

MONHAGEN SAW WORKS,
Middletown, Orange County, N. Y.

BRANCH OFFICE,
78 Beekman St., New York.

WHEELER, MADDEN & BAKEWELL'S

ILLUSTRATED

PRICE LIST

OF

PATENT GROUND

CIRCULAR, MILL, CROSS-CUT, HAND, PANEL

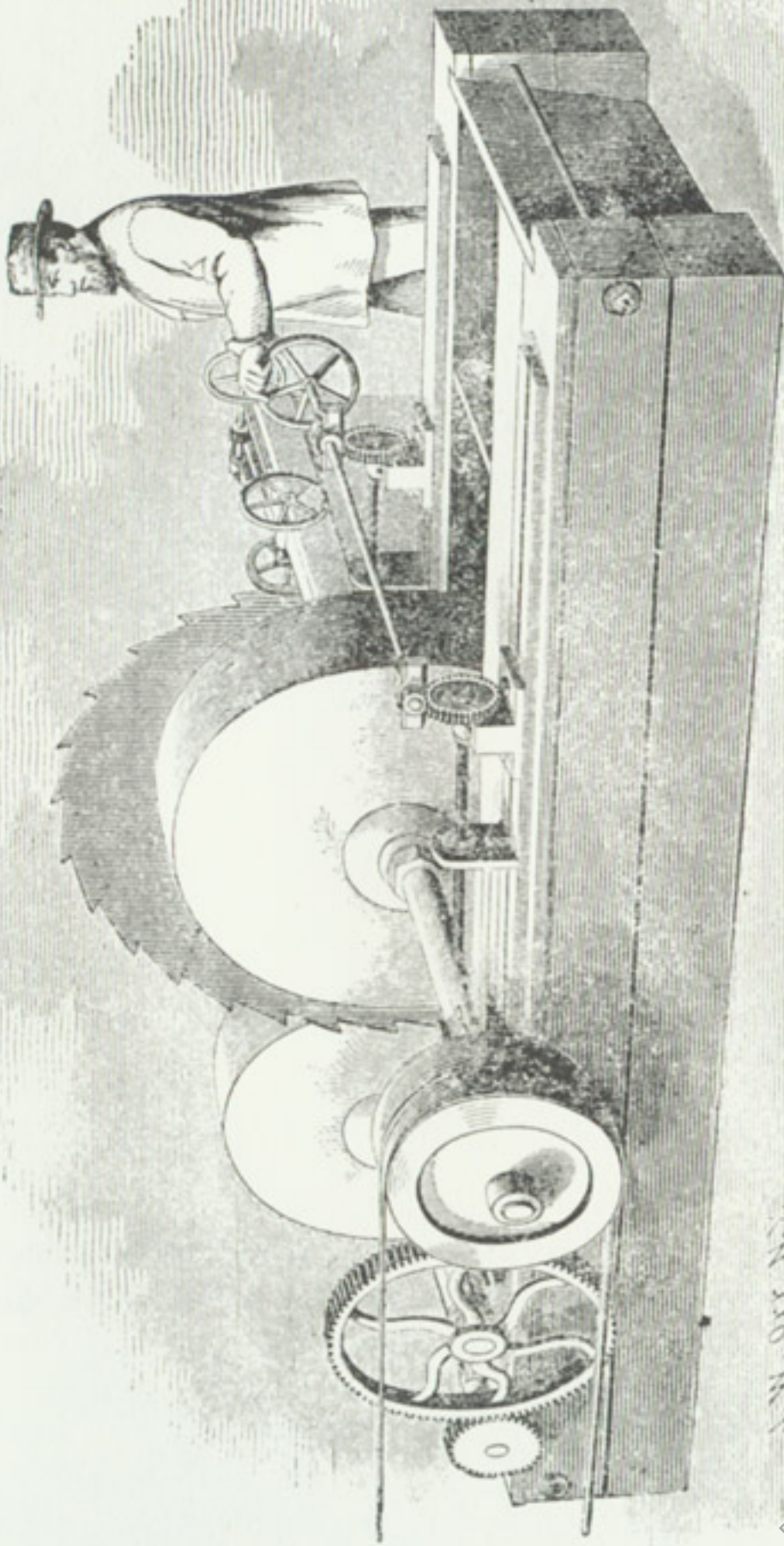
AND RIP SAWS,

BUTCHER'S BOW SAWS, BACK SAWS, WOOD SAWS,
FELLOE AND TURNING WEBS, AND PLASTERING TROWELS.

MIDDLETOWN, N. Y.:

THE "PRESS" PRINTING ESTABLISHMENT, EXCHANGE BUILDING.

1860.



PATENT MACHINE FOR GRINDING CIRCULAR SAWS.

J. M. O'NEILL

PRICE LIST

OF

WHEELER, MADDEN & BAKEWELL'S

PATENT GROUND

EXTRA CAST STEEL

CIRCULAR SAWS,

MILL, MULAY,

CROSS-CUT, HAND, PANEL & RIP SAWS,

BUTCHER'S BOW SAWS,

BACK SAWS, WOOD SAWS, FELLOE AND TURNING WEBS,

AND PLASTERING TROWELS.

MANUFACTORY AT

MIDDLETOWN, ORANGE COUNTY, N. Y.

MIDDLETOWN, N. Y.:

THE "PRESS" PRINTING ESTABLISHMENT, EXCHANGE BUILDING.

1860.

OFFICE MONHAGEN SAW WORKS.

Middletown, Orange County, N. Y.,
January 1st, 1860.

Sents :

We have the pleasure of presenting you herewith our New List of Prices of Cast Steel PATENT GROUND SAWS, and other goods manufactured by us.

Our Saws are sold by the Principal Hardware Merchants in the United States and Canada; but if any description of Saw cannot be found at hand, an order directed to us by mail will receive prompt attention.

Our motto is "Excelsior," and while we shall use every exertion in our power to make all goods bearing our stamp at least equal to any manufactured in America or England, we shall still be willing to sell at the lowest possible price.

Hoping to receive a share of your patronage, we remain

Your most Obedient Servants,

WHEELER, MADDEN & BAKEWELL.

DIRECTIONS

FOR

SETTING AND SHARPENING CIRCULAR SAWS.

BEFORE the saw is set, the side towards the log should be perfectly flat, and all the difference in thickness between the outer edge and the middle of the saw must be on the side next to the board, so that the log may pass without pressing against the body of the saw; therefore, the flange that is fast on the mandrel should be a little concave, and the loose flange perfectly flat. If the saw is not in the required shape when screwed up between the flanges, it may be adjusted by packing between the flanges and the saw with writing paper.

After the saw is made to run as true as possible sidewise, turn it backwards slowly against a file that is held firmly on an immovable bearing. This operation will trim off the longest teeth, and leave the points all equally distant from the center; then file off the top of the tooth until the facet made by the jointing-file is but just perceptible at the point, and the saw is prepared for setting.

To set the saw we use a crotch-punch of hardened steel, and a riveting hammer that weighs about a pound. The angle of the punch should be a trifle greater than that of

the point of the tooth, and a little convex lengthwise of the groove (see cut No. 6,) so as to spread the point of the tooth from the center both ways. Hold the punch against the point of the tooth parallel with the side of the saw, and with repeated moderate blows of the hammer upset the points of the tooth equally on both sides to the required breadth. To support and strengthen the cutting edge after the teeth are upset enough, we may with considerable advantage draw out the top of the tooth with the riveting-hammer, while a piece of iron fitted into the space below is held firmly with a perfect bearing under the hammer.

The teeth of circular saws for ripping should be pitched forward as much as they can be, and leave sufficient strength of tooth and space for saw-dust; and the number of teeth should be proportioned to the hardness of the timber to be sawed, say for a 48 inch saw 30 teeth for hard wood, and 24 for soft.

For a saw of 48 inches diameter and 30 teeth, the pitch* of the teeth may be determined as follows: describe a circle from the center of the saw equal to one-half of its diameter, and a line drawn from the point of the tooth across the saw, touching the outside of the circle, will give the pitch. (See plate No. 1.) For 24 teeth, the circle may be five-eighths of the diameter of the saw. (See plate No. 2.)

The back or top of the tooth for about an inch back from the point, should be on a line drawn from the point back to the next tooth, and as much below the point of that tooth as each tooth is required to cut. For instance,

* By the pitch of saw-teeth we mean the inclination of the face of the tooth up which the shaving ascends. The distance from point to point, we call the space.

if your feed is equal to $1\frac{1}{2}$ inches to one revolution of the saw, and the saw has 30 teeth, each tooth must cut one-twentieth of an inch. After the saw is set as directed, the teeth must be filed up sharp, finishing with a fine, single-cut file. The cutting edge of each tooth should be parallel with the center of the mandrel, and the front and back of the teeth kept on the lines as described, and shown in the cuts No. 1 and No. 2.



DIRECTIONS
FOR
SETTING AND SHARPENING
MILL SAWS.

Mill Saws with teeth such as are shown on plate 3, after being straightened on the edge, must be set and sharpened in the same manner as Circulars. The pitch of the teeth is 60 degrees.

Plate 4. Another form of tooth and plan of setting and sharpening not so good as No. 3, but a great deal better than the old plan, as shown in plate 5. In this case, after the saw is straightened on the edge, the teeth are filed sharp at the points like a cross-cut saw, alternately highest on the outside, and then upset with the punch.

Plate 5. This is the oldest, most in use, and, we think, the most objectionable plan for setting a circular or vertical

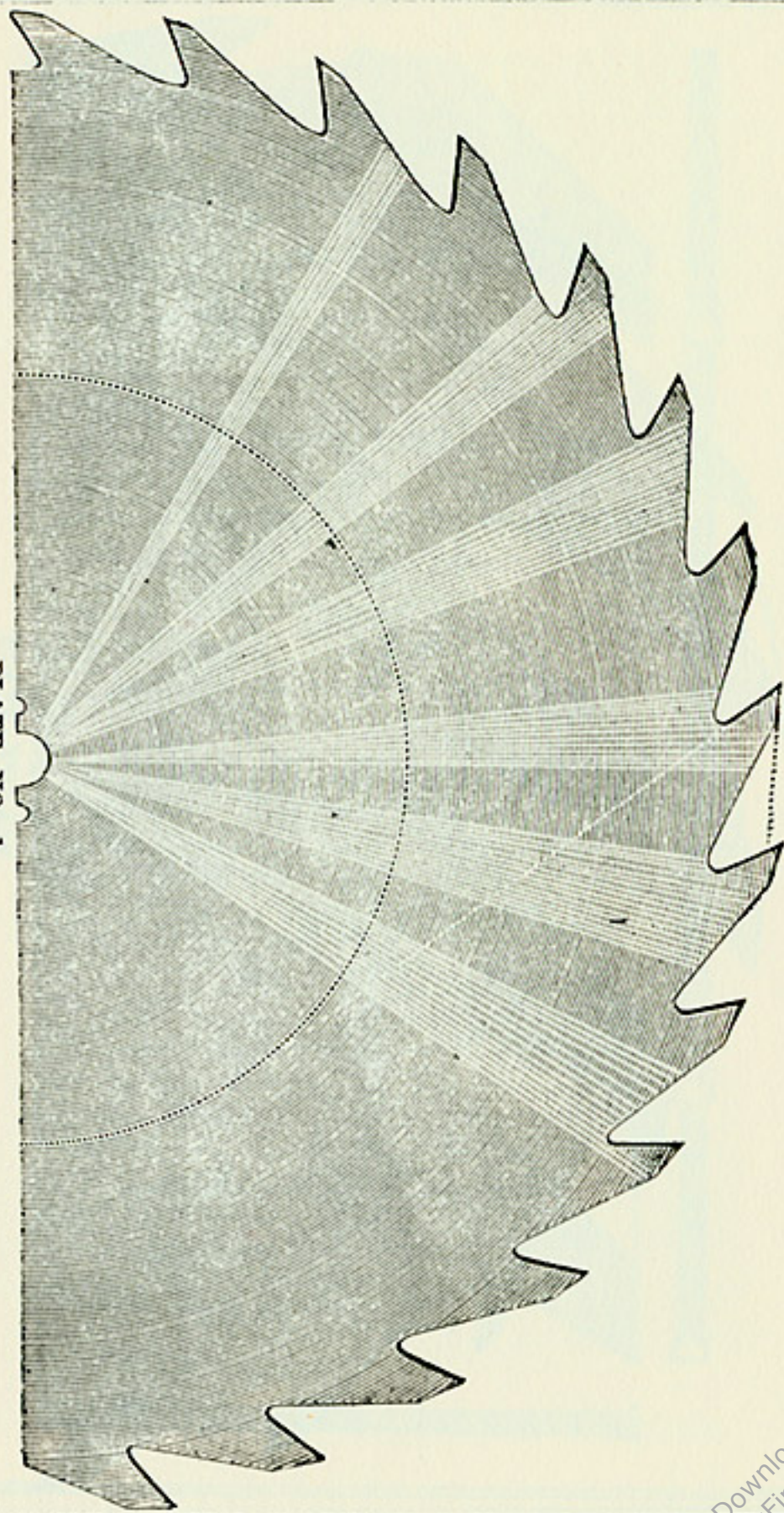
mill-saw, and is so well understood among sawyers as to require no description from us. In this case, after the tooth is worn off so as to be thinner at the point, it may be spread out to its original thickness with the crotch-punch.

Plate 6. Crotch-punch, for widening the points of saw teeth.

Plate 7. This tool is made in three pieces. The parts A and B are made of steel, nicely fitted and hardened, and are bound together with the iron band C. It is used to widen the points of saw teeth when they have become worn and blunted on the corners, and may be used without the necessity of filing the saw afterwards.

If these rules are strictly observed, the saw will always balance, and there will be no occasion for using a Gumming Machine.

PLATE NO. 1.



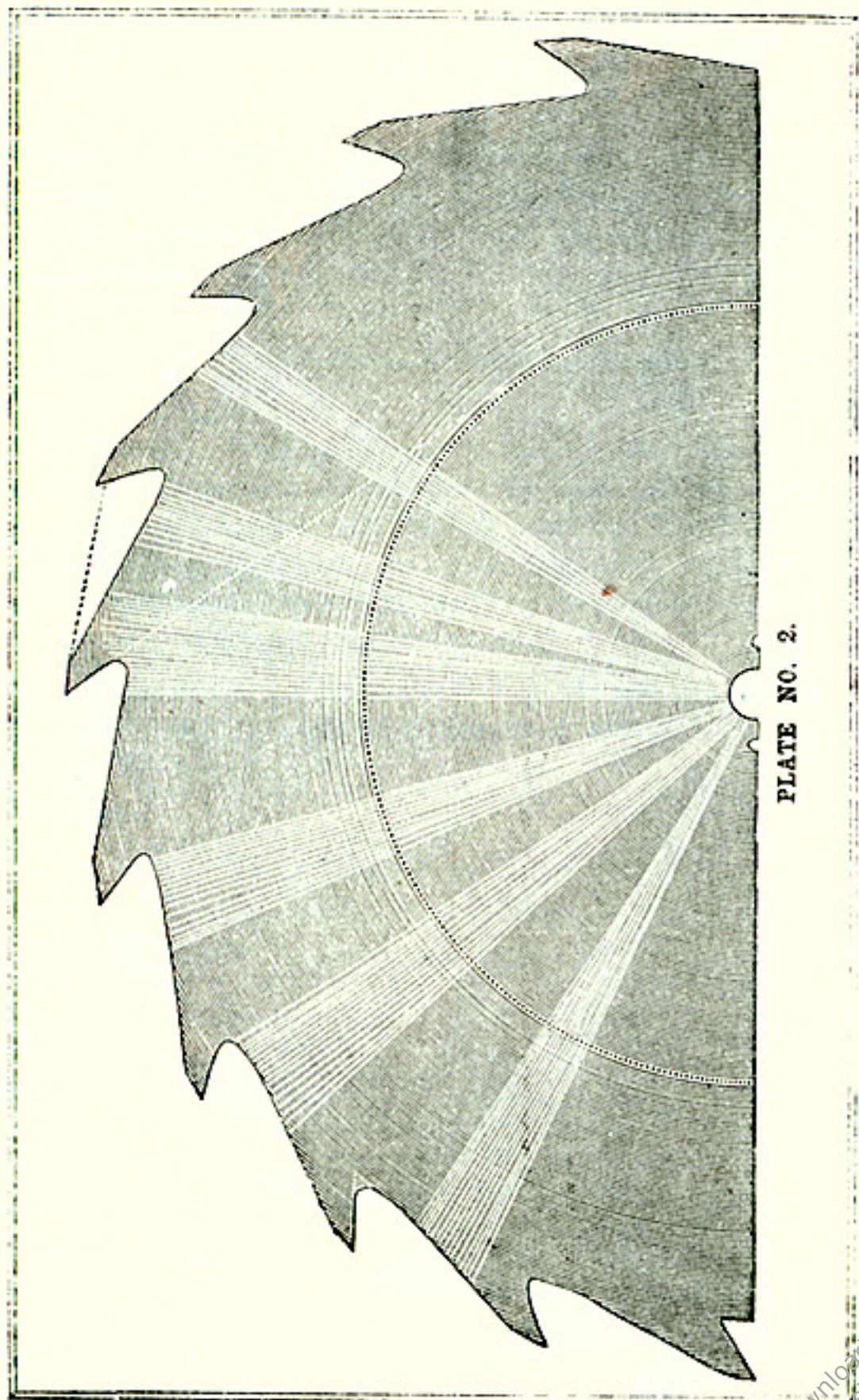
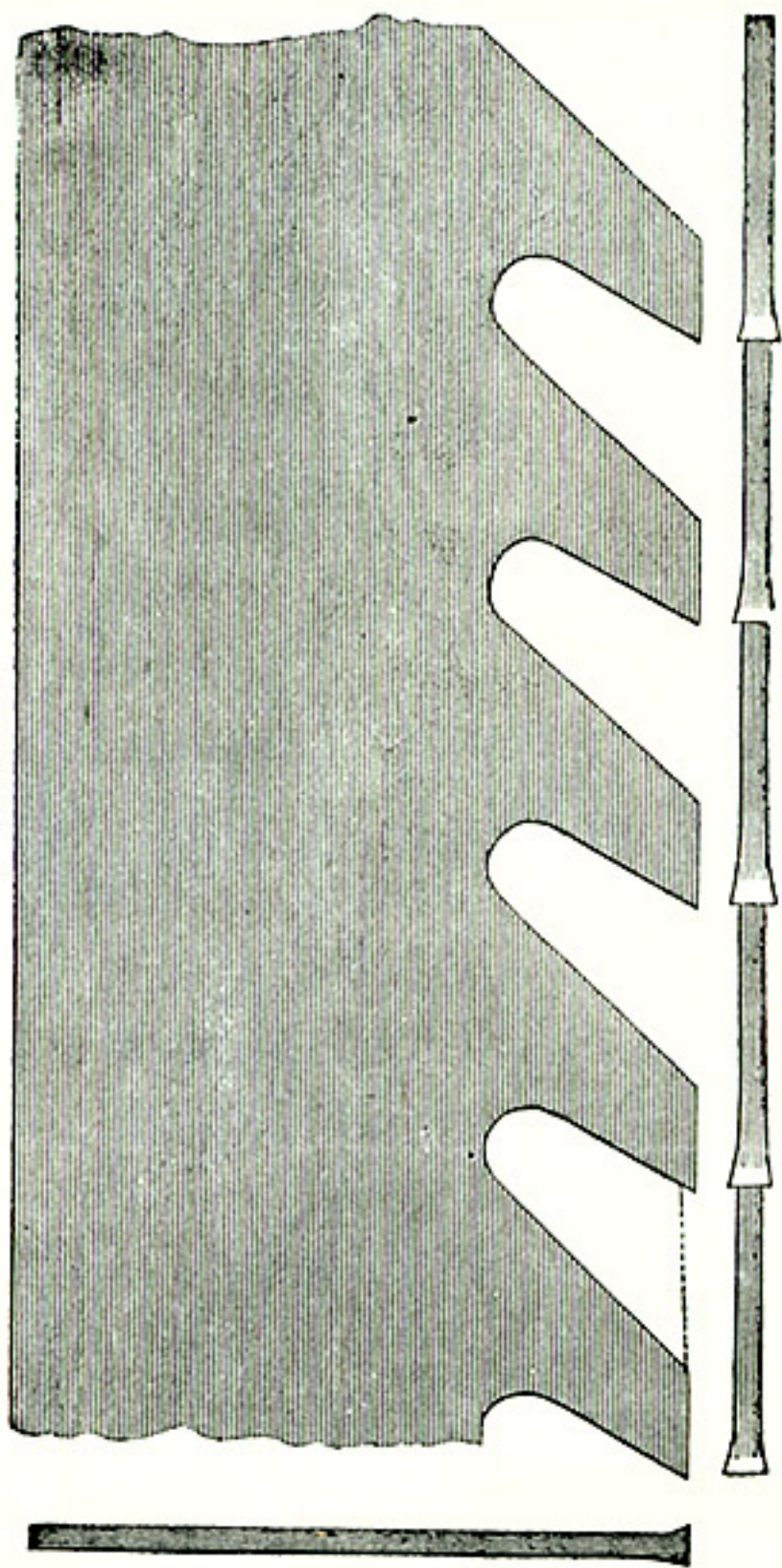


PLATE NO. 2.

PLATE NO. 3.



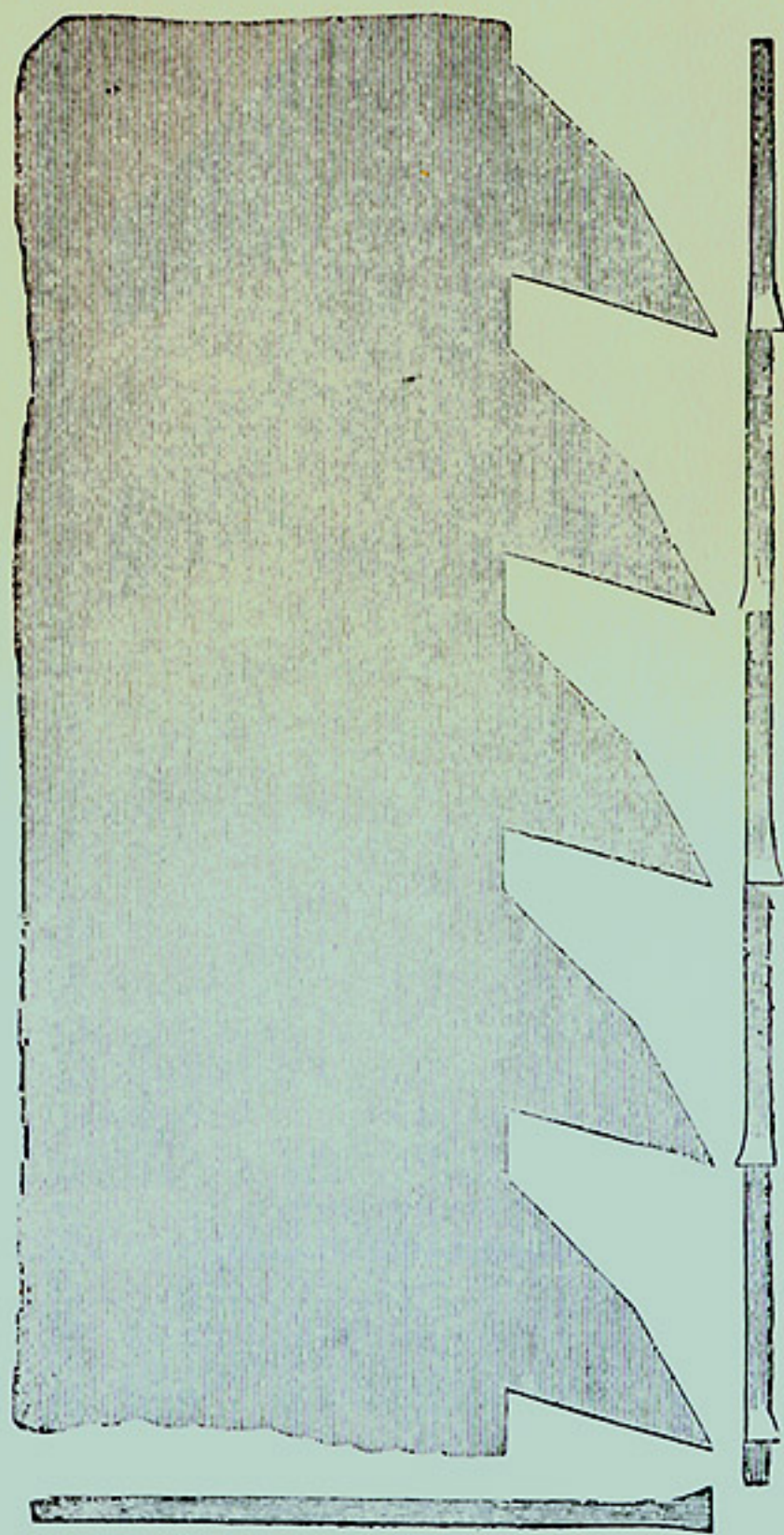
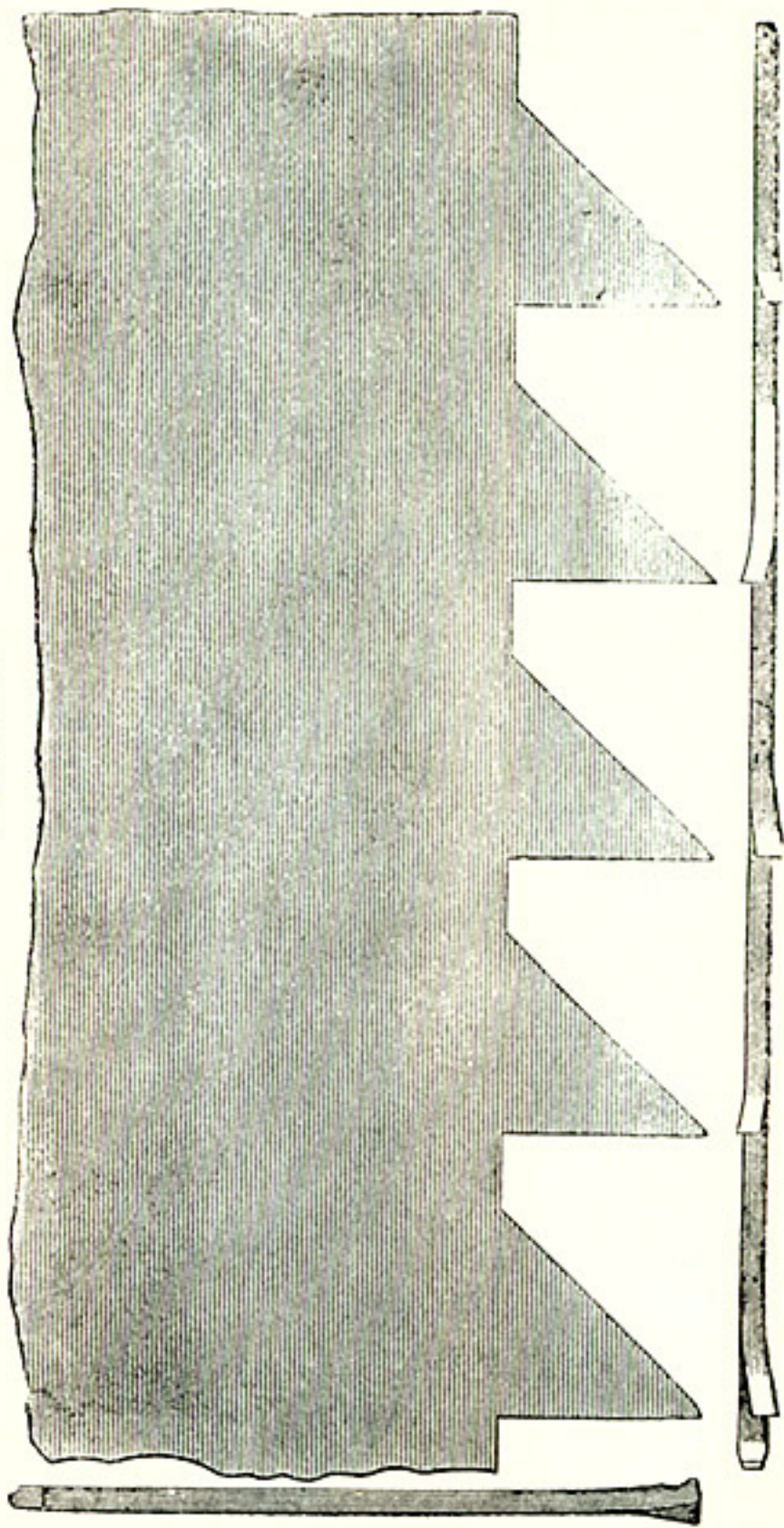


PLATE NO. 4

PLATE NO. 6.



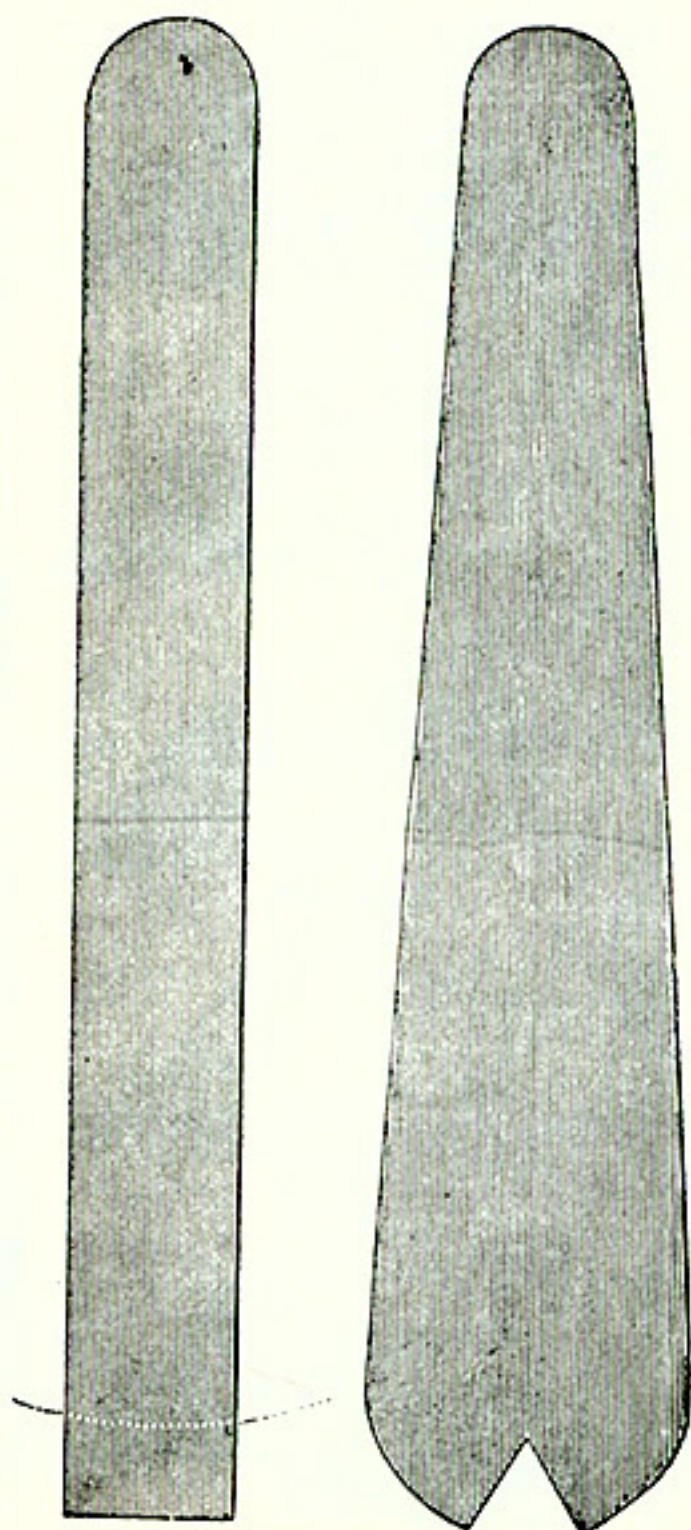
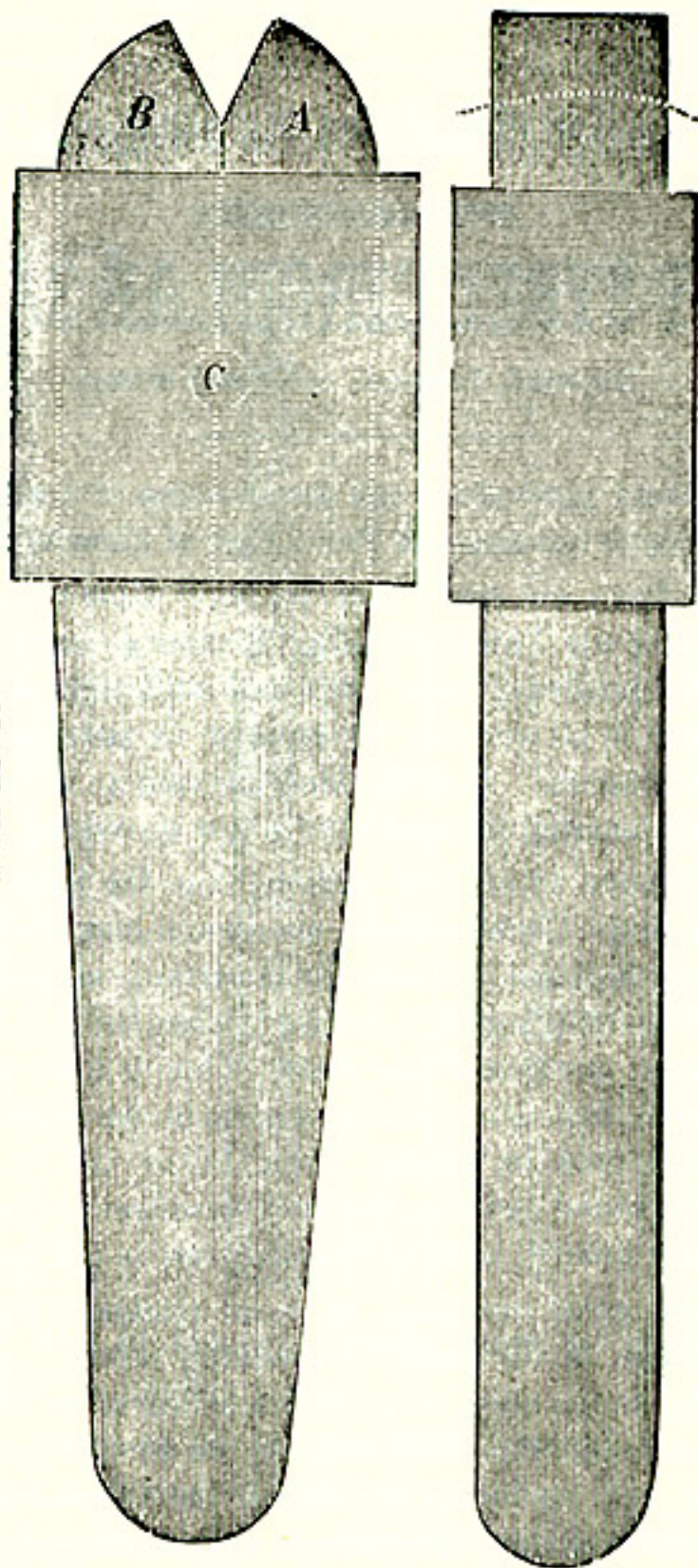


PLATE NO. 6.

PLATE NO. 7.



Wheeler, Madden & Bakewell's

WARRANTED

EAST STEEL CIRCULAR SAWS

Hardened, Tempered, and Patent Ground.

We would particularly call the attention of Lumbermen and others, to our annexed PRICE LIST of Circular Saws.

These Saws are made from the BEST CAST STEEL—are ground with our *Patent Grinding Machinery*—are perfectly balanced—possessing entire truth and uniformity of surface—and are in all respects far superior to saws ground in any other manner. Our Machinery is such as to render it impossible to grind the surface of a saw unevenly.

It is known to all Saw Makers, that the Steel Plates used for large Circular Saws, are almost invariably rolled of uneven thickness. Hence the importance of a Machine that will unerringly grind down the thicker, before it touches the thinner, portions of the plate. Ours is such, being so constructed, that after placing a plate in the Machine, all unevenness must be ground down, before the stone can affect the general surface of the saw; consequently the plate, after being ground, must be *absolutely even* in thickness.

We can grind our Saws of equal thickness from the cutting edge to the center, or gradually reduce them from the center to the edge, to any thickness desired on the tooth.

We have had this Machinery in use for two years, and can now with confidence recommend our Circular Saws to all who desire a superior article at a reasonable price.

PRICE LIST.

CIRCULAR SAWS.

Diameter.	Thickness.			
4 inch,	19 Gauge,	\$0 75 each.	4 cts. (net) extra ea.	add'l Gauge.
5 "	19 "	1 00 "	5 "	" "
6 "	18 "	1 17 "	6 "	" "
7 "	18 "	1 33 "	7 "	" "
8 "	18 "	1 58 "	8 "	" "
9 "	17 "	1 83 "	10 "	" "
10 "	16 "	2 17 "	12 "	" "
12 "	16 "	2 67 "	15 "	" "
14 "	15 "	3 33 "	18 "	" "
16 "	15 "	4 00 "	22 "	" "
18 "	14 "	5 00 "	27 "	" "
20 "	13 "	6 00 "	32 "	" "
22 "	12 "	7 00 "	38 "	" "
24 "	12 "	8 00 "	43 "	" "
26 "	12 "	9 33 "	55 "	" "
28 "	11 "	11 00 "	60 "	" "
30 "	11 "	12 67 "	70 "	" "
32 "	10 "	14 67 "	85 "	" "
34 "	10 "	17 33 "	\$1 60 "	" "
36 "	10 "	20 00 "	1 15 "	" "
38 "	9 "	25 00 "	1 35 "	" "
40 "	9 "	30 00 "	1 85 "	" "
42 "	9 "	36 00 "	2 00 "	" "
44 "	7 to 8 "	43 00 "	2 40 "	" "
46 "	6 to 7 "	50 00 "	2 85 "	" "
48 "	6 to 7 "	60 00 "	3 35 "	" "
50 "	6 to 7 "	70 00 "	3 95 "	" "
52 "	6 to 7 "	84 00 "	4 75 "	" "
54 "	5 to 6 "	100 00 "	5 75 "	" "
56 "	5 to 6 "	125 00 "	7 00 "	" "
58 "	5 to 6 "	150 00 "	8 50 "	" "
60 "	5 "	175 00 "	10 00 "	" "
62 "	5 "	200 00 "	11 50 "	" "
64 "	5 "	230 00 "	13 00 "	" "
66 "	5 "	255 00 "	14 50 "	" "
68 "	5 "	285 00 "	16 00 "	" "
70 "	5 "	310 00 "	17 50 "	" "
72 "	5 "	335 00 "	19 00 "	" "

For sizes of holes in Circular Saws, see dimensions of Mandrels on another page.

The thickness by Stubb's Wire Gauge is the standard referred to above for Circular Saws.

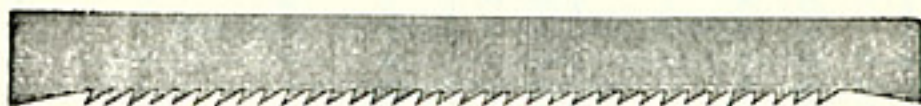
We vary the thickness somewhat without extra charge.

Cast Steel Circular Saws--No. 2.

List Price same as No. 1.

Warranted Cast Steel Mill Saws--No 1.

EXTRA TEMPERED--PATENT GROUND.



Length	5	5½	6	6½	7	7½	8	8½	feet.
Price, 8th gauge,	\$5 00	5 50	6 00	6 50	7 00	7 50	8 00	8 50	each.
" 7th "	5 50	6 05	6 60	7 15	7 70	8 25	8 80	9 35	"
" 6th "	6 00	6 60	7 20	7 80	8 40	9 00	9 60	10 20	"
" 5th "	6 50	7 15	7 80	8 45	9 10	9 75	10 40	11 05	"

Gang Saws, 10th, 11th, and 12th gauge, 95 cents per foot.
If set and sharpened, 12½ cents per foot extra.

Warranted Cast Steel Mulay Mill Saws--No. 1.

EXTRA TEMPERED--PATENT GROUND.



Length,	6	6½	7	7½	8	feet.
12 inches wide, 7th gauge,	\$10 50	11 38	12 25	13 13	14 00	each.
" 6th "	11 25	12 19	13 13	14 07	15 00	"
" 5th "	12 00	13 00	14 00	15 00	16 00	"
" 4th "	12 75	13 81	14 88	15 94	17 00	"
11 inches wide, 7th gauge,	9 90	10 73	11 55	12 38	13 20	"
" 6th "	10 50	11 38	12 25	13 13	14 00	"
" 5th "	11 15	12 05	13 00	13 95	14 85	"
10 inches wide, 7th gauge,	9 30	10 08	10 85	11 63	12 40	"
" 6th "	9 90	10 73	11 55	12 38	13 20	"
" 5th "	10 39	11 15	12 00	12 85	13 75	"

Mulay Mill Saws, 14 inches wide, 5th gauge, \$2 40 per foot.
If set and sharpened, 12½ cents per foot extra.

The thickness by Stubb's Wire Gauge is the standard referred to
above for Mill and Mulay Saws.

Cast Steel Mill and Mulay Saws--No. 2.

List Price same as No. 1.

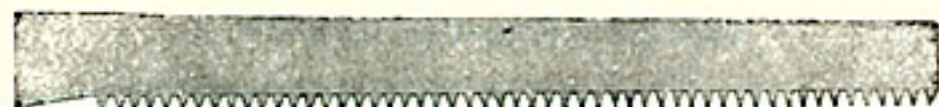
Price of Crotched Punch or Upset, No. 6, \$1 25 each; No. 7, \$2 each. (For description, see pages 8 and 10.)

Warranted Cast Steel Butting or Drag Saws.

CUT OF MILL SAW SIZE.



CUT OF TAPER DRAG SAW.



Length,	5	5½	6	6½	7	feet.
Price—Mill Saw Size,	\$5 00	5 50	6 00	6 50	7 00	each
“ Tapered,	4 33	4 80	5 25	5 70	6 13	“

Tapered Saws, 7 inches wide butt; 5 inches wide point.

In ordering Drag Saws, state whether Mill Saw or Cross-cut Teeth are wanted.

Cross-cut and Mill Saw Teeth are represented in cuts above.

Any other size made to order.

Warranted Cross-Cut Saws--No. 1.

WHEELER, MADDEN & BAKWELL. Cast Steel warranted—extra tempered, filed and set, (unless otherwise ordered.) This saw is A No. 1, and fully equal to any in the market.

4 feet,	\$2 76	7 feet,	\$4 83
4½ “	3 10	7½ “	5 55
5 “	3 45	8 “	6 40
5½ “	3 80	8½ “	7 40
6 “	4 14	9 “	8 55
6½ “	4 50		

Cast Steel Cross-Cut Saws--No. 2.



W. B. SEARS & Co. Cast Steel, warranted. This is a good, fair saw, superior to the English and many of American manufacture.

4 feet,	- - - -	\$2 12	each	7 feet,	- - - -	\$3 71	each
4½ "	- - - -	2 39	"	7½ "	- - - -	4 35	"
5 "	- - - -	2 65	"	8 "	- - - -	5 12	"
5½ "	- - - -	2 92	"	8½ "	- - - -	5 95	"
6 "	- - - -	3 18	"	9 "	- - - -	6 93	"
6½ "	- - - -	3 45	"				

Cast Steel Cross-Cut Saws--No. 3.



H. MILLSON & Co. This is a fair common saw.

4 feet,	- - - -	\$1 80	7 feet,	- - - -	\$3 15
4½ "	- - - -	2 02	7½ "	- - - -	3 60
5 "	- - - -	2 25	8 "	- - - -	4 24
5½ "	- - - -	2 48	8½ "	- - - -	4 93
6 "	- - - -	2 70	9 "	- - - -	5 67
6½ "	- - - -	2 93			

Hook Tooth Cross-Cut Saws.

TUTTLE'S PATENT, 87 cents per foot, filed and set.

WHEELER, MADDEN & BAKWELL'S Hook Tooth Cross-Cut Saw, same price of No. 1 Common Tooth Cross-Cut.

Warranted Extra Tempered Pit Saws.

Length,	6	6½	7	7½	8	feet.
Price,	\$5 50	6 00	6 75	8 00	9 50	each.

Extra Cast Steel Felice Webs.

BEVELED BACKS—FILED AND SET.

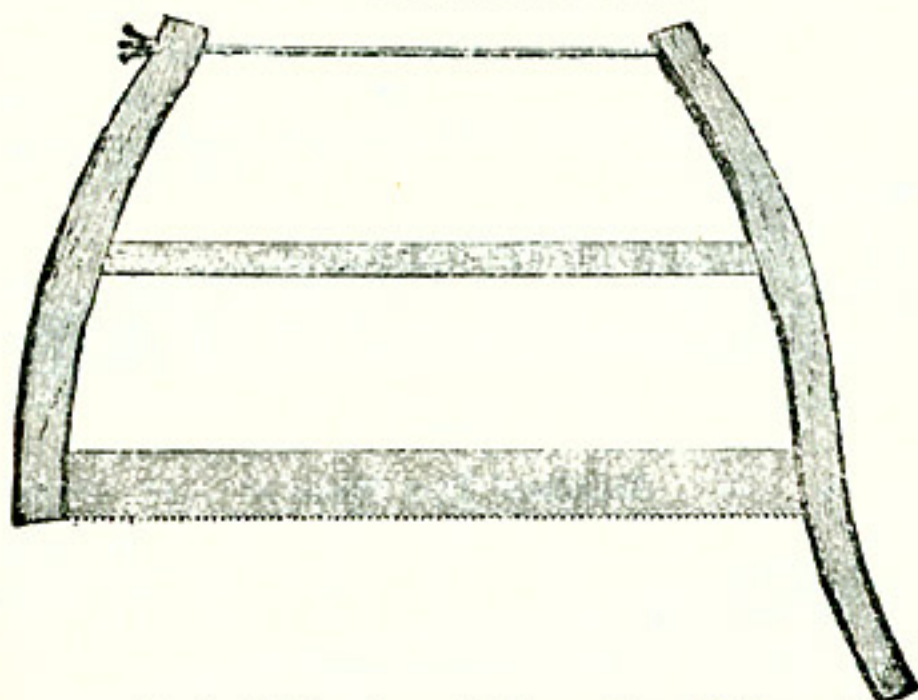


Length,	16	18	20	22	24	25	inches.
Price,	\$4 80	5 40	6 00	6 60	7 20	7 80	per doz.
Length,		28	30	32	34	36	inches.
Price,		\$5 40	9 00	9 60	10 20	10 80	per doz.

We make the above Webs from $\frac{3}{4}$ to $1\frac{1}{4}$ inches wide, and from 13 to and including 17 gauge in thickness, (on the tooth,) by Stubb's Wire Gauge.

Billet Webs, or Wood Saws.

WITH FRAMES COMPLETE—READY FOR USE.

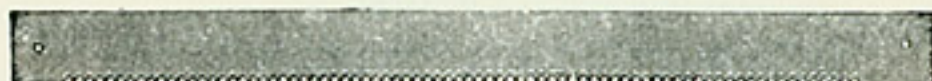


No. 1,	30 inches long,	with frame,	Price,	\$12 20	per doz.
" 2,	30	" "	"	11 00	"
" 3,	30	" "	"	9 50	"
" 4,	30	" "	"	8 50	"

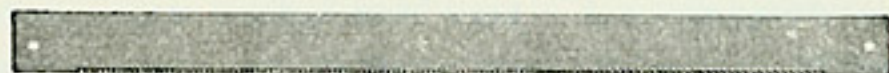
The above are in packages of one dozen.

If put up in packages of one-half dozen, twenty-five cents per dozen extra.

Warranted Cast Steel Billet or Wood Cutters' Webs.



BOSTON TOOTH.



COMMON TOOTH.

WHEELER, MADDEN & BAKEWELL.

Length,	28	30	32	34	inches.
No. 1, Plain, (Spring Steel,)	\$7 25	7 75	8 25	8 75	per doz.
" 1, Set and Sharpened, "	8 25	8 75	9 25	9 75	"
" 2, Plain. (Cast Steel,)	6 20	6 67	7 10	7 60	"
" 2, Set and Sharpened, "	7 10	7 57	8 00	8 50	"

W. B. SEARS & Co. Cast Steel, warranted.

Length,	28	30	32	34	inches.
No. 3, Plain,	\$4 90	5 25	5 60	6 00	per doz.
" 3, Set and Sharpened,	5 65	6 00	6 35	6 75	"

VERNON & Co. Cast Steel.

Length,	28	30	32	34	inches.
No. 4, Plain,	\$4 25	4 50	4 80	5 20	per doz.
" 4, Set and Sharpened,	4 85	5 10	5 40	5 80	"

Butchers' Bow Webs.

Length,	14	16	18	20	22	24	inches.
Price, (Wide,)	\$5 00	5 35	6 10	6 80	7 50	8 20	per doz.
" (Narrow,)	4 65	5 00	5 35	6 10	6 80	7 50	"


Cast Steel Iron Webs or Hack Saws.



Length,	6	8	10	12	14	16	inches.
Price,	\$2 50	3 00	4 00	4 75	5 75	6 60	per doz.

Cast Steel Turning or Chair Webs.

BEVELED BACKS—FILED AND SET.




Length,	12	14	16	18	20	22	24	26	28	30	inches.
Price,	\$2 32	2 80	3 20	3 65	4 15	4 70	5 30	6 00	6 80	7 75	pr. doz.

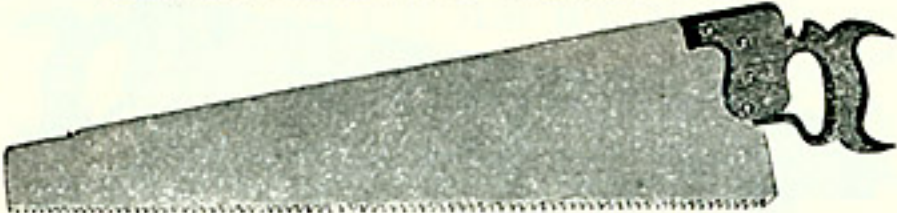
We make the above from $\frac{1}{4}$ to $\frac{3}{4}$ inch wide, and from 18 to 22 gauge in thickness, by Stubb's Wire Gauge. (The usual thickness is about 19 gauge.)

Cast Steel Key Hole or Fret Saw Blades.

BEVELED BACKS.

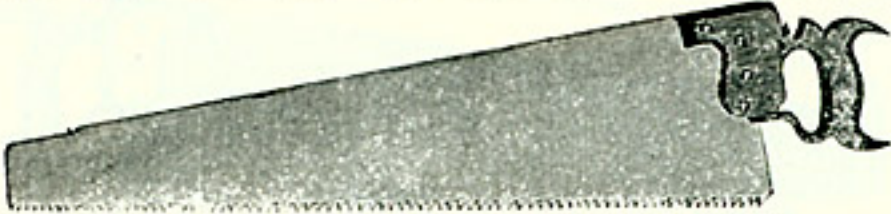


Assorted, 6 to 12 inches, set and sharpened, \$2 30 per dozen.
 " 6 to 12 " plain, 1 80 "

HAND, PANEL AND RIPPING SAWS.


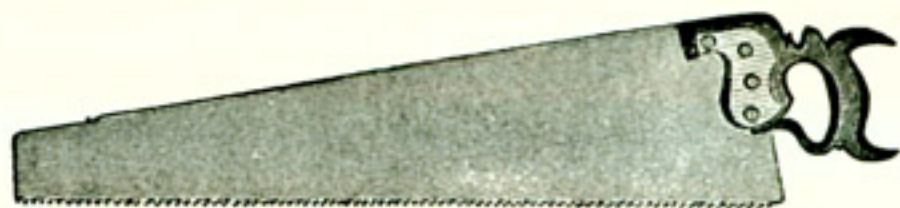
No. 1. (VERNON & Co.) Cast Steel—beech handle, polished edges
—four iron Screws. We make of this saw sizes from 14 to 28 inch.

Length,	14	16	18	20	22	24	26	28	inches.
Price,	\$6 85	7 25	7 63	8 00	8 40	8 75	9 15	11 10	per doz.



No. 3. (VERNON & Co.) Cast Steel—walnut handle, polished edges
—four iron screws.

Length,	26	28	inches.
Price,	\$9 65	11 60	per doz.



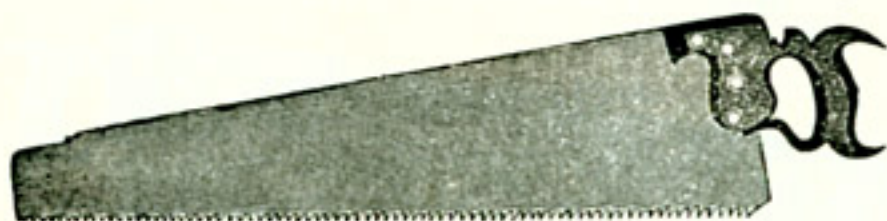
No. 5. (VERNON & Co.) Cast Steel—beech handle, polished edges
—four iron screws, steel plate.

Length,	26	28	inches.
Price,.....	\$10 70	12 70	per doz.



No. 7. (VERNON & Co.) Cast Steel—walnut handle, polished edges
—four iron screws, steel plate.

Length,	26	28	inches.
Price,.....	\$11 05	13 00	per doz.



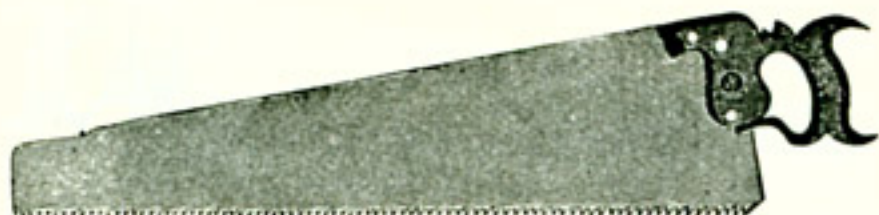
No. 8. (VERNON & Co.) Cast Steel—beech handle, polished edges
—four brass rivets.

Length,	26	28	inches.
Price,.....	\$10 70	12 70	per doz.



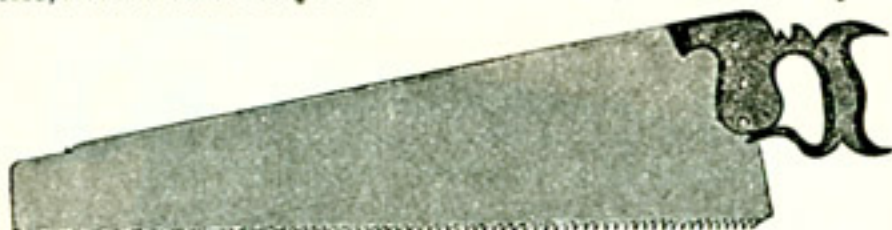
No. 10. (VERNON & Co.) Cast Steel—walnut handle, polished edges
—four raised brass screws, steel plate.

Length,	26	28	inches.
Price,.....	\$13 70	16 70	per doz.



No. 11. (H. MILLSON & Co.) Cast Steel—beech handle, polished edges—four brass screws, one embossed.

Length,	26	28	inches.
Price,.....	\$12 60	14 60	per doz.



No. 13. (H. MILLSON & Co.) Cast Steel—walnut handle, polished edges—four raised iron screws, silver plated heads. We make of this saw sizes from 14 to 28 inch.

Length,	14	16	18	20	22	24	26	28	inches.
Price,	\$7 90	8 50	9 60	10 40	11 40	12 25	13 00	15 00	per doz.



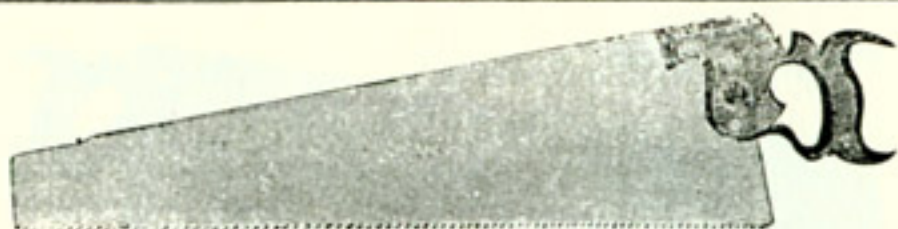
No. 15. (H. MILLSON & Co.) Cast Steel—beech handle, polished edges—four brass raised screws, steel plate.

Length,	26	28	inches.
Price,.....	\$15 00	17 00	per doz.



No. 17. (H. MILLSON & Co.) Cast Steel—walnut handle, polished edges—four raised brass screws, steel plate.

Length,	26	28	inches.
Price,.....	\$15 50	17 50	per doz.



No. 18. (W. B. SEARS & Co.) Spring Steel, warranted. Beech handle—polished edges—four brass screws, one embossed. We make of this saw sizes from 14 to 30 inch.

Length,	14	16	18	20	22	24	26	28	30	inches.
Price,	\$8 80	9 90	11 20	12 55	14 10	15 78	17 45	19 45	22 00	pr. doz.



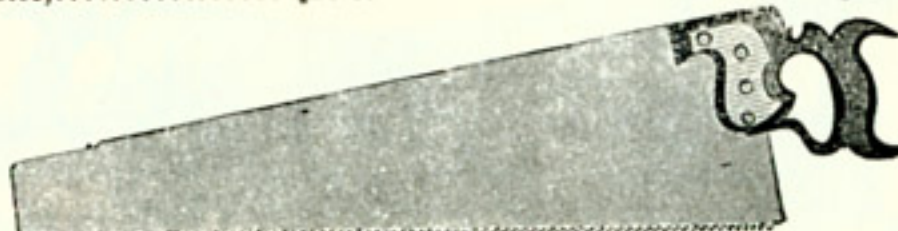
No. 20. (W. B. SEARS & Co.) Spring Steel, warranted. Walnut handle—polished edges—four brass screws, one embossed. We make of this saw sizes from 14 to 28 inch.

Length,	14	16	18	20	22	24	26	28	inches.
Price,	\$9 05	10 20	11 55	12 95	14 55	16 28	18 00	20 05	per doz.



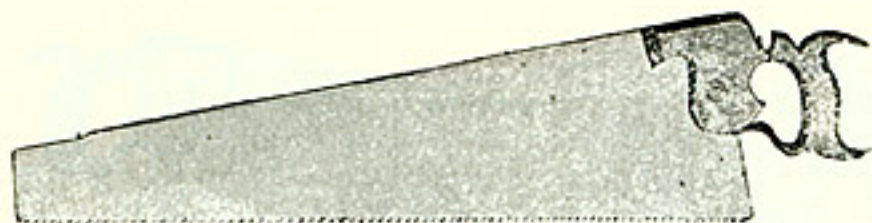
No. 21: (W. B. SEARS & Co.) Spring Steel, warranted. Polished beech handle—four raised brass screws, steel plate.

Length,	26	28	inches.
Price,	\$20 00	22 00	per doz.



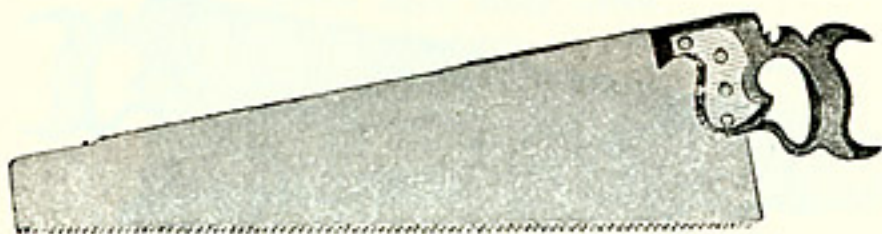
No. 23. (W. B. SEARS & Co.) Spring Steel, warranted. Polished walnut handles—four raised brass screws, steel plate.

Length,	26	28	inches.
Price,	\$20 50	22 50	per doz.



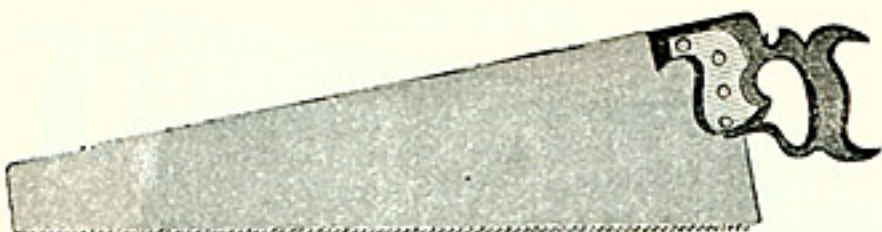
No. 25. (WHEELER, MADDEN & BAKEWELL.) Spring Steel, warranted. Beech handle, polished edges—four brass screws, one embossed. This is a standard Saw, has had an extensive sale, and is fully equal to Spear & Jackson's. We make of this Saw sizes from 14 to 30 inch.

Length,	14	16	18	20	22	24	26	28	30	inches.
Price,	\$10 25	11 40	12 65	13 95	17 53	19 21	20 50	22 75	25 00	pr. doz.



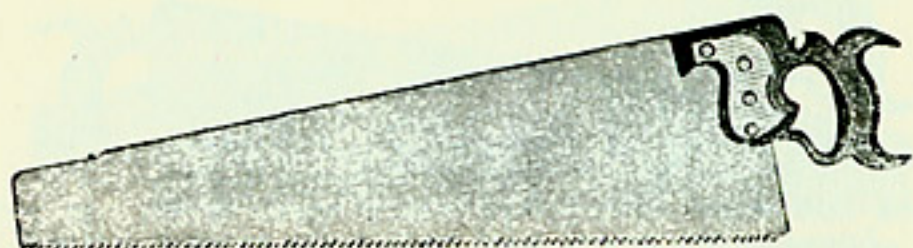
No. 27. (WHEELER, MADDEN & BAKEWELL.) Spring Steel, warranted. Polished beech handle—four raised brass screws, steel plate. 26 to 30 inches.

Length,	26	28	30	inches.
Price,	\$24 00	26 00	28 00	per doz.



No. 29. (WHEELER, MADDEN & BAKEWELL.) Spring Steel, warranted. Polished mahogany handle—four raised brass screws, steel plate. 26 to 30 inches.

Length,	26	28	30	inches.
Price,	\$25 50	28 00	30 50	per doz.



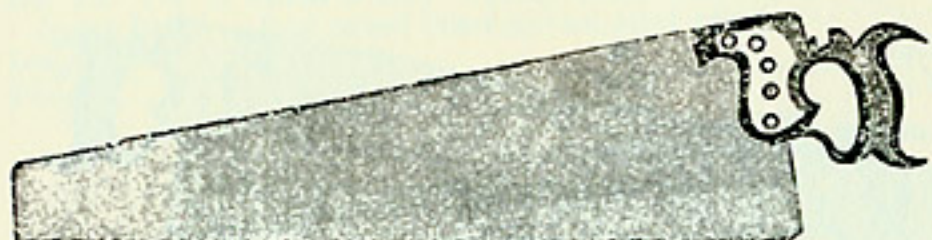
No. 31. (WHEELER, MADDEN & BAKEWELL.) Spring Steel, warranted. Polished mahogany handle—four raised brass screws, steel plate, fine polished blade. 26 to 30 inch.

Length,	26	28	30	inches.
Price,.....	\$28 00	30 50	33 00	per doz.



No. 33. (WHEELER, MADDEN & BAKEWELL.) Double refined Spring Steel, warranted. Polished beech handle—four brass screws, one embossed. The best saw in the market. 26 to 30 inch.

Length,	26	28	30	inches.
Price,.....	\$23 50	25 50	28 00	per doz.



No. 35 (WHEELER, MADDEN & BAKEWELL.) Double Refined Spring Steel, warranted. Polished beech handle—five raised brass screws, steel plate. 26 to 30 inch.

Length,	26	28	30	inches.
Price,.....	\$26 50	28 50	30 50	per doz.

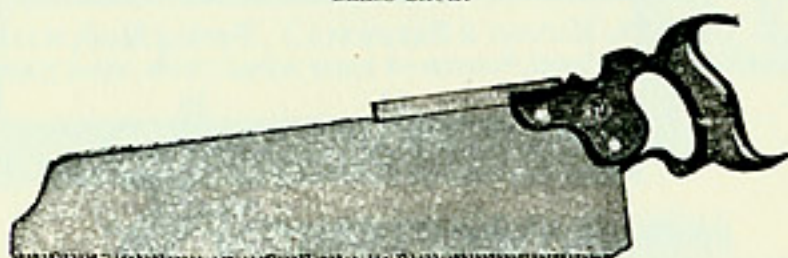


No. 37. (WHEELER, MADDEN & BAKEWELL.) Double refined Spring Steel, warranted. Fine polished blade—polished rosewood handle—five raised brass screws, steel plate. 26 to 30 inch.

Length,	26	28	30	inches.
Price,.....	\$36 00	39 00	42 00	per doz.

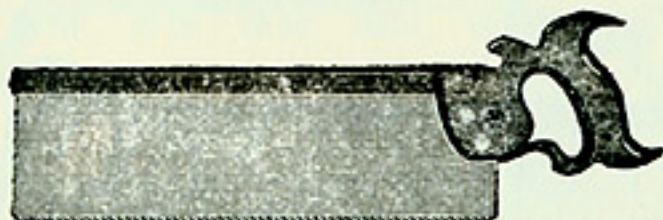
Gents' Half Back Saws.

BRASS BACK.



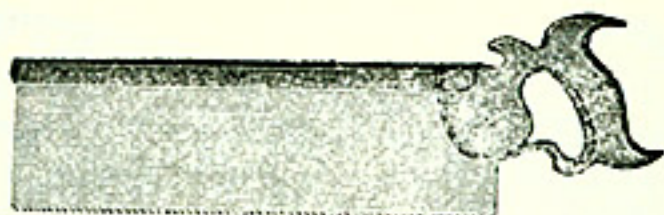
Length,	16	18	20	inches.
Price, (Spring Steel,)	\$16 80	19 20	21 60	per doz.

BACK SAWS.



No. 1. (WHEELER, MADDEN & BAKEWELL.) Spring Steel, warranted. Brass back, beech handle, polished edges—three brass rivets, one embossed.

Length,	8	10	12	14	16	18	inches.
Price,	\$16 75	19 20	21 60	24 63	28 80	31 20	per doz.



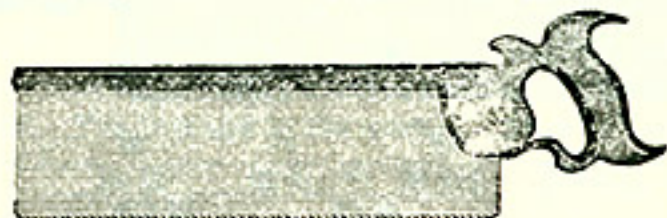
No. 2. (WHEELER, MADDEN & BAKWELL.) Spring Steel, warranted. Blue back, beech handle, polished edges—three brass rivets, one embossed.

Length,	8	10	12	14	16	18	inches.
Price,	\$12 95	14 85	17 15	19 65	21 35	24 00	per doz.



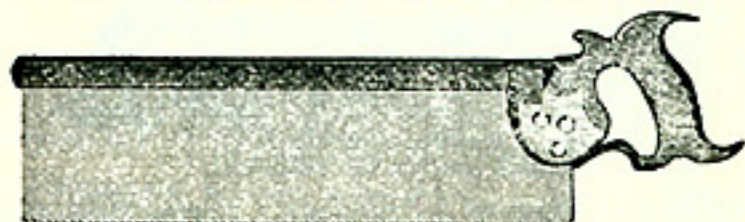
No. 3. (WHEELER, MADDEN & BAKWELL.) Spring Steel, warranted. Blue back, polished beech handle—3 brass raised rivets, steel plate.

Length,	12	14	16	inches.
Price,.....	\$18 40	20 30	22 60	per doz.



No. 4. (W. B. SEARS & Co.) Spring Steel, warranted. Blue back, beech handle, polished edges—three brass rivets, one embossed.

Length,	8	10	12	14	16	18	inches.
Price,	\$10 70	12 20	14 50	16 00	17 90	19 80	per doz.



No. 5. (W. B. SEARS & Co.) Spring Steel, warranted. Blue back, polished beech handle, three raised brass rivets, steel plate.

Length,	12	14	16	inches
Price,.....	\$15 70	17 20	19 10	per doz.

Compass or Lock Saws.

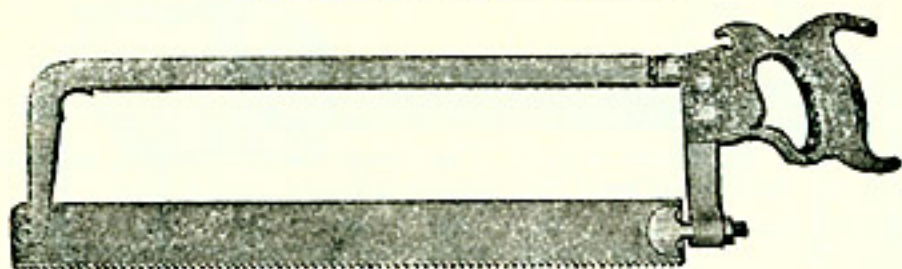
BEVELED BACKS.



No. 25. WHEELER, MADDEN & BAKEWELL.

Length,	8	10	12	14	16	18 in., set and sharpened.
Price, (cast steel,)	\$3 60	4 20	4 80	5 10	5 40	6 00 per doz.

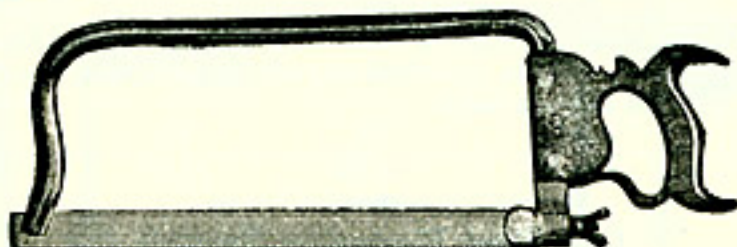
BUTCHERS' BOW SAWS.



WARRANTED EXTRA CAST STEEL, (SET AND SHARPENED.)

No. 1. (WHEELER, MADDEN & BAKEWELL.) Best flat back, beech handle, polished edges—three brass screws, one embossed.

Length of blade,	14	16	18	20	22	24	inches.
Price,	\$20 00	21 00	22 00	23 00	24 00	25 00	per doz.



WARRANTED EXTRA CAST STEEL, (SET AND SHARPENED.)

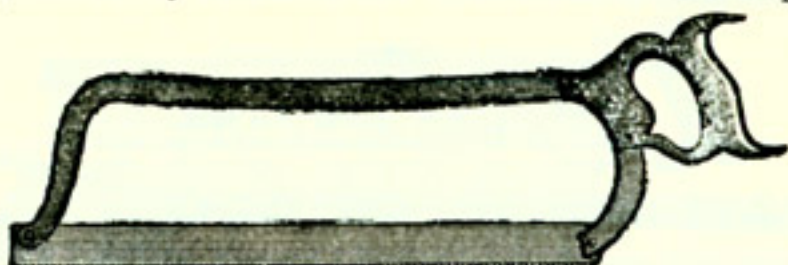
No. 2. (WHEELER, MADDEN & BAKEWELL.) Best oval back, beech handle, polished edges—three brass screws, one embossed.

Length of blade,	16	18	20	22	24	inches.
Price,.....	\$17 40	18 60	19 80	21 00	22 20	per doz.



No. 3. (W. B. SEARS & Co.) Flat back, beech handles, polished edges—three oval head iron screws.

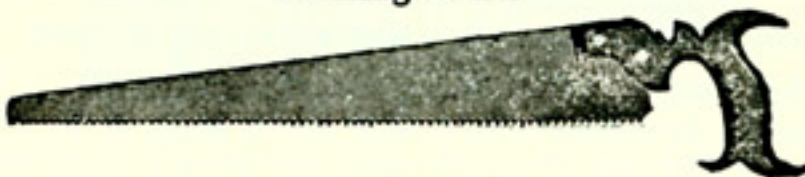
Length of blade,	14	16	18	20	22	24	inches.
Price,.....	\$12 00	12 90	13 80	14 70	15 60	16 80	per doz.



No. 5. (W. B. SEARS & Co.) Flat back, beech handles, polished edges—three oval head iron screws, silver plated heads.

Length of blade,	14	16	18	20	22	24	inches.
Price,.....	\$12 70	13 60	14 50	15 40	16 30	17 50	per doz.

Pruning Saws.



No. 25. (WHEELER, MADDEN & BAKEWELL.) Best Spring Steel, warranted. Beech handle, polished edges—two brass screws—heavy blade, ground thin on back.

Length,	16	18	20	inches.
Price,.....	\$10 00	10 75	11 50	per doz.

Cast Steel Plastering Trowels.



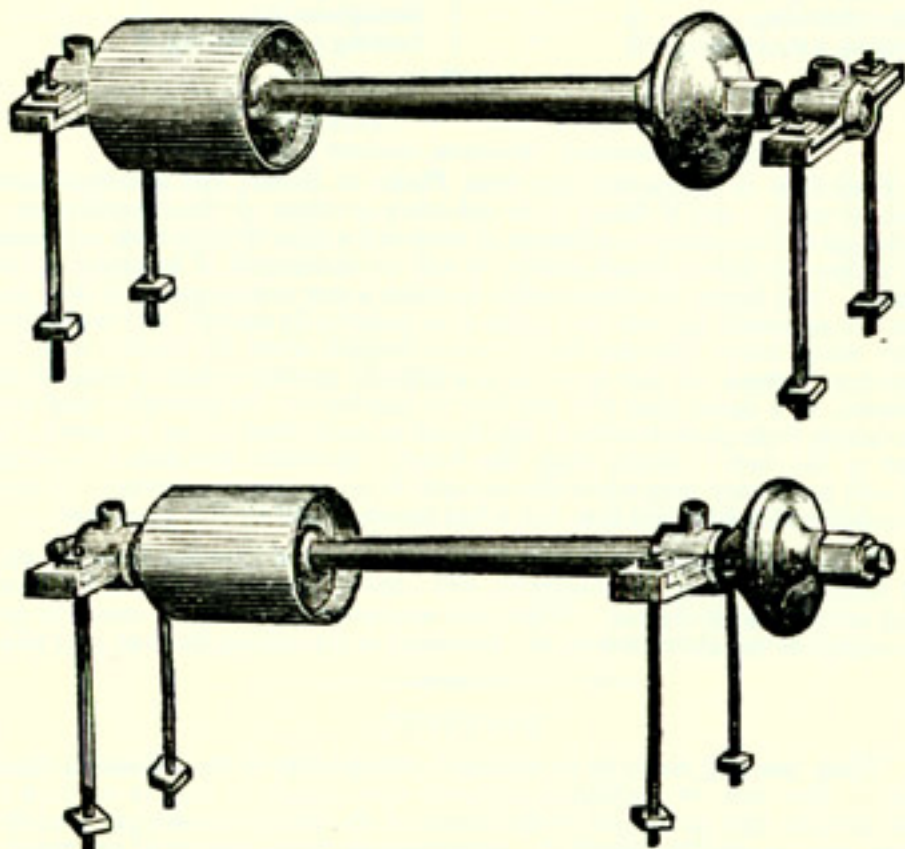
Length,	10	10½	11	11½	12	inches.
Price,	\$9 50	10 00	10 50	11 50	12 50	per doz.

Circular Saw Mandrels.

WITH PULLEYS, RABBIT METAL BOXES, AND BOLTS COMPLETE.

No.	Size of Hole in Saw,	Size of Saw.	Length of Mandrel.	
No. 1,	$\frac{1}{2}$ inch,	4 to 5 inch,	16 inch,	\$ 6 50
" 2,	" "	6 "	17 "	7 50
" 3,	" "	7 to 9 "	18 "	9 00
" 4,	1 "	10 to 12 "	20 "	10 33
" 5,	1 $\frac{1}{2}$ "	14 "	22 "	11 00
" 6,	1 $\frac{3}{4}$ "	16 to 18 "	24 "	11 40
" 7,	1 $\frac{1}{2}$ "	20 to 22 "	26 "	11 70
" 8,	1 $\frac{3}{4}$ "	24 "	28 "	13 35
" 9,	1 $\frac{1}{2}$ "	26 to 30 "	32 "	14 00
" 10,	1 $\frac{3}{4}$ "	32 to 36 "	36 "	16 00

Larger sizes made to order. In ordering Mandrels please state the exact size of hole in saw.



This pattern is arranged for the flanch to run outside the boxes, as the saw can then be removed without shifting the mandrel from its bearings.

Repairing Circular Saws.

RETOOTHING AND HAMMERING—PER INCH IN DIAMETER.

All sizes up to 20 inches,	\$0 06	Over 54 to 60 inches,	\$0 24
Over 20 to 40	“ 0 07	“ 60 to 64 “	0 28
“ 40 to 44	“ 0 12	“ 64 to 68 “	0 30
“ 44 to 48	“ 0 20	“ 68 to 72 “	0 36
“ 48 to 54	“ 0 22		

Circular Saws.

SETTING AND SHARPENING—PER INCH IN DIAMETER.

All sizes up to 20 inches,	\$0 04	All sizes up to 48 inches,	\$0 07
“ 30 “	0 05	“ 54 “	0 08
“ 40 “	0 06	“ 60 “	0 09
All sizes up to 72 inches, 11 cents.			

Mill Saws.

Rettooting Mill Saws, 6 cts. per foot.	
Straightening, 6 “	
Setting & sharpening, 12 “	

Pit and Cross-Cut Saws.

Rettooting,	8 cts. per foot
Straightening,	8 “
Setting & sharpening,	8 “

TERMS OF WARRANTY

ON SAWS STAMPED "WHEELER, MADDEN & BAKEWELL."

Each Saw is warranted free from Flaws or Seams, and as true as saws can be made; and if found to be defective in either of these particulars, a new one will be given in exchange, if returned within 30 days from purchase. If a Circular Saw is found untrue, it will be exchanged, if returned before using. We know it is impossible to make a saw mathematically true, but we can approach as near that point as is practically useful; and we believe that many times Circular Saws are condemned when the fault is with the mandrel instead of the saw. It is a difficult matter to turn a mandrel on centers, in a lathe that will run true in bearings on its journals; and any deviation from perfect truth in the flanch is multiplied as many times in the saw as the saw is larger than the flanch; therefore the flanch or collar should be turned true while the mandrel is in its proper bearings. A true mandrel will help a bad saw, but a bad mandrel will spoil a good saw.

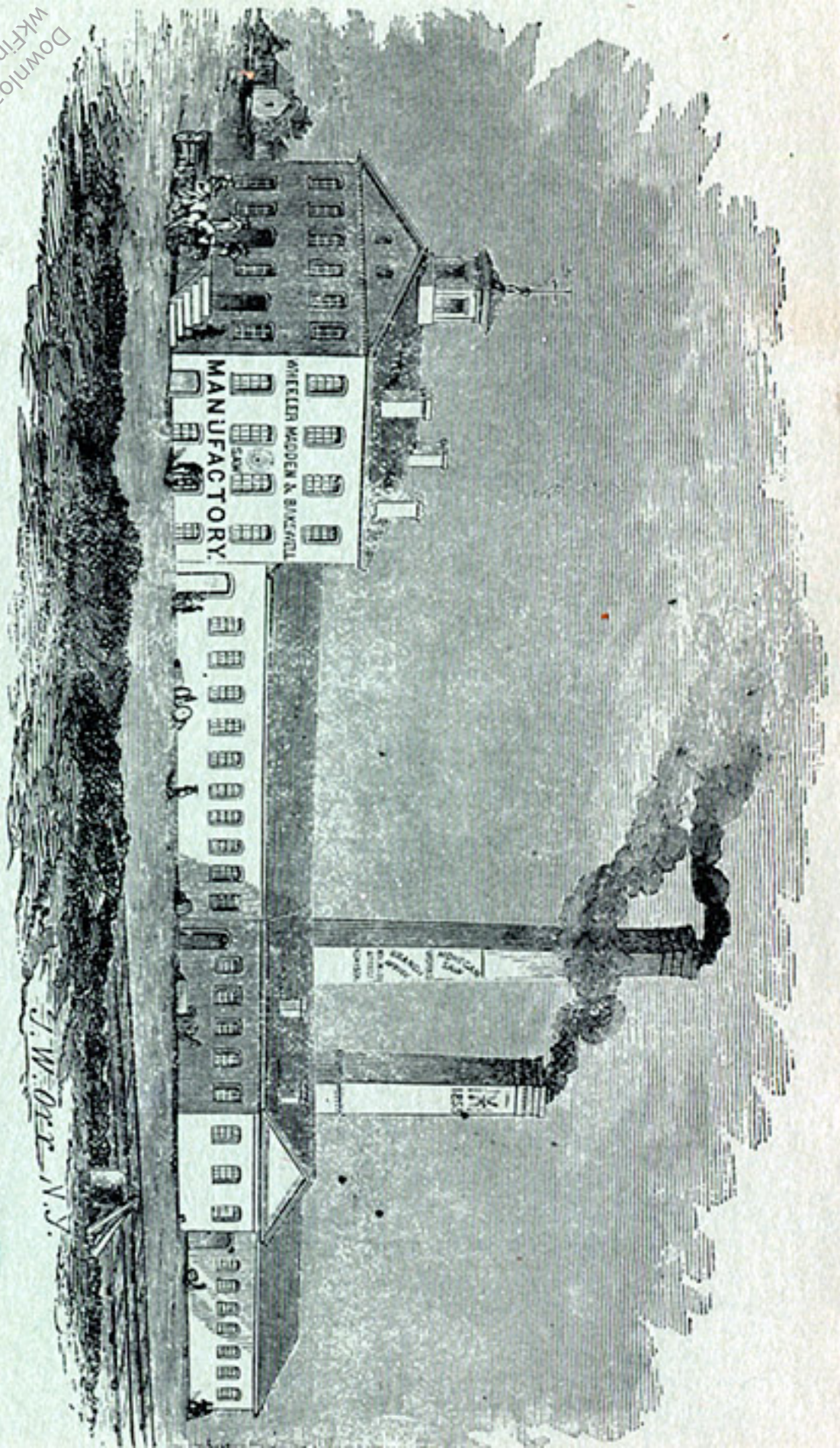
N. B.—Any alteration in mandrel or pin holes, of Circular Saws, by way of filing or reaming, or otherwise, will almost invariably spring the Saw, and render it unfit for use. When this alteration is made, the saw will not be subject to the above warranty. Breakage in rettooting Saws at your risk.

NOTICE.

When sending Saws to be repaired, please observe the following directions: The case or package containing them should be plainly marked to our address, and have upon it the names of the parties sending it, that the saws may be readily identified. Directions as to the nature of the repairs desired should also accompany them, or be sent to us by mail. Until such are received, no repairs will be made.

Thickness by STUBBS' Wire Gauge is the standard referred to above for Mill and other Saws.

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WHEELER MENDEN & BAYARDELL
SAW
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J. W. O'NEILL N.Y.

MONTHAGEN SAW WORKS,
MIDDLETOWN, ORANGE COUNTY, N. Y.