Punches, each.....	1.50
Extra Dies, each.....	1.50

NEW LITTLE GIANT POWER HAMMERS



Some Features Which Demonstrate the Superiority of the Original Little Giant Power Hammer

This Power Hammer is perfect in every detail. Its simplicity is in itself the strongest guarantee of strength and durability, and enables one to understand and operate it with a very small amount of practice. The main frame is one solid casting. This facilitates erection, and as the amount of iron used in this casting was arrived at by the most severe tests, the chances of breakage are reduced to a minimum. The Ram, or Striking Head, is a steel casting with machine bearings and runs in a pressed steel channel, which is provided with means for taking up wear. This insures accurate work, and eliminates all chances of breakage. The Dies regularly furnished with the Hammer are adapted for general blacksmithing and plow work, and are composed of high-grade tempered tool steel. They are placed in machined seats, and are held in positions by dowel pins and keys.

SPECIFICATIONS		
	25 lbs.	50 lbs.
Will forge stock up to.....	1 1/2 sq. or 2 rd.	2 sq. or 2 1/2 rd.
Upper Die size of Face.....	3x1 1/2"	3 1/2x1 3/4"
Lower Die size of Face.....	3x2"	3 1/2x2 1/2"
Lower Die length of Base.....	5"	5 1/2"
Weight of Steel Ram.....	25 lbs.	50 lbs.
Weight of Machine.....	800 lbs.	1,600 lbs.
Height over all.....	5 ft. 4 in.	5 ft. 11 in.
Floor Space required.....	16x27"	20x30"
Pulley, size of.....	10x3 1/2"	12x4"
Rev. per Minute.....	400	325
Estimated H.-P. required.....	3/4	1 1/2

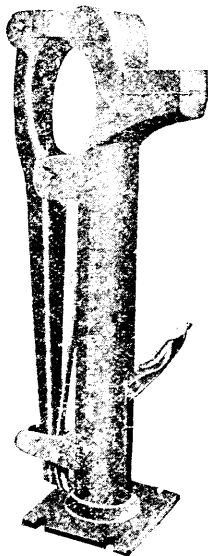
Prices on Application.

Unless Ordered, Motor Will Not be Supplied With Hammer

Repair Parts for Little Giant Power Hammer

No.	25 lbs.	50 lbs.
2. Steel Ram or Head	\$18.50	\$29.00
3. Steel Ram Guide	9.00	13.50
4. Crank Plate	13.60	20.50
5. Friction Pulley	19.75	29.00
6. Friction Block	9.25	13.50
7. Upper Die	5.00	8.00
8. Lower Die	8.75	13.00
10. Friction Covering	.45	.65
11. Shifting Collar	1.70	2.25
12. Steel Arms, each	5.00	7.50
13. Brass Box	10.00	14.75
14. Steel Adjusting Knuckle	4.25	6.50
15. Tension Spring	2.10	2.60
17. Upper Arm Pin	.45	.60
18. Lower Arm Pin	.55	.70
19. Eye Bolt	2.75	4.00
20. Tee Bolt	2.75	4.00
21. Tension Adjusting Knuckle	1.25	2.30
29. Shifting Fork	6.50	8.50
30. Tread Spring	1.30	1.30

FOOT VISES

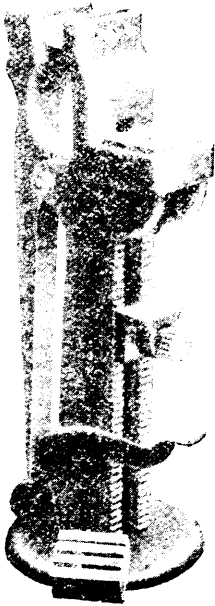


No. 2 Foot Vise

Grips the shoe quickly and holds it firmly. The anvil block is tempered crucible steel, proper shape for inside of calk.

Weight, 190 lbs.

Price, each \$16.00



No. 3 Foot Vise and Bolt Header

This Vise is complete with calking and bolt-heading dies. The bolt-heading dies are easily dropped into place, and are for making bolts to 1 1/2-inch diameter, and up to 24 inches long.

Vise is not interfered with in any way by the bolt-heading attachment.

Weight, 180 lbs.

Price, each \$31.00

OXY-ACETYLENE WELDING PLANTS

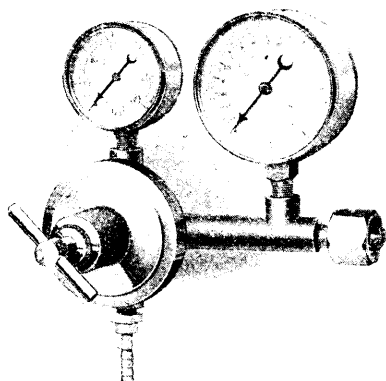
A Necessity for Every Up-to-date Blacksmith Shop, Repair Shop and Garage

The oxy-acetylene process is the one distinctively successful method of fusion welding, most suitable for the widest range of operations.

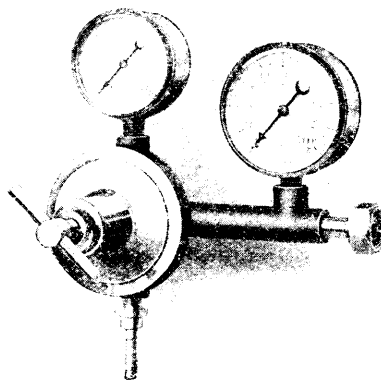
The temperature of the oxy-acetylene flame is approximately 6,300° F. The effect of this tremendous heat at the point of treatment is to bring the metal very rapidly to a molten state so that it flows together and mixes thoroughly with the proper quantity of metal added by the operator to fill up all the crevices.

The molten mass thus formed does not merely cement two pieces of metal together—it fuses them into one piece.

Broken or cracked automobile or gas engine cylinders, crank cases, crank shafts or parts can be welded and made as good as new at a fraction of the cost of new castings or parts. This can be accomplished equally well whether the castings or parts are made of cast iron, malleable, brass, bronze, aluminum or steel; in short, anything that is made of metal that is cracked or broken can be welded and made as good as new by the process of Oxy-Acetylene Welding.



Oxygen Regulator



Acetylene Regulator

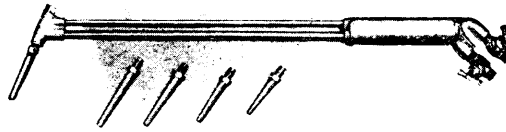
Oxy-Acetylene Welding Plant

Consists of the following apparatus and supplies:

One Welding Torch with 5 assorted tips; 1 Automatic Oxygen Regulator with 50-lb. working pressure gauge and 3,000-lb. drum pressure gauge; 1 Automatic Acetylene Regulator with 30-lb. working pressure gauge and 300-lb. drum pressure gauge; 1 200-foot Oxygen Drum; 1 200-foot Acetylene Drum; Set Hose and Connections (2 12½-foot lengths); Stock of supplies, including: 4 lbs. Cast-Iron Welding Rods, 4 lbs. Steel Non-Oxidizing Wire; 1 lb. Bronze Welding Rods, ½ lb. Aluminum Rods; Tin Cast-Iron Flux; Tin Brass or Bronze Flux; Book of Instructions; Pair of Welders' Glasses. Plant is complete with all keys and connections. Free instruction at our Welding Plant, Winnipeg.

We guarantee the above apparatus to be free from defects in material and workmanship, and to do good work if operated according to instructions furnished.

Price on application.

OXY-ACETYLENE WELDING SUPPLIES**Price-list of Torches, Tips, Regulators, etc.****Welding Torch No. 2**

Our Standard No. 2 Welding Torch is 19 inches long. It is equipped with 5 assorted tips, Nos. 6, 7, 8, 9, 10. When desired this torch can be supplied in longer style for pre-heating work. It is also supplied in shorter lengths for jewellers or for light sheet metal work. For general use the Stanadrd No. 2 Torch will take care of all general repair shop work.

Complete, with 5 assorted Tips, each.....	\$35.00
Automatic Oxygen Regulator with 50-lb. working pressure gauge and 3,000-lb. drum pressure gauge, each.....	30.00
Automatic Acetylene Regulator with 30-lb. working pressure gauge and 300-lb. drum pressure gauge, each.....	25.00
Oxygen Regulator with short connection and working pressure gauge only.....	15.00
Acetylene Regulator with short connection and working pressure gauge only.....	15.00
Extra Torch Tips, any size, Nos. 2 to 10, each.....	1.25
Set Hose and Connections, 2 12½-foot lengths.....	4.00

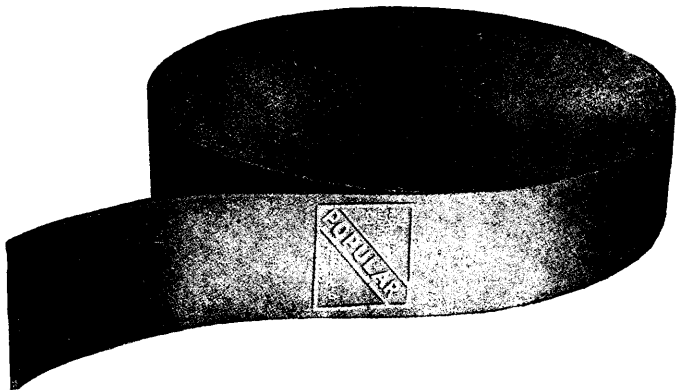
Price-list of Welding Rods and Supplies

We have found from experience that it does not pay to use welding rods of a poor quality, and we cannot advise the use of cheap, low-grade welding material, as it will inevitably result in producing a poor weld. It pays to use the best.

High Silicon Cast-iron Welding Rods			Non-Oxidizing Steel Welding Wire		
Size	Per lb.	50-lb. lots, per lb.	Size	Per lb.	50-lb. lots, per lb.
⅜ in.....	18c.	16c.	1/8 in.....	25c.	22c.
¼ in.....	16c.	15c.	⅜ in.....	23c.	20c.
⅜ in.....	16c.	14c.	½ in.....	23c.	20c.
¼-in. Nickel Steel Welding Rods, per lb.....					\$0.35
¼-in. Special Drawn Tobin Bronze Rods (for Malleable), per lb.....					.65
¼-in. Aluminum Cast Rods, per lb.....					1.00
¼-in. Manganese Bronze Rods (Cast, for brass and bronze welding), per lb.....					.85
Vitrex Retort Cement, per tin, about 10 lbs.....					1.50
Cast-iron Flux, per tin, about 2 lbs.....					1.00
Brass or Bronze Flux, per tin, about 1 lb.....					.75
Welders' Dark Smoked Spectacles and Goggles, per pair.....				\$2.25, \$2.50 and	3.25
High-Pressure Black Hose, ¼ inch, for Oxygen or Acetylene, per foot.....					.16
Hose Connections, ½ inch, each.....					.50
Hose Connections, ¼ inch, each.....					.35
Book of Instructions, each.....					1.50
Asbestos Paper, per lb.....					.20

"Everything for Oxy-Acetylene Welding and Steel Cutting."

BELTING



Rubber Belting

Manufacturers' Standard List.			Price Per Foot.		
Inch	2-Ply	3-Ply	4-Ply	5-Ply	6-Ply
1	\$0.09	\$0.11	\$0.13		
1¼	.11	.13	.16		
1½	.13	.15	.19	\$0.23	
1¾	.15	.17	.22	.27	
2	.18	.20	.25	.31	\$0.37
2½	.22	.25	.31	.38	.46
3	.26	.30	.37	.45	.55
3½	.30	.35	.43	.53	.65
4	.34	.40	.50	.61	.75
4½	.38	.45	.55	.69	.84
5	.42	.50	.61	.76	.91
6	.50	.60	.72	.89	1.08
7	.59	.70	.84	1.04	1.25

Oak Tanned Leather Belting

Manufacturers' Standard List.											
Width, inches	1½	2	2½	3	3½	4	4½	5	5½	6	7
Price per foot, single	.36	.48	.60	.72	.84	.96	\$1.08	\$1.20	\$1.32	\$1.44	\$1.68

WOOD SPLIT PULLEYS

Manufacturers' Standard List.				Width of Face.			
Diameter Inches	3	4	5	6	8	10	12
4	\$2.80	\$2.90	\$3.10	\$3.30			
5	2.85	2.95	3.20	3.40			
6	2.90	3.00	3.25	3.50			
7	2.95	3.05	3.35	3.60			
8	3.00	3.10	3.40	3.70	\$4.30	\$4.90	
9	3.10	3.25	3.60	3.90	4.55	5.20	
10	3.25	3.40	3.75	4.10	4.80	5.50	\$6.20
11	3.50	3.70	4.10	4.50	5.30	6.10	6.90
12	3.75	4.00	4.45	4.90	5.80	6.70	7.60
13		4.30	4.80	5.30	6.30	7.30	8.30
14		4.60	5.15	5.70	6.80	7.90	9.00
15		4.90	5.50	6.10	7.30	8.50	9.70
16		5.20	5.85	6.50	7.80	9.10	10.40
17		5.50	6.20	6.90	8.30	9.70	11.10
18		5.80	6.55	7.30	8.80	10.30	11.80
19		6.10	6.90	7.70	9.30	10.90	12.50
20		6.40	7.25	8.10	9.80	11.50	13.20
22		7.00	7.95	8.90	10.80	12.70	14.60
24		7.70	8.80	9.90	12.10	14.30	16.50
26		8.40	9.65	10.90	13.40	15.90	18.40
28		9.10	10.50	11.90	14.70	17.50	20.30
30		9.80	11.35	12.90	16.00	19.10	22.20

When ordering, state: 1st, Diameter of Pulley; 2nd, Width of Face; 3rd, Exact Size of Shaft. Straight-Face Pulleys will be supplied unless otherwise ordered.

BABBITT METAL



Harris Heavy Pressure

A four-inch cake that fits a four-inch ladle.

Designed for the express purpose of overcoming the troubles of soft bearings that squeeze out, and of hard bearings that crack in the box or cut the shaft.

Put up in 100, 50 and 25-lb. boxes.

Price per lb..... 59c.



STAR FRICTIONLESS A medium-priced metal for all ordinary work. Price per lb..... \$0.30

NO. 4 METAL A low-priced metal for slow-running bearings. Price per lb..... .20

AUTO METAL—The highest grade high-speed metal made. For heavy engine and extraordinarily hard work. This metal contains no lead. Price per lb..... 1.90

SOLDER Strictly half and half. Price per lb..... .60

ADJUSTABLE DROP HANGERS

Price Each, Complete with Bearings.

Size of Shaft	Style of Bearing	10 in.	12 in.	14 in.	16 in.	18 in.	20 in.
1 3/16	Capillary	\$5.10	\$5.30	\$5.55	\$ 6.05	\$ 6.45	\$ 6.90
1 1/4	Ring Oiling	5.30	5.50	5.75	6.25	6.65	7.10
1 7/16	Capillary	5.85	6.05	6.30	6.40	6.80	7.25
1 1/2	Ring Oiling	6.05	6.25	6.50	6.60	7.00	7.45
1 7/16	Capillary	6.10	6.30	6.55	6.65	7.05	7.50
1 1/2	Ring Oiling	6.30	6.50	6.75	6.85	7.25	7.70
1 13/16	Capillary	9.25	9.40	9.70	9.95	10.20	10.70
1 15/16	Ring Oiling	9.50	9.65	9.95	10.20	10.45	10.95

Rules for Calculating Speed of Pulleys

Problem I.—The diameter of the driver and driven being given, to find the number of revolutions of the driven:

Rule.—Multiply the diameter of the driver by its number of revolutions, and divide the product by the diameter of the driven; the quotient will be the number of revolutions.

Problem II.—The diameter and the revolutions of the driver being given to find the diameter of the driven, that shall make any given number of revolutions in the same time:

Rule.—Multiply the diameter of the driver by its number of revolutions, and divide the product by the number of revolutions of the driven; the quotient will be its diameter.

Problem III.—To ascertain the size of the driver:

Rule.—Multiply the diameter of the driven by the number of revolutions you wish to make, and divide the product by the revolutions of the driver; the quotient will be the size of the driver.

COMMON PILLOW BLOCKS With Babbitted Bearings

Size Shaft, in.....	1 $\frac{1}{8}$	1 $\frac{3}{16}$	1 $\frac{5}{16}$	1 $\frac{7}{16}$	1 $\frac{11}{16}$	1 $\frac{13}{16}$
Price, each.....	\$1.20	\$1.20	\$1.30	\$1.60	\$2.20	\$2.90

RIGID POST BOXES With Babbitted Bearings

Size Shaft, in.....	1 $\frac{3}{16}$	1 $\frac{7}{16}$	1 $\frac{11}{16}$	1 $\frac{13}{16}$
Price, each.....	\$4.00	\$5.00	\$5.75	\$6.75

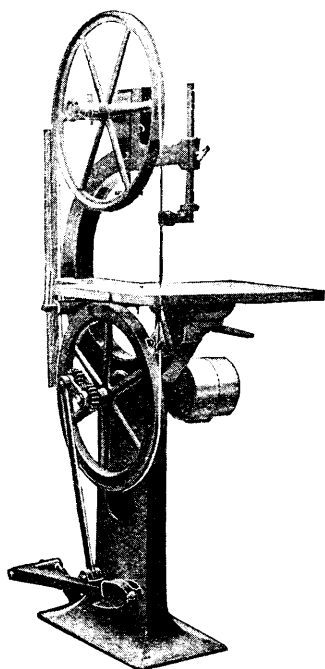
COMPRESSION COUPLINGS Ribbed. Fitted with Bolts and Keys

Size Shaft, in.....	1 $\frac{3}{16}$	1 $\frac{7}{16}$	1 $\frac{11}{16}$	1 $\frac{13}{16}$
Price, each.....	\$5.00	\$6.00	\$7.00	\$8.50

SOLID SAFETY COLLARS

Size Shaft, in.....	1 $\frac{3}{16}$	1 $\frac{7}{16}$	1 $\frac{11}{16}$	1 $\frac{13}{16}$
Price, each.....	\$0.90	\$1.00	\$1.20	\$1.40

SILVER 20-in. POWER BAND SAW



This Band Saw has a handsomely designed frame, that rests on the floor all around, insuring solidity and cleanliness.

The wheels are turned true and perfectly balanced. Rubber bands are securely cemented to rims. Upper wheel has up and down adjustment of several inches.

Table on a 20-inch saw can be tilted for angle sawing up to 45 degrees.

Dimensions.

Wheels—20 $\frac{1}{2}$ in. Diameter, 1 $\frac{3}{8}$ in. Face.

Table—18 x 22 in.

Base—11 $\frac{1}{2}$ x 23 in.

Pulleys—7 x 3 in., 3-in. Belt.

Speed to Run—300 to 400 R. P. M.

Floor Space—24 x 30 in.

Distance Between Saw and Frame—20 $\frac{1}{2}$ in.

Height Under Saw Guide when Raised—9 in.

Height Over All—67 in.

Power Required—1 to 2 Horse.

Saw Blades—10 ft. 5 in. Long, $\frac{1}{4}$ in. Wide.

Weight—345 lbs.

Price—On Application.

NARROW BAND SAWS For Re-sawing and Scroll Sawing

Size, in.....	1 $\frac{1}{4}$	3 $\frac{3}{8}$	1 $\frac{1}{2}$	5 $\frac{1}{8}$	3 $\frac{1}{4}$	7 $\frac{1}{8}$	1	1 $\frac{1}{8}$	1 $\frac{1}{2}$
Price per foot.....	\$0.18	.20	.22	.26	.30	.34	.38	.42	.46

Extra for Filing and Setting, per foot..... .04

Extra for Brazing: $\frac{1}{4}$ to $\frac{1}{2}$ in., 50c.; $\frac{5}{8}$ to $\frac{7}{8}$ in., 60c.; 1 to 1 $\frac{1}{4}$ in., 75c.

Blades for 20-in. Band Saw carried in stock. Other sizes supplied on short notice.

WRENCHES

The Bay State Ratchet Wrenches



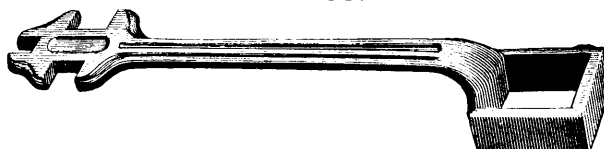
Tightens or removes nuts much quicker than an ordinary wrench.
Specially suited for Tire Bolts and small Carriage Bolts.

No.	For Bolts, ins.	Size Openings, ins.	Length, ins.	Price, each
1	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $1\frac{5}{32}$	6	\$1.10
2	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{5}{8}$	7	1.35

Lang's Tire Bolt Wrenches

Will take $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$ and $\frac{3}{8}$ -inch nuts. Price each.....\$2.25

Malleable Buggy Wrenches



No. 7320

	C	D	E	F	G
For Axle Nuts, ins.....	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$
Size Openings, ins.....	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$
Length, ins.....	$9\frac{1}{2}$	10	10	$10\frac{1}{2}$	$10\frac{1}{2}$
Price Per lb.....					\$0.24

Malleable Buggy Wrenches



No. 7324

A Combination Wrench for Axle Nut and Cap.

Axle Nut	Cap Nut	Openings	Length	Price Per Lb.
$1\frac{1}{2}$ in.	$1\frac{1}{2}$ in.	$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ in.	9 in.	\$0.24

Crescent Adjustable Wrenches



Polished Head, Enamelled Handle.

Size, ins.....	4	6	8	10	12
Opening, Size, ins.....	$\frac{9}{16}$	$\frac{3}{4}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$
Price, each.....	\$0.70	\$0.70	\$0.85	\$1.05	\$1.30

Westcott Adjustable "S" Wrenches

Forged Steel Jaw, Malleable Handle.

Size, ins.....	6	8	10	12
Opening, ins.....	$\frac{3}{4}$	1	$1\frac{3}{8}$	$1\frac{3}{4}$
Price, each.....	\$0.85	\$1.00	\$1.15	\$1.35

WRENCHES

Machinists' Knife Handle Wrenches



Drop Forged in One Piece. With Riveted Hardwood Handle.

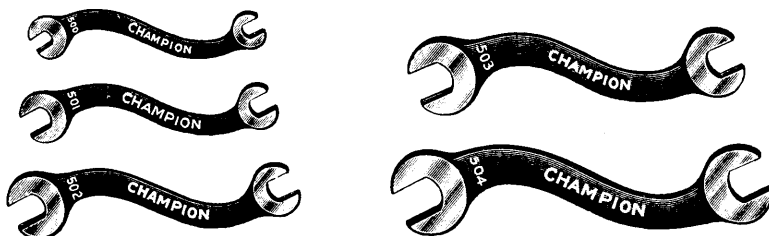
Length, inches	6	8	10	12	15	18	21
Opening, inches	1	1½	1⅞	2¼	2¾	3	3⅞
Price, each	\$1.50	\$1.70	\$2.00	\$2.35	\$4.00	\$5.00	\$6.00

Stillson Pipe Wrenches

Length, inches.	6	8	10	14	18	24
Takes Pipe, inches.	½ to 1½	¾ to 3¼	1 to 1	1¼ to 1½	1¼ to 2	1¼ to 2½
Price, each.	\$2.00	\$2.00	\$2.25	\$3.00	\$4.00	\$6.00

Sizes from 6 in. to 14 in. have Wood Handles. Sizes 18 in. and larger have Steel Handles.

Steel "S" Wrenches



Drop Forged Steel, Milled Openings, 22½° Angle.

Nos.	500	501	502	503	504
Openings, inches	3/8 & 1/2	1/2 & 5/8	5/8 & 3/4	3/4 & 7/8	7/8 & 1
Length Over All, ins.	6 1/4	7 1/8	8 1/4	9 1/4	10 3/8
Thickness of Heads, ins.	7/32	1/4	5/16	3/8	7/16
Unfinished, each.	\$0.15	.20	.25	.30	.35
Semi-Finished, each.	.20	.30	.40	.50	.60

For carriage and automobile trade and for general service in which a long, light wrench is required.

Price Per Set of Five Wrenches, Unfinished	\$1.25
Semi-Finished	2.00

Malleable "S" Wrenches

No. 7338



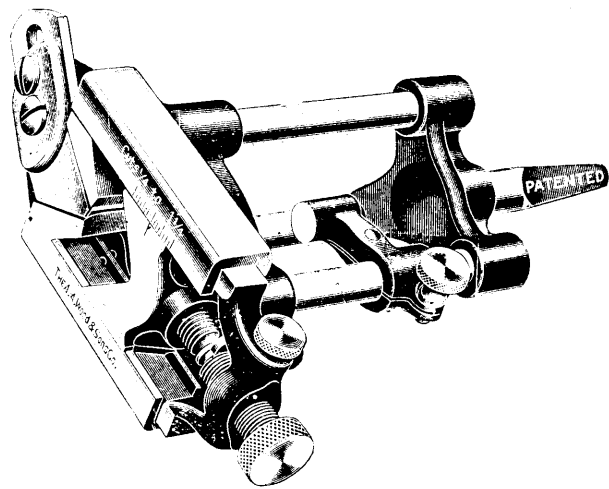
	A	B	C	D	F
Size Nuts, ins.	3/16 & 1/4	1/4 & 5/16	5/16 & 3/8	3/8 & 7/16	7/16 & 1/2
Size Openings, ins.	3/8 & 1/2	1/2 & 5/8	5/8 & 11/16	11/16 & 13/16	13/16 & 7/8
Price, each	\$0.12	.14	.16	.20	.25
Price Per Set of Five Wrenches					.85

Steel Double Head Angle Wrenches

Semi-Finished.

No.	550	551	552	553	554
Size Nuts, ins.	3/16 & 1/4	1/16 & 3/8	7/16 & 1/2	1/16 & 5/8	3/4 & 7/8
Price Per Set of Five					\$2.10

WOOD'S "UNIVERSAL" HOLLOW AUGER



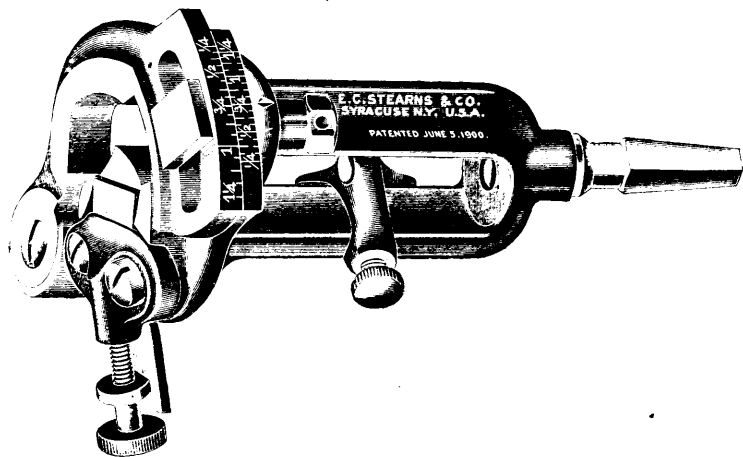
No. B1—All Steel

It cuts a tenon any size from $\frac{1}{4}$ inch to $1\frac{1}{4}$ inches, any length up to 4 inches. The knife will cut any desired thickness of chip, without changing set of Auger in size.
By turning the thumb screw, it is the work of only a second to set the Auger to cut any size tenon to suit the bit being used.

Every part of this tool is steel; all screws are milled from steel bars, and wearing parts are hardened.

No. B1. As illustrated. Price, each	\$7.00
No. B2. Same as above, but with $\frac{1}{2}$ -in. round shank for machine use	7.00
Extra Knives. Each .....	.50

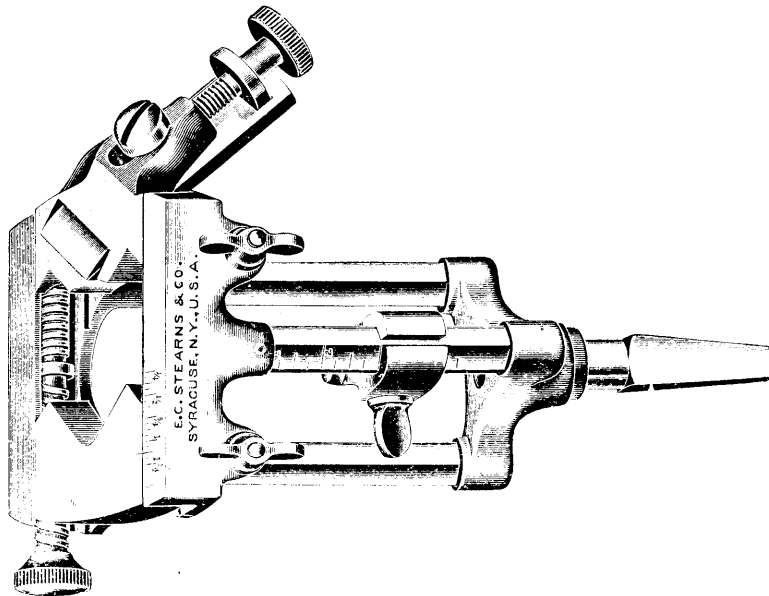
STEARNS' HOLLOW AUGER. No. 60



Cuts any size tenon from $\frac{1}{4}$ to $1\frac{1}{4}$ inches. The pivoted jaws are provided with a graduated scale by which the size of the tenon is regulated.
To secure required length of tenon a movable stop is provided.

Price, each	\$4.75
Extra Knives. Each .....	.50

STEARNS' HOLLOW AUGER. No. 55



An all-steel hollow Auger, with patented adjustment which allows the knife to be moved forward and backward without the use of tools, by simply turning the knurled head adjusting screw.

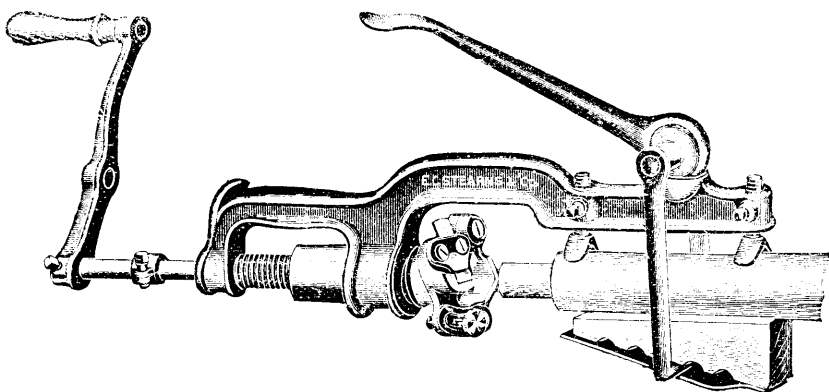
Cuts any size tenon from $\frac{1}{4}$ inch to $1\frac{1}{4}$ inches, inclusive.

Price, each.....\$7.00

Extra knives, each......50

PEACE'S IMPROVED SPOKE TENONING MACHINE

With Adjustable Hollow Auger

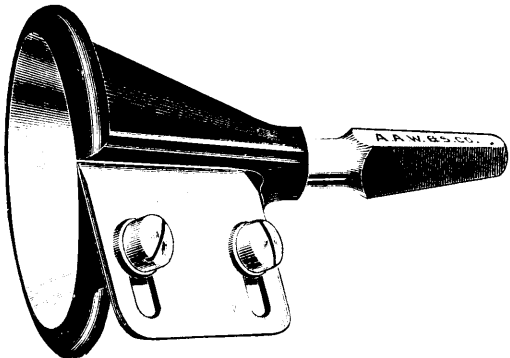


The knife starts on the blunt end of the spoke and centres perfectly. The chuck, to hold bit for felloe boring, is adjusted without removing the cutter head, and is kept cutting by force of a spring. Is adapted to any size spoke or dish of wheel. Easily clamped to the spoke in a second's time, and is as quickly detached. Cuts every tenon perfectly true. Careful adjustment of the forked screws will centre the Auger perfectly. Full directions are sent with each machine.

No. 50. Without Felloe Boring Attachment, cuts tenons up to $1\frac{1}{4}$ inch. Each.....\$16.50

No. 51. With Felloe Boring Attachment, cuts tenons up to $1\frac{1}{4}$ inch. Each..... 18.00

SPOKE POINTERS

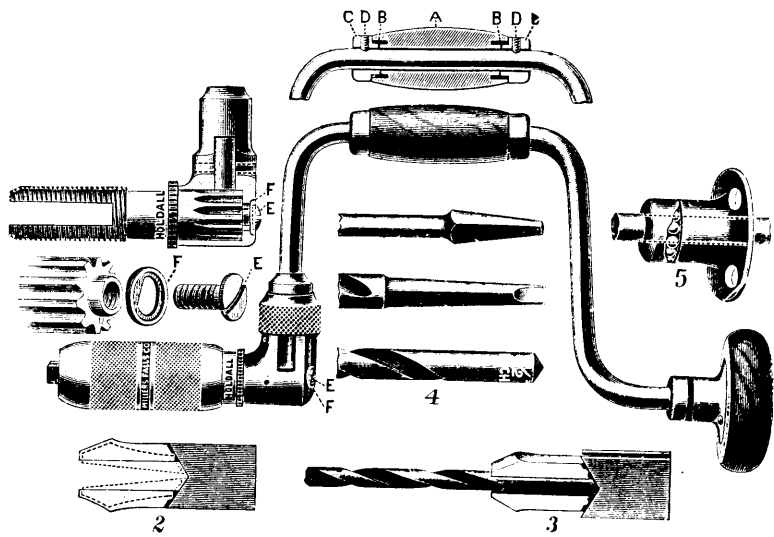


Made Entirely From Steel

No. C1.	Capacity, 2 1/2 inches down to 1/4 inch.	Price, each	\$1.25
No. C2.	Capacity, 2 3/4 inches down to 1/4 inch.	Price, each	\$1.50

BRACES

Holdall Ratchet, Ball Bearing



FULL POLISHED AND NICKEL PLATED

Steel Sweep, Ball Bearing Cocobolo Head, Non-Splitting and Free-Acting Cocobolo Sweep Handle with Inserted Steel Rings and Adjustable Bearings, Forged Steel Jaws.
Chuck holds Round Shanks from 1/8 to 1/2 in. diameter, No. 1 Morse Taper and all sizes of Bit Stock and Extension Bit Shanks.

No	733	732	731	730
Size Sweep, inches	8	10	12	14
Price, each	\$4.25	\$4.50	\$4.75	\$5.00

Barber Improved Ratchet. No. 322

Heads and Handles are stained hardwood, and exposed metal parts polished and nickeled. 10-inch Sweep.

Price, each	\$3.50
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IRWIN AUGER BITS



Genuine Irwin Auger Bits. Solid Centre Stem, Double Cutter

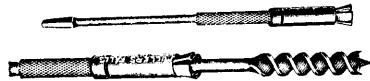
Size, inches.....	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$
Price, each.....	\$0.40	\$0.40	\$0.40	\$0.40	\$0.45	\$0.50	\$0.55
Size, inches.....	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$
Price, each.....	\$0.55	\$0.60	\$0.70	\$0.75	\$0.85	\$1.00	\$1.10

CLARK EXPANSIVE BITS

Cast Steel, Polished

Size No. 1. With two Cutters, cutting $\frac{1}{2}$ in. to $1\frac{1}{2}$ in. Price, each.....	\$1.80
Size No. 2. With two Cutters, cutting $\frac{7}{8}$ in. to 3 in. Price, each.....	\$2.60

EXTENSION BIT HOLDER No. 5



Length of extension 15 in. Will follow a bit $\frac{5}{8}$ -in. in diameter and larger. With this extension holes can be bored in places that cannot be reached by an ordinary brace and bit. Nickel-plated steel, polished.

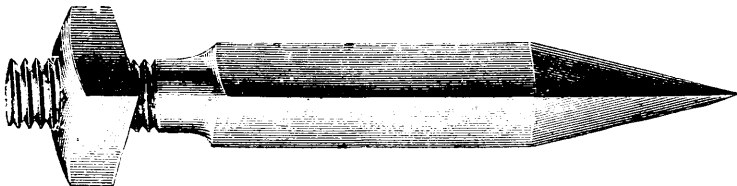
Price, each.....\$2.00

GIMLET OR SCREW BITS

Size, inches.....	4 32	5/32	6/32	7/32	8/32	9/32	10/32	11/32	12/32
Price, per dozen, all sizes.....	\$2.00								

HARROW TEETH

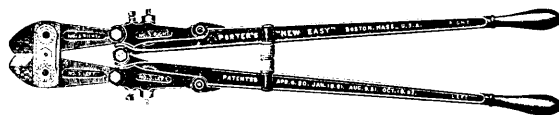
Threaded, With Nuts



$\frac{9}{16}$ in. square, with $\frac{1}{2}$ -in. square nut.

Short shank, $1\frac{1}{4}$ thread. Price per 100.....	\$7.25
Long shank, $1\frac{3}{4}$ thread. Price per 100.....	7.25

PORTER'S "NEW EASY" BOLT CLIPPERS

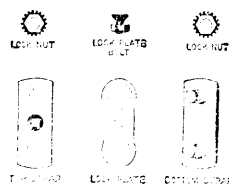
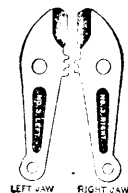


With Set Screw Adjustment

High-grade Tool Steel Jaws, Japanned Malleable Iron Handles, Rubber Buffers

Nos.	0	1	2	3
Length, inches	18	24 1/2	30	36
Cuts Bolts, inches	5/16	3/8	1/2	5/8
Weight each, lbs.	3	5 3/4	9	13
Each	\$4.00	\$5.50	\$7.50	\$9.50

Repair Parts for "New Easy" Bolt Clippers



Manufacturer's Standard List

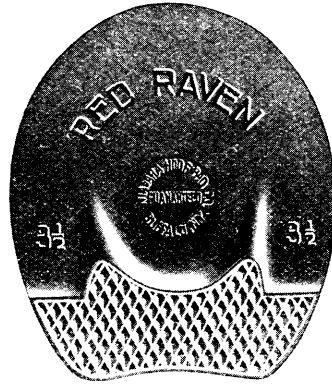
No.	0	1	2	3
	Price	Price	Price	Price
Cutter Head, complete. (See cuts of parts)	\$2.10	\$2.70	\$3.70	\$4.65
Pair Cutting Jaws, ready for use	1.35	1.65	2.35	3.00
One Cutting Jaw, ready for use	.68	.83	1.18	1.50
Bottom Strap, with 2 steel bolts	.40	.50	.60	.70
Top Strap	.10	.20	.30	.40
Lock Nuts, pair	.10	.15	.20	.25
Lock Plate	.10	.15	.20	.25
Lock Plate Bolt	.05	.05	.05	.05
Pair of Handles, complete. (See cut of parts)	1.90	2.30	3.30	4.35
One Handle, complete	.95	1.15	1.65	2.20
One Handle, without parts, long piece only	.40	.50	.90	1.35
Adjusting Sections, with one rivet, each	.25	.30	.35	.40
Steel Adjusting Screws, pair	.10	.12	.14	.16
Steel Bolts, to connect jaws and handles, pair	.10	.12	.14	.16
Eye Bolts, with nuts and rivets, pair	.20	.25	.30	.35
Rubber Buffers, with rivets and washers, pair	.20	.25	.30	.35

PORTER'S "OK" TIRE BOLT CLIPPERS

For Light Work

No. 10.	Cuts up to $\frac{3}{16}$ inch.	Length 10 inches.	Price each	\$2.15
No. 14.	Cuts up to $\frac{1}{4}$ inch.	Length 14 inches.	Price each	2.50

HOOF PADS



Red Raven Rubber Pads

Red Heavy Composition Backs

No.....	2	2½	3	3½	4	4½	5	5½	6	7
Price per pair.....	\$1.10	\$1.10	\$1.10	\$1.20	\$1.20	\$1.25	\$1.35	\$1.45	\$1.50	\$1.60

Heavy Reliable Rubber Pads

Leather Backs

No.....	2	2½	3	3½	4	4½	5	5½	6	7
Price per pair.....	\$1.30	\$1.30	\$1.35	\$1.40	\$1.40	\$1.45	\$1.55	\$1.60	\$1.60	\$1.75

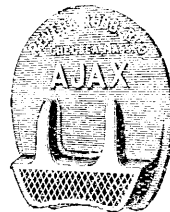
Dunlop Rubber Bar Pads

Leather Backs

No.....	2	2½	3	3½	4	4½	5	5½	6	7
Price per pair.....	\$1.30	\$1.30	\$1.35	\$1.40	\$1.40	\$1.45	\$1.55	\$1.60	\$1.60	\$1.75

Ajax Rubber Pads

Leather Backs



No.....	3	3½	4	4½	5	5½	6	7
Price per pair.....	\$1.50	\$1.55	\$1.55	\$1.60	\$1.70	\$1.85	\$1.85	\$1.90

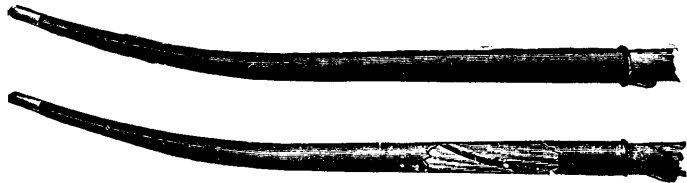
PLAIN SOLE LEATHERS

Cut to Shape

No.....	1	2	3	4	5	6	7	8
Price per pair.....	25c.	30c.	35c.	40c.	45c.	50c.	55c.	60c.

When Using Pads, We Recommend the Use of PEAT MOSS Hoof Stuffing

SHAFT SPLICES



CUT SHOWING SPLICE JOINT.
Japanned.

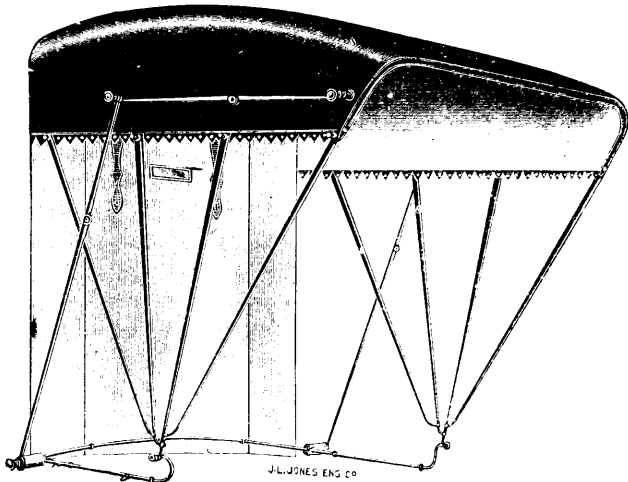
No. 1. For Buggies.	Price per pair	\$1.00
No. 2. For Surries, Spring Wagons, etc.	Price per pair	1.20

POLE SPLICES

Japanned.

1 3/4-in. Opening, 24 in. Long.	Price each	\$1.10
1 7/8-in. Opening, 24 in. Long.	Price each	1.20

BUGGY TOPS



No. A. An Unlined Top, Four Bows, Sectional Rail and Slip Eyes.	Price each	\$24.00
No. B. A Lined Top, Four Bows, Rubber Top, Dark Green Head Lining, complete with Side Curtains.		

Price each 29.00

When ordering, state width of top required.

UNION HEAD LINING

Width, 54 inches.

Dark Green, per yard	\$1.00
Dark Blue, per yard	1.00

CARRIAGE TOP RUBBER

White Back, width 50 inches.

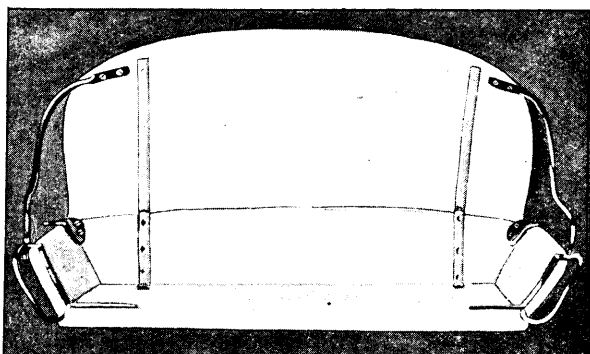
Ounces per yard	20	22	24	26	28	30
Price per yard	\$1.35	\$1.45	\$1.50	\$1.60	\$1.65	\$1.75
Extra for Green or Brown Back, per yard						.20

SIDE CURTAIN RUBBER

Width, 36 inches.

Green Back, per yard	\$1.45
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IRONED BUGGY SEATS

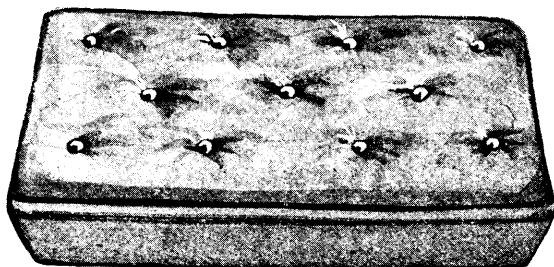


	Price, Standard Widths
Seat Tray and Back, not ironed.....	\$3.40
Seat Tray only, not ironed.....	2.40
Seat Tray and Back, ironed.....	6.10
Seat Tray only, ironed.....	3.50

Trimmed Seats

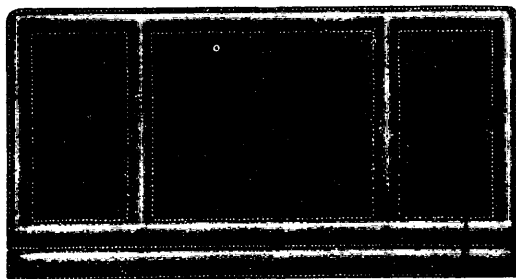
Seat and Back, ironed and trimmed complete.	Plain style	\$ 9.70
Seat and Back, ironed and trimmed complete.	Pleated style	10.30

REPAIR CUSHIONS--Plain, no Springs



Plain Style, Enamelled Drill, all sizes up to 15 x 36 in. Price, each..... \$4.00
An extra charge will be made for cushions wider than 36 in.

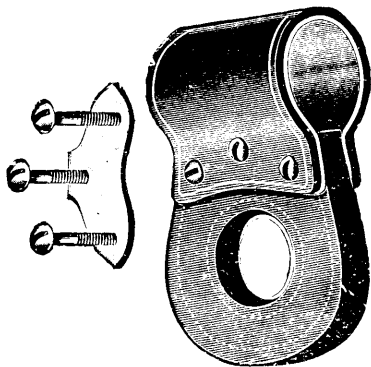
LEATHER DASHES. No. 103

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WHIP SOCKETS

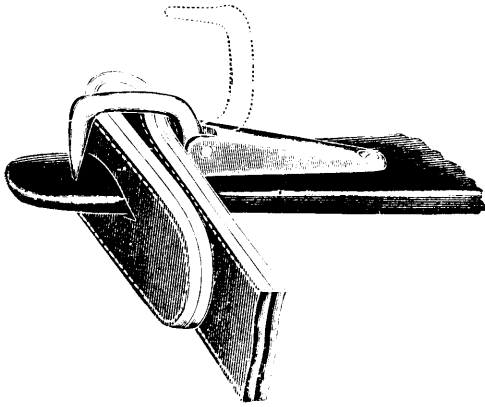
No. 81. Plain Black, for Leather Dash.	Price per dozen	\$2.00
No. 91. Plain Black, with Rubber Top, for Leather Dash.	Price per dozen	2.75
Skeleton Whip Socket, Japanned, for Wood Dash.	Price per dozen	1.90

LEATHER NECKYOKE CENTERS



With Leather-Covered Steel Band and Heavy Harness Leather Drop.
Sizes 17, 19, 21, 23, 25 in.
Price, each..... 6¢.

FERNALD TRACE HOLDER



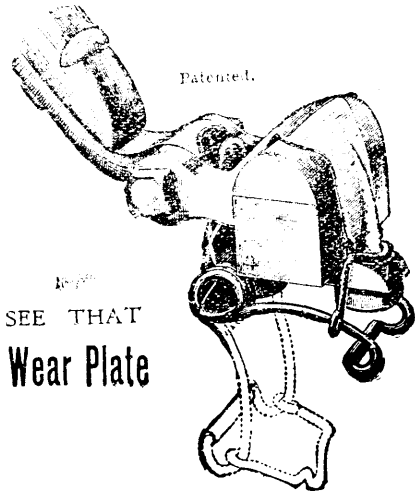
Japanned.
Price, per dozen pair..... \$2.00

PEARSON NECKYOKE CENTERS

Collapsible Iron, Japanned. Doubly Coupled, with Double Swivels, which ensure absolute safety.

	Width of Sleeve Chapman	Dia. of Sleeve Chapman	Dia. of Coll. Hole in	Price each
No. 1	1	1 1/2	1	\$0.90
No. 2	3	1 1/2	1 1/2	.95
No. 3	5 1/2	2 1/2	1 1/2	1.90

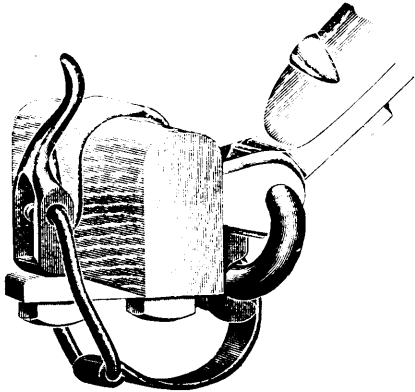
JOHNSON ANTI RATTLER



SEE THAT
Wear Plate

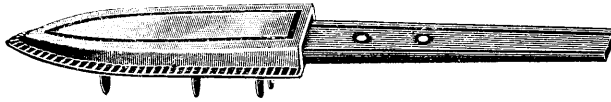
Per dozen pair..... \$2.00

SAFETY QUICK SHIFTS



With 3/8 or 1/2 Shank, doz. pair..... \$6.50

STRAP LOOPS. No. 3



Japanned, with Leather Strap

Price per 100 \$3.50

Roll-up Straps

12 in. Long, Patent Leather.

Price per dozen 60c.

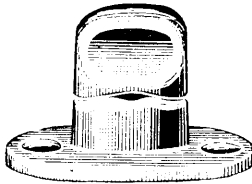
Curtain Straps. No. 6

Japanned Fasteners, Leather Straps.

Price per 100 \$3.25

CARRIAGE CURTAIN FASTENERS

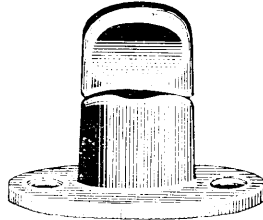
Premier Single



Japanned or Nickel

Per doz., with eyelets.....\$1.20

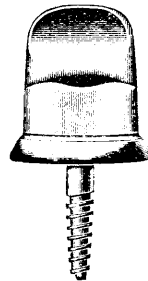
Premier Double



Japanned or Nickel

Per doz., with eyelets \$1.40

No. 11



To Screw.

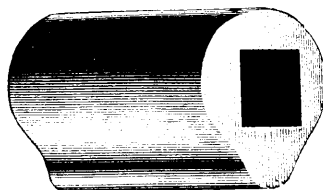
Nickel Buttons, Japanned Eyelets.
Per dozen\$1.00

TOP PROP NUTS FOR BUGGIES

Oval Style

Japanned. $1\frac{1}{4} \times \frac{3}{8}$ and $\frac{7}{16}$ in. Price per dozen80c.
Silver. $1\frac{1}{4} \times \frac{3}{8}$ and $\frac{7}{16}$ in. Price per dozen.....90c.

PROP BLOCK RUBBER



In strips of 2 ft. $\frac{9}{16}$ -in. hole. Per foot.....50c.

WAGON CURTAIN PATCHES. No. 2

Japanned rims, harness leather strap, complete with screw eye.

Price per dozen90c.

JAPANNED LINING NAILS

Solid Head

In one-pound packages.

Size, ounce	4	6	8	10	12	14
Price per lb.....	50c.	46c.	45c.	44c.	44c.	44c.

UPHOLSTERERS' TACKS

In One-Pound Packages and Twenty-five-Pound Boxes

Size, ounces.....	2	2½	3	4	6	8	10	12	14	16
Price per lb.....	.47	.40	.37	.33	.29	.25	.24	.23	.23	.20

Japanned Saddle Nails



100 in Package.

Lengths 1, 1½, 2 in.

Price per 100..... 30c.

Tufting Buttons,
Black and Dark Green

Per gross..... 30c.

Seaming Cord

In 2 and 4-lb. Balls.

Price per lb..... 50c.

Excelsior

In 75 to 110-lb. Bales.

Price per lb..... 3c.

Sold in bales only.

Japanned Clinch Buttons



Length, 1¼-in.

Per Gross..... 60c.

Metalene Nails



1,000 in Package.

½ or 5⁄8-in. Shank.

Price per 1,000:
Black..... \$1.60
Tan..... 1.75

Tufting Twine

In Quarter-pound Balls.

Per lb..... \$1.25

Black Linen Thread

In 2-ounce Spools.

No.....	16	20	25	30	35	40
Price per spool.....	.40	.45	.50	.55	.55	.60

Trimmers' Moss

In 140 to 180-lb. Bales.

Price per lb..... 14c.

Sold in bales only.

Back Springs

Style "C."

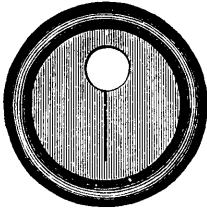
Double Spring, made of 14 Gauge Coppered
Spring Wire.
Price per dozen..... 35c.

Cushion Springs

Style "A."

Double Spring, made of 11 Gauge Coppered Steel
Wire.
Price per dozen..... 45c.

KNOB EYELETS



No. 2

Price per gross.....80c.

CARRIAGE TOP KNOBS



No. 81
To drive.

Per gross.....70c.



No. 55
To rivet.

Per gross.....80c.

COMBINATION BINDING OR WELTING

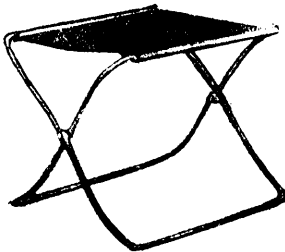
Dull or Bright Finish. Price per yard..... 8c.

PREMIUM WHIFFLETREE HOOKS

Japanned.

No.....	1	2	3	4	5
Size of opening, in.....	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{3}{4}$
Price per pair.....	.45	.45	.50	.55	.65

Packed six pairs in a box.



FOLDING THIRD SEATS

For Buggies.

Oxidized Steel Frame, Covered with Carpet.

Price each.....85c.

FOLDING AUTO CHAIR

Oxidized Steel Frame, Artificial Leather Upholstering, with Back
Rest. Folds into small space.

Price, each.....\$3.00

WHITE COTTON DUCK

Width, inches.....	36	40	48	60	72
Price per yard.....	\$2.00	\$2.24	\$2.72	\$3.54	\$4.20

No. 10 White Duck carried in stock. Other weights can be supplied on short notice.

BROWN "WATERTITE" DUCK

Waterproof

No. 10. 40 in. wide. Price per yard.....	\$2.34
No. 10. 60 in. wide. Price per yard.....	3.70

ENAMELLED CLOTH

In 12-yard Rolls.

Drill

	Price per yard 45 in. wide	Price per yard 50 in. wide
Black, Bright or Dull Finish.....	\$0.92	\$1.02
Green.....	1.12	

Duck

Black, Bright or Dull Finish, 45 in. wide. Price per yard.....\$1.22

IMITATION LEATHER

	Width, in.		Price per yard
No. 3000 Light Weight.....	50	Black Back.....	\$1.50
No. 2000 Medium Weight.....	50	Black Back.....	2.00
Single Texture "Rayntite".....	54	Drab Back.....	2.30
Double Texture "Rayntite".....	54	Drab Back.....	2.60
Double Texture "Luxar".....	54	Drab Back.....	2.25
"Luxar" Side Curtain Material.....	54	Drab Back.....	1.80
Pantasote.....	50	Black Back.....	2.50

Will furnish samples on request.

TRIMMING LEATHER

In Hides of from 50 to 70 Square Feet.

No. 1. Machine Buffed, Blue-Black Pebble Grain.	Price per square foot	50c.
No. 1. Hand Buffed, Blue-Black Pebble Grain.	Price per square foot	55c.

FIGURED CUTTER PLUSH

27 in. Wide. Colors Crimson and Green.

Price per yard	\$2.00
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CELLULOID

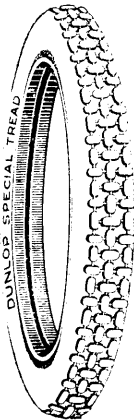
In Sheets 20 x 50 in.

No. 12 1/2. Thickness 12 1/2 1000 inch.	Price per sheet	\$1.50
No. 15. Thickness 15 1000 inch.	Price per sheet	1.60

AUTOMOBILE TIRES



Plain Tread.



Special Tread.



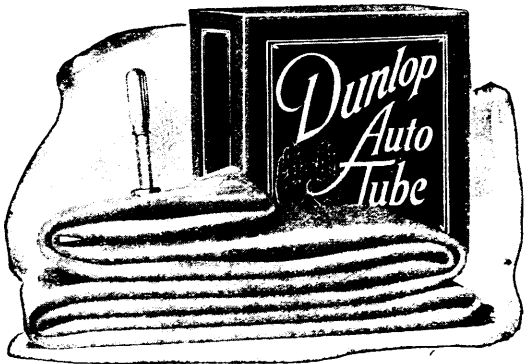
Traction Tread.

in.
30 x 3 1/2
31 x 3 1/2
31 x 3 3/4
32 x 3 1/2
34 x 3 1/2

in.
31 x 4
32 x 4
33 x 4
34 x 4

in.
34 x 4 1/2
35 x 4 1/2
36 x 4 1/2
36 x 5
37 x 5

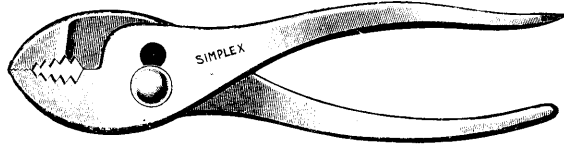
Prices on application.



INNER TUBES

For all sizes of Tires.
Prices on application.

COMBINATION PLIERS



Full Nickel Plated

Length over all, 6 inches. Price per pair..... 60c.

TIRE PUMPS

A powerful, single-barrel pump, nicely finished. Quick acting.

Price, each.....\$2.00

SCHRADER AIR GAUGES

Handy for ascertaining pressure of air in tire. Absolutely accurate and convenient to carry.

Price, each.....\$1.27

PEERLESS PATCHES

For Use on Inner Tubes

Box contains one dozen patches, assorted sizes.

Price, per dozen boxes.....\$4.40

RUBBER CEMENT

For Inner Tubes

Size, $\frac{1}{4}$ pints. Per dozen.....\$2.00

Size, $\frac{1}{2}$ pints. Per dozen..... 3.00

BRAKE SHOES

For Ford Cars

Cast-iron. Stocked Lined or Unlined.

Unlined. Price, per pair.....\$0.75

Lined. Price, per pair..... 1.45

EVER-TYTE PISTON RINGS

For Ford Cars.

Develops more power and uses less fuel and oil than ordinary rings.

Price, each.....\$0.95

RADIATOR HOSE CONNECTIONS

For Ford Cars

$3\frac{1}{2}$ x 2 in. dia. Per dozen.....\$1.50

$2\frac{3}{4}$ x $1\frac{3}{4}$ in. dia. Per dozen..... 1.15

For Chevrolet Cars

$3\frac{3}{4}$ x $1\frac{3}{4}$ in. dia. Per dozen.....\$1.50

4 x $1\frac{1}{4}$ in. dia. Per dozen..... 1.15

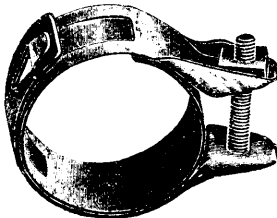
RADIUS RODS

For Ford Cars.

Auxiliary.. Each.....\$0.85

Regular. Each..... 2.75

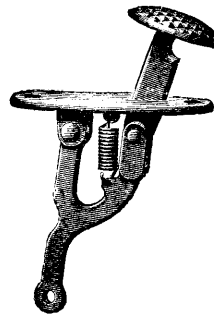
RADIATOR HOSE CLAMPS



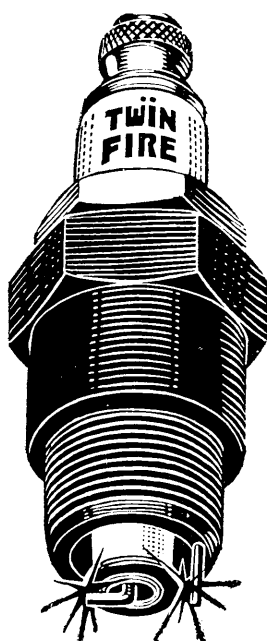
Spring Steel

Size Hose	Per Dozen
$1\frac{3}{4}$ in.	\$2.25
2 in.	2.50

CUTOUTS FOR FORD CARS



Price, each.....\$1.15



SPARK PLUGS

Twin Fire Spark Plugs

The only plugs that give two distinct sparks at the same time.

The porcelain is of the highest grade, and its construction is such that it is practically free from all fouling influences, and as near soot proof as a plug can be made.

Guarantee

All Twin Fire Plugs are guaranteed to give satisfaction, or full repairs or replacement will be made.

Price, all sizes, $\frac{1}{2}$ -in. standard or $\frac{7}{8}$ -in. 18 threads. Each.....\$1.00

REFLEX SPARK PLUGS

"Ford Special"

Designed specially for Ford Cars. Long shell, heavy bushing, ebony finish.

Price, each..... 60c.

RELIABLE SPARK PLUGS

The best low-priced plugs on the market.

Price, each, all sizes 45c.

TIRE CHAINS

Weed Chains

Galvanized to prevent rust; Cross Chains are specially treated to minimize wear.

Insures traction and safety; prevents skidding and accidents; occupies small space.

Size, Inches	Price per Pair	Size, Inches	Price Per Pair
30 x 3 $\frac{1}{2}$ (Ford size)	\$4.50	34 x 4.....	\$6.30
32 x 3 $\frac{1}{2}$	4.95	34 x 4 $\frac{1}{2}$	6.75
31 x 4.....	5.40	35 x 4 $\frac{1}{2}$	7.20
32 x 4.....	5.63	36 x 5.....	8.10
33 x 4.....	5.85	37 x 5.....	8.68

Rid-o-skid Chains

A Low-priced, Non-skidding Chain. They will prevent skidding, but do not have the wearing qualities of Weed Chains.

Size, Inches	Price Per Pair	Size, Inches	Price Per Pair
30 x 3 $\frac{1}{2}$	\$2.63	33 x 4.....	\$3.00
32 x 3 $\frac{1}{2}$	2.78	34 x 4.....	3.15
31 x 4.....	2.85	34 x 4 $\frac{1}{2}$	3.38
32 x 4.....	2.97		

Weed Cross Chains

Size, inches	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5
Price per 100	\$7.50	\$8.25	\$9.00	\$11.25

VARNISH

For Carriage and Automobiles

HARLAND'S GENUINE ENGLISH VARNISHES

This Varnish is the result of 100 years' manufacturing experience. Retains its lustre and durability under the most severe weather conditions. Stocked in 1-gal. and ½-gal. cans.

Body Varnish

	Price Per Gallon
Extra Pale White Marble	\$10.00
Pale Durable Body.....	10.00
Automobile Body.....	10.00
Automobile Finishing	7.00

Rubbing Varnish

Pale Rubbing	7.20
Quick Rubbing	6.70

Gear Varnish

Pale Carriage	8.00
Second Shade Carriage.....	7.00
One-Coat Carriage	6.00

Japan

Black Enamel Japan.....	7.00
Gold Size.....	6.00

HARLAND'S DOMESTIC VARNISH

Made in Canada for Canadian Trade

Body Varnish

	Price Per Gallon
Whitest Auto Body.....	\$7.00
Pale Durable Body.....	6.50
Hard Drying Body.....	5.00
Special Body Finishing	3.75
Wagon.....	3.00

Rubbing Varnish

Whitest Auto Rubbing	5.00
Pale Rubbing.....	4.50
Quick Rubbing	3.75
Jet Black Rubbing.....	4.50

Gear Varnish

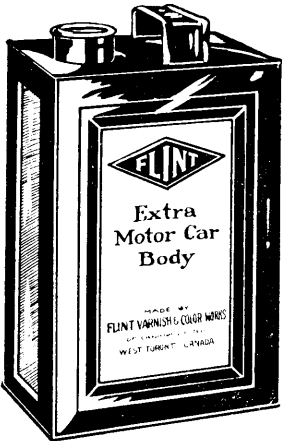
Pale Elastic Gear.....	5.25
Hard Drying Gear.....	4.00

Miscellaneous

Coach Japan.....	2.75
Gold Size.....	3.50
Metal Primer.....	4.00

An extra charge of 20 cents per gallon will be made for varnish in half-gallon cans.

VARNISH
For Carriage and Automobiles
FLINT VARNISHES



Brilliant, durable and easy to work. Used by some of the leading automobile manufacturers. Stocked in 1-gallon and 1/2-gallon cans.

Body Varnish

	Price Per Gallon
White Motor Car Body.....	\$8.80
Extra Motor Car Body.....	8.80
Durable Motor Car Body.....	6.00
Heavy Wagon.....	3.00

Rubbing Varnish

White Motor Car Rubbing.....	6.30
Pale Motor Car Rubbing.....	5.60
Quick Motor Car Rubbing.....	5.25

Color Rubbing Varnish (Stocked in Half Gallons Only)

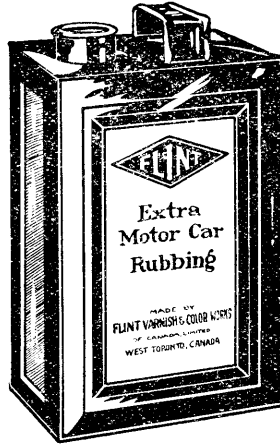
Black Rubbing.....	6.00
Brewster Green Rubbing.....	6.85
Olive Green Rubbing.....	6.85
California Blue Rubbing.....	6.85
Cobalt Blue Rubbing.....	7.50
Royal Blue Rubbing.....	6.85
Light and Dark Maroon Rubbing.....	8.95
Cream Color Rubbing.....	6.85
Carnation Rubbing.....	8.15

Gear Varnish

White Motor Car Gear.....	6.75
Heavy Motor Car Gear.....	5.25
Quick Motor Car Gear.....	4.90
No. 1 Carriage.....	3.50

An extra charge of 20 cents per gallon will be made for varnish in half-gallon cans.

VARNISH
For Carriage and Automobiles
FLINT VARNISHES



Stocked in 1 Gallon and $\frac{1}{2}$ Gallon Cans

MISCELLANEOUS

	Price Per Gallon
Niggeroid Black Enamel.....	\$5.35
Chassis Black Enamel.....	4.50
No. 1 Brown Japan.....	2.40
Grey Metal Primer.....	4.50
Enamel Top Dressing.....	4.65
Mohair Top Dressing.....	4.65
Blue Diamond Paint and Varnish Remover.....	4.00

NOBLES AND HOARE GENUINE ENGLISH VARNISHES

We carry a full line of this celebrated Varnish in our Hamilton warehouse. Prices on application.

JOHNSTON'S KRAKNO

For use on automobiles, carriages and wagons. A filler or surfacer for use on metal, wood or canvas, making an elastic coating that will hold out the finished coats. Can be used as a surfacer over cracked paint or varnish. Can be supplied in slate color, white, grey, yellow, red, green and blue.

Price per 1 gallon.....	\$5.00
Price per $\frac{1}{2}$ gallon.....	2.70

JOHNSTON'S SANDOFF

For use on metal or wood. Makes a smooth, elastic surface, an ideal foundation for the finishing coats. Can be supplied in slate color, white, grey, yellow and red.

Price per 1 gallon.....	\$4.00
Price per $\frac{1}{2}$ gallon.....	2.20

PUMICE STONE

	Per Pound
Ground, Fine or Medium.....	13c.

STEEL WOOL

	For Rubbing in Place of Sandpaper Per Pound
Nos. 0, 1 and 2.....	85c.

W. & K. WAGON PAINT

Prepared ready for application, and recommended for the re-painting of wagons, implements and machinery. In average cases one coat is sufficient. Dries hard and smooth with a gloss.

Colors	Price Per Gallon	Price Per Half Gallon	Price Per Quarter Gal.
Black, Red, Carmine, Green and Yellow.....	\$4.00	\$2.10	\$1.10

Barn and Elevator Paint

Is a superior, yet low-priced paint. For either wood or metal surfaces. For barns, elevators, fences, bridges, etc.

Colors

Black, Red, Green and Slate.

One-gallon cans. Per gallon.....\$2.25

Larger quantities, price on application.

Dry Colors

DRY WHITE LEAD.
GENUINE RED LEAD.
YELLOW OCHRE.
VENETIAN RED.
GOLDEN OCHRE.
AMERICAN VERMILION.
ORANGE MINERAL.
GERMANTOWN LAMP BLACK.

Prices on application.

BRUSHES

Camel Hair Color Brushes

Double Thick

Width, inches.....	1 1/2	2	2 1/2
Price, each.....	\$0.75	\$1.00	\$1.25

Oval Black Chisel Varnish

Brushes

No.....	1 0	2 0	3 0
Price, each.....	\$0.90	\$1.10	\$1.25

Badger Flowing Varnish Brushes

Double Thick

Width, inches.....	1 1/2	2	2 1/2
Price, each.....	\$0.90	\$1.25	\$1.50

Round Painters' Dusters

Price each.....\$1.25

Steel Wire Spoke Brushes

Three rows of 1-inch wire. Each.....\$0.60

CHAMOIS SKINS

Price each.....1.50

SPONGES

Sheep's Wool. Each......75

SANDPAPER

Baeder, Adamson & Co. In Sheets 9 x 11 Inches

No.....	00	0	1/2	1	1 1/2	2	2 1/2	3
Price per quire.....	65c.	65c.	65c.	60c.	60c.	65c.	65c.	65c.

WILLEY'S SUPERFINE COACH COLORS

Ground in Japan

Willey's colors are noted for their uniform high quality. They are manufactured by experienced painters.

Stocked in One-Pound Tins

Blacks

	Price Per Pound
Special Coach Black. (In 1 and 5-lb. tins).....	\$0.50
Refined Lampblack .....	.50

Blues

Coach Body.....	1.50
Cobalt.....	1.40
Ultramarine.....	1.30
Brazilian	1.30
Azure.....	1.10
Prussian.....	1.50

Browns

Auto Brown.....	.80
Chocolate Brown .....	.80
Golden Tan.....	.80
Tan Color.....	1.00

Greys

Battleship .....	.70
French.....	.70
Blue-Grey.....	.70

Greens

	Price Per Pound
Auto No. 135.....	\$0.80
Brewster.....	.80
Brunswick.....	1.00
Coach Painters' .....	.80
Columbia.....	.80
Merrimac.....	.80
Olive.....	.80
Silk.....	.90
Metropolitan.....	.80

Reds

Durable .....	.80
Columbia.....	1.10
Emergency.....	1.00
Wine Color.....	1.10

Whites

Flake White, for striping.....	.70
French Zinc White.....	.65

Yellows

Chrome.....	.70
Pale Auto Yellow.....	.75
Primrose.....	.70

When ordering colors, specify light, medium or deep. Color card mailed on request.

WILLEY'S GLAZING OR KNIFING PUTTY

In One-pound and Five-pound Tins

For glazing hardwood and any rough places on bodies and gears. Will fill old cracks and nail-holes. Dries very hard and rubs smooth. Supplied light, dark, red and yellow.

Price per pound.....45c.

WILLEY'S HARD PUTTY

Extra Hard

Light and Dark only. Price per pound.....45c.

WHITE LEAD, IN OIL

In 25-lb. Irons

Elephant Brand. Genuine English, finely ground.
 Excello Brand. A good medium-priced lead.
 Royal Crown Brand. Will give good satisfaction at a low cost.

Prices on application.

AXLES

Half Patent, Short Bed



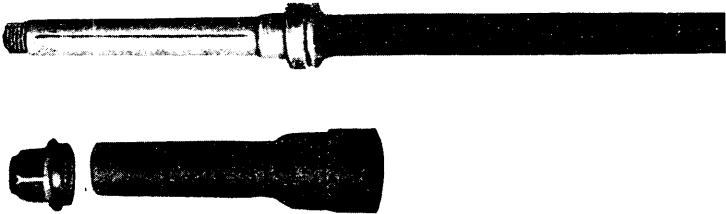
Steel, No. 13 or No. 23

Manufacturers' Standard List

Size, inches.....	$\frac{3}{4}$ to 15/16	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$
Price per set of four.....	\$4.50	\$5.00	\$5.25	\$5.75	\$7.00	\$9.50	\$12.50	\$15.50	\$20.00

When ordering single Axles, always specify right or left.

Half Patent, Long Bed



Steel, No. 14 or No. 24

Manufacturers' Standard List

Size, inches.....	$\frac{3}{4}$ to 15/16	1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$
Price per set of four.....	\$5.50	\$6.00	\$6.50	\$7.00	\$8.50	\$12.00	\$15.00	\$18.00	\$23.00

Can supply Coach Bed Axles on any of the above sizes. Prices on application. When ordering single axles, always specify right or left.

No. 1. Scotch or Common Taper Axles



Short Beds. Scotch Boxes

Size, inches.....	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$
Price per set of four.....	\$7.00	\$9.00	\$11.35	\$14.00	\$16.60	\$19.00	\$25.00

When ordering single axles, always specify right or left.

AXLES

No. 2. Scotch or Common Taper Axles



	Long Beds.		Scotch Boxes				
Size, inches.....	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2	2 1/4
Weight per set of four, lbs.....	68	85	96	128	148	212	234

When ordering single axles, always specify right or left.
When axles are required welded, give distance between collars.
Price per 100 lbs. on application.

Half Patent Axle Boxes

Size, inches.....	3/4 to 1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4
Price, each.....	\$0.60	\$0.70	\$0.80	\$1.00	\$1.10	\$1.20	\$1.35

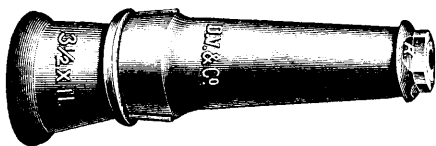
Half Patent Axle Nuts

	Right and Left Threads						
Size, inches.....	3/4 to 1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4
Price, each.....	\$0.30	\$0.40	\$0.60	\$0.70	\$0.80	\$0.90	\$0.90

When ordering single Nuts, always specify right or left.

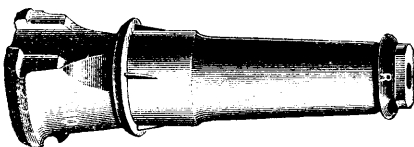
CAST SKEINS

D. V. Pattern



Size, Inches	Price Per Set
2 3/4 x 8.....	\$10.50
3 x 9.....	12.00
3 1/4 x 10.....	15.00
3 1/2 x 10.....	16.00
3 1/2 x 11.....	16.60
3 3/4 x 12.....	18.80
4 x 12.....	21.20
4 1/4 x 12.....	30.00

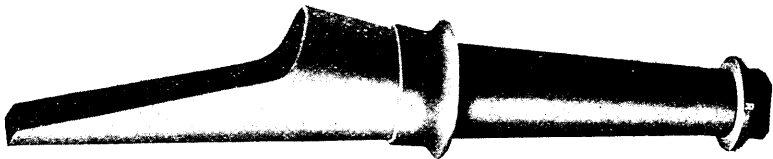
No. 9 Flat Truss Rod



Size, Inches	Price Per Set
3 x 9.....	\$12.50
3 1/4 x 10.....	15.50
3 1/2 x 11.....	17.00
3 3/4 x 12.....	19.25
4 x 12.....	21.75

When ordering single Skeins, always specify right or left.

STEEL SKEINS



Studebaker Pattern

This Skein is made from extra heavy steel, thoroughly welded. The spindles are smooth and uniform. The boxes on these Skeins fit closely all around, and are made to be pressed closely into the hubs.

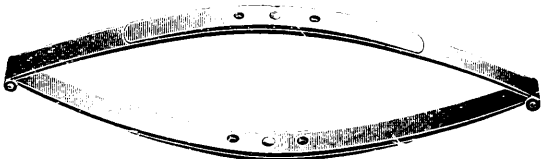
Size	Price Per Set
3 x 9	\$19.50
3 1/4 x 10	22.50
3 1/2 x 11	25.50
3 3/4 x 12	30.00
4 x 12	36.00

SKEIN BOXES AND NUTS

Size	Price Boxings Each	Price Nuts Each	Size	Price Boxings Each	Price Nuts Each
3 x 9	\$0.50	\$0.25	3 1/2 x 11	\$0.75	\$0.25
3 1/4 x 10	.65	.25	3 3/4 x 12	.80	.30
3 1/2 x 10	.70	.25	4 x 12	.90	.30

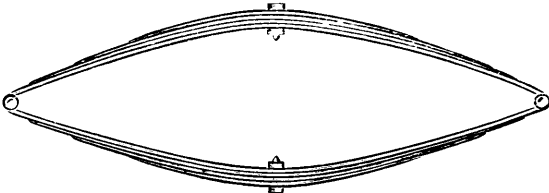
SPRINGS

No. 3 Berlin Head



Stocked 1 1/4 in. to 1 1/2 in.

No. 4 Button Head



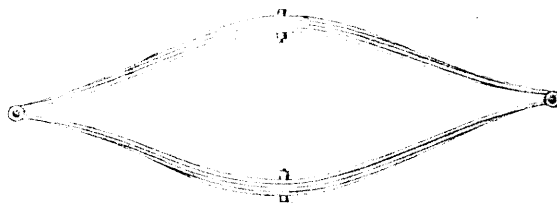
Stocked 1 1/4 in. to 2 in.

For weights and carrying capacities see table.

Price per lb 17c.

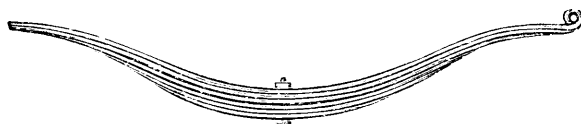
SPRINGS

No. 7 Hog Nose



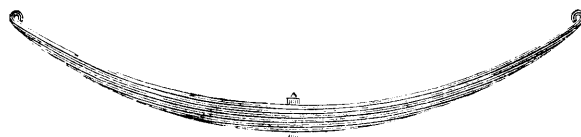
Stocked $1\frac{1}{2}$ in. to 2 in.

No. 12. Truck, One Straight End



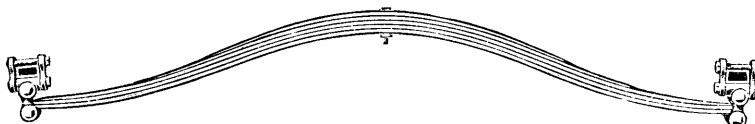
Bolt hole $1\frac{1}{2}$ in. out of centre unless otherwise ordered.
Stocked $1\frac{1}{2}$ in. to 2 in.

No. 13 Lorry



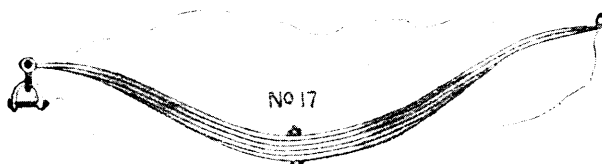
Bolt hole in centre.

No. 16 Platform Cross Spring



Bolt hole in centre.
Stocked $1\frac{1}{4}$ in. to 2 in.

No. 17 Platform Side Spring

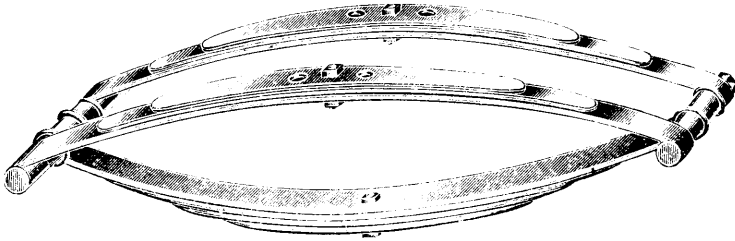


Bolt hole 1 in. out of centre.
Stocked $1\frac{1}{4}$ in. to 2 in.
For carrying capacities of Platform Springs see table, next page.

Price per pound 17c.

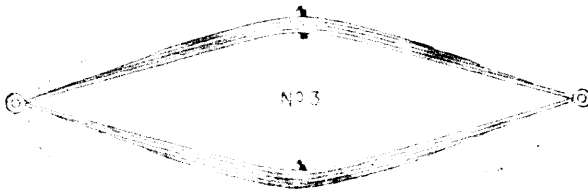
SPRINGS

Triple Elliptic



No. 1—1 $\frac{3}{4}$ x3 and 5 leaves; capacity,	400 pounds each
No. 2—1 $\frac{1}{2}$ x4 and 6 " " "	500 " "
No. 3—1 $\frac{1}{2}$ x5 and 7 " " "	750 " "
No. 4—1 $\frac{3}{4}$ x5 and 7 " " "	1,000 " "
Price, per pound.....	17c.
Extra for Triple Head, each.....	75c.

Seat Springs



1 $\frac{1}{2}$ x2 Leaf.	Per pair.....	\$1.75
1 $\frac{1}{2}$ x3 Leaf.	Per pair.....	2.00

Approximate Weights and Carrying Capacities of Elliptic Springs

Size	Weight	Carrying capacity
1 $\frac{1}{4}$ x3x36-inch	About 32 lbs. per pair	450 lbs. per pair
1 $\frac{1}{4}$ x4x36 "	36 " "	600 " "
1 $\frac{1}{2}$ x4x36 "	46 " "	750 " "
1 $\frac{1}{2}$ x5x36 "	55 " "	1,000 " "
1 $\frac{1}{2}$ x6x38 "	70 " "	1,200 " "
1 $\frac{3}{4}$ x5x38 "	66 " "	1,200 " "
1 $\frac{3}{4}$ x6x38 "	83 " "	1,500 " "
1 $\frac{3}{4}$ x7x38 "	90 " "	1,800 " "
2 x6x40 "	98 " "	1,900 " "
2 x7x40 "	112 " "	2,200 " "

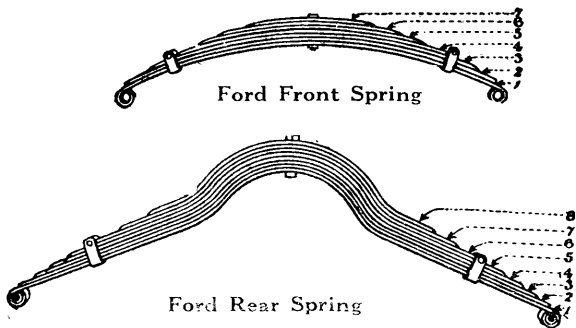
Approximate Weights and Carrying Capacities of Platform Springs

Width	Side	Cross	Average Weight per set	Estimated Capacity
1 $\frac{1}{4}$	x 3 and 4	4	62 lbs.	500 lbs.
1 $\frac{1}{4}$	x 4 " 5	5	78 "	650 "
1 $\frac{3}{8}$	x 3 " 4	4	69 "	600 "
1 $\frac{3}{8}$	x 4 " 5	5	76 "	900 "
1 $\frac{1}{2}$	x 4 " 5	5	106 "	1,000 "
1 $\frac{1}{2}$	x 5 " 6	6	118 "	1,250 "
1 $\frac{3}{4}$	x 4 " 5	5	114 "	1,100 "
1 $\frac{3}{4}$	x 5 " 6	6	140 "	1,500 "
2	x 5 " 6	6	162 "	1,800 "
2	x 6 " 7	7	175 "	2,500 "
2	x 7 " 8	8	220 "	2,800 "

WHEN ORDERING SPRINGS

Specify catalogue number or style, width of leaves, number of leaves, length of spring in a direct line from centre to centre of eyes.

AUTOMOBILE SPRINGS



Made from the best Special Automobile Spring Steel, finely tempered in oil.

Front Springs complete, including Clips and Bushings.	Each	\$ 3.50
Rear Springs complete, including Clips and Bushings.	Each	10.00
Main Leaves for Ford Front Spring.	Each	1.50
Main Leaves for Ford Rear Spring.	Each	3.00

Do not forget that we handle Special Automobile Spring Steel. For sizes see page 4.



DRY BATTERIES

	Less than 50	In Lots of 50	Barrel Lots
North Star Ignitor No. 6.	Each..... \$0.41	\$0.38	\$0.37
North Star Ignitor No. 8.	Each..... .97		.95
Columbia Ignitor No. 6.	Each..... .43	.40	.39

North Star Batteries No. 6 packed 50 in a box; 125 in a barrel. Columbia Batteries No. 6 packed 125 in a barrel.

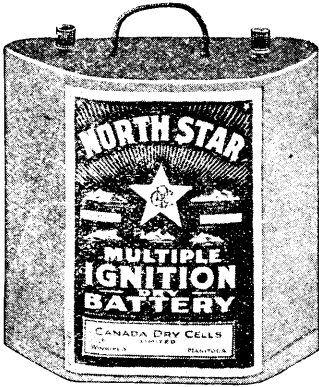
NORTH STAR MULTIPLE BATTERIES

No. 146



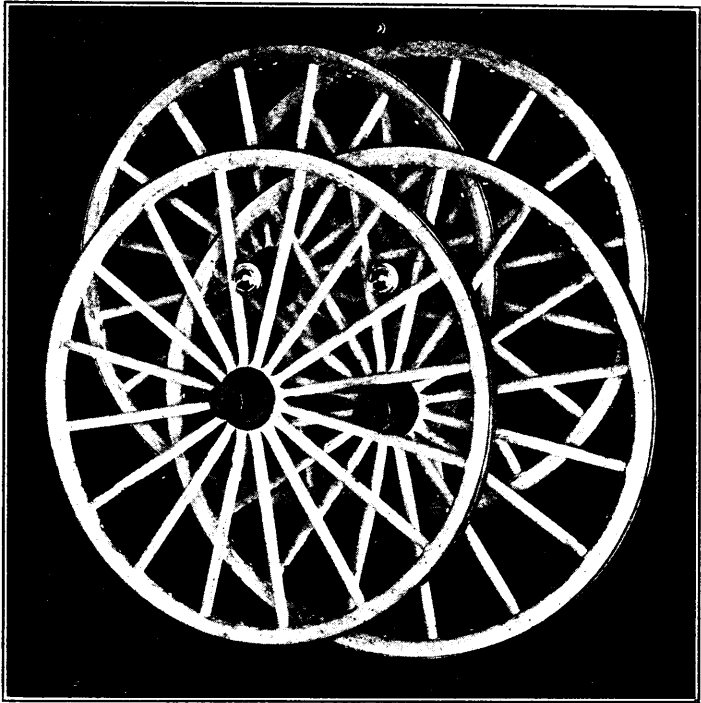
Contains four No. 6 Cells packed in moisture-proof case. Ready to connect.
Price, each.....\$2.00

No. 256



Contains five No. 6 Cells. Ready for use.
Price, each.....\$2.40

SARVEN PATENT WHEELS
Untired



Price Per Set of Four Wheels

No.	Length of Hub, Ins.	Depth of Rim, Ins.	Width of Tire, Ins.	Size of Spoke, Ins.	B	Grade C	E
0	6½	1⅜ to 1⅝	⅞	1	\$25.00	\$23.00	
1	6½	1⅜ to 1⅝	⅞	1⅛	25.00	23.00	
3	6½	1⅜	1	1⅜	25.00	23.00	\$19.00
9	7 to 7½	1⅜	1⅜	1¼	29.70	27.10	23.00
13	7 to 7½	1½	1¼	1⅜		29.10	25.00
21	8	1½	1⅜	1½		40.20	
33	8½	1⅝	1½	1⅝		52.30	
39	9	1¾	1⅝	1¾		60.40	

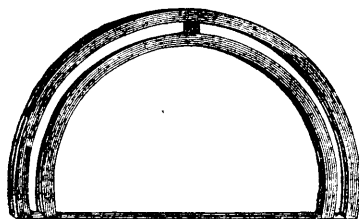
All wheels shipped No. 8 Flange, or full extension, unless otherwise ordered.

All wheels up to and including No. 13 bored for half-patent boxes.

Extra For Tiring
Per Set of Four Wheels

No. 1	No. 3	No. 9	No. 13	No. 21
\$7.05	\$7.50	\$10.35	\$13.40	\$17.15

RIMS



Hickory Rims

Stocked in full-set bundles, sizes 3 ft. 2 in., 3 ft. 6 in., and 3 ft. 4 in.—3 ft. 8 in.

Stocked in half-set bundles, one height only, sizes 2 ft. 10 in. to 3 ft. 10 in.

XX QUALITY

Depth	Tread	Price Per Set of Eight Pieces
1 1/4 x 1 in. and smaller		\$4.15
1 1/4 x 1 1/8 in.		4.80
1 3/8 x 1 1/4 in.		5.70
1 1/2 x 1 3/8 in.		6.65
1 5/8 x 1 1/2 in.		7.15

OAK RIMS

Wagon Rims

Eight Pieces to Set

Height 2 ft. 6 ins. to 4 ft. 6 ins.

XX Quality

Depth	Tread	Price Per Set
2	x 2 in.	\$ 9.50
2 1/4	x 2 in.	9.95
2	x 2 1/2 in.	10.85
2 1/4	x 2 1/2 in.	12.15
2	x 3 in.	12.90
2 1/4	x 3 in.	14.55
2	x 4 in.	16.95

Cart Rims

Four Pieces to Set

Height 3 ft. 10 ins. to 4 ft. 6 ins.

XX Quality

Depth	Tread	Price Per Set
2	x 2 in.	\$5.85
2 1/4	x 2 in.	6.05
2	x 2 1/2 in.	6.70
2 1/4	x 2 1/2 in.	7.50
2	x 3 in.	7.95
2 1/4	x 3 in.	8.85
2	x 4 in.	10.30

Seeder Rims

Four Pieces to Set

Stock Height 3 ft. 10 ins.

Depth	Tread	Price Per Set
1 3/8	x 1 1/4 in.	\$2.25
1 1/2	x 2 1/2 in.	\$3.75
1 1/2	x 3 in.	4.50

Rake Rims

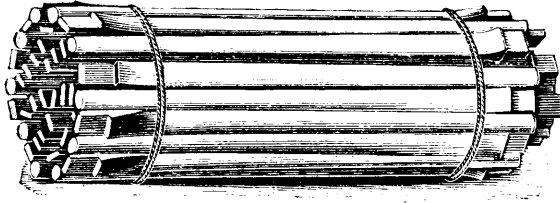
Four Pieces to Set

Hickory Sulky Rims

Four Pieces to Set. Stock Height 4 ft. 0 in.

Depth	Thread	Price Per Set
1 1/4	x 1 in.	\$2.25
1 1/4	x 1 1/8 in.	2.70

CARRIAGE AND WAGON SPOKES



Sarven Patent Spokes

Forest Hickory
"C." Grade

Size, inches	$\frac{7}{8}$ to 1	$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$
Price per 100	\$14.00	\$15.00	\$15.00	\$16.00	\$20.50	\$25.00	\$28.50	\$31.50

Shell Band Spokes

Forest Hickory

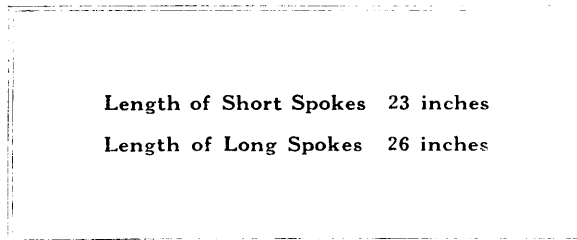
Size, inches	$\frac{3}{4}$ to 1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$
Price per 100	\$15.00	\$16.00	\$16.00	\$21.50

Agricultural Spokes

For Grain Seeders, Hay Rakes and Cultivators

Size, inches	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$
Price per 100	\$9.50	\$11.00	\$13.00

Oak Wagon Spokes



Price Per Set of 52

Size, Inches	X	XX	Size, Inches	X	XX
$1\frac{3}{4}$		\$11.50	$2\frac{1}{2}$	\$ 8.15	\$13.25
2	\$ 7.50	12.00	$2\frac{3}{4}$	9.35	15.35
$2\frac{1}{4}$	7.50	12.00	$2\frac{3}{4}$	9.80	16.30
$2\frac{3}{8}$	8.05	13.00	3	10.60	17.50

Oak Cart Spokes

Per Set of 28

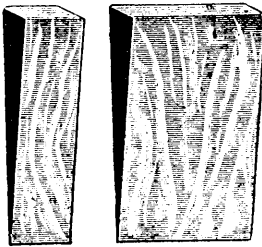
Size, Inches	X	XX	Size, Inches	X	XX
$1\frac{3}{4}$		\$ 6.40	$2\frac{1}{2}$	\$ 4.80	\$ 7.50
2	\$ 4.35	6.90	$2\frac{3}{4}$	5.85	9.35
$2\frac{1}{4}$	4.35	6.90	$2\frac{3}{4}$	5.95	9.50
$2\frac{3}{8}$	4.80	7.50	3	6.45	10.25

AUTOMOBILE SPOKES

Forest Hickory

Size, Ins.	Width, Ins.	Length, Ins.	Price, Each
1 1/4	2	13	12c.
1 3/8	2	13	12c.
1 1/2	2 1/4	13	13c.
1 5/8	2 3/8	13	14c.
1 3/4	2 1/2	13	15c.
1 7/8	2 5/8	14	16c.
2	2 3/4	14	17c.

SPOKE WEDGES



Hardwood. 1 1/4 Inches Long

Width, inches.....	3/8	1/2	5/8	3/4
Per 1,000.....	\$1.40	\$1.50	\$1.60	\$1.70

WAGON HUBS

Oak and Rock Elm

Front Hubs 12 Mortises. Hind Hubs 14 Mortises.

Outside diameter, inches.....	7	8	8 1/2	9	9 1/2	10
Length over all, inches.....	9	10	11	13	13	13
Price per set of Four Hubs.....	\$5.90	\$6.80	\$8.00	\$9.40	\$10.80	\$11.60

When ordering Single Hubs, state whether 12 or 14 mortise.

HANDLES

Machinists' or Blacksmiths' Hammer Handles

Selected Hickory.

Length, inches.....	14	16	18
Price per Dozen.....	\$1.60	\$1.70	\$1.90

Shoeing Hammer Handles

Selected Hickory

Length, 14 inches. Price per Dozen.....\$1.50

Scraper Handles

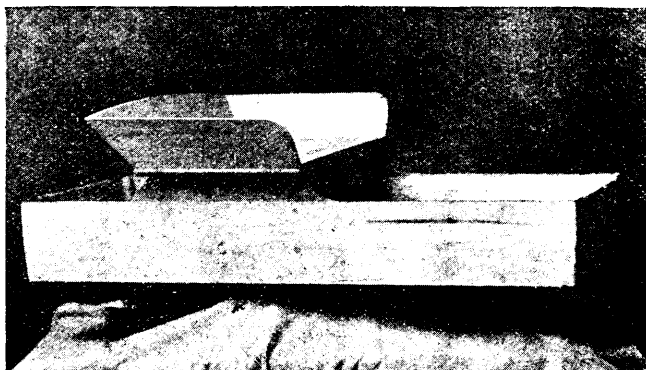
Turned Oak

Sledge Handles			Turned Oak		
Selected Hickory			Dia. at Thickest Point	Price Per Dozen	
Length, inches			Inches		
30	36	No. 1	2 1/4	\$3.25	
Price, Each	25c.	30c.	No. 0	2 1/2	4.75

PLOW HANDLES

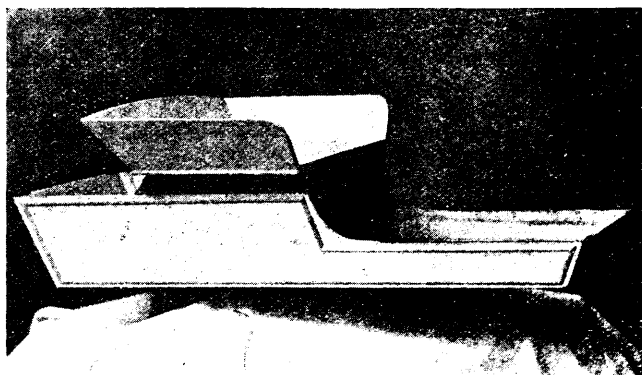
Size 1 1/4 in. x 2 1/4 in. x 5 ft. long.

	Price Per Pair
Straight.....	\$1.10
Single Bend.....	1.25
Double Bend.....	1.40
Edge Bend.....	1.50

BUGGY BODIES**Piano Body****7-inch Basswood Panels, Steel Outside Corner Irons****Stock Sizes**

22x52 and 54; 23x52, 54 and 56; 24x52, 54 and 56; 25x54 and 56; 26x54 and 56.

Price, with Seat, not ironed	\$9.75
Price, less Seat, not ironed	7.00

Corning Body**Steel Outside Corner Irons****Stock Sizes**

23x52, 54 and 56 in.; 24x52, 54 and 56 in.

Price, with Seat, not ironed	\$10.75
Price, less Seat, not ironed	7.90

Seat Trays shipped with bodies unless otherwise ordered.

Democrat Body

Standard Sizes—36x90 inches and 36x96 inches, outside measure.

Body only, less Seats and Risers	\$
Body with one Solid Back Seat and Risers	
Body with two Solid Back Seats and Risers	

Extras

Wood Dash to suit Body	
Ironing Seats, with Japanned Irons. Per set	
Prices on Application.	

GEAR WOODS

Finished Buggy Reaches



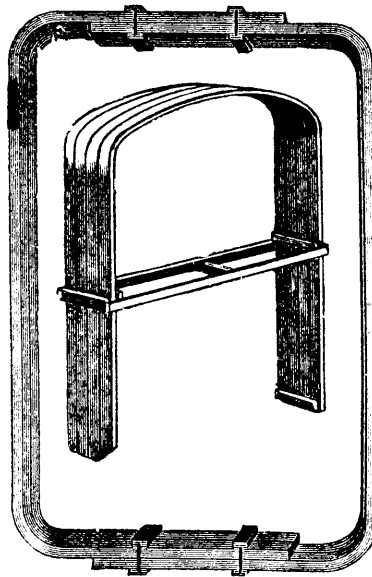
Size	Price Per Doz.
$\frac{3}{4} \times \frac{7}{8}$ inches.....	\$3.75
$\frac{7}{8} \times 1$ inch.....	3.75
1x 1 inch.....	4.00

Democrat Reaches, Dressed

Size, inches.....	$1\frac{1}{8} \times 1\frac{1}{8}$	$1\frac{1}{4} \times 1\frac{1}{4}$	$1\frac{3}{8} \times 1\frac{3}{8}$	$1\frac{1}{2} \times 1\frac{1}{2}$
Price each.....	30c.	35c.	40c.	45c.
Finished Buggy Spring Bar, XXX Hickory. Each.....	\$0.40			
Finished Buggy Rear Axle Bed. Each.....	.45			
Finished Buggy Front Axle Bed. Each.....	.45			
Finished Buggy Head Block. Each.....	.35			

BOWS

Automobile Bows



Oak, $1\frac{1}{2} \times 1$ in., 18 in. High
Stock Sizes—Outside Measurements

Inches—48, 50, 52, 54, 56, 58, 60, 62. Price per set of four pieces.....	\$2.60
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Wagon Bows

Size, $\frac{3}{4} \times 1\frac{1}{4}$ in. Length of Shank, 60 in. Price per set of five pieces.....	4.25
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Express Bows

Size, $\frac{3}{4} \times 1\frac{1}{4}$ in. Length of Shank, 60 in. Price per set of four pieces.....	2.75
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Half Bows, For Splicing

Size, $\frac{3}{4} \times 1\frac{1}{4}$ in. Price per set of ten pieces.....	4.50
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Buggy Bows

Size, $\frac{3}{4} \times 1\frac{1}{4}$ in. Shank, 15 in. Price per set of four pieces.....	2.25
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SHAFTS

Half-Finished Buggy Shafts



Size	Cross-Bars Not Included	Price Per Pair XX
1 3/4 in.....		\$3.25
1 7/8 in.....		3.25
2 in.....		3.45
Packed 6 pairs to bundle.		

Finished Buggy Shafts, With Cross-bars

Size	Price Per Pair XX
1 3/4 in.....	\$3.60
1 7/8 in.....	3.60
2 in.....	3.90
Packed 6 pairs and 6 cross-bars to bundle.	

Half-Finished Cutter Shafts

Stock Sizes and Prices same as Half-Finished Buggy Shafts

Half-Finished Bike Shafts

High Bend

Size	Price Per Pair XX
1 7/8 in.....	\$3.80
2 in.....	4.05

Half-Finished Single-Bend Express Shafts



Size	Price Per Pair XX
2 in.....	\$4.00
2 1/4 in.....	4.75
2 1/2 in.....	5.25
2 3/4 in.....	6.50

Finished Single-Bend Express Shafts

With Cross-bars

Size	Price Per Pair XX
2 1/4 in.....	\$5.25
2 1/2 in.....	5.75

An extra charge will be made for one side only.

SHAFTS

Half-Finished Double-Bend Express Shafts



Size	Price Per Pair XX
2 in	\$4.95
2 ¹ / ₄ in	7.50
2 ¹ / ₂ in	8.10
2 ³ / ₄ in	8.75

Finished Double-Bend Express Shafts

With Crossbars

Size	Price Per Pair XX
2 ¹ / ₄ in	\$8.15
2 ¹ / ₂ in	8.75

Half-Finished Straight-Heel Wagon Shafts



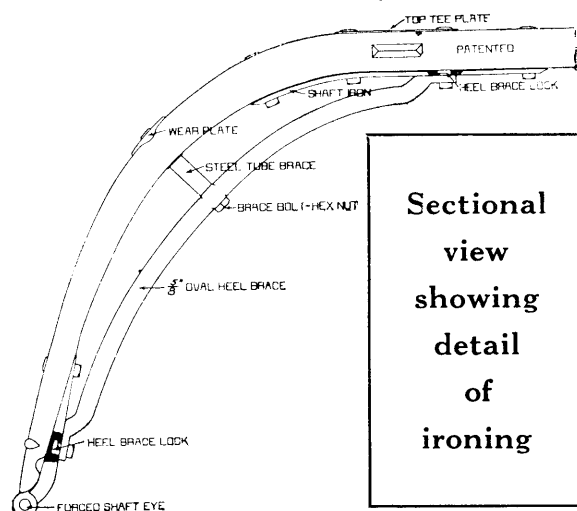
Size	Price Per Pair XX
2 ¹ / ₄ in	\$3.75
2 ¹ / ₂ in	5.00
2 ³ / ₄ in	6.25
3 in	6.75

Half-Finished Cart Shafts

Size	Single Bend	Double Bend
2 in	\$5.35	\$9.15
2 ¹ / ₄ in	5.40	9.25
2 ¹ / ₂ in	7.00	11.15

An extra charge will be made for one side only.

Twentieth Century Shafts



Sectional
view
showing
detail
of
ironing

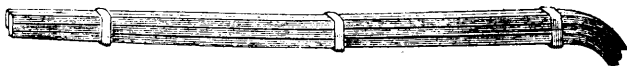
The Twentieth Century Shaft has no weak points. Brace is of same bend as heel of shaft, completely locked at each end, to both Tee Plate and Shaft Eye.

Ironed complete, in the white, with plain eye. Price per pair.....\$7.00
Ironed complete, in the white, with Standard Couplers.....\$8.50

Painted and trimmed complete, Price on application.

BUGGY POLES

Half-Finished Single-Bend Poles. Hickory



Size	Price Each XX	Size	Price Each XX
2¼ in.....	\$3.95	3 in.....	\$4.30
2½ in.....	4.05	3¼ in.....	4.60
2¾ in.....	4.20	3½ in.....	5.00

Finished Single-Bend Poles
Including Circles

Size	Price Each XX	Size	Price Each XX
2¼ in.....	\$4.50	2¾ in.....	\$4.70
2½ in.....	4.65	3 in.....	4.90

Half-Finished Straight-Heel Poles

For sizes and prices see Half-Finished Single-Bend Poles above.

Half-Finished Double-Bend Poles

Size	Price Each XX	Size	Price Each XX
2¼ in.....	\$4.25	3 in.....	\$5.40
2½ in.....	4.40	3¼ in.....	6.00
2¾ in.....	4.85	3½ in.....	6.50

Finished Double-Bend Poles
Including Circles

Size	Price Each XX	Size	Price Each XX
2¼ in.....	\$4.80	2¾ in.....	\$5.40
2½ in.....	4.95	3 in.....	6.00

Buggy Pole Circles

Old Bend

Hickory

New Bend



Old or New Bend

Size	Half-Finished Price Per Doz.	Finished Price Per Doz.
1¼ in.....	\$5.10	\$7.25
1½ in.....	6.00	8.50
1¾ in.....	7.00	9.50

SHAFT CROSSBARS

Hickory

Half-Finished Crossbars

Finished Crossbars

Size	Price Per Doz.	
	XX	XXX
1 3/4 in.....	\$ 5.10	\$ 6.25
2 in.....	6.00	7.65
2 1/4 in.....	7.25	9.05
2 1/2 in.....	8.85	11.00
2 3/4 in.....	10.25	12.60
3 in.....	12.00	15.00

Size	Price Per Doz.	
	XX	XXX
1 3/4 in.....	\$ 5.85	
2 in.....	6.80	
2 1/4 in.....	8.05	
2 1/2 in.....	9.50	
2 3/4 in.....	11.25	
3 in.....	12.75	

CARRIAGE DOUBLETREES

Hickory. Finished in White

Size	Price Per Doz.	
	XX	XXX
2 1/4 in.....	\$ 7.60	\$ 9.25
2 1/2 in.....	8.25	10.00
2 3/4 in.....	10.15	12.50
3 in.....	11.75	14.15

SINGLETREES

Sword End



Round End

Carriage Singletrees, Round End

Size	Price Per Doz.	
	XX	XXX
1 3/4 in.....	\$4.80	\$6.00
2 in.....	5.25	7.35
2 1/4 in.....	6.00	7.75

Size	Price Per Doz.	
	XX	XXX
2 1/2 in.....	\$ 7.60	\$ 9.60
2 3/4 in.....	9.50	12.00
3 in.....	10.50	13.25

Carriage Singletrees, Sword End

Size	Price Per Doz.	
	XX	XXX
1 7/8 in.....	\$5.25	
2 in.....	6.25	

WAGON WHIFFLETREES



Hickory

Size	Price Per Doz.	
	Oval	Round
2 5/8 in.....	\$4.80	
2 3/4 in.....	5.10	\$6.80
3 in.....	6.50	8.50
3 1/4 in.....	7.20	
3 1/2 in.....	7.60	

Plow Whiffletrees

Oval

Size, 2 1/2x30 in. Price per dozen.....\$2.50

Agricultural Whiffletrees

Size, 2 1/2x28 in. Price per dozen.....\$1.90

WAGON NECKYOKES

In the White



Size	Hickory	Price Per Doz.
2 3/4 x 42 in		\$ 9.00
3 x 42 in		10.50
2 3/4 x 48 in		10.00
3 x 48 in		13.25
3 1/4 x 48 in		17.25
3 1/2 x 54 in		30.00

Twin Neckyokes

In the White

Size, 1 3/4 x 24 in.	Price per dozen	\$2.40
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CARRIAGE NECKYOKES

In the White



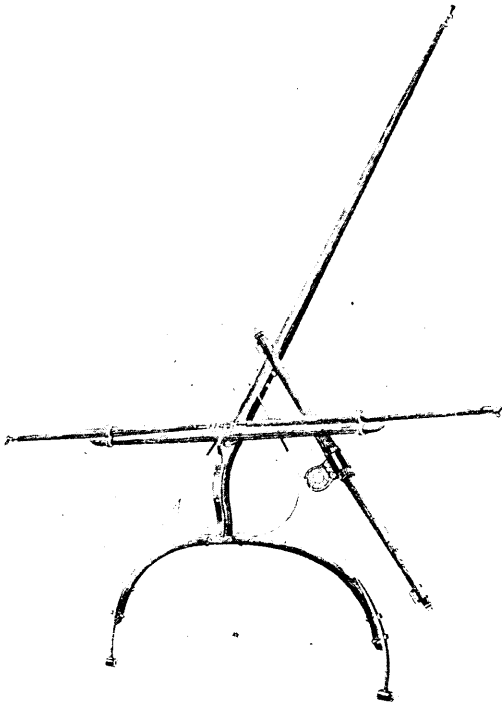
Hickory and Ash

Size	Price Per Doz.	Size	Price Per Doz.
1 3/4 x 42 in	\$5.45	2 1/8 x 42 in	\$5.95
2 x 42 in	5.45	2 1/8 x 48 in	6.75
2 x 48 in	6.40	2 1/4 x 48 in	7.00

Carriage Neckyokes

Ironed, With Leather Centre

Size	Price, Each
2 x 42 in	\$1.00
2 x 48 in	1.15
2 1/4 x 48 in	1.25
Extra for Pearson Centre	.50



IRONED BUGGY POLES

Finished and Ironed Off Complete. Ready to paint, with Doubletree, Singletrees and Neckyoke.

Only the best Seasoned Hickory used in these poles.

Price Each, in the White.

Size	Plain Eyes
2 1/4 in	\$12.50
2 1/2 in	13.85
2 3/4 in	14.85
3 in	16.00
Extra for Standard Couplers	1.50

Painted and Trimmed Complete,
Ready for use

Colors—Black, Dark Green and Carmine
nicely striped.

Size, 2 1/2 in. Price on application.

Size, 2 3/4 in. Price on application.

WAGON AND SLEIGH TONGUES

Oak Wagon Tongues. Length 12 Ft.



Sizes	Half-Finished	Finished
	Each	Each
3½x3½ in.....	\$3.40	\$3.75
3¾x3¾ in.....	3.40	3.75
4 x4 in.....	3.40	3.75
3½x4 in.....	3.40	3.75

Oak and Maple Sleigh Tongues. Length 12 Ft.

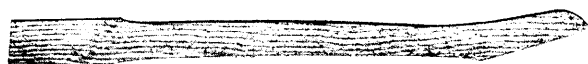
Sizes	Half-Finished, Each
2½x5 in.....	\$3.20
3 x5 in.....	3.55

WAGON TONGUE HAWNS



Size, 2 in. Price per pair.....95c.

WAGON HAWNS



Hind Wagon Hawns

Size, 2 in. x 4 ft. long. Price per pair.....\$1.10

Front Wagon Hawns

Size, 2 in. x 4 ft. long. Price per pair.....1.25

Bent Wagon Hawns

Size, 2 x 3 in. Price each.....1.75

OAK WAGON REACHES



Size	Dressed Four Sides	Price Each
2x4x10 ft.....		\$1.25
2x4x12 ft.....		1.50
2x4x14 ft.....		1.85
2x4x16 ft.....		2.00
2x4½x10 ft.....		1.50
2½x4½x10 ft.....		1.85
Size	Ironed and Painted	Price Each
2x4x10 ft.....		\$1.75
2x4x12 ft.....		2.25

WAGON DOUBLETREES

In the White



Finished, Not Bored

Size	Price Per Dozen	
	Oak	Hickory
2 x4 x48 in.....	\$ 6.75	
2 x4½x48 in.....	7.30	\$ 8.30
2 x5 x48 in.....	8.75	9.95
2 x6 x48 in.....	10.00	
2¼x4½x48 in.....	8.90	
2¼x5 x48 in.....	9.50	10.70

PLOW DOUBLETREES

In the White

Size	Price Per Doz.	
1¾x3½x42 in.....		\$4.75
2x4x36 in.....		5.00

WAGON AND PLOW EVENERS

In the White

Three and Five-Horse Eveners



Four and Six-Horse Eveners



Three-Horse Eveners

Size	Price Per Dozen	
	Oak	Hickory
2 x5x60 in.....	\$ 9.95	\$10.70
2½x5x60 in.....	12.50	14.50

Four-Horse Eveners

Size	Price Per Dozen	
	Oak	Hickory
2 x6x72 in.....	\$13.95	\$15.35
2½x6x72 in.....	17.10	18.55

Five-Horse Eveners

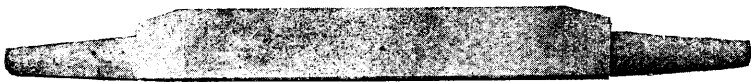
Size	Price Per Dozen	
	Oak	Hickory
2 x7x84 in.....	\$18.70	\$20.15
2½x7x84 in.....	23.05	25.50

Six-Horse Eveners

Size	Price Per Dozen	
	Oak	Hickory
2 x8x96 in.....	\$26.90	\$28.30
2½x8x96 in.....	33.20	34.60

We carry a stock of Eveners 2¼ inches thick. Not shown in above list

WAGON AXLES



Size		MAPLE	Dressed Each	Half-Finished Each
3	x4 in.		\$1.55	\$1.65
3½	x4½ in.		2.00	2.10
4	x5 in.		2.20	2.55
4½	x5½ in.		3.10	3.15
5	x6 in.		3.70	3.80

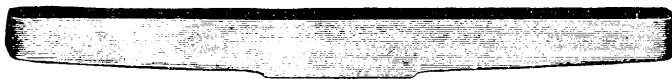
Size		HICKORY	Dressed Each	Half-Finished Each
3½	x4½ in.		\$2.55	\$2.70
4	x5 in.		3.20	3.25
4½	x5½ in.		3.95	4.05

Finished or Turned Axles

Size		For Arm	Maple Each	Hickory Each
3	x4 in.	2¾	\$2.05	
3½	x4½ in.	3	3.00	\$3.80
3¾	x4¾ in.	3¼, 3½ in.	3.30	4.20
4	x5 in.	3¼, 3½ in.	3.60	4.60
4½	x5½ in.	3¾ in.	4.35	5.50

For Wide-Track Axles, Add 10 Per Cent. to Above Prices

OAK WAGON AND SLEIGH BOLSTERS



Size		FRONT AND HIND	Half-Finished Each	Finished Each
3	x4 x4 ft.		\$1.20	\$1.35
3½	x4 x4 ft.		1.40	1.50
3½	x4½ x4 ft.		1.55	1.85
4	x5 x4 ft.		2.00	2.10
5	x6 x4 ft.		2.70	2.80

WHEN ORDERING, SPECIFY FRONT OR HIND, AND STATE WHETHER FOR WAGON OR SLEIGH.

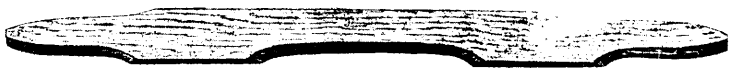
WAGON BOLSTER STAKES

Size, 1x3x14 inches. Price per dozen.....\$3.00

EXPRESS RACK STAKES

Size	Finished	Price Per Dozen
1½x2 x26 in.		\$2.50
1½x2¼x26 in.		3.25
1½x2½x30 in.		3.60

SAND BOARDS



Oak

Size, inches.....	3 1/2	3 3/4	4
Price each.....	\$1.20	\$1.30	\$1.35

PLOW BEAMS

Oak. Sawn to Shape

Size	Price Each
3 x6 x7 ft.....	\$2.10
3 1/2 x6 1/2 x7 ft.....	2.70
4 x8 x8 ft.....	4.20

BENT STONE BOATS

Runners and Crossbars Only

Bolted Ready for Use

in the White		Price Each	Size		Price Each
3	x7 ft.....	\$8.00	3	x7 ft.....	\$11.10
3 1/2	x7 ft.....	9.50	3 1/2	x7 ft.....	12.40
4	x7 ft.....	10.50	4	x7 ft.....	14.35
Extra Runners. Each.....		1.50			

WAGON BOX MATERIAL

Wagon Box Sides and Ends

Wagon Box Bottoms

In Sets. One Set Consists of 2 Side-boards and 1 End-board.

In Sets. Tongued and Grooved. Size, 38 in. x 11 ft.

Width, inches.....	12	14	16	18
Price per set.....	\$4.95	\$5.60	\$6.35	\$7.10
Ends only, each.....	.75	.85	.95	1.05

Thickness	Price
1 in.....	\$4.65
1 1/4 in.....	6.50

Wagon Box Crossbars

Wagon Box Cleats

Size, 3/4 x 1 3/4 x 22 ins.

Price per set of Four Pieces.....	\$1.30	Price per set of Eight Pieces.....	.80
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Patent End Gates

Ironed. In the White

Size, inches.....	7	12	14	16	18
Price each.....	\$0.90	\$1.20	\$1.35	\$1.50	\$1.65

Ironed and Painted. Color Green

Size, inches.....	7	12	14	16	18
Price, each.....	\$1.60	\$1.70	\$1.80	\$1.90	\$2.00

Half-Round Water Tanks

Made of 2-inch Pine. Top of 1-in. stock. Knock-down.
Capacity, 12-barrel.
Capacity, 16-barrel.
Prices on application.

Square Water Tanks

Made of 2-in. Pine. Top of 1-in. Stock. Knock-down.
Capacity 12-barrel.
Capacity, 16-barrel.
Prices on application.

HARDWOOD LUMBER

We can supply selected Hardwood in any quantity, and will be pleased to quote special prices on car-load lots.

Oak

1 in. and 1 1/4 in. thick \$
1 1/2 in. and 2 in. thick
2 1/2 in. and 3 in. thick
3 1/2 in. and 4 in. thick

White Ash

1 1/4 in. and 1 1/2 in. thick \$
2 in. thick

Hickory

1 in., 1 1/4 in., 1 1/2 in. and 2 in. thick \$
2 1/2 in. and 3 in. thick

Basswood

1/2 in. and 5/8 in. thick \$
1 in. thick

Hard Maple

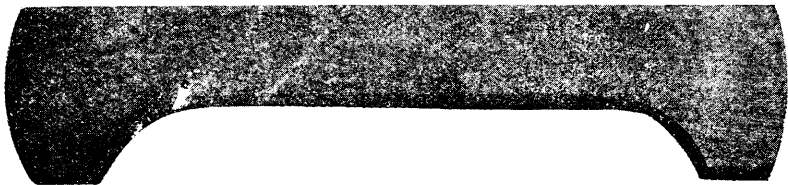
1 in. and 1 1/2 in. thick \$
2 in. thick

Whitewood

1/2 in. and 5/8 in. thick \$
1 in. thick

SLEIGH WOODWORK

Sleigh Benches



Width, Depth	Price Each
3 1/2 x 8 in.	\$1.70
4 x 8 in.	2.15
4 1/2 x 8 in.	2.30
5 x 8 in.	2.65
6 x 8 in.	2.90

Sleigh Rollers

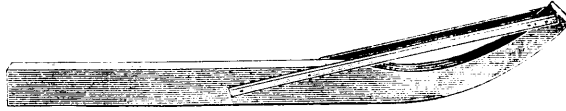
Size, Inches	Dressed and Gained Each	Tapered and Gained Each
3 1/2 x 3 1/2	\$.80	\$.90
3 3/4 x 3 3/4 .....	.90	1.00
4 x 4	1.00	1.10

Sleigh Reaches

Size	Price
2x4x3 ft	50c.
2x5x3 ft	60c.

SLEIGH WOODWORK

Bent Sloop Runners



Selected Oak. Dressed Four Sides

Price Per Set of Four Runners

Depth	Tread	Length		X	XX
3 "	x 2 "	x 7'		\$ 5.50	\$ 6.10
4 "	x 2 "	x 7'		7.00	7.80
4 1/2 "	x 2 "	x 7'		8.00	8.95
5 "	x 2 "	x 7'		8.95	9.95
6 "	x 2 "	x 7'		10.65	11.85
5 "	x 2 1/4 "	x 7'			11.50
6 "	x 2 1/4 "	x 7'			13.00
4 1/2 "	x 2 1/4 "	x 7'		10.35	11.50
5 "	x 2 1/2 "	x 7'		11.45	12.75
6 "	x 2 1/2 "	x 7'		13.65	15.50
5 "	x 3 "	x 7'			15.20
6 "	x 3 "	x 7'			16.90

Hickory Bob Runners

Length, 6 Feet

Price Per Set of Four Runners

Depth	Tread	Per Set	Depth	Tread	Per Set
1 1/4 "	x 1 1/4 "	\$2.20	2 "	x 1 3/4 "	\$4.10
1 1/2 "	x 1 1/4 "	2.40	2 "	x 2 "	4.55
1 1/2 "	x 1 1/2 "	2.50	2 1/4 "	x 2 "	4.70
1 3/4 "	x 1 1/2 "	2.75			

Grocery Bob Beams

Four Pieces to Set

Size, inches	2 1/4 x 1 1/4	2 1/2 x 1 1/2
Price per set	\$1.15	\$1.35

Grocery Bob Raves

Price Per Pair

Size	Straight	Bent
7/8 x 4 in	\$0.55	\$1.20
7/8 x 5 in	.65	1.35

CUTTER WOODWORK

Cutter Runners

Hickory, Length 10 ft.

Size, inches	1	1 1/8	1 1/4	1 3/8	1 1/2
Price per pair	\$1.75	\$1.95	\$2.20	\$2.45	\$2.75

Cutter Fenders

Size	Price Per Pair
7/8 in	\$0.80
1 in	.85

Bent Cutter Raves

Size	Price Per Pair
7/8 x 2 in	\$1.20
7/8 x 4 in	1.45

Cutter Beams

Three Pieces to Set

Size	Price Per Set
2x1 in	\$0.70
2x1 1/4 in	.95

Bent Cutter Knees

Hickory. Six Pieces to Set
Single or Double Bend

Size	Price Per Set
1 in	\$1.60
1 1/8 in	1.65

Cutter Dash Posts

Price Per Pair

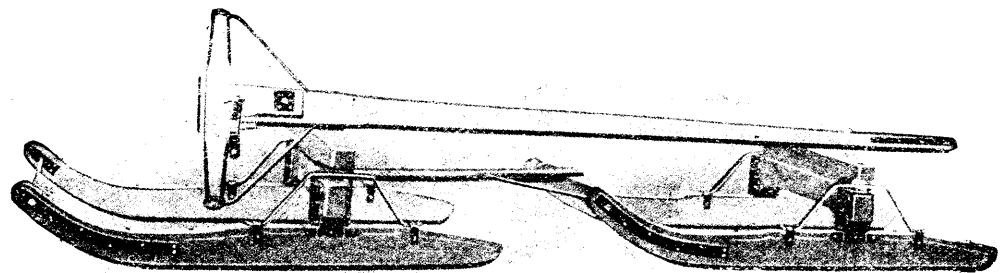
Single Bend, 1 1/4 x 1 1/4 in	\$0.60
Double Bend, 1 1/4 x 1 1/4 in	.80

Basswood Panels

Per Square Ft.

Size 20x40 in	\$0.18
Larger sizes	.20

GENUINE GREGG MAINITE SLEIGHS
PAINTED RED



Made of solid bent one-piece runners; extra heavy beams and bolsters; steel side and nose irons; heavy start pins and raves.

Runners	Complete with Steel Shoes	Complete with Cast Shoes
2x6x7	\$.....	\$.....
2½x6x7	\$.....	\$.....

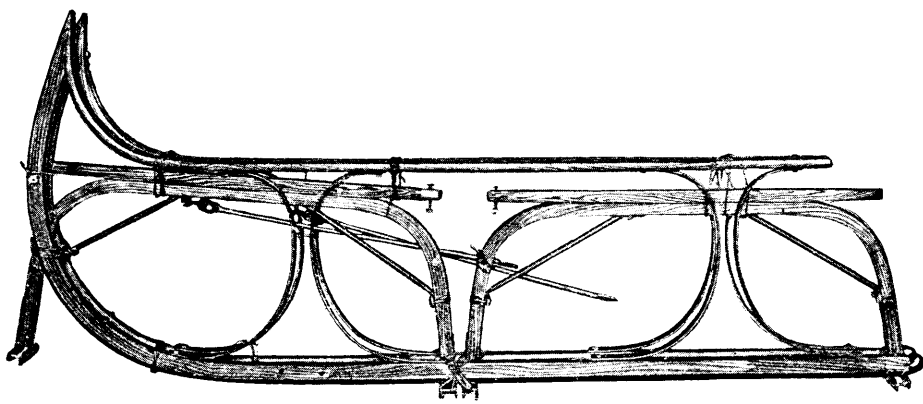
Prices on Application.

Repair Runners

In the White. Complete with Nose Iron and Shoe
Ready to Fit to Any Farm Sleigh

Width, 2 in.	With Steel Shoe.	Price each.....	\$4.75
Width, 2 in.	With Cast Shoe.	Price each.....	4.90

FAVORITE KNOCK DOWN CUTTER GEAR



KNOCKED DOWN FOR SHIPMENT

This is the latest development in Cutter Gear construction; by its use any ordinary buggy body may be quickly converted into a practical cutter with all of the comforts of a buggy.

The Favorite Cutter Gear is shipped knocked down as shown in the above illustration. This feature saves freight, saves storage room, and adds to the ease in handling.

Easily set up, easily attached, easily knocked down for summer storage.

Price, each. Painted.....	\$11.50
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WAGON NECKYOKES

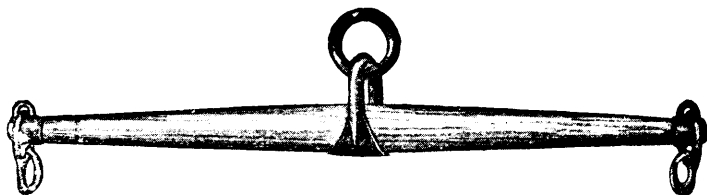


Hickory, Varnished

No.	Woods	Ferrules	Rings	Price Per Doz.
11	2 ⁵ / ₈ x 40	1 ¹ / ₂ in.	3 x ³ / ₈ in.	\$16.00
12	2 ³ / ₄ x 42	1 ¹ / ₂ in.	3 x ³ / ₈ in.	16.50
14	3 x 48	1 ³ / ₄ in.	3 ¹ / ₄ x ⁷ / ₁₆ in.	22.15

For painted, add 75c. doz. to above prices.

WAGON SINGLETREES—FERRULE END

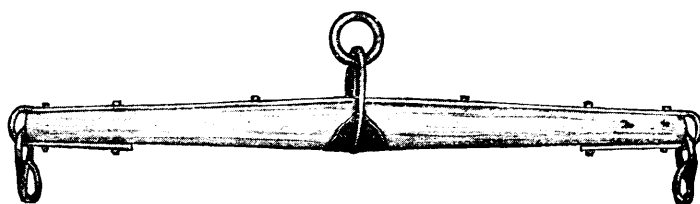


Hickory, Varnished

No.	Woods	Ferrules	Hooks	Clips	Rings	Price Per Doz.
20	2 ⁵ / ₈ x 36	1 ³ / ₈ in.	³ / ₈ in.	⁹ / ₁₆ in.	¹ / ₂ in.	\$10.90
21	2 ³ / ₄ x 36	1 ¹ / ₂ in.	³ / ₈ in.	⁹ / ₁₆ in.	¹ / ₂ in.	13.00
22	3 x 36	1 ³ / ₄ in.	¹ / ₁₆ in.	³ / ₄ in.	⁵ / ₈ in.	17.60

For painted, add 75c. dozen to above prices.

WAGON SINGLETREES—FULL STRAP



Hickory, Varnished

No.	Woods	Straps	Hooks	Clips	Rings	Price Per Doz.
235	2 ⁵ / ₈ x 34	¹ / ₂ in.	³ / ₈ in.	⁹ / ₁₆ in.	¹ / ₂ in.	\$14.40
236	2 ³ / ₄ x 34	¹ / ₂ in.	¹ / ₁₆ in.	⁹ / ₁₆ in.	¹ / ₂ in.	15.30
237	3 x 36	⁵ / ₈ in.	¹ / ₁₆ in.	³ / ₄ in.	⁵ / ₈ in.	17.65

For painted, add 75c. dozen to above prices.

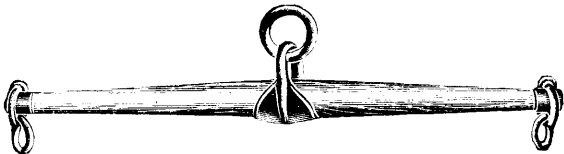
WAGON SINGLETREES—STRAP END

Hickory, Varnished

No.	Woods	Straps	Hooks	Clips	Rings	Price Per Doz.
30	2 ⁵ / ₈ x 34	¹ / ₂ in.	³ / ₈ in.	⁹ / ₁₆ in.	¹ / ₂ in.	\$12.40
31	2 ³ / ₄ x 34	¹ / ₂ in.	¹ / ₁₆ in.	⁹ / ₁₆ in.	¹ / ₂ in.	14.25
32	3 x 36	¹ / ₁₆ in.	¹ / ₁₆ in.	³ / ₄ in.	⁵ / ₈ in.	16.50

For painted, add 75c. doz. to above prices.

PLOW SINGLETREES—FERRULE END



Hickory, Varnished

No.	Woods	Ferrules	Hooks	Clips	Rings	Price Per Doz.
101	2½x28	1¼ in.	5/16 in.	½ in.	7/16 in.	\$8.95
103	2½x30	1¼ in.	5/16 in.	½ in.	7/16 in.	8.95

For painted, add 60c. dozen to above prices.

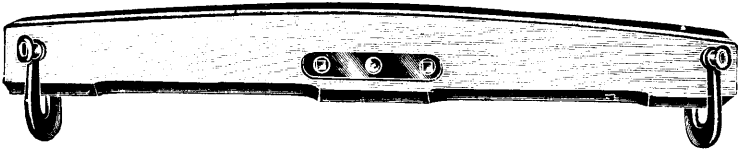
AGRICULTURAL SINGLETREES—FERRULE END



No.	Woods	Price Per Doz.
150	2½x28 inch	\$5.95

For painted, add 60c. dozen to above price.

WAGON DOUBLETREES



With Clevises
Varnished

No.	Woods	Price Per Doz.
210	2 x4 x48	\$15.00
211	2 x4½x48	16.50
212	2 x5 x48	19.10
213	2¼x4½x48	19.90
214	2¼x5 x48	21.00
215	2½x5 x48	25.15

For painted, add \$1.25 doz. to above prices.

PLOW DOUBLETREES

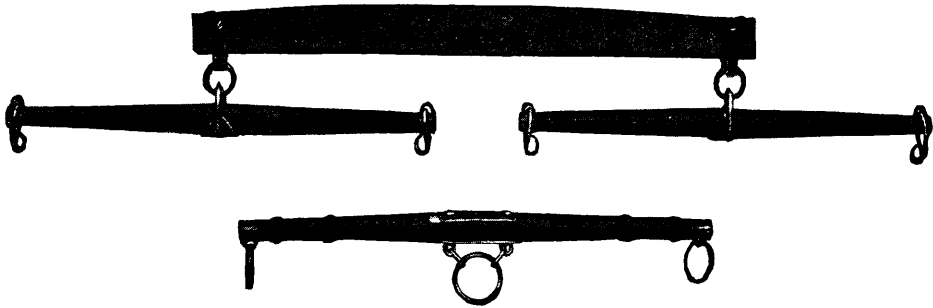


Varnished

No.	Woods	Price Per Doz.
220	1¾x3½x42	\$11.60

For painted, add \$1.25 doz. to above prices.

IRONED WAGON SINGLETREES, EVENERS AND NECKYOKES IN SETS



Set No. 1

Evener—2x4x48-inch, riveted ends, with clevises.
Singletrees—2 $\frac{5}{8}$ x36-inch, ferrule end.
Neckyoke—2 $\frac{5}{8}$ x42-inch.

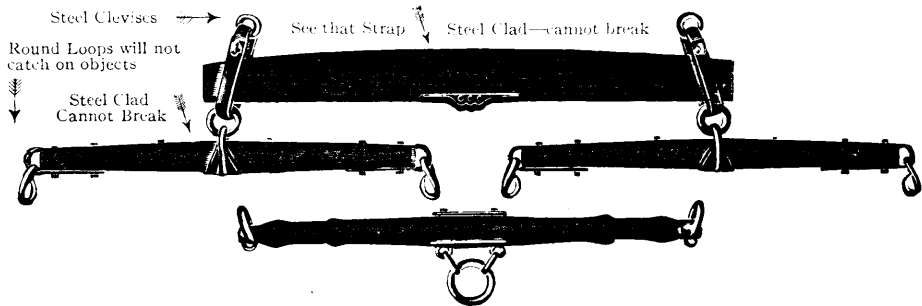
	Per Set
Varnished	\$4.50
Painted	4.75

Set No. 2

Evener—2x4 $\frac{1}{2}$ x48-in., riveted ends, with clevises.
Singletrees—2 $\frac{3}{4}$ x36-inch, ferrule end.
Neckyoke—3x48-inch.

	Per Set
Varnished	\$5.50
Painted	5.75

STEEL CLAD WAGON SINGLETREES, EVENERS AND NECKYOKES IN SETS



Extra heavy, straight-grain wood—reinforced with steel straps—cannot break

Set No. 3

Evener—2x4x48-inch, steel back.
Singletrees—2 $\frac{5}{8}$ x36-inch, full strap.
Neckyoke—2 $\frac{3}{4}$ x42-inch.

	Per Set
Varnished	\$5.65
Painted	5.90

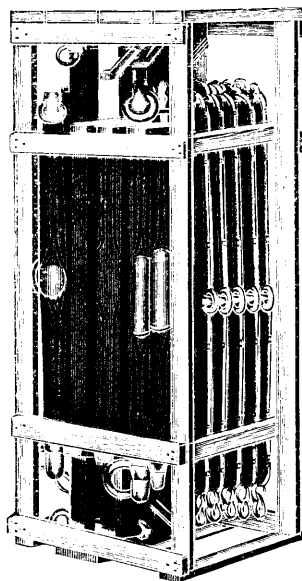
Set No. 5

Evener—2x4 $\frac{1}{2}$ x48-inch, steel back.
Singletrees—2 $\frac{3}{4}$ x36-inch, full strap.
Neckyoke—3x48-inch.

	Per Set
Varnished	\$6.60
Painted	6.85

WAGON SINGLETREES, EVENERS AND NECKYOKES

In Crates



Six complete, painted and striped wagon sets in each crate.

Crate No. 50

6—2x4x28-inch eveners with regular clevises.

6—2 $\frac{3}{4}$ x42-inch neckyokes.

12—2 $\frac{3}{4}$ x26-inch ferrule-end singletrees.

Painted red. Price, each, \$26.90.

Crate No. 60

6—2x4 $\frac{1}{2}$ x48-inch eveners with regular clevises.

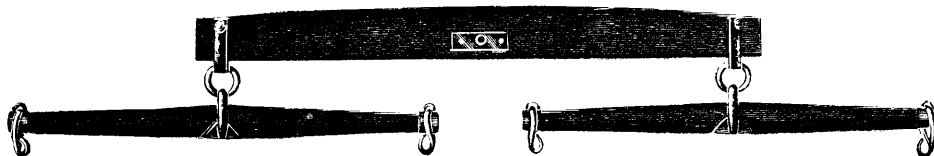
6—3x48-inch neckyokes.

12—2 $\frac{3}{4}$ x36-inch ferrule-end singletrees.

Painted red. Price, each, \$31.75.

These crates can be supplied with heavier singletrees, eveners and neckyokes if desired.
Weight, per crate, 230 lbs.

PLOW DOUBLETREE SETS



No.
320

Evener
1 $\frac{3}{4}$ x3 $\frac{1}{2}$ x42 in.

Singletree
2 $\frac{1}{2}$ x30 in.

Price Per Set,
Painted Red
\$2.60

AGRICULTURAL SETS



No.
350

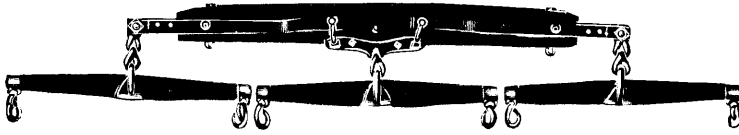
Evener
1 $\frac{5}{8}$ x3 $\frac{1}{2}$ x34 in.

Two-Horse

Singletree
2 $\frac{1}{2}$ x28 in.

Price Per Set,
Painted Red
\$1.75

McCOY COMBINED TWO AND THREE-HORSE EQUALIZER



No. 501 Evener—2x4x46 inches. Without Centre Hook Singletrees—2 $\frac{3}{4}$ x28 inches.
 Price each, painted red, \$5.25.

FOUR-HORSE HITCH



No. 370 Size of Evener 2x6x72 in. Size of Singletrees 2 $\frac{1}{2}$ x28 in. Weight 53 lbs.
 Price each, painted red, \$6.75.

FOUR-HORSE HITCH

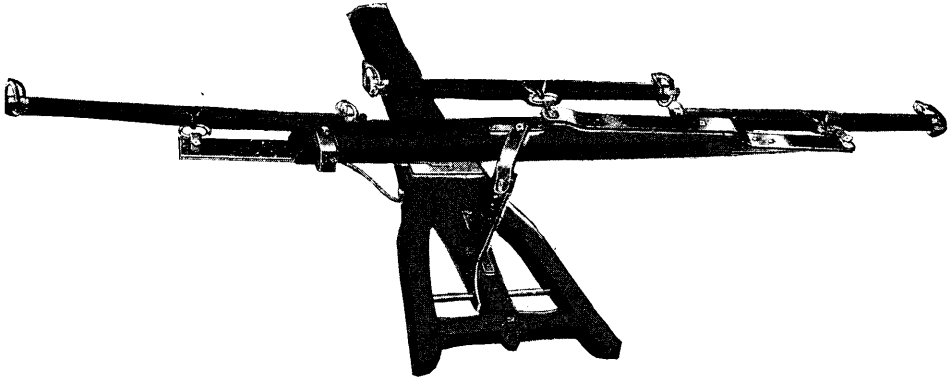


No. 380 Size of Main Evener 2x6x72 in. Size of Doubletrees 1 $\frac{5}{8}$ x3 $\frac{1}{2}$ x34 in. Size of Singletrees 2 $\frac{1}{2}$ x28 in. Weight 52 lbs.
 Price each, painted red, \$6.75.

THREE-HORSE HITCH



No. 390 Size of Evener 2x5x48 in. Size of Singletrees 2 $\frac{1}{2}$ x28 in. Weight 30 lbs.
 Price each, painted red, \$4.95.

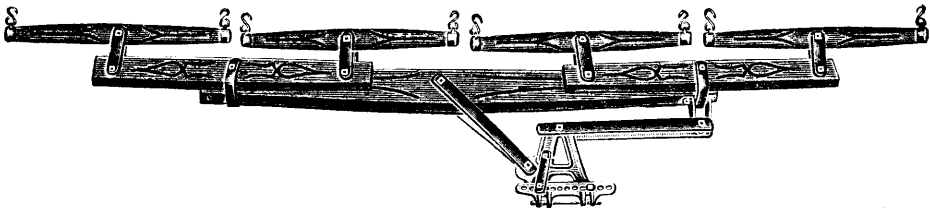
GREGG THREE-HORSE WAGON EVENER

No. 400

Weight, 48 lbs.

This Evener can be easily and quickly attached to anything having a pole, such as a wagon, manure spreader, or grain drill, working one horse on one side of the pole and two on the other. Does not require a longer pole than a regular two-horse evener.

Price each, painted red, \$8.25.

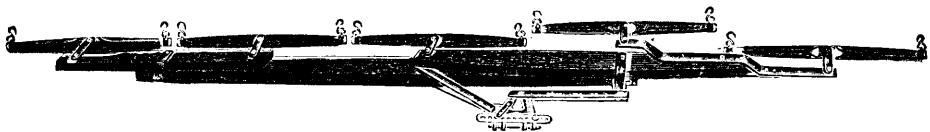
**GREGG FOUR-HORSE GANG, SULKY
AND DISC PLOW EVENER**

No. 410

Weight, 60 lbs.

With this Evener you can work four horses abreast on either a gang, sulky or disc plow, putting one horse in the furrow and three on the land. The evener works freely and the load is equally divided between all of the horses. The eveners and singletrees are extra heavy, all of the castings are malleable and the straps are steel. This evener is so constructed that it can be used on any plow using a cross clevis hitch, or on any disc plow that has a broad, flat draft bar. By using clevis attachment No. 10, this evener can be used on gang or sulky plows using a frame or vertical clevis hitch.

Price each, painted red, \$9.00.

GREGG FIVE-HORSE GANG PLOW EVENER

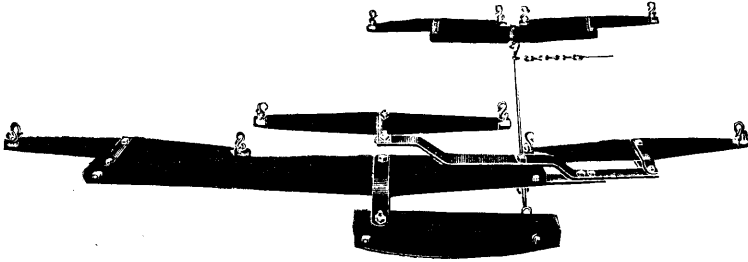
No. 420

Weight, 85 lbs

This Evener permits you to work five horses abreast on a gang plow, putting one horse in the furrow and four on the land, allowing each horse plenty of room to work in. The eveners and the singletrees are extra heavy, the castings are of the best malleable iron, and the straps are steel. This evener is so constructed that it can be used on any gang plow using a cross clevis hitch. By using clevis attachment No. 10, can be used on gang plows using frame hitch, or on gang plows where frame connects the beams.

Price each, painted red, \$12.15.

GREGG FIVE-HORSE TANDEM EVENER



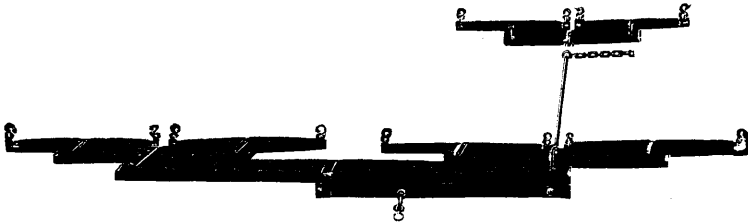
No. 430

Weight, 64 lbs.

This Evener works two horses in the lead and three in the rear, and is a positive equalizer. There is no friction on the land side of the plow. On gang plows it is attached in front of the first furrow. Allows plenty of room for each horse to work in. The rod of the lead team works through a loop under the rear three-horse evener, and is arranged with a stop. If either the lead or the rear horses stop suddenly, there is no chance for them to get tangled up.

Price each, painted red.....\$10.15

GREGG SIX-HORSE TANDEM EVENER



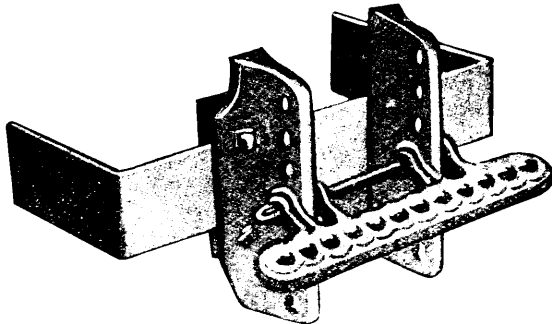
No. 440

Weight, 87 lbs.

This Evener works two horses in the lead and four in the rear, and is a positive equalizer. It is attached to the centre of the gang plow, doing away with all friction on the land side. Allows plenty of room for each horse to work in. All wood parts made extra heavy. The rod of the lead team works through a loop under the four-horse evener, and is arranged with a stop. If either the lead or the rear horses stop suddenly, there is no chance for them to get tangled up.

Price each, painted red.....\$11.60

EXTRA CLEVIS ATTACHMENT



No. 10

Weight, 10 lbs.

Extra Clevis Attachment No. 10 is made to use with four-horse gang or sulky plow evener on all frame hitch gang and sulky plows, or plows having a small frame in front for the clevis. This attachment is also to be used in connection with five-horse evener on all gang plows that have a frame hitch, or where the frame connects the beams. Used by bolting the attachment to the frame of the plow as illustrated.

This attachment must be ordered as an extra.

Price each.....\$1.90

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" Trimmed.....	103	Solder, Half and Half.....	92
Section Rivets.....	28	Sole Leather.....	101
Sections, Binder.....	51	Solid Box Vises.....	61
" Mower.....	51	Solid Dies.....	53
Seeder Rims.....	123	" In Sets.....	55
" Spokes.....	124	" Safety Collars.....	93
Semi-Fin. Hex. Nuts.....	26	Spark Plugs.....	110
Set Screws.....	29	Speed Dies.....	53
Shackles, Shaft.....	41	" In Sets.....	55
" Spring.....	36	" of Wood Split Pulleys.....	92
Shaft Bolts.....	25	Splices, Pole.....	102
" Couplings.....	41	" Shaft.....	102
" Crossbars.....	131	Split Pulleys, Wood.....	91
" Eyes.....	41	Spoke Pointers.....	98
" Shackles.....	41	" Tenoning Machines.....	97
" Splices.....	102	" Wedges.....	125
" Steps.....	32	Spokes, Auto.....	125
Shafting, Cold Rolled.....	8	" Carriage and Wagon.....	124
Shafts.....	128 and 129	Sponges.....	114
Share Blanks.....	50	Spring Bar Clips.....	40
Shares, Plow.....	46 to 50	" Bars.....	127
Sharp, Toe Calks.....	19	" Braces.....	36
Sharpeners, Disc.....	68	" Chairs.....	35
Sharpening Hammers.....	66	" Clip Ties.....	35 and 36
Shear, Comb. Punch and.....	85 and 86	" Shackles.....	36
Shears, Edwards.....	85	" Steel, Auto.....	4
Shell Band Spokes.....	124	" " Com.....	4
Shells, Resetting.....	12	Springs, Auto.....	121
Shoe Hammer Handles.....	125	" Back.....	106
" Pincers.....	64	" Carriage.....	118 to 120
Shoeing, Russell Book on.....	45	" Carrying Capacities of.....	120
" Tongs.....	67	" Cushion.....	106
Shoers' Foot Vises.....	88	" Pole.....	38
Shoes, Brake.....	109	" Wagon.....	118 to 120
" Cast Sleigh.....	5	" Whiffletree.....	30
" Horse.....	10 to 16	Square Files.....	58
" Neverslip.....	14 to 16	" Solid Dies.....	53
Short Spring Clips.....	40	" Water Tanks.....	137
Shrinkers, Tire.....	82	Stake Pockets.....	34
Sickle Bar Steel.....	8	" Rack Fasteners.....	34
Side Bar Clips.....	40	Stakes, Bolster.....	138
" Braces, Wagon Box.....	38	" Express Rack.....	135
" Curtain Rubber.....	102	Staples, Wagon Box.....	34
" Platform Springs.....	119	Stamps, Steel.....	57
Sides and Ends, Wagon Box.....	137	Standard Drill Chucks.....	81
Single Bend Poles.....	130	Star Frictionless Metal.....	92
" Shafts.....	128	Stearns' Hollow Augers.....	96 to 97
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" Ironed Agric.....	141	" Angle Wrenches.....	95
" " Plow.....	141	" B. and M. Ribbed.....	20
" " Wagon.....	140	" C. and K.....	20
Six-Horse Eveners.....	134	" Clad Evener Sets.....	142
" Ironed.....	143	" Pole Caps.....	38
Skein Bolts.....	25	" Skeins.....	118
" Boxes and Nuts.....	118	" Stamps.....	57
Skeins, Wagon.....	117 and 118	" "S' Wrenches.....	95
Skins, Chamois.....	114	" Wagon Wrenches.....	38
Sledge Handles.....	125	" Wire Brushes.....	114
Sledges, Blacksmiths'.....	63	" Wool.....	113
Sleigh Benches.....	137	Step Bolts.....	25

Step Plates.....	32
Steps, Buggy.....	32
" Shaft.....	32
Stillson Wrenches.....	95
Stock for Speed Dies.....	53
Stone Boats.....	136
" Pumice.....	113
Stones, Emery.....	71
" Farrier Knife.....	60
Stove Bolts.....	24
Straight Hardies.....	62
" Heel Shafts.....	129
" Poles.....	130
" Lip Tongs.....	67
" Shank Drills.....	56
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Straps, Hammer.....	38
" Roll-up.....	105
Studebaker Skeins.....	118
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Success Emery Grinders.....	68
Sulky Rims.....	123
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Superior Axle Clips.....	40
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Tanged Horse Rasps.....	60
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" Shank Drills.....	56
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" In Sets.....	54
" Neverslip.....	17
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" Chains.....	110
" Pumps, Auto.....	109
" Shrinkers.....	82
" Steel.....	4
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" Calks.....	18 and 19
" Weight Shoes.....	11
Toed Racing Plates.....	20
Tongs, Bolt.....	66
" Boston.....	17
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" Swedges.....	62
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" Neckyokes.....	132
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" Shoeing Tongs.....	67
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" Brushes.....	114
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" Braces.....	35
" Cleats.....	136
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" Rivets.....	28
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" Steel	8	" Tire Shrinkers	82
" Strap Bolts	38	Wheel Rivets	28
" Curtain Patches	105	Wheels, Buggy, Fifth	31
" Doubletrees	134	Emery	71
" Ironed	141	Polishing	71
" Eveners	134	Sarven	122
" Ironed	144 to 146	Whiffletree Centre Clips and Rings	39
" Hawns	133	" Clevises	31
" Hubs	125	" Cockeyes	30
" Neckyoze Irons	39	" Couplings	31
" Neckyokes	132	" Ferrules	30
" Ironed	140	" Hook Springs	30
" Paint	114	" Hooks, Mall	30
" Pole Caps	38	" " Premium	107
" " Springs	38	" " Wagon	39
" Reaches	133	Whiffletrees, Ironed Agric	141
" Rims	123	" " Plow	141
" Sandboards	136	" " Wagon	140
Wagon Seat Handles	33	" " Wagon	131
" " Springs	120	Whip Sockets	104
" Singletree Sets, Ironed	142 and 143	Whirlwind Tuyere Irons	76
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" Spokes	124	" Lead	115
" Springs	118	Whitewood	137
" Tongues	133	Willeys' Coach Colors	115
" Varnish	111	" Putty	115
" Whiffletree Centres	39	Wire Brushes	114
" " Hooks	39	Wonder Disc Sharpeners	68
" Whiffletrees	131	Wood Boring Drills	57
" Wrenches	38	" Rasps	58
Washers and Nuts, Box Rod	34	" Screws	27
" Cast	26	" Split Pulleys	91
" Lock	27	Woods' Hollow Augers	96 and 97
" Thin Steel	27	Wool Fat	45
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Water Tanks	137	Wrenches, Bay State	94
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Wedges, Spoke	125	" Crescent	94
Weed Cross Chains	110	" Jonson	17
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" Supplies, Oxy-Acetylene	90		
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