

Catalogue "B"

Pocket Edition



Millers Falls
Company

Catalogue "B" Pocket Edition



ILLUSTRATING

Tools and
Machines

M A D E B Y

Millers Falls Company



WORKS

Millers Falls, Mass.
U.S.A.

WAREHOUSE

28 Warren St., New York
U.S.A.

L. J. GUNN, President
G. E. ROGERS, Treasurer

E. P. STOUGHTON, Vice-Pres.

Cable Address "Tignona"



This Pocket Edition Catalogue is issued for the benefit of those who use and are interested in Tools. We hope it will be retained for reference. The Tools illustrated are of the highest order in every particular and can be relied upon to give entire satisfaction.

MILLERS FALLS CO.
28 WARREN STREET
NEW YORK

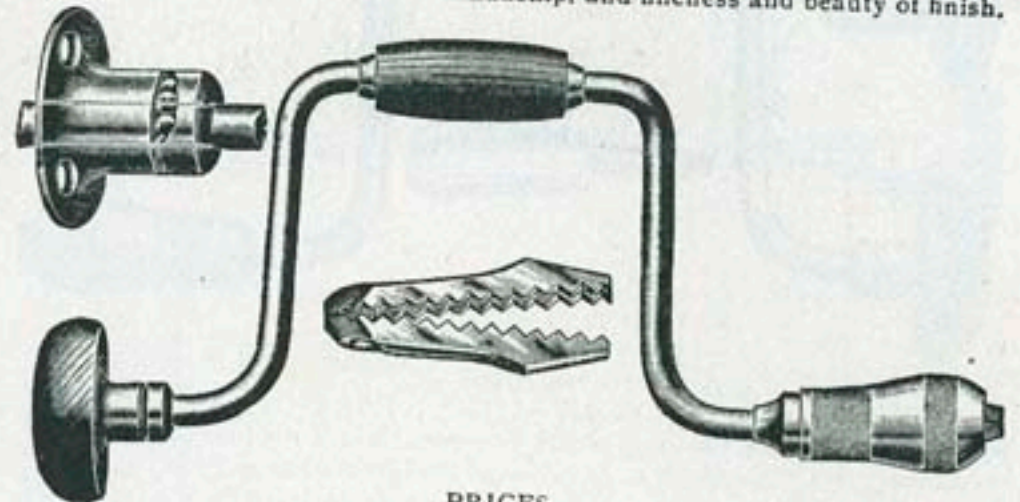


BARBER IMPROVED BRACES.

These Braces possess the following points of superiority: The Sweep is made from Steel. The Jaws are forged from Steel. The Wood Handle has brass rings inserted in each end so it cannot split off. The Chuck has a hardened Steel anti-friction washer between the two sockets, thus reducing the wear.

The head has a bearing of steel balls, running on hardened steel plates, so no wear can take place, as the friction is reduced to the minimum. The Brace is heavily Nickel Plated and Warranted in every particular.

We endeavor to make these goods as nearly perfect as is possible in durability, quality of material and workmanship, and fineness and beauty of finish.

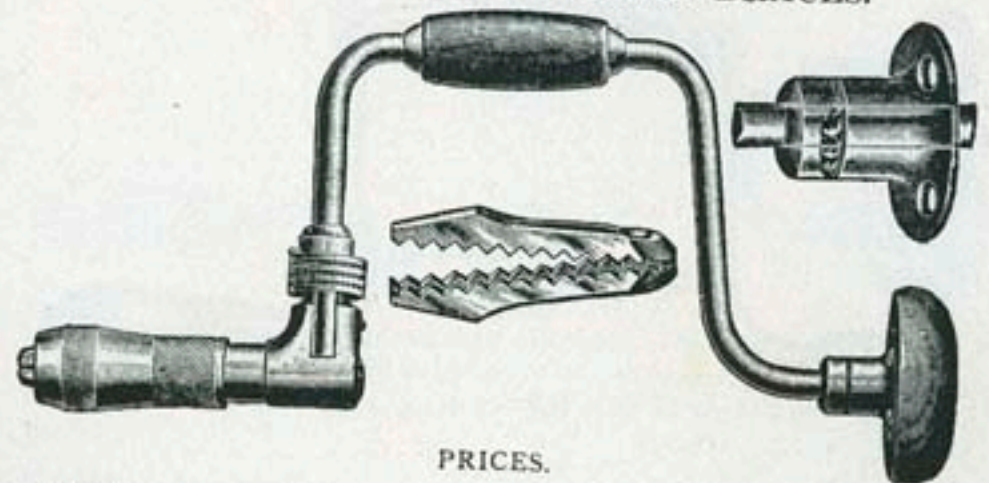


PRICES.

No.	14 inch sweep	PER DOZ.
No. 10	14 inch sweep	\$33 00
" 11	12 "	" 30 00
" 12	10 "	27 00
" 13	8 "	24 00
" 14	6 "	21 00
" 15	4 "	20 00

(This No. not ball bearing)
Put up 1/2 dozen in a paste board box.

BARBER IMPROVED RATCHET BRACES.



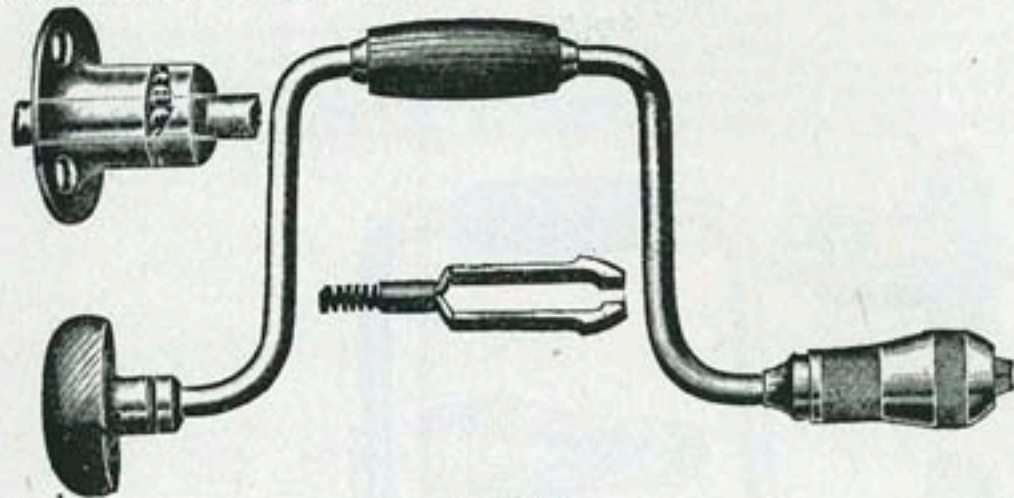
PRICES.

No.	14 inch sweep	PER DOZ.
No. 30	14 inch sweep	\$42 00
" 31	12 "	39 00
" 32	10 "	36 00
" 33	8 "	33 00
" 34	6 "	30 00

Put up 1/2 dozen in a paste board box.

BARBER BRACES.

The Braces listed below are same in quality of material and finish as those described on page 1 The difference being in style of jaw and ratchet only.

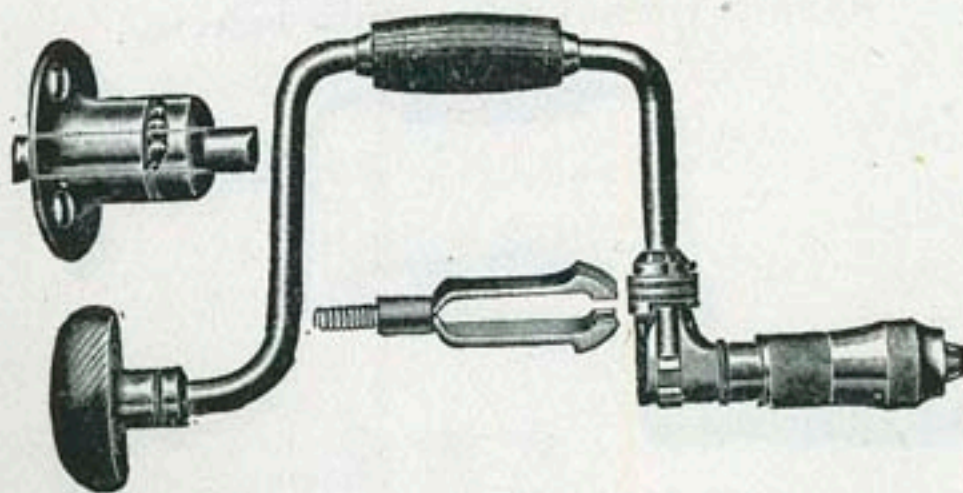


PRICES.

	PER DOZ.
No. 40, 14 inch sweep	\$33 00
" 41, 12 " "	30 00
" 42, 10 " "	27 00
" 43, 8 " "	24 00
" 44, 6 " "	21 00

Put up 1/2 dozen in a paste board box.

BARBER RATCHET BRACES.

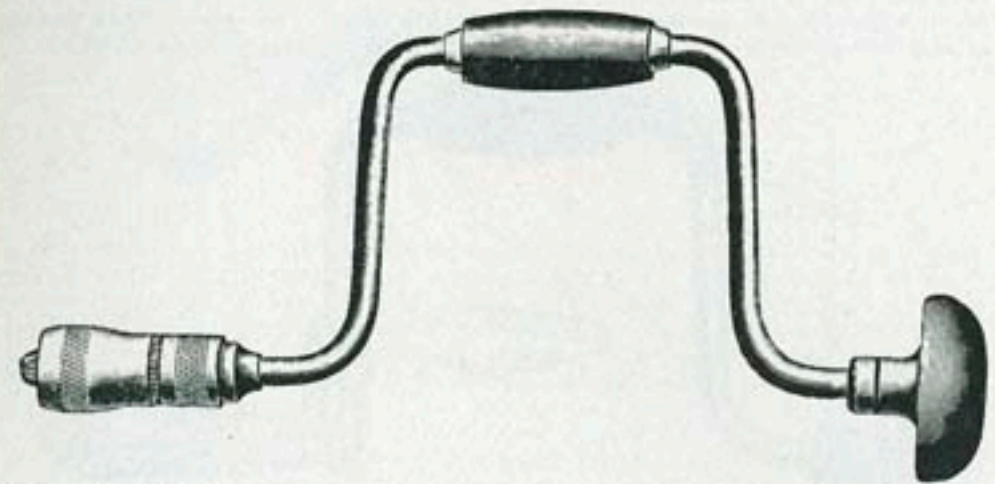


PRICES.

	PER DOZ.
No. 61, 12 inch sweep	\$39 00
" 62, 10 " "	36 00
" 63, 8 " "	33 00

Put up 1/2 dozen in a paste board box.

BARBER IMPROVED PATENT BRACE.

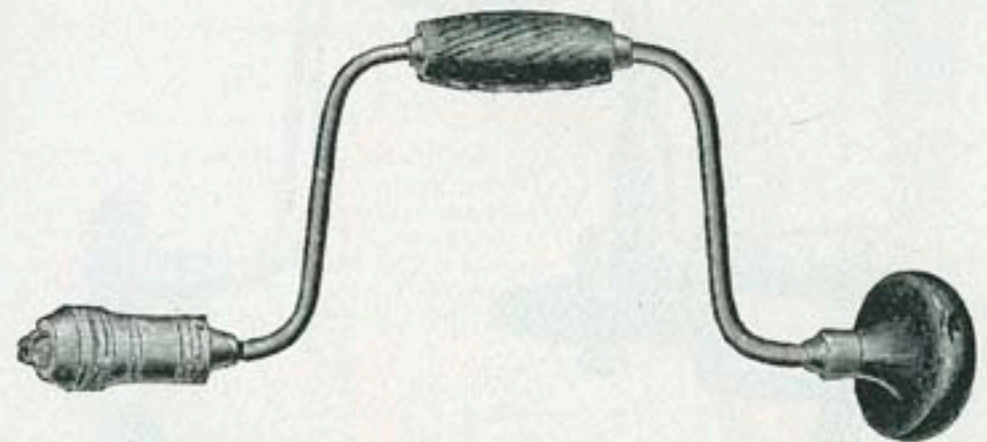


No. 21, 12 inch sweep	per dozen, \$11 00
No. 22, 10 " "	10 00
No. 23, 8 " "	9 00
No. 122, 10 " Ratchet	18 00
No. 123, 8 " "	17 00

The sweeps to these Braces are made of steel, polished, but not nickel-plated. The heads and handles are stained in imitation of Cocobola. The threads are lathe cut, and all parts of the Brace made for durability.

Put up 1/2 dozen in a package.

BARBER IMPROVED PATENT BRACE.



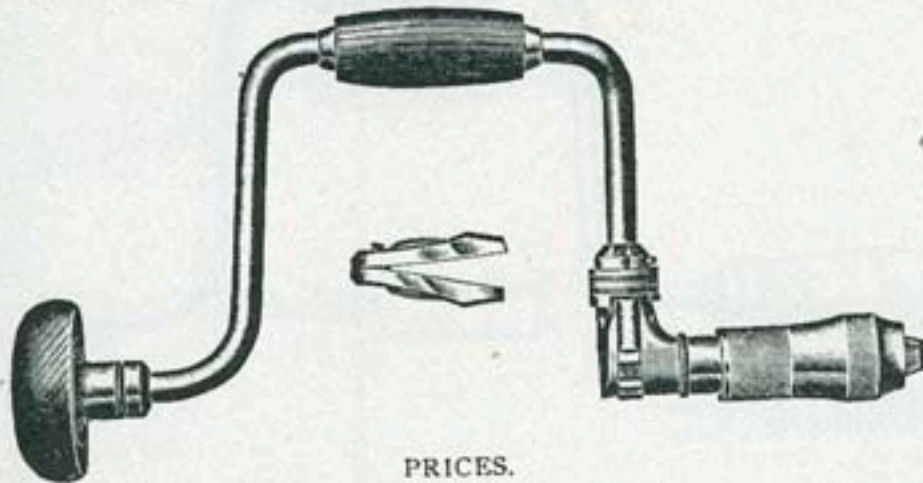
With steel sweeps tumbled, but not polished. The heads and handles are made of hard maple, stained in imitation of Cocobola. This is a good serviceable Brace, and quite as low in price as any other Brace of equal quality in the market.

No. 71, 12 inch sweep	per dozen, \$8 00
No. 72, 10 " "	7 50
No. 73, 8 " "	7 00
No. 82, 10 " Ratchet	14 00
No. 83, 8 " "	13 50

Put up 1/2 dozen in a package.

BARBER BRACES.

These are the same grade of Braces as our Nos 22/23 and 122/123 with the exception that they are nickeled. This finish gives them the appearance of much higher priced goods than we charge for them. We know of no Braces of so good quality and appearance which sell at such low prices as we offer.

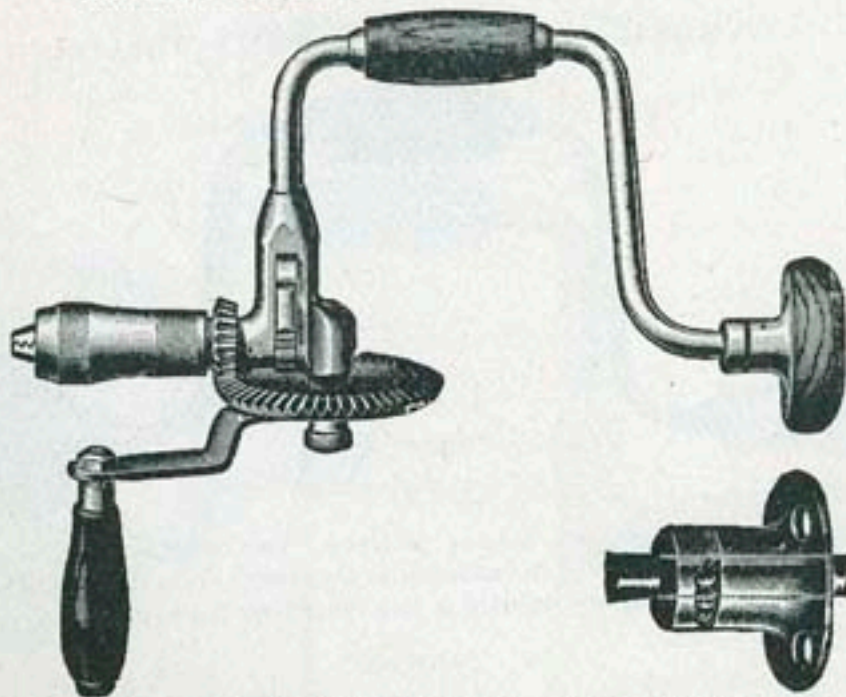


PRICES.

No.	Type	Length	PER DOZ.
No. 222	Plain	10 inch.	\$12 00
" 223	"	8 "	11 00
" 321	Ratchet	12 "	24 00
" 322	"	10 "	23 00
" 323	"	8 "	22 00

Put up 1/2 dozen in a paste board box.

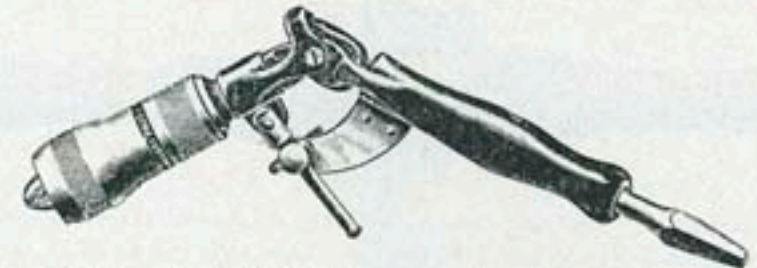
DRILL BRACE WITH BALL BEARINGS.



To be used as an ordinary ratchet Bit Brace, or as a Breast Drill. The Brace has 10-inch sweep, and is of same quality and finish as those described on page 1. The Drill can be attached or detached in a moment's time.

Price, complete ... \$36.00 per dozen.
Put up 1-12 dozen in a paste board box.

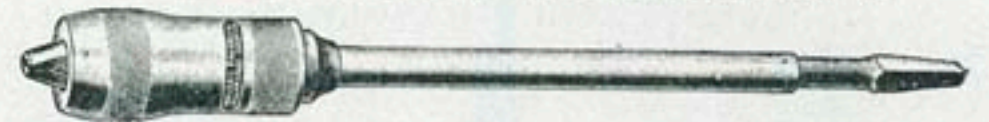
PATENT UNIVERSAL ANGULAR BIT STOCK.



The Universal Angular Bit Stock is presented to the public as a time economizer, to be used in connection with a Brace and a Bit for boring holes in places where the Brace and a Bit could not be used. It can be varied in any position from a straight line parallel with Brace Chuck to the angle shown in cut. The ability to vary the angles, either at the commencement or during the operation of boring a hole is an important feature.

Per dozen\$24 00
Put up one in a paste board box.

BARBER EXTENSION BIT HOLDER, No. 1.



12, 15, 18, 21 and 24 inches over all.
Prices, all lengths per dozen, \$15 00

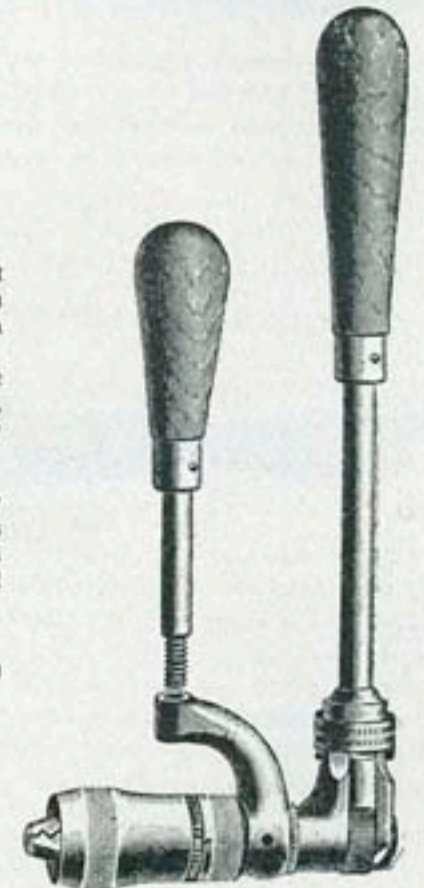
CORNER RATCHET BORER, No. 140.

This cut depicts this tool very clearly. It is designed to be used in corners between joists and in other unusual places where a Brace cannot conveniently be employed. The long handle works the tool while the shorter one is designed for steadying it. The teeth on the ratchet wheel are cut very fine to admit of a short bite.

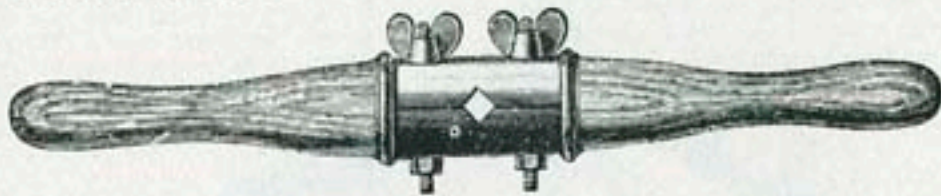
The iron and steel work is handsomely polished and plated and the Ash handles stained to imitate Cocobola. Plumbers and electricians as well as woodworkers will appreciate this tool.

Price, per dozen ... \$18 00

Put up one in a box.



PRATT'S PATENT AUGER HANDLE, Nos. 1 and 2.

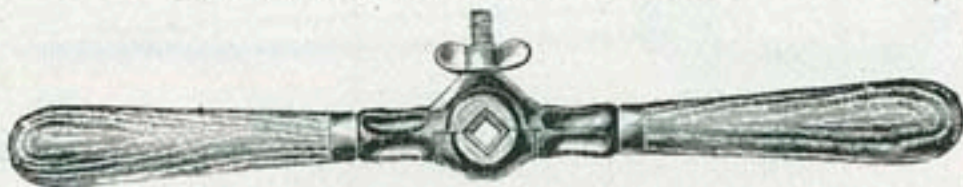


These handles will take and center correctly Augers of all sizes and shapes. A steel band, 3 inches long and 3-16 thick, is made to fit the handle. This band is cut lengthwise into two equal sections, which are operated by the two steel screws with thumb nuts as shown in the cut. These sections can be opened wide enough to let the Auger Shank pass in without removing the nut on the end. This handle, made of Ash wood, is very neat and substantial, and is much in demand wherever introduced.

Price, per dozen.....\$6 00

No. 1, 14 inches long. No. 2, 17 inches long. Both of one price.
Put up singly in paper package.

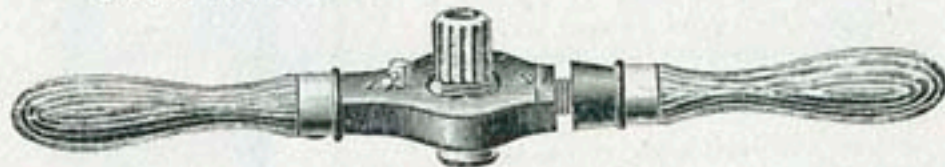
ROGER'S AUGER HANDLE, No. 3.



Is more compact than when made entirely of wood, and can be taken apart at any time and laid away in small compass. The main body is made of malleable iron, with polished Ash handles at the ends. The whole thing is very neat, light and substantial in appearance. Made in one size only.

Length, 16 in.; weight, 21 oz.; Price, per dozen.....\$4 50
Put up 1/4 dozen in a paste board box.

GUNN'S RATCHET AUGER HANDLE, No. 5.

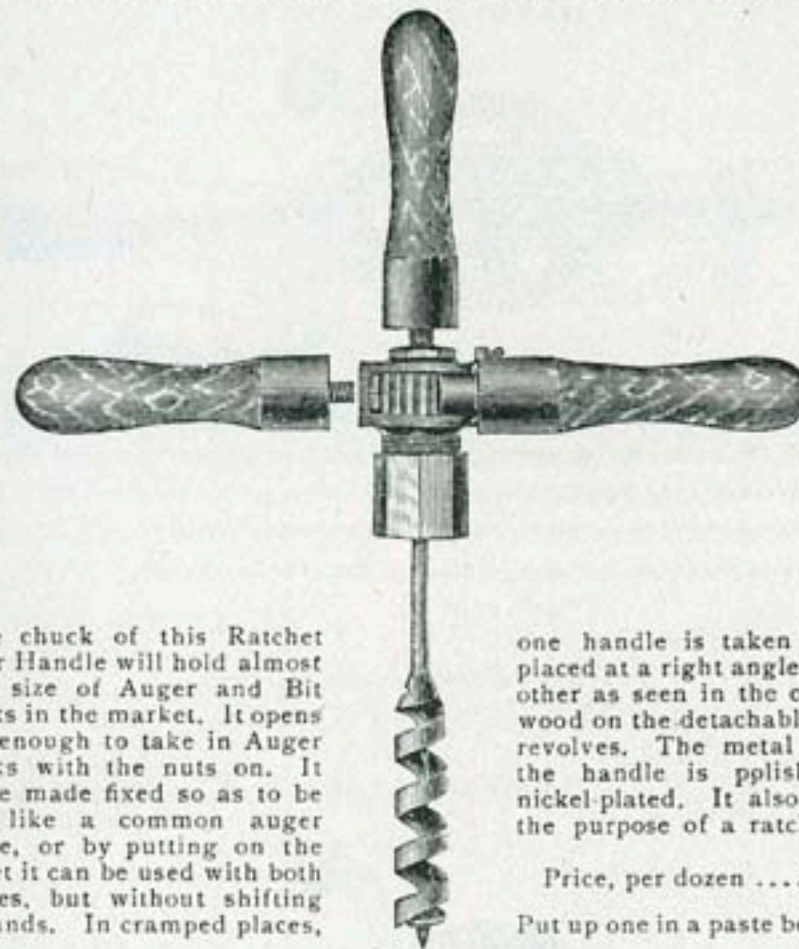


Will center and hold Auger Shanks of all sizes and shapes. It is not necessary to change the hands from one end to the other when using this handle. It can be made stationary or to ratchet either way. One handle may be taken off when working in a narrow place or next to a wall. The working parts are of malleable iron and steel, and the handles of second growth Ash. We furnish an attachment with each handle, by the use of which the tool can be used as a Ratchet Drill, doing work of a drill which costs much more money. Length, 16 inches; weight, 1 1/2 pounds.

Price, per dozen.....\$15 00

Put up 1-12 dozen in a paste board box.

PRATT'S RATCHET AUGER HANDLE, No. 4.



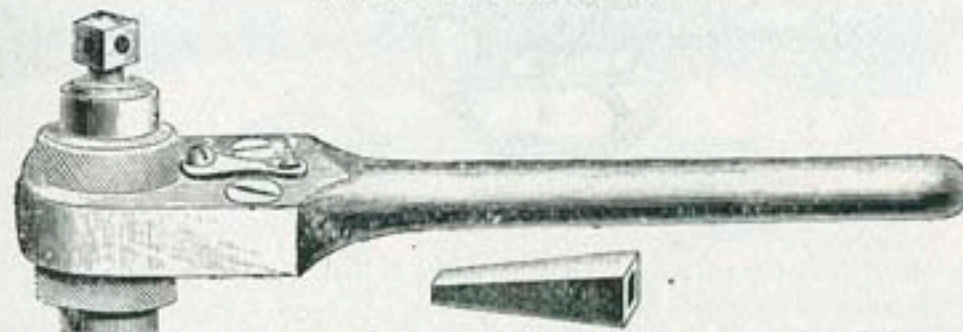
The chuck of this Ratchet Auger Handle will hold almost every size of Auger and Bit Shanks in the market. It opens wide enough to take in Auger Shanks with the nuts on. It can be made fixed so as to be used like a common auger handle, or by putting on the ratchet it can be used with both handles, but without shifting the hands. In cramped places,

one handle is taken off and placed at a right angle with the other as seen in the cut. The wood on the detachable handle revolves. The metal part of the handle is polished and nickel-plated. It also answers the purpose of a ratchet drill.

Price, per dozen ... \$24 00

Put up one in a paste board box.

RATCHET DRILLS.

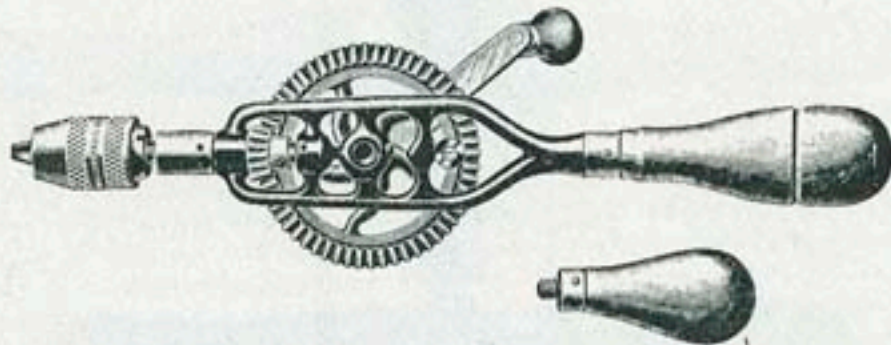


This improved Ratchet Drill is nickel-plated throughout and we think we may say with modesty that it is the best finished and handsomest tool of the kind in the market. The merits of the tool are in keeping with the finish. The sockets are fitted for shanks 5/8 x 3/8 x 1 1/2 inches (see Cleveland Twist Drill Co.'s No. 111, Morse Twist Drill Co.'s No. 109E, and Standard Tool Co.'s No. 104A). With each ratchet we now put up an extra socket to accommodate Bit Stock Drills, for which no additional charge is made.

Lever.	No. 10, 10 in.	No. 13, 12 in.	No. 14, 14 in.
Price, each	\$4 00	\$4 50	\$5 00

Price of extra Sockets, sold separate from Ratchets, 25c. each.
Drills put up one in a paste board box.

HAND DRILL, No. 1.



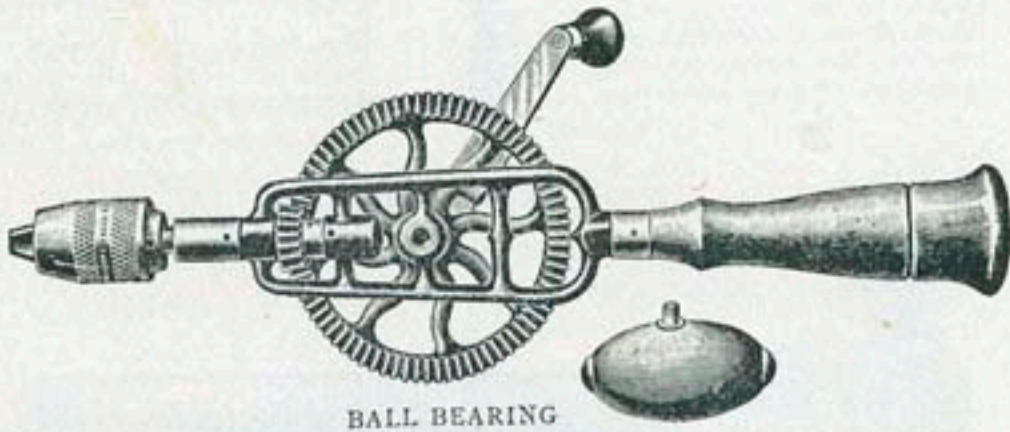
These Drills are provided with Chucks having three jaws, resting in solid sockets. There are no springs to get out of place or out of order. The chucks are nicked and the handles Cocobola. They hold drills from 0 to 3-16.

A side handle, as shown in cut, is furnished with this drill:

Price per dozen, including 8 fluted points in hollow handle.....	\$15 00
“ “ “ of Points only.....	72
“ “ set “ “ “.....	48

Put up 1-12 dozen in a paste board box.

HAND DRILL, No. 2.



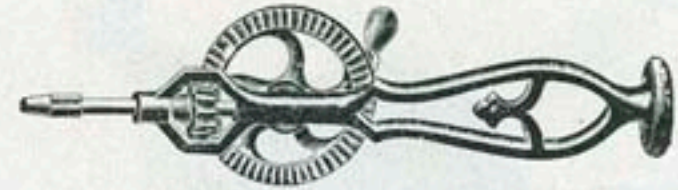
BALL BEARING

Drill No. 2 is same in general finish as No. 1, described above. It has cut gears and an adjustable friction roll to prevent gears from springing out of engagement. The Chuck holds from 0 to 17-64.

Price, with 8 fluted points.....	per dozen, \$30 00
“ of “ “.....	“ “ 72
“ “ “ “.....	“ set 48

Put up in 1-12 dozen in in a box.

HAND DRILL, No. 4.

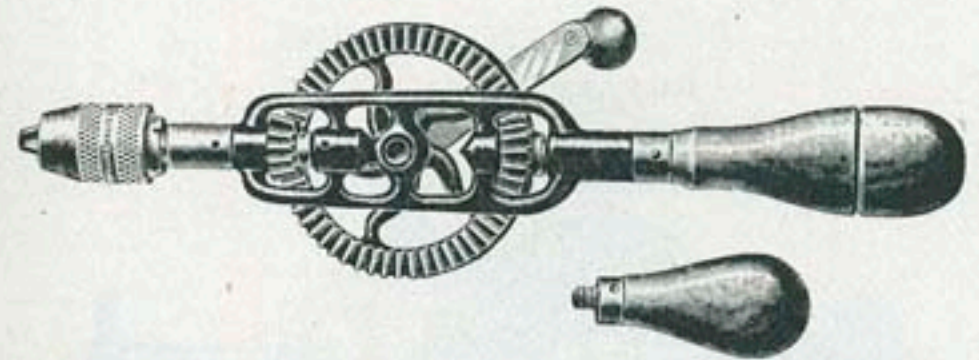


No. 4 Drill is eight inches in length, and weighs eight ounces. It is made of iron, with rosewood handle and has chuck for holding the drill points. This chuck is made on a new plan, and it centers and holds the drill perfectly. With each drill stock we send a box containing six superior drill points, of various sizes

Price of Stock and Drills	per dozen \$6 00
“ “ Points only.	“ set 25

Put up 1-12 dozen in a paste board box.

HAND DRILL, No. 5.



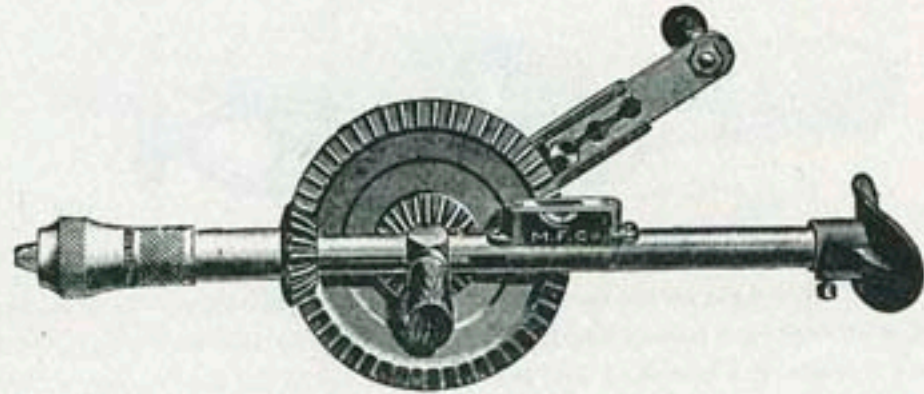
Has same chuck as No. 1, but is double geared, and is provided with a wide rim gear, to be grasped between thumb and fingers when the drill is used for delicate work. In this manner it can be run without liability of breaking points.

Length over all, 11½ inches; weight, 20 ounces.

Price, including 8 fluted points.....	per dozen, \$18 00
“ of — “ “.....	“ “ 72
“ “ — “ “.....	“ set 48

Put up 1-12 dozen in a paste board box.

BREAST DRILL, No. 10.

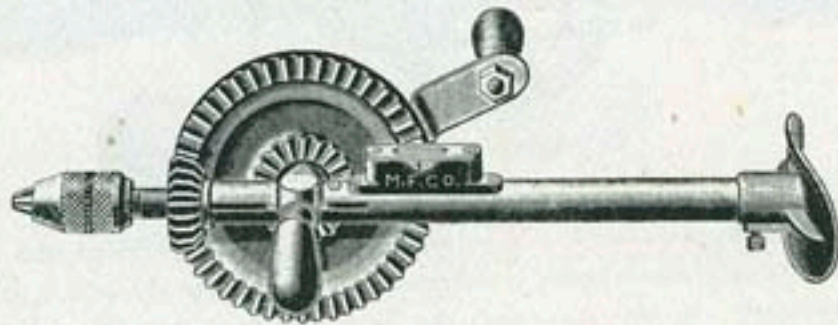


With ball bearings, nickel-plated stock and chuck, Cocobola handles, extension crank, alligator jaws, which hold both round and square shanks, and a patent level attachment to enable the operator to see when the tool is held true. The gears are cut and are changeable from even, to speeded 3 to 1.

Price, per dozen\$36 00

Put up 1-12 dozen in a box.

BREAST DRILL, No. 11.

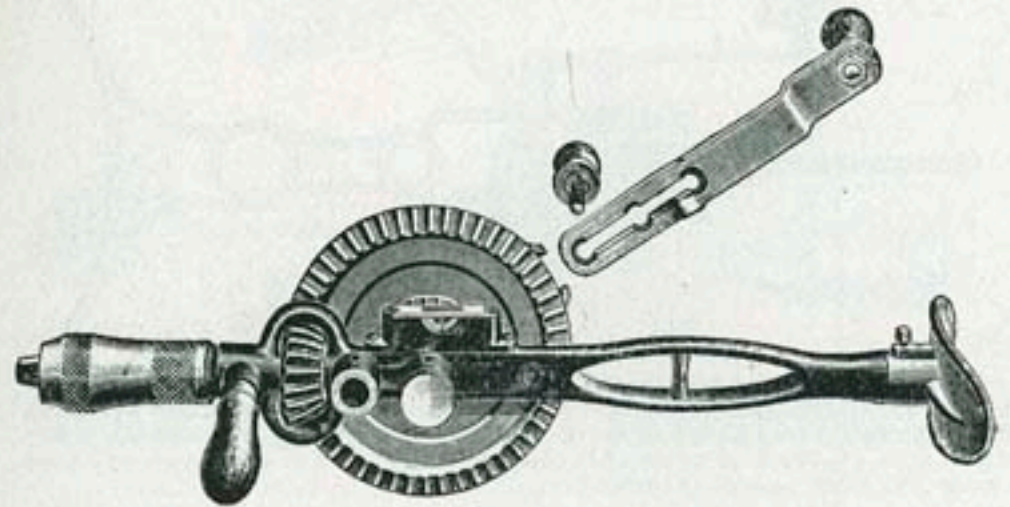


No. 11 Drill is same finish as No. 10, but the chuck is arranged with three jaws for round shanks and will center quite accurately. It holds from 0 to 17-64.

Price, per dozen\$36 00

Put up 1-12 dozen in a box.

BREAST DRILL, No. 12.



BALL BEARING.

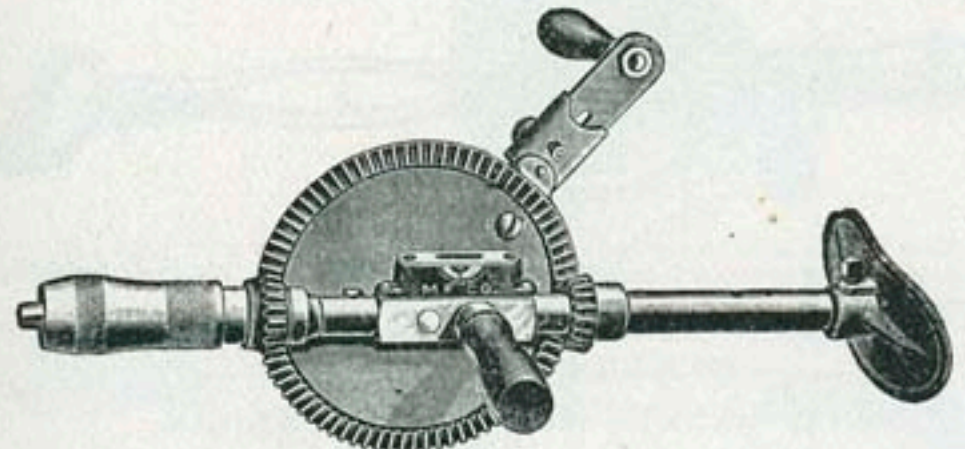
Changeable gear from even to speeded about 3 to 1.

Has cut gears, adjustable cranks, level attachment to show when being held true, Alligator Jaws, holding both round and square shanks. Also an extra pair of jaws for fine drills. The handles are Cocobola and the chuck nicked. Everything about the tool will be found durable and nicely finished.

Price.....per dozen, \$20 00

Put up one in a box.

BREAST DRILL, No. 13.



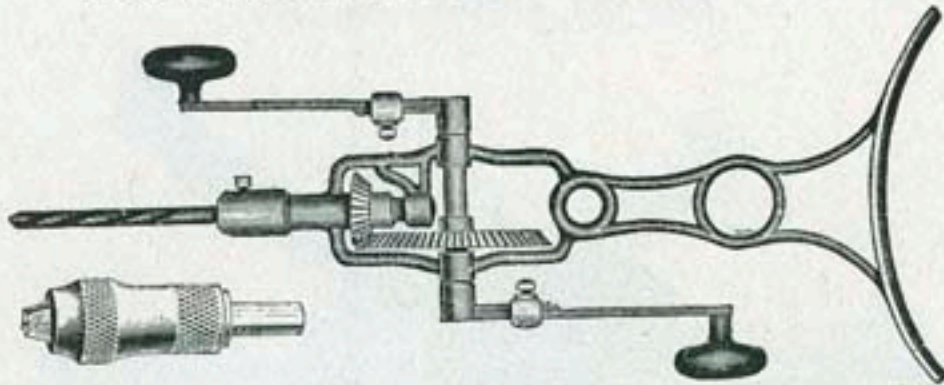
BALL BEARING.

This drill is double geared and has a 6-inch drive-wheel giving speed at 4 1/2 to 1. The gears are cut, the handles Cocobola and the stock and chuck nickel-plated. Note the level attachment to show when the tool is being held true, also the extension crank.

Priceper dozen, \$48 00

Put up one in a box.

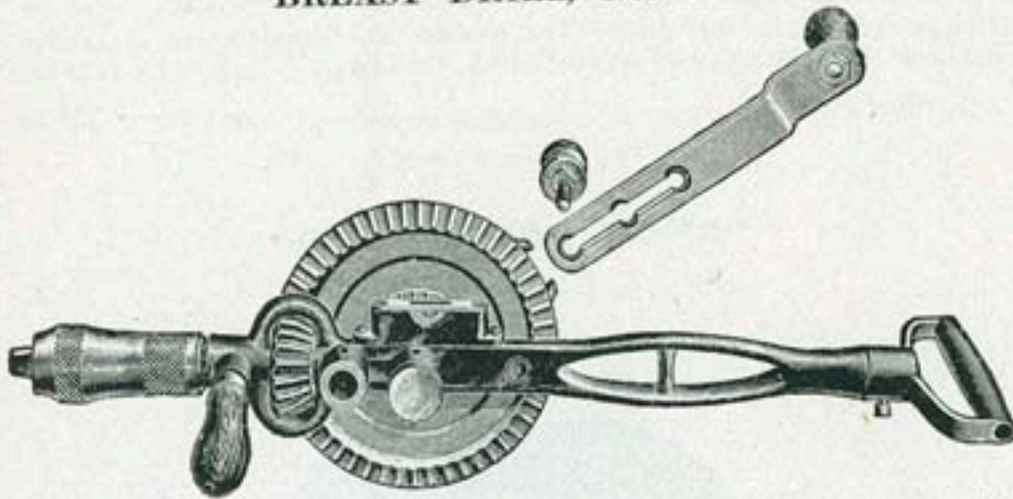
DOUBLE CRANK BREAST DRILL, No. 14.



No. 14 Drill is made strong and powerful for heavy work. The cranks are adjustable to different lengths, the breast plate is 12 inches long, and curved to fit the body. The spindle is bored to take drills with 1/2 inch shanks. For drills with shanks 7-16 or smaller, we furnish a chuck as noted below. This chuck also holds square shanked drills.

Priceeach, \$5 00
 Adjustable Chuck to fit same (specify if wanted)..... " 1 00
 Put up one in a wooden box.

BREAST DRILL, No. 15.



This Drill is same in pattern and finish as No. 12, shown on page 11, with exception that it has a D handle instead of Breast plate. We are furnishing considerable quantities of them for use in car shops.

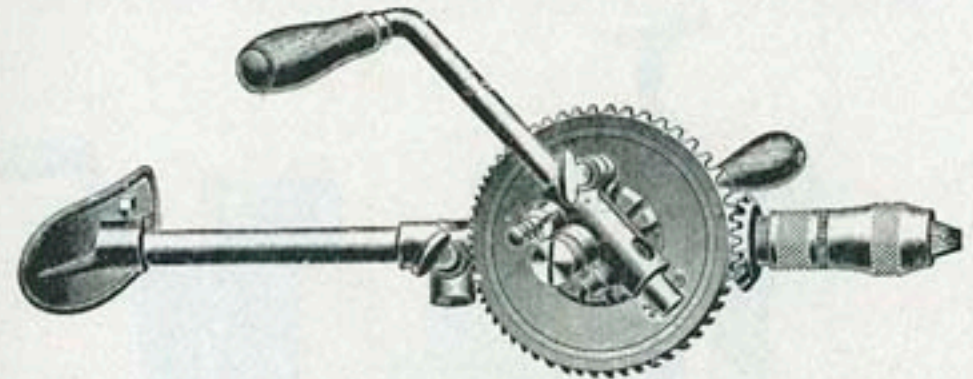
Priceper dozen, \$30 00
 Put up 1-12 dozen in a paste board box.

D HANDLE FOR BREAST DRILLS.



Fits Breast Drills Nos. 10, 11, 12, 13, 15, 16 and 18.
 Price per dozen.....\$3 00

BREAST DRILL, No. 16.



The No. 16 Breast Drill is arranged with a Ratchet Attachment. The Frame is made in two lengths, the end section of which can be detached if the Drill is to be worked in a narrow space—as between joists for instance—or it can be attached to the main Frame at right angles, if desired.

The points of especial value claimed for this Drill are as follows:
 The Ratchet Attachment enables the operator to work in close quarters and in corners. This Attachment also gives greater power.

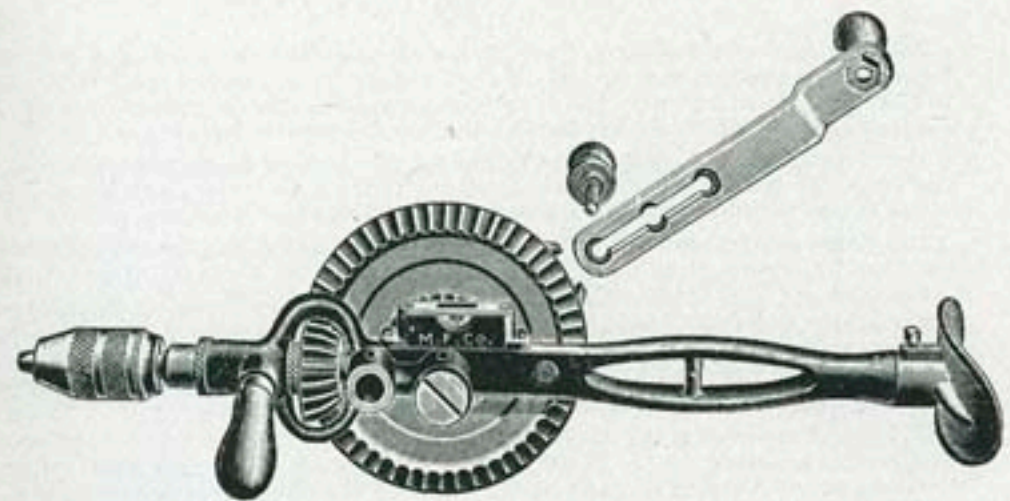
The sectional Frames can be detached (as stated above) to reduce the length of the tool when required, and the whole construction is such that the Drill can be taken apart and packed in small compass for carrying in the grip. This will be found an especially valuable Drill for the use of electricians, plumbers, etc.

Extreme diameter of Driving Wheel, 5 inches.
 Extreme diameter of Pinion, 2 inches.

Arranged with two speeds.

Price.....per dozen, \$48 00
 Put up 1-12 dozen in a paste-board box.

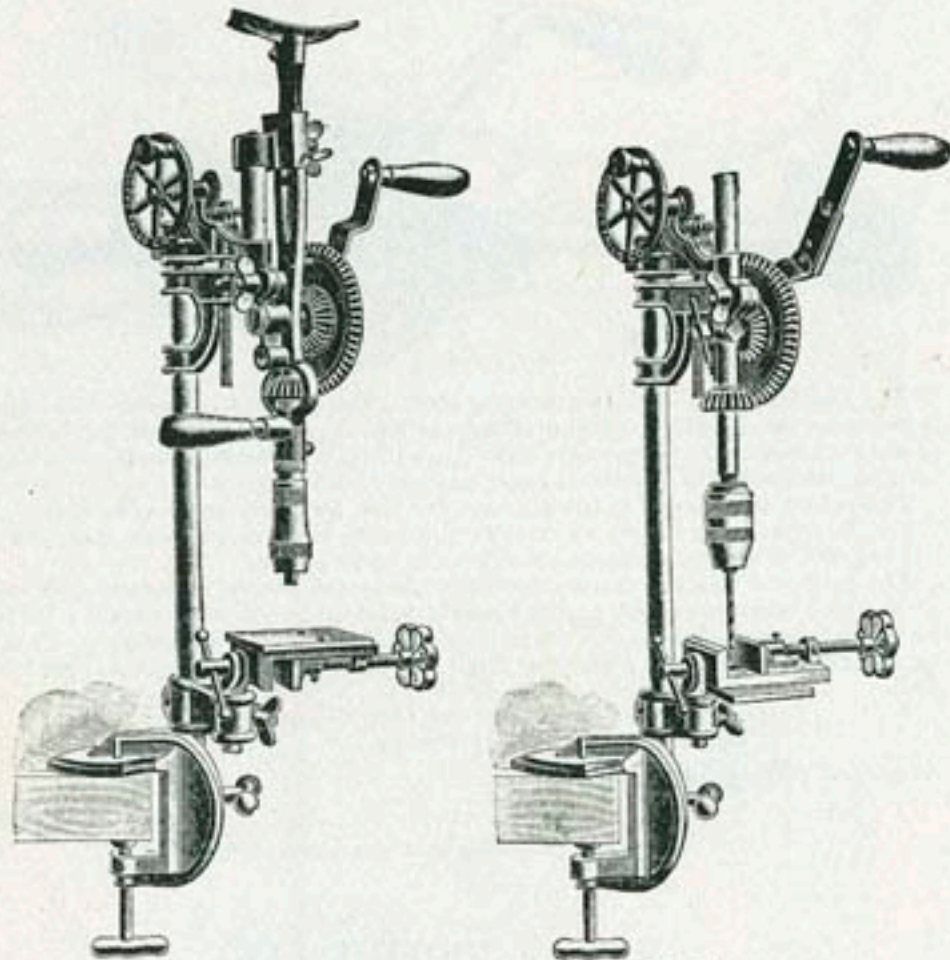
BREAST DRILL, No. 18.



Excepting in the chuck, No. 18 Breast Drill is same in pattern and finish as our No. 12 described on page 11. The Chuck is arranged with three jaws for round shanked points (only) from 1-16 to 1/2 inch inclusive. It will center accurately.

Price.....per dozen, \$42 00
 Put up 1-12 dozen in a paste board box.

UNIVERSAL HAND DRILL PRESS.



No. 20.

No. 21.

The Standard and Frame in Drill Press as exhibited in illustration No. 20 was designed to apply our No. 10, 12 or 18 Breast Drill, so as to convert into a Drill Press or Bench Drill. The illustration shows our No. 12 Breast Drill thus converted. The No. 10 Breast Drill can be converted with equal ease.

The Bench Clamp, Vise Rest and Frame are all clamped to the main standard, and so can be moved up and down, or swung to the right or left, and by means of the thumb screws provided, clamped or secured at any desired point.

The Table can be reversed to present either a Vise or Table, as the operator may require, and is hung on a pin off center to admit of a variety of positions.

The operator may if desirable, work below the bench by dropping the Frame and Fixtures down on the Standard, and securing the upper end of the same in the Bench Clamp. This is very convenient in bicycle repairing. In short, the number of positions, heights and adjustments that will suggest themselves as necessity demands, with this tool is astonishing.

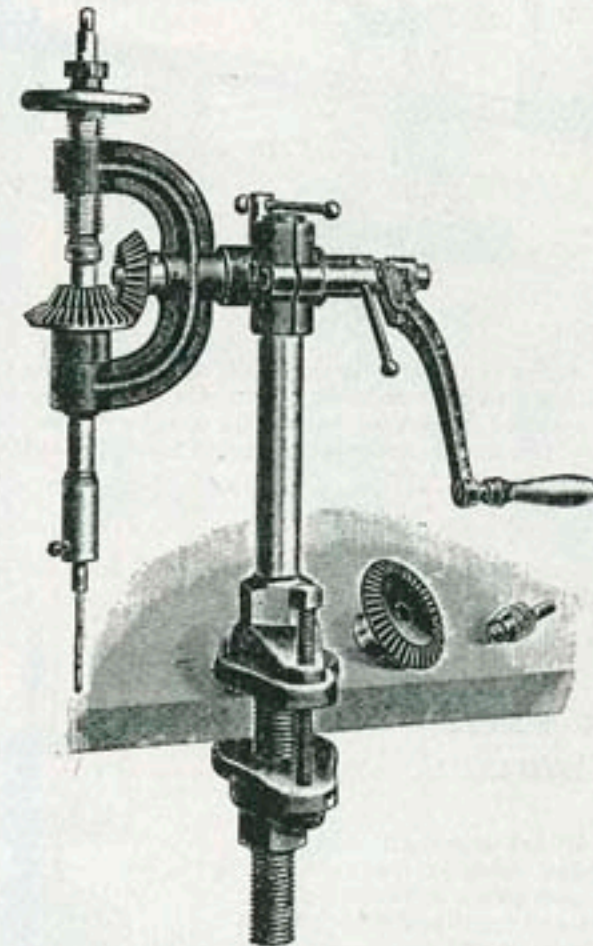
Cut No. 21 represents the Universal Hand Drill Press with Special Drilling Attachment provided for it. This Drilling Attachment has double gears (large 5 inches, small 2 inches in diameter), Extension Handle, Three-jawed Chuck, taking straight shank drills from 0 to $\frac{1}{2}$ inch.

Price for Attachment only, as Cut No. 20 (without Breast Drill) each., \$4 00

Price of Standard and Drilling Attachment complete, as Cut No. 21, ea., 7 00

In ordering No. 20 take note that the Breast Drill is not included.

ANGULAR AND RATCHET DRILLING MACHINES.



These machines have steel standards, shafts and spindles, the castings are substantial, the gears are cut and the workmanship throughout first-class. For repair work there is no more convenient tool of any description made. They are not only suitable for the bench but can be attached to broken machines and swung around so as to drill at a variety of angles. By attaching the crank to drill spindle, it can be used with or without ratchet. The hole in spindle is suitable for drills with $\frac{1}{2}$ -inch shanks. With each machine we send as sample one such drill $\frac{1}{4}$ -inch, also a chuck to hold drills smaller than $\frac{1}{4}$ -inch.

No. 1. Speeded. Weight, 34 lbs. Drills up to $\frac{5}{8}$ -inch hole \$20 00

No. 2. With two sets of gears making either speeded or geared back machine. Weight, 64 lbs. Drills up to 1-inch hole 25 00

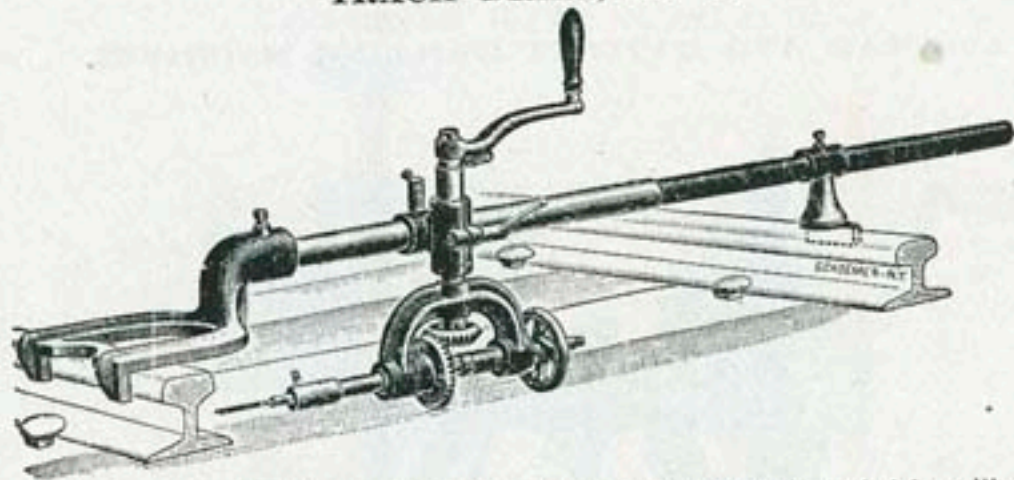
No. 3. Geared back. Weight, 108 lbs. Drills up to $1\frac{1}{2}$ -inch hole .. 40 00

Made to order with hole for taper socket when required for, extra, net 1 50

For prices of parts, see page 17.



TRACK DRILL, No. 5.



Engineers and others familiar with the work the Drill is intended for will at a glance see its utility and convenience. Two sets of gears go with each Drill, making it either speeded or geared back. It weighs 68 lbs., and will carry drills up to 1 inch. The hole in spindle is adapted for drills with shanks $\frac{1}{2} \times 2\frac{1}{2}$ inches.

Price \$25 00

A chuck is furnished with each machine which will hold drills smaller than $\frac{3}{4}$ inch. For prices of parts see page 17.

**MILLERS FALLS
CHAIN DRILL.**

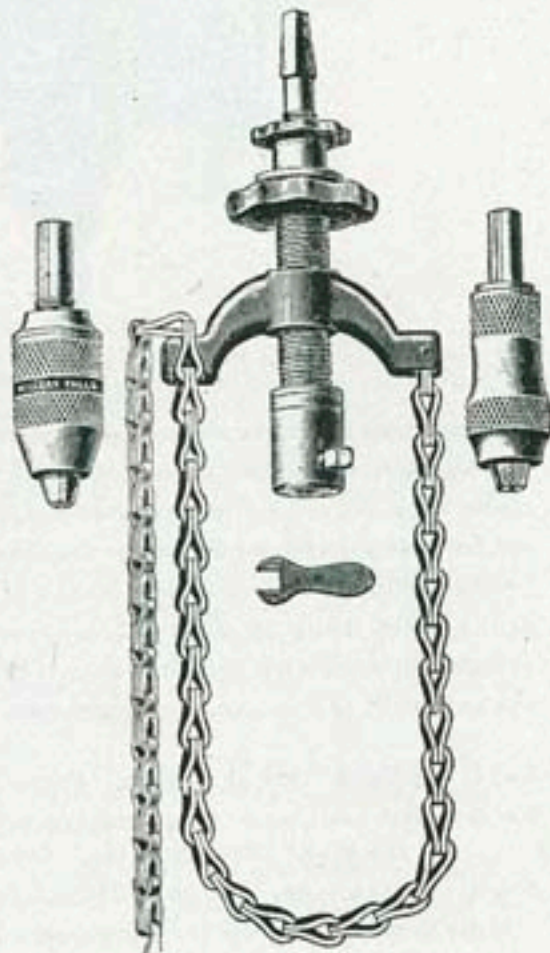
This Drill can be fed automatically or with a hand feed at the option of the operator. The Automatic feed is self-regulating, according to the size of the drill, feeding very rapidly or slowly as may be desired. The frame is japanned with polished socket. Made in three styles:

No. 17 Chain Drill with plain socket; $\frac{1}{2}$ inch hole with set screweach, \$1 25

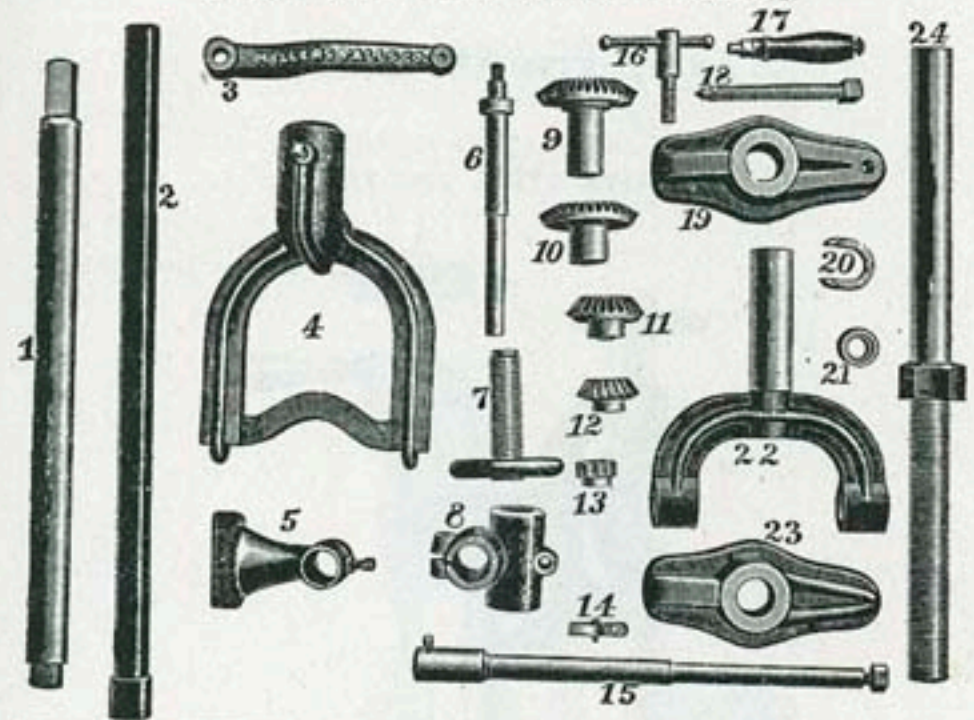
No. 18 as above, provided with Barber Chuck for holding square Bit Shanks.....each, \$2 25

No. 19, same as No. 17, provided with Three Jawed Chuck for holding Round Shanks from 0 to $\frac{3}{4}$ inch each, \$3 75

Packed one in a box.



**PARTS AND PRICES OF ANGULAR DRILLING
MACHINES AND TRACK DRILL.**



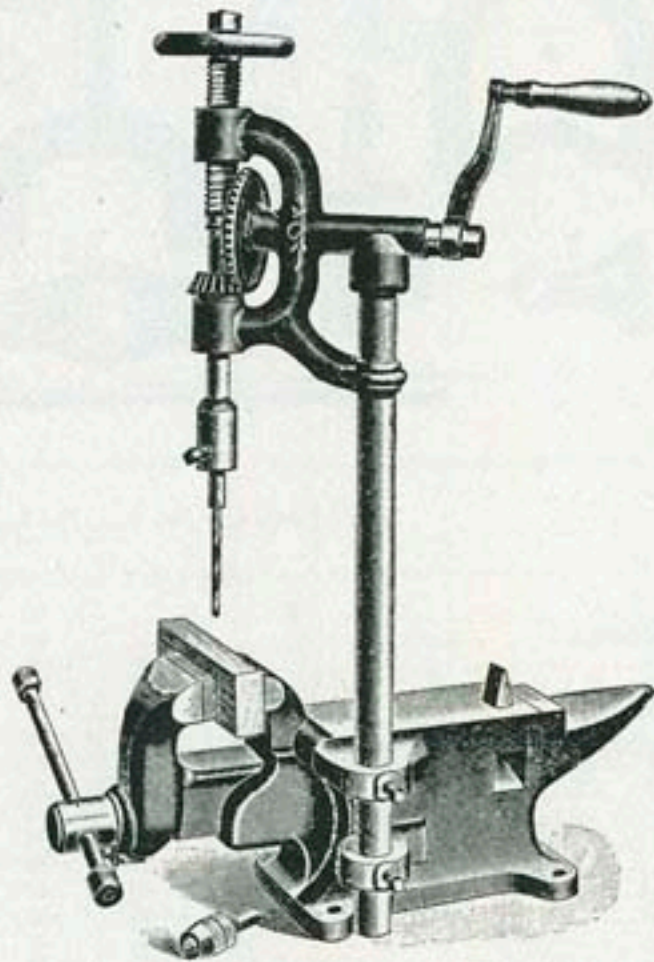
Part.	No. 1.	No. 2.	No. 5.	No. 8.
1 Standard.....	\$....	\$... ..	\$1 00	\$...
2 " Extension .....	....	....	65	....
3 Crank.....	80	1 00	1 00	1 60
4 Track Shoe.....	....	....	2 00	....
5 Sliding Rest.....	....	....	40	....
6 Cross Shaft	1 60	2 00	2 00	3 20
7 Feed Wheel	1 00	1 25	1 25	2 00
8 Double Joint.....	2 00	2 50	2 50	4 00
*9 Large Gear.....	80	1 00	1 00	1 60
*10 Gear.....	....	70	70	....
*11 "	45	60	60	90
*12 " .....	....	60	60	....
13 Ratchet Gear.....	40	50	50	80
14 " Dog.....	20	25	25	40
15 Drill Spindle	1 80	2 25	2 25	3 60
16 Double Joint Screw	1 00	1 25	1 25	2 00
17 Crank Handle and Bolt.....	20	25	25	40
18 Clamp Screw.....	30	35	35	60
19 Upper Clamp.....	50	60	60	1 00
20 Yoke.....	....	40	40	....
21 Ball-bearing Cup.....	20	25	....	40
22 Fork Arm.....	2 60	3 25	3 25	5 20
23 Lower Clamp.....	50	60	60	1 00
24 Standard and Nut.....	2 00	2 50	2 50	4 00

*In ordering parts, state weight of part wanted as well as number, that we may determine whether for Machine Number 1, 2, 3 or 5.

In ordering gears state diameter and number of teeth.
Parts Nos. 10 and 12 go to make machines Nos. 2 and 5 speeded, and parts 9 and 11 to make them geared back.

ANVIL, VISE AND DRILL.

INSERTED STEEL VISE JAWS.

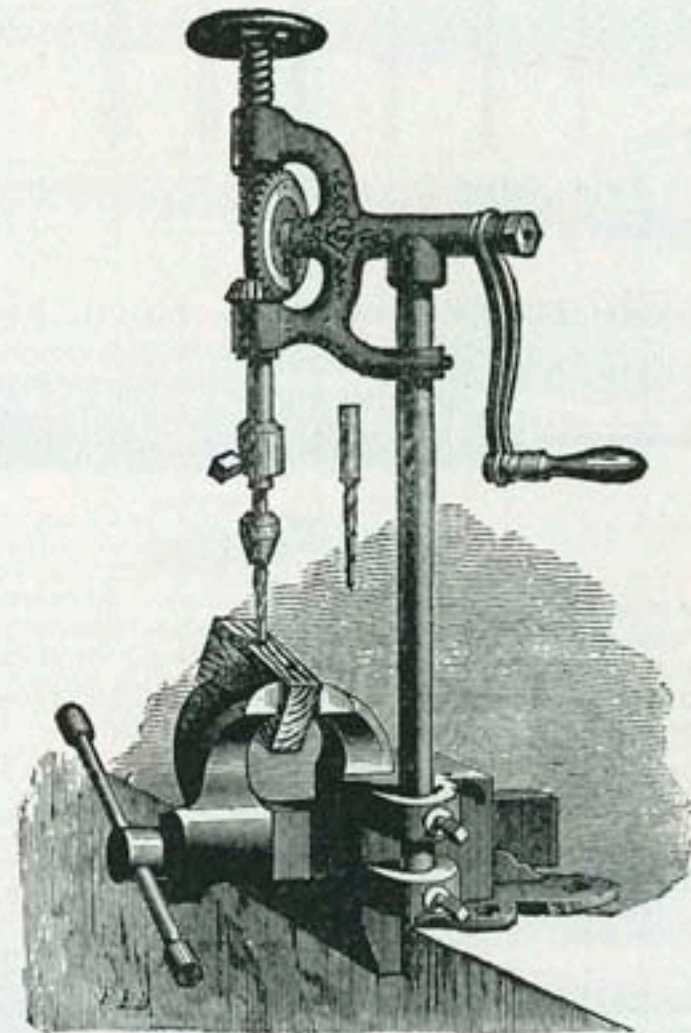


For Miners, Stove Repairers, Locksmiths, Bicycle Shops and a thousand other purposes, there is no more convenient tool than this Anvil, Vise and Drill. The Anvil has a steel face, 4 x 8 inches, the vise jaws are 3½ inches wide, and are steel-faced. The Drill Standard and Spindle are steel. The Spindle is bored for Drills with ½ inch shank. With each Drill Press we furnish chuck to hold drills smaller than ¼ inch. One ¼ drill with ½ inch shank (as sample) is furnished with every complete Vise and Drill.

Weight of Anvil, Vise and Drill, 80 pounds	.....	Price, \$18 00
" " and Vise,	60 "	" " 10 00
" Drill Press.	20 "	" " 8 00

VISE AND DRILL.

INSERTED STEEL VISE JAWS.



The drilling attachment shown above is a duplicate of the one described on opposite page (18). The Vise has steel faced jaws, 3½ inches wide, which are offset so as to entirely overhang the screw box.

For many purposes this design will be found exceedingly convenient.

Weight of Offset Vise and Drill, 61 pounds	.....	Price, \$15 00
" " " " alone,	41 "	" " 7 00
" " Drill Press,	20 "	" " 3 00

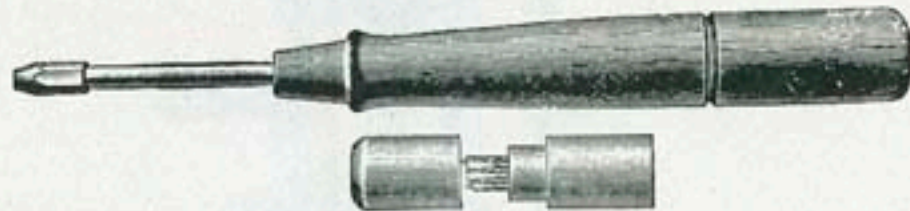
DIAMOND DRILL POINTS.



The cut represents the exact size of the drill points.

Price for set of six drills, in a box25 cents

GRAVES' AUTOMATIC DRILL STOCK, No. 1.



This is a most complete tool for bracket saw work. The stock is made of Cocobola wood with steel spindle. The drill points are fastened by means of a steel thimble, which screws on the end of the spindle. It is easily worked with one hand, and will drill the most delicate wood without danger of splitting.

Price, with 12 drill points, assorted.....per dozen, \$9 00

Put up one in a box.

GRAVES' AUTOMATIC DRILL, No. 2.



No. 2 is a larger size, with hollow handle, and includes a set of 8 Drill Points, the same style and sizes as shown with Automatic Boring Tools, page 21.

Price, with 8 Drill Points.....per dozen, \$18 00

Put up one in a box.

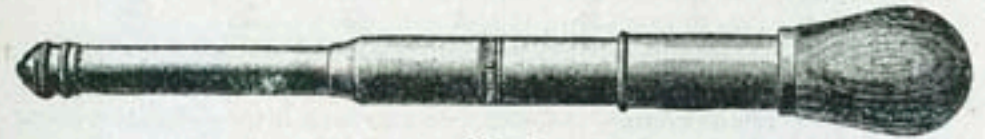
AUTOMATIC BORING TOOLS, Nos. 3, 4, 5, 6 and 7.



No. 3



No. 4.



No. 5.



Nos. 6 and 7.

These tools are perfect in both quality and finish.

- No. 3 All metal handle with 8 points.....per dozen, \$14 00
- No. 4 Cocobola handle with cells for the 8 points....." " 18 00
- No. 5 Solid Cocobola handle and 8 points....." " 14 00
- No. 6 Cocobola handle with separate cells for points, and device for releasing any one of the 8 points from handle without disturbing the other numbers....." " 20 00
- No. 7 Same as No. 6 excepting that it has stained handle instead of Cocobola....." " 18 00

Put up one in a box

BORING TOOL POINTS.



Price per set (8 points), 48 cents
 Price..... per dozen, 72 cents

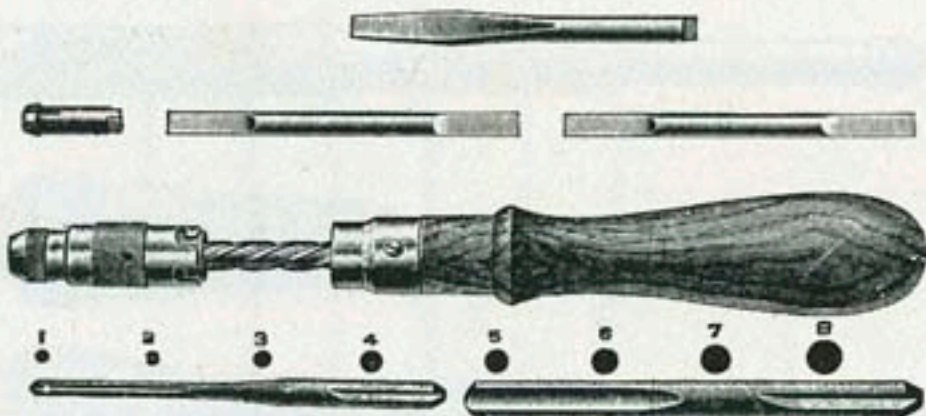
DRILL GAUGE.



With each Boring Tool a steel gauge is furnished, by the use of which one may determine the size drill point to use for any certain sized screw.

DIRECTIONS.—Get the size of the screw by seeing which hole in the gauge it fits and then use the next smaller size drill point.

AUTOMATIC SCREW DRIVERS, Nos. 11 and 12.

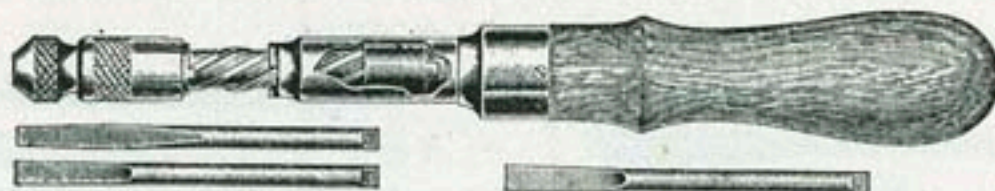


This tool is much like others of the same class, but it is more highly finished and better made than any heretofore put on the market. It has one addition, which is nearly indispensable for satisfactory work, that is a patent revolving sleeve which the left hand grasps when the tool is working. While this sleeve is a great advantage in driving screws, it also enables the tool to be used as an automatic drill. The only additional expense is for the drill points. There is also a locking device which prevents the screw driver from falling out of engagement when held perpendicular. All the metal parts are highly polished and heavily nickel-plated. The handle is of Cocobola. Full length extended 17 inches. The three screw driver bits which go with each tool are 4 inches long, and made to fit screws of varying sizes.

Price of No. 11, without Drill Points, but with 3 screw driver bits, per dozen.....	\$15 00
Price of No. 12, with 8 Drill Points and 3 screw driver bits, per dozen.....	\$21 00

Packed one in a box.

AUTOMATIC SCREW DRIVERS, Nos. 20 and 21.



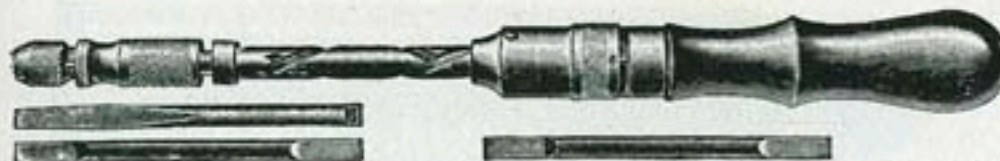
This Automatic Screw Driver possesses not only the merit of doing all that any other Automatic Screw Driver will do as a Plain, Ratchet, or Automatic Screw Driver, but also the advantage of being made with a cast interchangeable metal nut (as shown where cut away in the accompanying illustration), which can easily be replaced at small cost if in the course of time it should become worn.

These Screw Drivers are very durable, as well as elegant in appearance, being made from the best material throughout and highly finished.

Length No. 20, closed, 9 $\frac{1}{4}$ inches; extended, 13 inches.	
" " 21, " 10 " " 15 "	
Price, No. 20, with 3 Screw Driver Bits.....	per dozen, \$12 00
" " 21, " " " "	" " 14 00

Put up one in a box.

IN AND OUT SCREW DRIVER, No. 41.



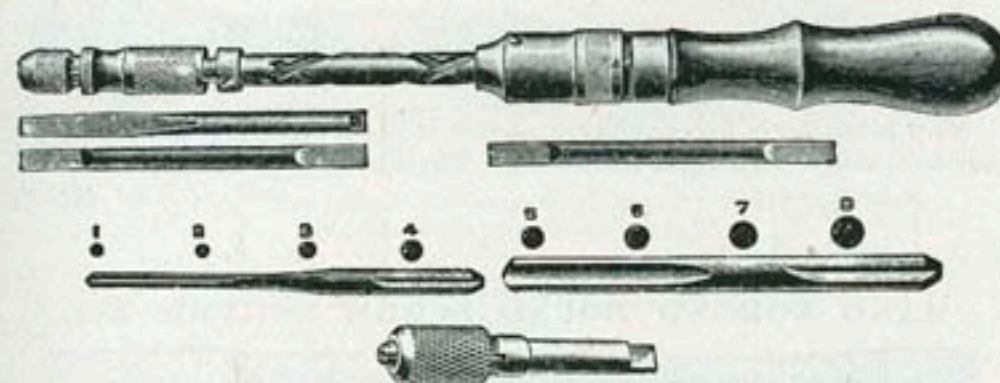
In producing this Reversible Screw Driver we have attempted to correct the faults of similar tools already on the market. One of the objections to those heretofore made, with grooves crossing each other, has come from wear at the points of intersection. In our No. 41, there is really no such point; one of the grooves, being deeper cut than the other, preserves the entire individuality of each. It is simple in construction and simple to operate, the mere turning of the shell near the handle shifting the movement from right to left or vice versa. By turning the shell half way it locks the spiral so that it can be used as an ordinary driver, and at different lengths. By using a mechanical device we have tested this tool against a resistance equal to driving a 1 $\frac{1}{2}$ screw. After giving it one hundred thousand movements or plunges we are unable to detect any wear.

With each tool we put up three bits, two of them double end, giving five points in all.

Price..... per dozen, \$18 00

Put up one in a box.

IN AND OUT SCREW DRIVER, No. 42.



Screw Driver No. 42, is same in every particular as No. 41, now so favorably known in the market, but has in addition a set of 8 Drill Points and a Chuck to hold them, as illustrated above.

By the use of these extras the Driver can instantly be converted into a Wood Boring Tool which will be found most satisfactory.

Price per dozen, \$24.00

RATCHET SCREW DRIVER, No. 1.



Ratchets right or left or can be made stationary. Whole length of handle 7 inches. The wood part is made of Cocobola and the metal parts are heavily nicked. Three Bits are furnished, one each 5, 7 and 9 inches long. These are also nicked.

Price, per dozen sets..... \$18 00

Extra Bits, each 20c.

Put up one set in a nice wood box.

RATCHET SCREW DRIVER, No. 2.

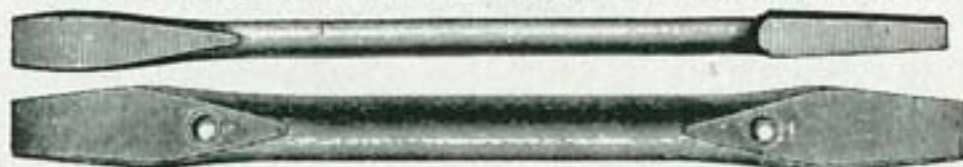


No. 2 is similar in finish and construction to No. 1, excepting that it has but one bit which is set solid in the handle. Whole length, 11 inches.

Price, per dozen..... \$12 00

Put up one in a paste board box.

HAND FORGED ROUND SCREW DRIVER BIT.



There is a special demand for a Screw Driver Bit which will stand a severe strain. These Bits are made to meet such want and the quality warrants the prices we charge for them.

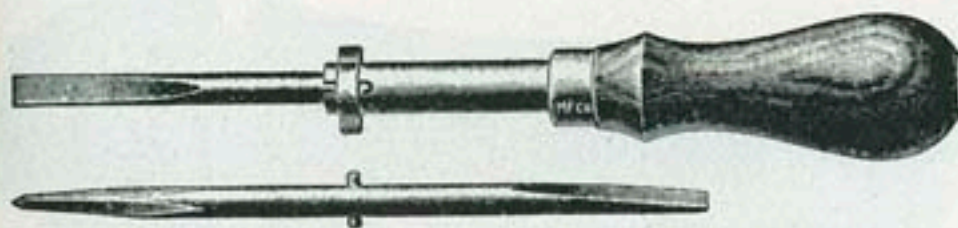
No. 1. 5 inches long..... per dozen, \$1 50

No. 2. 8 inches long..... per dozen, 2 00

No. 3. 6 inches long, Double-ended..... per dozen, 2 00

Put up 1 dozen in a box.

DUPLEX SCREW DRIVER, Nos. 1 and 3.



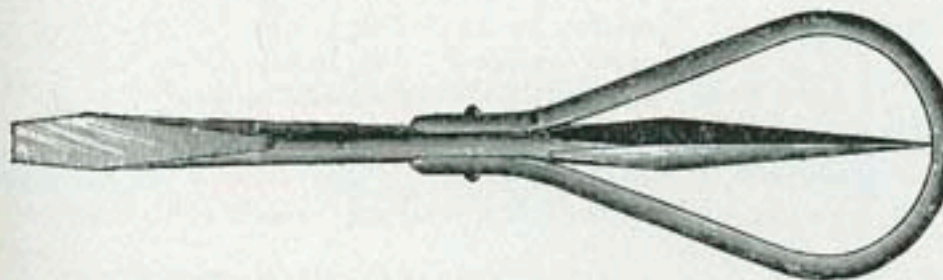
Generally when a Screw Driver is used, some tool is wanted to make a hole for the screw. This Square Reamer on the reverse end of the driver is better for that purpose than a gimlet or any other tool. The bit can be turned around instantly, so as to use either end. It is hand forged, carefully tempered, polished and nickel-plated. Put up one in a box.

Price, complete, No. 1, Cocobola Handle..... per dozen, \$4 80

Price, complete, No. 3, Maple Handle..... " 3 60

Bits alone, to fit Handle..... " 1 80

DUPLEX SCREW DRIVER, No. 2.

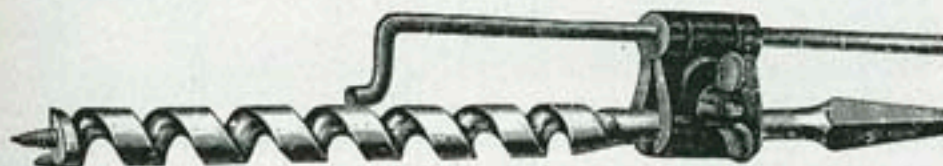


Screw Driver and Reamer combined. Both Bit and Handle made of tempered steel, polished and nickel-plated. Whole length 4 inches.

Price..... per dozen, \$3 00

Each Tool in a Leather Case.

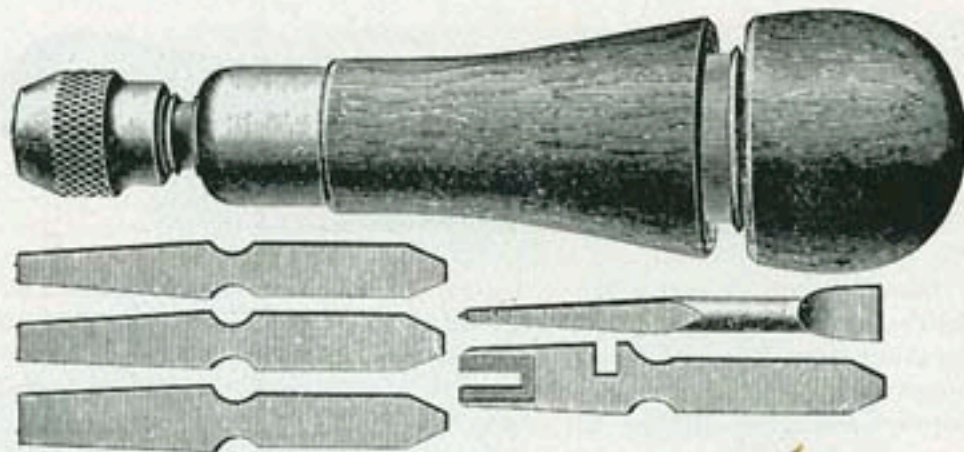
BIT GAUGE



This cut shows the gauge in all of its parts. It will be seen that one bolt with thumb-screw tightens the clamps on the gauge spindle and auger bit at the same time. It will fit any size bit and exactly gauge the depth of hole to be bored. Put up 1/2 dozen in a box.

Price..... per dozen, \$3 00

HANDY SCREW DRIVER, No. 49.



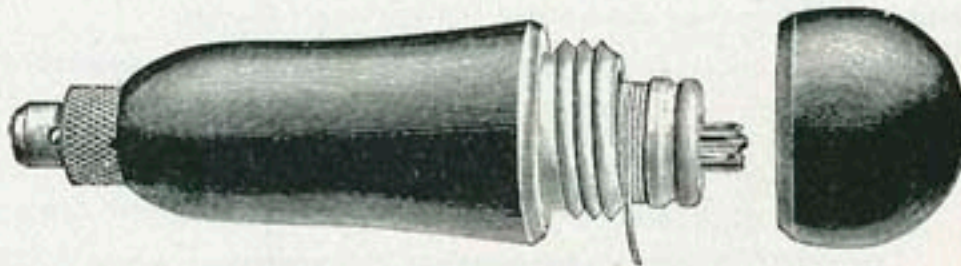
We herewith illustrate a very convenient Magazine Screw Driver. The handle is made from stained Maple with nickel-plated Chuck. Equipped with Three Sizes of Best Steel Blades.
 One Combination Bicycle Nipple Screw Driver and Wrench.
 One Square Reamer.

Length of handle only $4\frac{3}{4}$ inches.
 Length of blades, $2\frac{1}{4}$ inches.
 Whole length, with blade in position, 6 inches.

Price, per dozen..... \$6 00

Put up six in a box.

CRISPIN'S AWL.



This is a tool for everybody. It has a hollow, ebonized handle, five inches long, and weighing three ounces. It contains inside, on a spool, fifty feet of best waxed linen shoe thread. The spool is also hollow, and contains three awls and five needles of various shapes and sizes. The thread fits the needles and the awls fit the handle. It is for use in the house, stable, field, camp or on the road, for making immediate repairs, when one use of it will be worth more than its whole cost.

Price, per dozen..... \$3 00

Put up one dozen in a box.

STAR CHUCKS, Nos. 5, 6 and 7.



The Chuck illustrated above has three steel jaws carefully adjusted in a socket to keep them in place and so arranged as to open and close with the loosening or tightening of the Chuck upon the spindle.

This is a thoroughly good and substantial Chuck at a low price. Handsomely polished and nickel-plated.

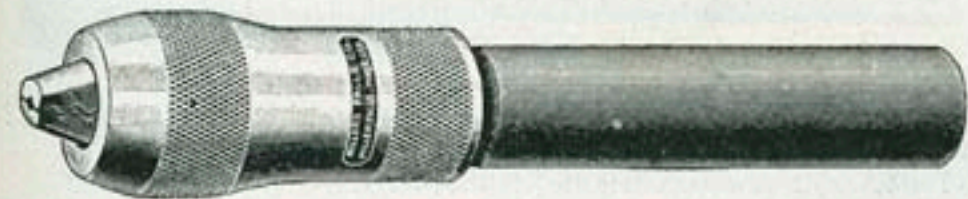
No. 5 holds from 0 to $\frac{1}{4}$ inclusive;	has shank $1\frac{1}{2} \times \frac{1}{2}$.	Price, each, \$1 00
No. 6 " " 0 to $\frac{3}{8}$ " " "	$3\frac{3}{8} \times 41-64$.	" " 1 50
No. 7 " " 0 to $\frac{1}{2}$ " " "	$4\frac{1}{2} \times \frac{3}{8}$.	" " 3 00

Packed one in a box.

NOTE.—We can furnish No. 5 Chuck with 41-64 shank, No. 6 Chuck with $\frac{1}{2}$ shank, and No. 7 Chuck with $\frac{1}{2}$ or 41-64 shank, instead of as listed above, without additional charge. Special shanks, straight or taper, to order at 50c. extra.

In ordering taper shanks, be careful to advise us as to the exact taper wanted.

BARBER LATHE CHUCK.



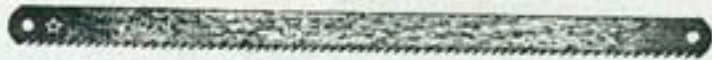
This tool is provided with a B. I. Brace Chuck, and has a solid steel shank 15-16 x 4.

Special Shanks, straight or taper, to order at 50c. extra.

Price..... per dozen, \$18 00

Put up one in a box.

STAR HACK SAW BLADES.



We very much doubt if there is another article of any kind made which shows more constant and marked improvements than the STAR Blade. One secret of our success on this line is, that we have never yet said "good enough." The blades turned out at the time our No. 27 Catalogue was issued were excellent, but those which we are now offering are far better.

Note.—Bear in mind that every genuine STAR blade is stamped with a ★ For ordinary work blades with 14 teeth are furnished, but for cutting thin tubing or thin sheets of metal those with 24 teeth should be used. We make them with 14 and 24 teeth in all lengths, 6 to 12 inches. Both kinds have our patent set.

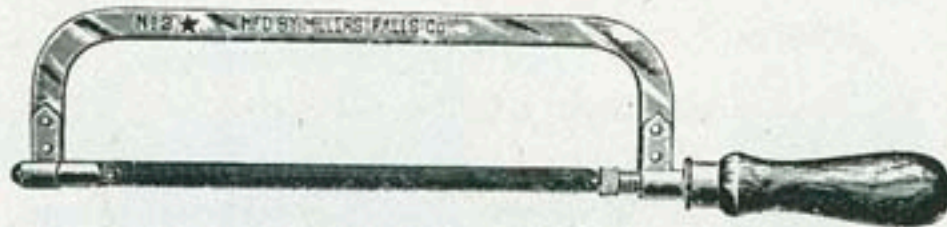
In filling orders we furnish blades with 14 teeth, unless they particularly specify 24 teeth, or fine.

N. B.—Blades and Frames are in all cases billed separately

Length of Blade, inches,	6	7	8	9	10	11	12
Price, per dozen.....	\$.55	\$.60	\$.65	\$.70	\$.85	\$.95	\$1.05
Price, per gross.....	6.60	7.20	7.80	8.40	10.20	11.40	12.60

Put up 1/2 gross in a box.

PATENT STAR HACK SAW FRAME, No. 2.



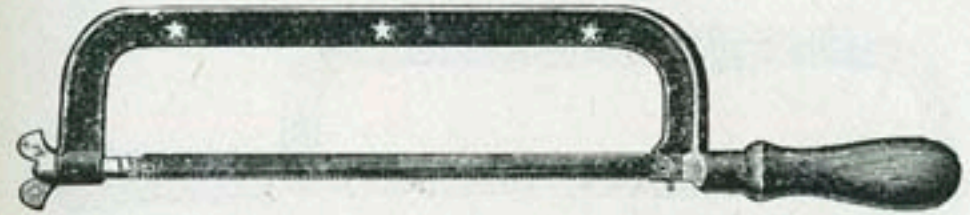
No. 2, Solid Frame, to hold 8-inch blades only and face them in four directions. Polished and nickel-plated. Cocobola handle. For descriptions about straining, etc., see No. 6.

Price..... per dozen, \$8 40

Put up one in a box.

PATENT STAR HACK SAW FRAMES

Nos. 4A and 4B.

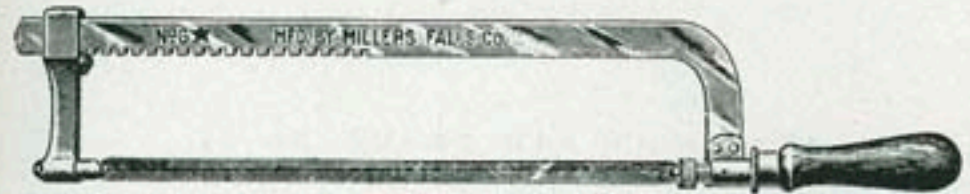


This No. 4 is a Patent Cast Iron Frame, and so constructed as to face blades in four different directions. The pins which hold the blade are fast in the frame and cannot drop out. It is a very stiff and desirable Frame with Japan finish.

No. 4A, for 8-inch blades per dozen, \$3 00
 No. 4B, for 9-inch blades..... 3 00

Put up six in a box.

STAR HACK SAW FRAME, No. 6.



Frame No. 6 is stiff and strong. It is highly polished, heavily nickel-plated, has a Cocobola handle, and will face blades in four directions. Adjustable to take blades from 6 to 12 inches. Our present method of straining blades by simply turning the handle will be found a great improvement over original pattern with winged nut. Note the ring which turns down over end of the blade, and prevents the latter from falling off the pin when adjusting.

Price..... per dozen, \$12 00

Put up one in a box.

STAR HACK SAW FRAME, No. 9.

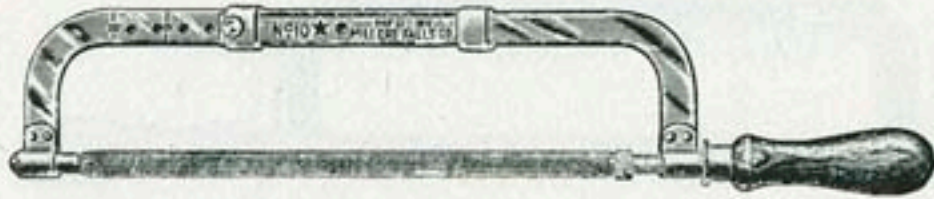


This Frame holds blades from 8 to 12 inches in length. It is an Extension Frame covered by a steel sheath, as shown in the cut. The sheath makes it very stiff, and at the same time very light. It is polished and nickel-plated. The blades may be faced in either direction. For description about straining, etc., see No. 6.

Price..... per dozen, \$12 00

Put up one in a box.

STAR HACK SAW FRAME, No. 10.

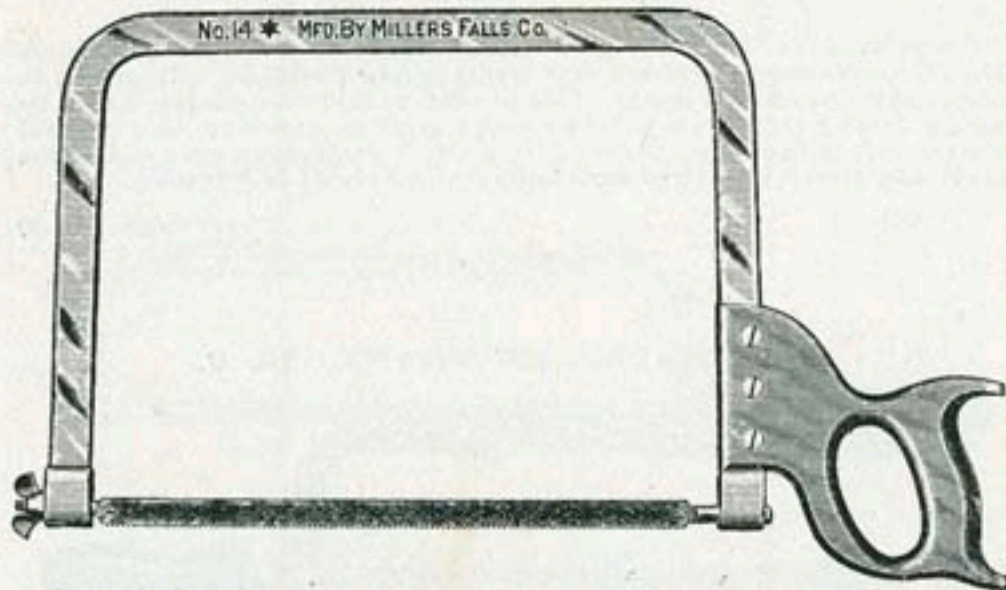


We offer this as the best Extension Frame in the market. It is light and quickly adjusted, having strength in the middle, where strength is needed. It is made of tempered steel, polished and nickel-plated. The handles are Cocobola wood, highly finished.

It carries blades 6-7-8-9-10-11 and 12 inches long, and is marked for the different lengths. For description about straining, etc., see No. 6.

Price .. per dozen, \$12 00
Put up one in a box.

STAR HACK SAW FRAME, No. 14.

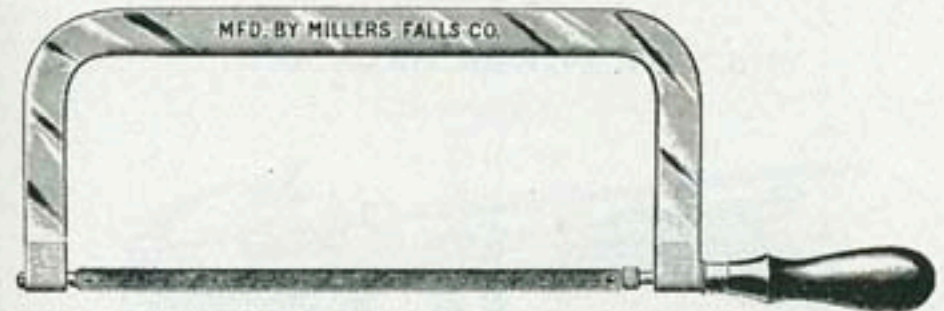


Frame No. 14 is adapted for large work, such as cutting off rails, beams, etc. The back is polished and nickel plated, and the handle Beech wood. Measurement between back and saw points, 10 1/4 inches.

Carries 12-inch blades.

Price .. per dozen, \$18 00
Put up one in a paste board box.

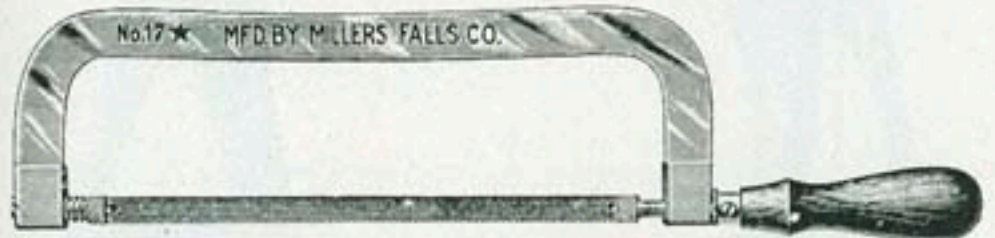
STAR HACK SAW FRAME, No. 15.



For 12 inch blades only. The back of this Frame is made from heavy, stiff stock and will stand any necessary strain. Measurements between the back and points of the blade 5 1/4 inches. Size of the handle conforms to dimensions of the Frame. Polished and nickel-plated.

Price.....per dozen, \$15 00
Put up one in a box.

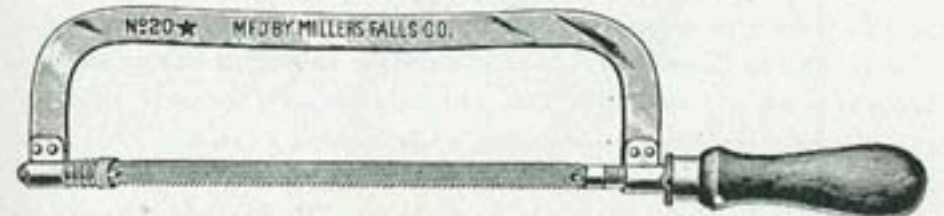
STAR HACK SAW FRAMES, Nos. 17 and 18.



Nos. 17 and 18, are same in pattern as No. 20, described below, but have still heavier backs in proportion to their additional length. They are polished and nickel plated and have hard wood handles, stained in imitation of Cocobola.

No. 17, arranged for 9 and 10 inch blades per dozen, \$10 00
No. 18, " " 11 and 12 " " " " 12 00

HACK SAW FRAME, No. 20.

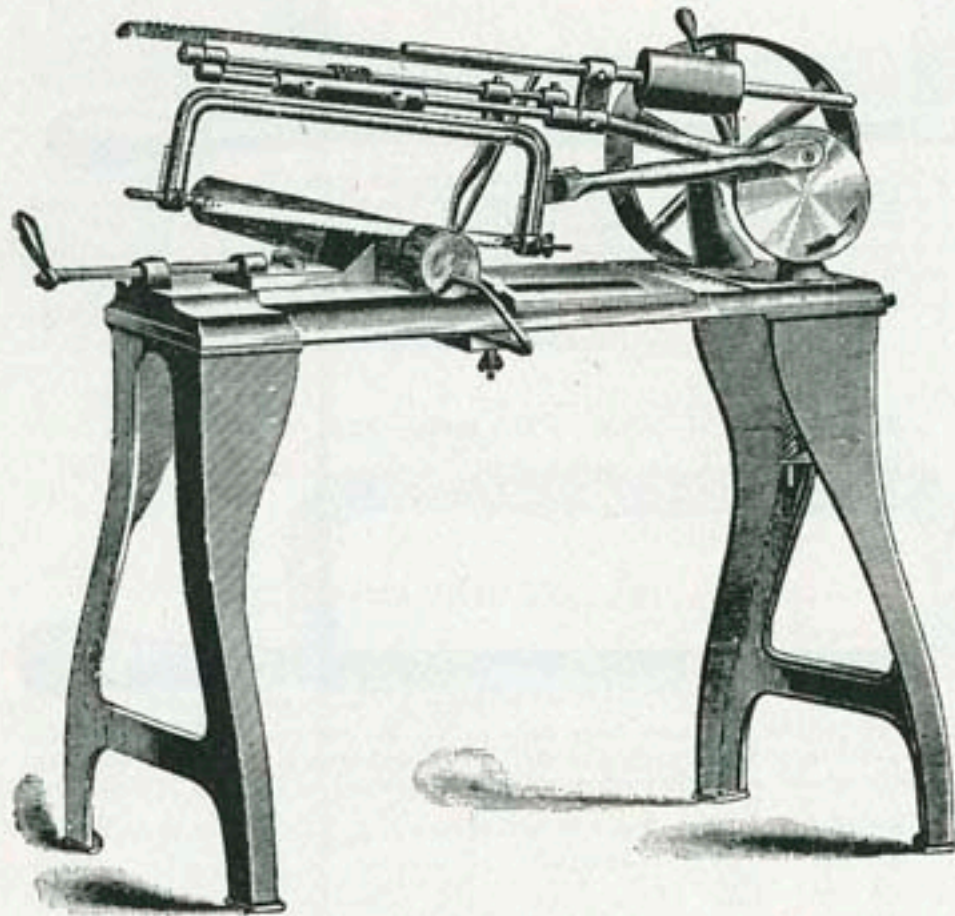


Long experience in supplying Hack Saw Frames has taught us that those with heavy, stiff backs give best satisfaction, and that there is a rapidly increasing demand for such Frames. Consequently we have added to our variety No. 20, which conforms to the specifications noted. The device to prevent the blade from slipping off pin when adjusting it will be found very convenient.

No. 20 is arranged to take both 8 and 9 inch blades. It is nickel-plated, with Cocobola handle.

Price.....per dozen, \$9 00
Put up one in a box.

THE STAR POWER HACK SAW.



Probably there is no more popular or satisfactory machine of any description made than the Star Power Saw, as per illustration above. It adapts itself to all kinds of work and cuts all shapes and sizes up to 4½ inches in diameter. It is self-feeding, requiring no attention while making a cut, and stops automatically when the work is completed. Blades used in the Star Power Saw get fair treatment and the saving made in them in this way will soon pay for a machine when there is much work to be done. It is arranged for blades either 10, 11 or 12 inches in length.

Six 12-inch Blades are furnished with each Machine.
 The speed recommended is 45 strokes per minute.
 Size of Pulley 13½ x 2½ inches. Net weight 168 pounds.

Priceeach, \$25 00

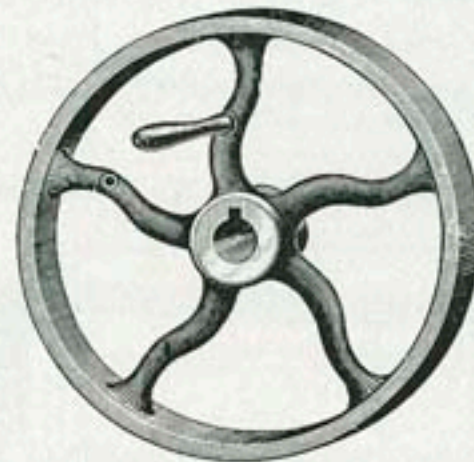
BAR REST.



To be used in connection with Power Saw to support long pieces to be cut. It is adjustable to various heights.

Priceeach, \$1 50

HAND WHEEL FOR POWER SAW.

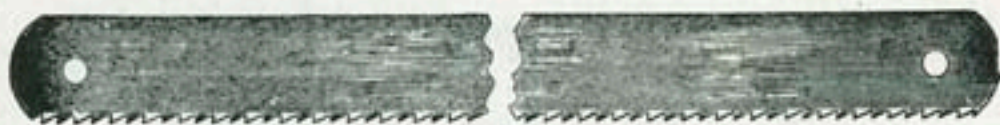


We are occasionally asked for Power Saws to be run by hand power. For such work we furnish a heavy drive wheel, and while we do not claim the work can be done faster than with the ordinary hand saw frame, it can be done more easily, and with saving of blades.

Price of Machine with Hand Wheel..... \$27 50
 " Hand Wheel only..... 4 50
 " Pulley only..... 2 00

Any of our Machines can be used with either Hand Wheel or Pulley.

STAR BUTCHER ★ SAW BLADES.



Don't waste time or money in having Butcher Saw Blades refiled when you can buy a new Star Blade for less than the cost of one filing. Star Blades are not intended to be refiled, they are made hard enough to do three or four times as much work before becoming dull as the ordinary blade is capable of doing under same conditions.

Supposing you have paid for forty filings in doing the amount of work that one dozen Star Blades will accomplish, then how much are you out? Consider also the convenience of always having sharp saws at hand.

Made in widths of 1/2 and 11-16 inch.

The 1/2 inch have 14 teeth to the inch.
 " 11-16 " " 9 1/2 " " " "

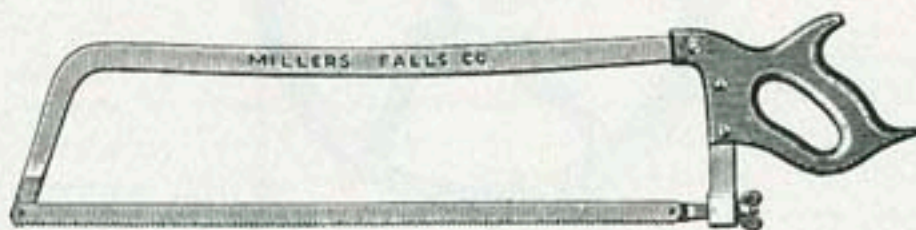
Both widths No. 24 gauge.

Length of Blade.....	14	16	18	20	22	24	26 inches
Price, per dozen.....	\$1 08	\$1 08	\$1 20	\$1 20	\$1 33	\$1 33	\$1 44
" " gross ...	12 96	12 96	14 40	14 40	15 84	15 84	17 28

Put up 1/2 gross in a box.

N. B.—When widths are not specified on orders we send 11-16

STAR BUTCHER SAW FRAMES



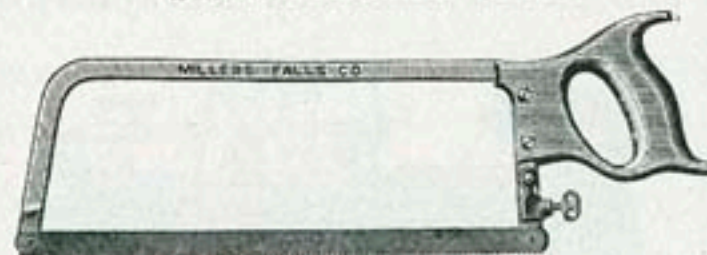
Flat crucible steel backs, tempered and polished, Beech handle, polished edges, three nickeled screws

PRICE WITHOUT BLADES.

Inches.....	14	16	18	20	22	24	26
Per dozen.....	\$11 00	\$12 00	\$13 00	\$14 00	\$15 00	\$16 00	\$17 00

Put up 1 3 dozen in a box.

STAR KITCHEN SAW.

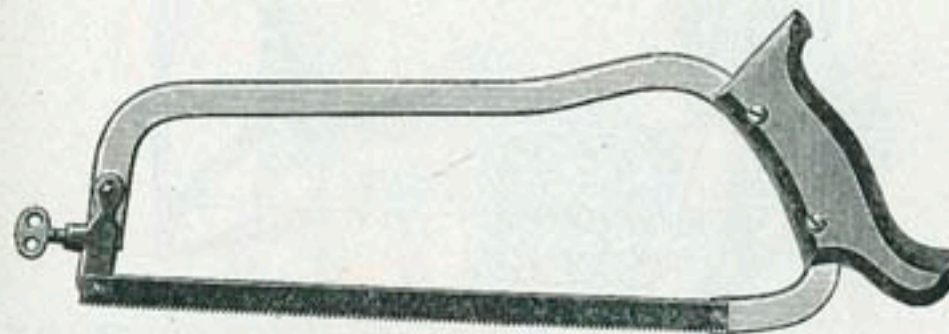


Steel Frame polished, with Beech Handle. It has what most other kitchen saws do not have—an arrangement for straining the saw, which adds much to its value.

Price of 14 inch frames, with one blade.....	per dozen,	\$4 00
" " 14 " blades	"	1 08

Put up 1/2 dozen in a box.

STAR DEHORNING SAW.

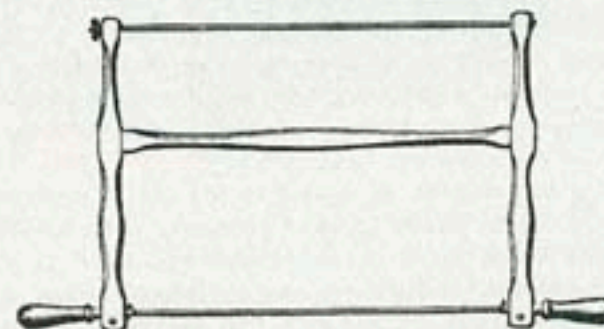


Steel frame with rough nickel finish. It has a beech handle, and star blade 10 inches in length.

Price.....per dozen,	\$5 00.	Extra blades.....per dozen,	85 cents.
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Put up 1/2 dozen in a box.

TURNING SAWS,

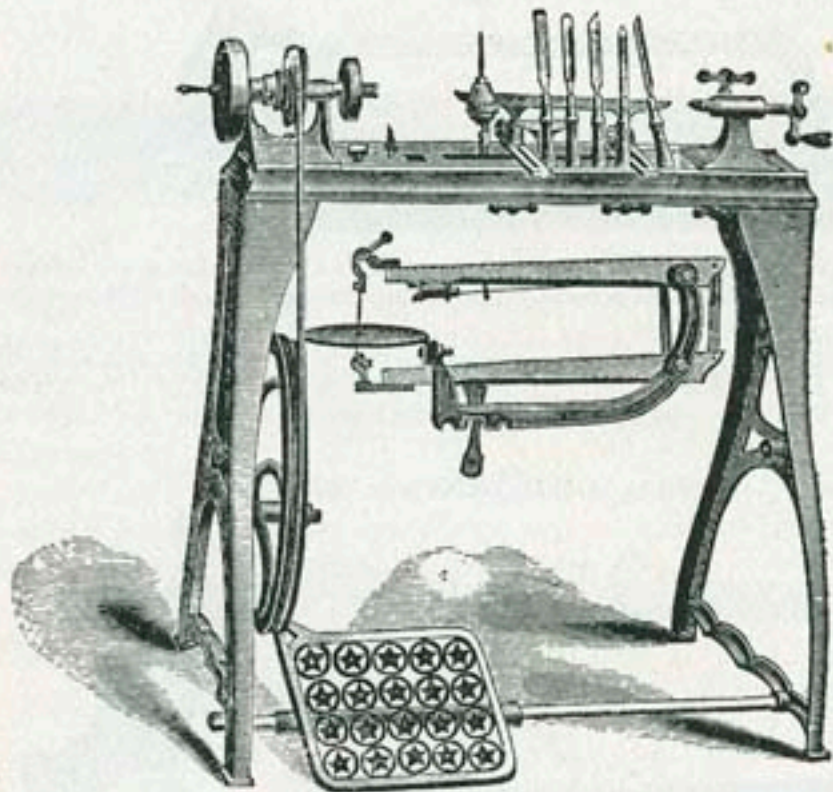


This frame is made of Birchwood, with ebonized handles. There is an index on each handle, to show the operator just how far to turn them. The friction is regulated by screws. It is quite superior to most other kinds in the market.

14-inch Frame, with blade complete...	per dozen,	\$11 50
18 " " " "	"	12 00
14 " Blades.....	"	1 60
18 " " " "	"	2 00

Other lengths made to order when required.
 Put up one in a box.

GOODELL LATHE AND SAW ATTACHMENTS.



This Lathe is patterned almost exactly after the latest improved lathes now used in the best machine shops and pattern makers' rooms. The large driving wheel has two grooves of varying depths on its face, to give a change of speed, as the belt runs from it to the cone pulley on the lathe head. The lathe head is provided with a two-inch face plate, a spur center, a screw center for turning cups, and also a very nice drill chuck to hold from 1-32 to 1-4 inch round twist drills for drilling wood or iron. It also has on the outer side of the pulley a $4\frac{1}{2} \times \frac{3}{8}$ inch emery wheel and a drill spindle, with chuck to hold drill points for wood drilling. The tail stock has a screw-feed center, which is secured at any point desired by a clamping arrangement like that on the modern engine lathes. It is also provided with a long and short tool rest, five turning tools, wrench, drill points, etc., etc. Swing of Lathe, 5 inches. Length of bed, 24 inches. Distance between centers, $13\frac{1}{2}$ inches.

The Scroll Sawing Attachment, as shown in the cut, is secured to the lathe bed by one bolt, and can be put on or off at pleasure. This attachment has all of the improvements found in any of our scroll saws.

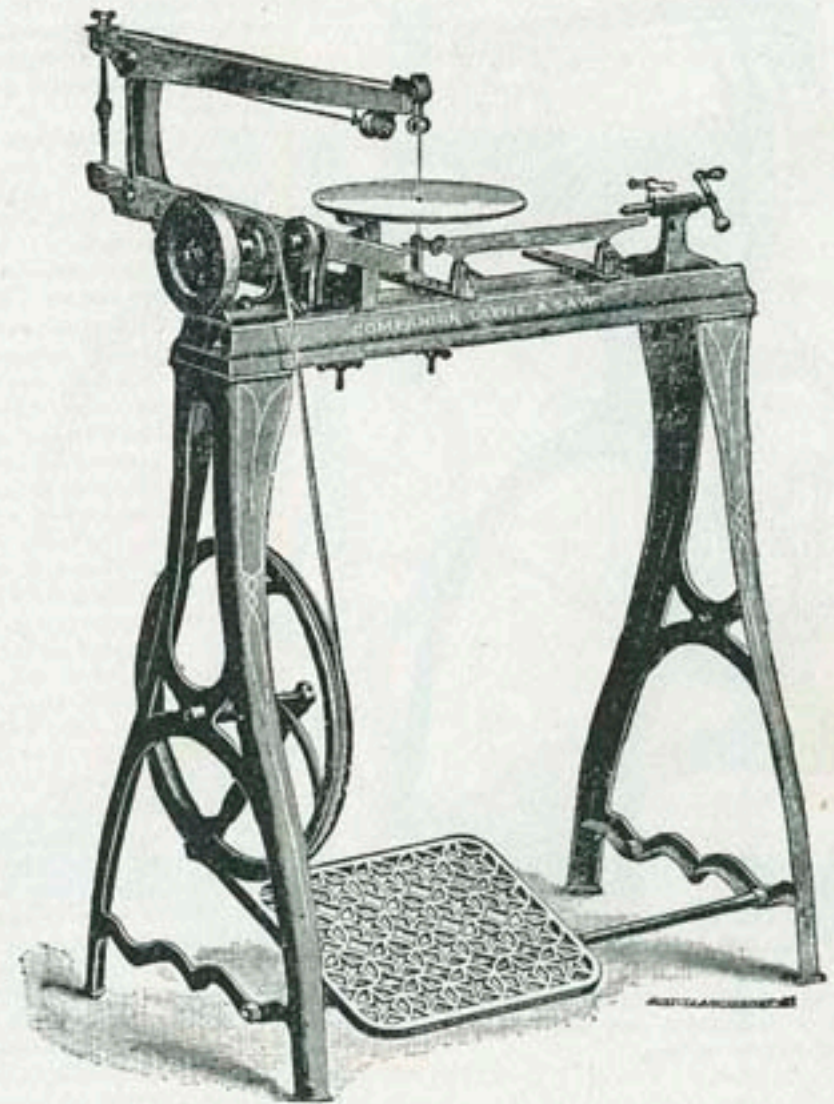
The Circular Attachment consists of a saw table 6 x 7 inches, a saw 3 inches in diameter, and a saw arbor. The Lathe rest socket is used to support the table.

This Lathe is thoroughly built and highly finished, the polished parts being nickel-plated. Weight, 56 lbs.

Price of Lathe and Lathe Tools.....	\$10 00
“ Scroll Saw Attachment	1 50
“ Circular Saw Attachment	1 00

In ordering please state whether either or both of the saw attachments are wanted. For parts and prices see page 44.

COMPANION LATHE AND SAW ATTACHMENTS



The Companion Lathe is built on same castings as the Goodell described on page 36, but it is not so highly finished. Neither do we furnish chuck with this Lathe or more than three Turning tools.

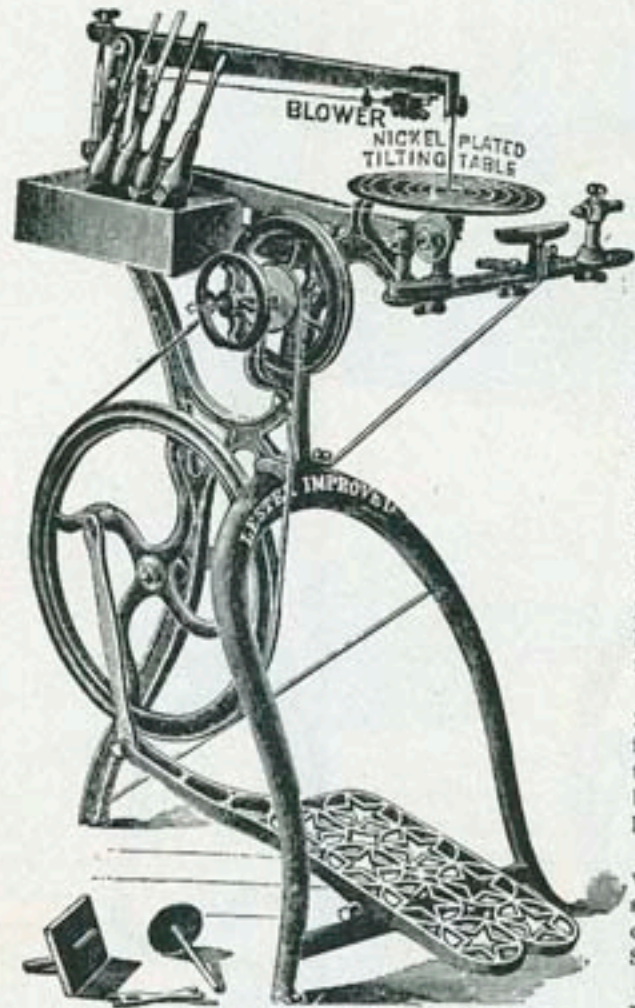
Thousands of them have been sold, and so far as we know none have failed to give satisfaction.

Price of Lathe and Tools	\$7 00
“ Scroll Saw Attachment	1 50
“ Circular Saw Attachment, same as described on opposite page	1 00

State in ordering if either or both attachments are wanted.

For parts and prices see page 44.

LESTER IMPROVED SAW.



This machine is adapted alike to the use of either amateurs or mechanics, and will be found very convenient in pattern making.

The following parts are supplied with each machine, viz.: Twelve Saw Blades, One Wrench, Screw Driver, Three Sheets of Designs, and a nice box for the small tools.

When shipped it is taken apart and packed in a box, but can easily be set up by following the directions accompanying each machine.

Price of Saw and Lathe Complete.....\$10 00

Price for the Saw only, without Lathe and Circular Saw..... 8 00

When desired we furnish with the Lathe a very nice Drill Chuck for working metals and a Tail Stock with Screw Center, for.....Extra 2 00

We also furnish a larger TABLE FOR CIRCULAR SAW, 6 by 7 inches, provided with a guide for sawing straight edges, for.....Extra 50

For parts see page 45.

The Lester Saw is made of iron and steel, except the Pitman and Arms, which are ash. The IRON WORK is nicely japanned black with stripes of red and gilt. The WOOD WORK is varnished, bringing out the beautiful grain of the ash.

The DRIVING-WHEEL is 15 inches in diameter, and weighs 13 pounds. The TREADLE is made of IRON, from a new and handsome pattern.

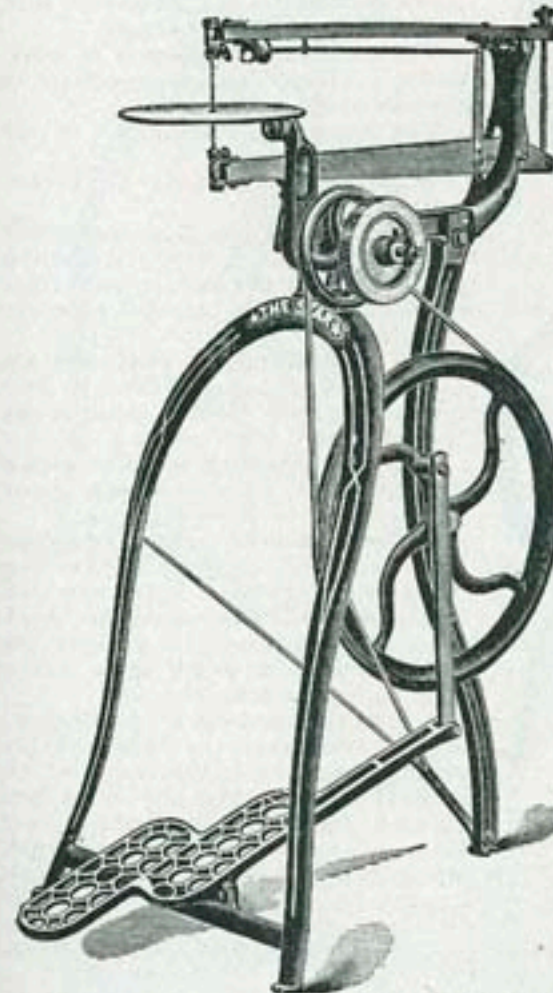
THE SCROLL SAWING ATTACHMENT is provided with a TILTING TABLE for inlaid work, the arms swinging 18 inches in the clear. A Dust Blower which works automatically. The clamps will hold the coarsest or finest saw perfectly, while they are made adjustable to the right or left, or backwards and forwards, so that the blade may be kept in line. This saw will cut lumber from one-sixteenth inch to one-half inch in thickness.

THE CIRCULAR SAW ATTACHMENT consists of a saw three inches in diameter, and an iron table, three by four and one-half inches. This saw will cut lumber up to one-half inch.

The machine is also furnished with a SOLID EMERY WHEEL and DRILLING ATTACHMENT, accompanied by six best Stubbs Steel Drills of assorted sizes.

THE LATHE ATTACHMENT is provided with iron ways and rests, steel centers, and three fine steel turning tools. Length of bed, 15 inches. Distance between centers, 9 inches. Swing, 3 inches. Length of slide rest, 4 inches.

THE STAR SCROLL SAW.



Our attention having been called to the demand for a Machine of a little higher grade than the Rogers Saw, we now offer the Star to meet this want. The peculiar advantages of the Star over the Rogers may be summed up as follows:

1. In method of hanging the Arms, giving them free and easy movement.
2. In adjustment of Arms so that they may be kept parallel with each other.
3. Heavier Drive Wheel for heavier work.
4. Two Balance Wheels, one each Iron and Emery, the extra weight of additional Wheel giving steadiness to the motion.
5. The Emery Wheel is fastened by adjustable Clamps which can also be used for

holding various other sizes of Emery Wheels, Grindstones, Buffering Wheels, etc.

To adjust the Arms all that is necessary is to loosen the Bolt which goes through the Upper Arm in front of casting, and crowd the Arm sideways either to right or left, and into line with the lower one; the hole in casting is elongated to permit of change in position as described. The Table is nicked, and the general finish of the Saw same as other Machines made by ourselves. It weighs, net 37 lbs. and boxed 55 lbs.

Price.....each, \$5 00

For parts see page 46.

THE NEW ROGERS SAW.



The entire frame work of the Rogers Saw is made from iron, painted and japanned black, and ornamented with red and gilt stripes.

The arbors, etc., are made of steel, and are carefully gauged and fitted to their bearings.

The Arms and Pitman are of the best SELECTED ASH.

ALL PARTS ARE MADE TO INTERCHANGE.

While our Jig Saw possesses EVERY IMPROVEMENT and ADVANTAGE CLAIMED for any other in the market, we further claim the following points of superiority, viz.:

1. The BEARINGS TO THE ARMS are carefully sized to bring them in perfect line. (This is a vital point in the construction of any Jig Saw)

2. We provide each machine with a DUST BLOWER, which is a very GREAT ADVANTAGE.

3. Our machine has a JOINTED Stretcher Rod, which allows the operator to throw the upper arm out of the way when adjusting his work or saw. This joint also permits the machine to work much more freely than with a straight iron rod.

4. Our clamps have a HINGED JAW, which overcomes the disagreeable raking overthrow of the blade, which is unavoidable when the saws are secured rigidly to the arms. Saw blades are not nearly so liable to break when clamps have this joint. Thus a LARGE PERCENTAGE of the EXPENSE of running the saw is saved. Besides

this the saw runs MUCH EASIER, the swing coming at the HINGE instead of bending the blade at each stroke of the saw.

5. Our attachment for DRILLING is on the RIGHT HAND side of the machine, which for convenience, is an obvious advantage.

6. We use NO PINS in the construction of our machine, but prefer the durability of nicely fitted SCREWS and BOLTS in securing each part.

7. Each machine is SET UP and RUN and CAREFULLY INSPECTED before leaving our works. It is then taken down and shipped in boxes.

These points of superiority are neither possessed by nor claimed for any other cheap saw.

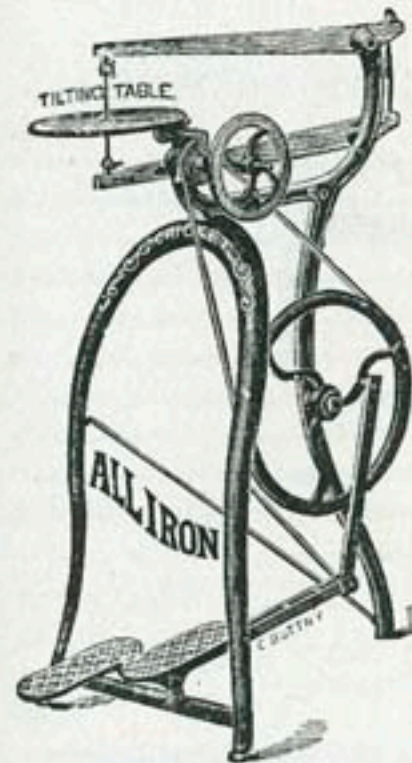
While the NEW ROGERS SAW is very rich, though not gaudy in appearance, it has been more especially our object to make, for the least possible money, a saw characteristic for its Compactness, Strength and Durability, ease of action, and firmness when in operation.

With each machine we give 12 Saw Blades, Wrench, Sheet of Designs, and Three Drill Points. The Saw alone weighs 25 lbs.; Saw and Box together, 42 lbs.

Price of No. 1 Rogers Saw \$3 50
 " No. 2 " " with Balance of Emery instead of Iron, and with Tilting Table Nickeled instead of Japanned, 4 00

For parts see page 45.

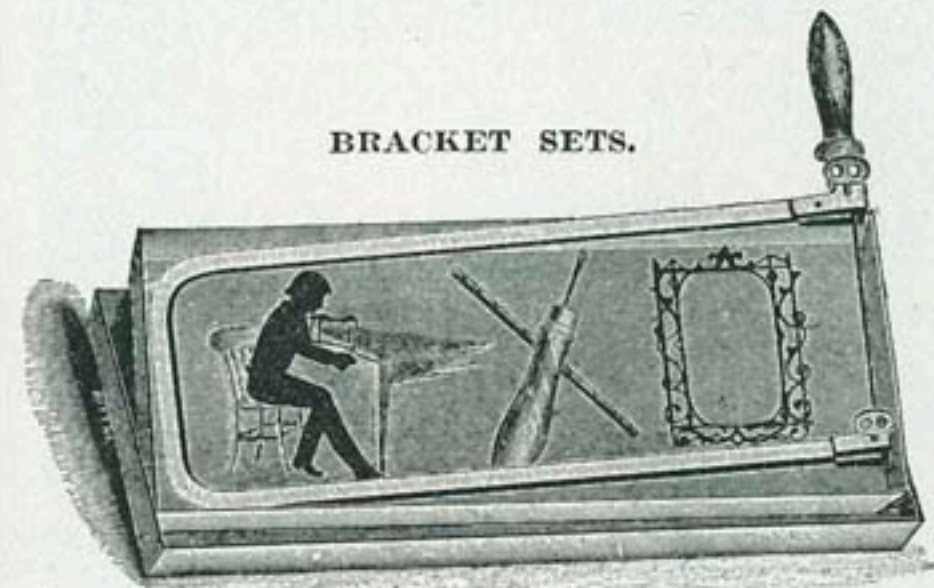
CRICKET SAW.



To meet the demand for a cheap and good Foot Power Saw, we have made an all-iron machine which we offer for \$2.50. The finish is the same as our Lester and Rogers Saws. It has an Iron Tilting Table, Second Growth Ash Arms, eighteen inches long, Improved Clamps, etc. Weight of Saw, seventeen pounds; weight when boxed, thirty-five pounds. Boxed for shipping without extra charge.

Price..... \$2 50

BRACKET SETS.



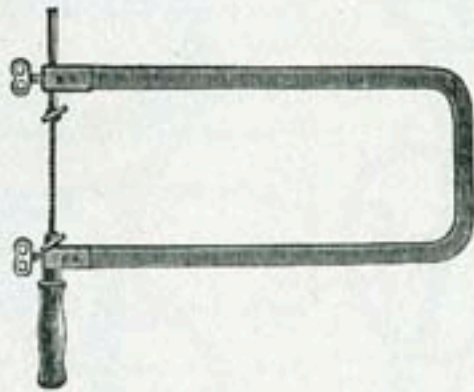
No. 1. Pleasure and Profit Set, frame rough nickeled, with Japanned handle, box same size and same contents as No. 2.

Price per dozen, \$10 00

No. 2. These sets are packed in paper boxes, and embrace a Spring Steel Saw Frame, polished and nickel plated, 5 x 12 inches, having patent Clamps for holding the Saw blades and rosewood handle, three sheets of designs, embracing a great variety of fancy and useful articles; twelve Saw Blades, one Awl, one sheet of Impression Paper.

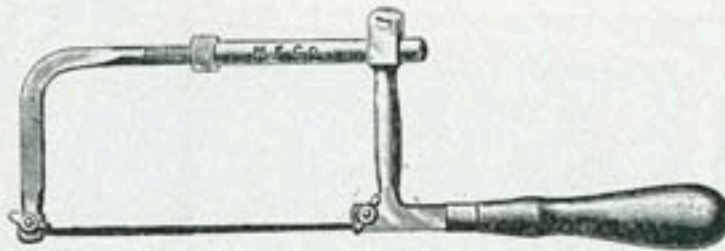
Price..... per dozen, \$15 00

SPRING STEEL BRACKET SAW FRAMES.



8 inch.....	per dozen,	\$13 20
10 ".....	"	14 40
12 ".....	"	15 60
14 ".....	"	16 80
16 ".....	"	18 00

JEWELERS' SAW.



This Saw is made of forged spring steel, with Cocobola handle. It is nicely polished and nickel-plated, and will hold saws from four to six inches in length.

Price.....per dozen, \$9 00

Put up 1/2 dozen in a box.

JEWELERS' SAW BLADES.

Nos. 000 to 6, inclusive.....per gross, \$1 25

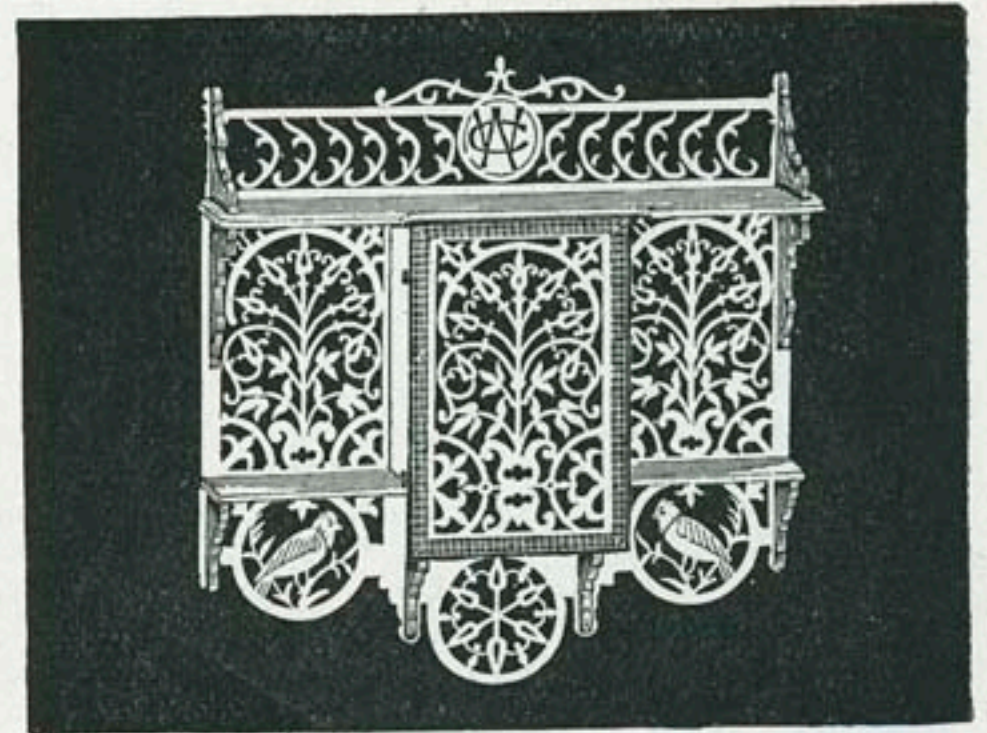
STAR BRACKET ★ SAW BLADES.

Are now demanded in quantities from most remote countries. They have no equals for speed, durability, uniformity, and smoothness of work.

1	.....		Per Gross.
2	.....	
3	.....	Nos. 000 to 6.....	\$1 00
4	.....	" 7.....	1 10
5	.....	" 8.....	1 20
6	.....	" 9.....	1 40
7	.....	" 10.....	1 40
8	.....	" 11.....	1 50
9	.....	" 12.....	1 60
10	.....	

Put up 1 gross each size in a package and 10 gross in a box. Also put up in grosses, assorted Nos. 1-6 and 10 gross in a box.

DESIGNS FOR SCROLL SAWING, CLOCK MOVEMENTS, ETC.



Wild's Latest, No. 215 Wall Cabinet.

We are publishers of Bowman's, Russell's and Wild's designs, comprising a large variety.

We also carry a stock of clock movements of a variety of styles and sizes, suitable for cases made from designs mentioned above; also mouldings for trimming cases, boxes, etc.

Catalogues, showing designs and mouldings in miniature and describing clock movements, will be furnished on application.

PRICE LIST OF FANCY WOODS.

PLANED TO THE FOLLOWING THICKNESS.	1-8 inch.	3-16 inch.	1-4 inch.
Black Walnut.....per square foot	10c.	11c.	12c.
White Holly....."	12	14	16
Poplar....."	4	5	6
Plain White Maple....."	5	6	8
Oak....."	9	10	12
Cherry....."	9	11	13
Mahogany....."	12	14	16
Bird's Eye Maple....."	12	15	16
Cocobola....."	16	18	20
Rosewood....."	20	25	30
Amaranth....."	16	20	25
Satin Wood....."	20	25	25
Tulip....."	30	40	50
Ebony....."	40	50	60

Prices of Goodell and Companion Lathe Parts.

NAME OF PARTS.	Companion.	Goodell.
Lathe Bed.....	\$0 75	\$0 75
Legs, each.....(2)	75	75
Treadles.....	50	50
" Rod.....	15	20
" Caps, each.....(2)	5	5
Driving Wheel.....	1 25	1 25
" Bolt.....	15	15
Emery Wheel.....	40	40
Head Block.....	20	25
" Spindle and Face Plate.....	25	25
" Spindle Cone Pulley.....	5	20
Tail Block.....	20	25
" Spindle and Crank.....	20	30
" Spindle Binder.....	10	15
Long Rest.....	20	30
Short Rest.....	10	15
Rest Sockets, each.....(2)	15	15
Spur Center.....	20	20
Screw Center for Cups.....	15	15
Star Chucks.....		2 00
Saw Attachment Arm Casting.....	50	50
Arms.....per pair	30	30
Table.....	60	60
Stretcher.....	15	15
Clamps.....per pair	25	25
Bolts.....	3	5
Turning Tools.....(5)		1 25
Turning Tools.....(3)	75	
Arm Bolts and Nuts.....	6	6
Belt.....	15	15
Drills.....per dozen	50	50
Drill Screws.....each	2	2
Pitman, Long.....	10	10
Pitman, Short.....	5	5
Pitman Screws.....	5	5
Screw Driver.....	25	25
Blower.....	25	25
Table Bolt.....	3	3
Wrench.....	6	6
Saw Guide (New Pattern).....	10	10
Arm Spring.....	5	5

LESTER SAW REPAIRS.

Arms, per pair.....\$0 30	
Arm Bolts and Nuts.....	6
Arm Spring.....	5
Balance Wheel.....	50
Belt.....	16
Brace.....	10
Circular Saw.....	25
" " Arbor.....	15
" " Table.....	12
Clamps, per pair.....	25
Drills, per dozen.....	50
Drill Screws, each.....	2
Drive Wheel Arbor.....	15
Drive Wheel.....	1 25
Emery Wheel.....	40
Frame.....	1 50
Front Leg.....	85
Lathe Bed.....	35
" Head Stock.....	25
" Tail Stock.....	16
" Rest.....	5
" Rest Socket.....	10
" Pulley.....	10
" Tail Center.....	10
" Spur.....	20
Lower Arm Guide.....	5
Locking Bolts.....	3
Pitman, Long.....	10
" Short.....	5
Pulley.....	10
Pitman Screws.....	5
Rest Socket Bolt.....	5
Saw Guide.....	10
Screw Driver.....	25
Scroll Saw Table, Nickel.....	65
" " " Japanned.....	40
" " " Guide.....	20
Spindle and Crank.....	20
Stretcher.....	15
Stove Bolts, each.....	2

Treadle Caps, per pair.....	\$0 10
Treadle.....	50
Tool Box.....	12
Blower.....	25
Table Bolts.....	3
Thumb Nuts.....	5
Thumb Screws.....	5
Turning Tools.....	75
Wrench.....	6

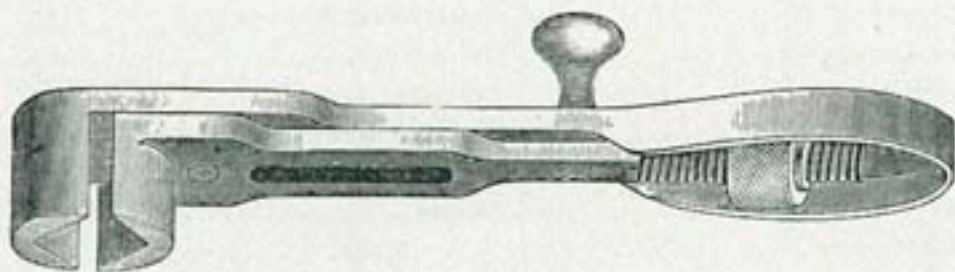
ROGERS SAW REPAIRS.

Arm Bolt.....\$0 02	
Arm Castings.....	40
Arms, per pair.....	30
Arm Spring.....	5
Back Leg.....	30
Balance Wheel, Iron.....	25
" " Emery.....	40
Belt.....	15
Brace.....	15
Blower.....	20
Crank and Spindle.....	20
Crank Screw.....	5
Clamps, per pair.....	25
Drill Screw.....	2
Drive Wheel Bolt and Nut.....	10
Drive Wheel.....	50
Front Leg.....	60
Headless Screws.....	2
Locking Bolt and Nut.....	5
Pitman.....	5
" Screw.....	5
Pulley.....	10
Saw Guide.....	10
Stretcher.....	15
Stove Bolt.....	2
Table, Nickel Plated.....	60
" Japanned.....	40
Table Bolt.....	3
Treadle.....	25
Wrench.....	6

PARTS OF STAR SCROLL SAW AND PRICES.

Arm Casting	\$0 25	Drive Pulley	10
" Adjustment, upper arm	15	Drive Wheel Arbor, complete...	15
" " lower arm	15	Emery Wheel.....	40
Arms, per pair.....	30	Emery Wheel Arbor, complete..	10
Arm Pin.....	02	Front Leg	73
Arm Bolt 1 x 1/4 Round Head Car		Locking Bolt.....	05
Plated.....	05	Pitman, short	05
Back Leg	40	Pitman Yoke Castings.....	10
Frame, to which arm casting is		Pitman Bolt R. H. Stove 13/16 x	
attached	30	3/16.....	02
Balance Wheel.....	35	Pitman, long.....	10
Brace	15	Saw Guide	10
Brace Bolt R. H. Stove 1 1/4 x 3/16	02	Saw Guide Screw 3/8 No. 8 Ma-	
Blower complete.....	25	chine Screw	02
Blower Lever.....	05	Saw Table, plated... ..	60
Belt	15	Saw Table Bolt 1 x 1/4 R. H.	
Crank and Drill Spindle	25	Carriage	02
Crank Screw.....	05	Stretcher Rod, complete.....	15
Clamps, upper and lower com-		Treadle	25
plete.....	25	Treadle Caps, per pair	10
Clamp Bolts 1 3/8 x 3/16 R. H.		Treadle Cap Screws 1/2 x 3/8 blind	
Stove.....	02	screws	02
Drill Spindle, Wing Nut.....	05	Treadle Bolt 1 1/4 x 7/32 R. H.	
Drills, per dozen.....	50	Stove.....	02
Drive Wheels.....	1 25		

ADJUSTABLE WAGON WRENCH.



This Malleable Iron Adjustable Wrench will turn any nut on a wagon from 3/8 to 1 1/4 inches square. It grips a nut so tightly that it cannot fall out. When made fast to the axle nut the knob on the back acts as a crank to whirl it off or on rapidly. It is the best wagon wrench in the world, and also a good Hand Vise.

Price

Put up one in a package.

THE GEM SOLDERING SET No. 1.



As a useful tool for the home the Gem Soldering Set has no superior. Any housekeeper knows about the annoyance of waiting for a tinsmith to repair an article. In mending two or three articles the Gem saves its cost.

N. B.—The coppers to these sets are made of sufficient size to retain heat.

Do not confound them with some others upon the market which are too small to be of service.

No. 1 is arranged so that it can be attached to gas burner to be heated.

Price.....per dozen, \$12 00

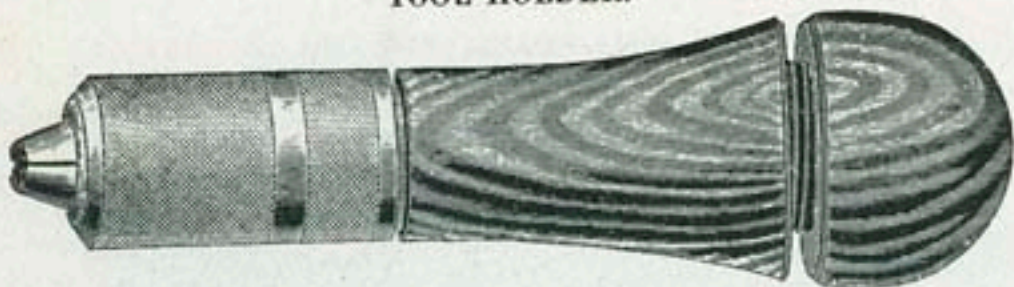
THE GEM SOLDERING SET No. 2.



No. 2 Set is not adapted for heating on gas burner, and not quite so highly finished as No. 1.

Price.....per dozen, \$6 00

TOOL HOLDER.



This cut represents the general appearance of the Tool Handles listed below. The handles are made of Cocobola, highly polished and of beautiful appearance. The ferrule and jaws are heavily nickel-plated.

The jaws will hold not only the tools contained in the hollow handle but all other things from a fine awl to a mill-file. No other tool handle in the market will do this. It also answers the purpose of a hand vise. The handles are much larger than this cut, the length being as follows. No. 1, 6 inches, No. 4, 6 1/4 inches; No. 2, 5 1/2 inches; No. 5, 7 1/2 inches.

The tools are made from steel of the highest grade, tempered by men of great experience, honed to a fine cutting edge and are all highly finished. They are made for service and will give the greatest satisfaction. The jaws in the handle shut over the shoulders of the tools (as shown in the cuts) so as to make it impossible to pull them out when in use.

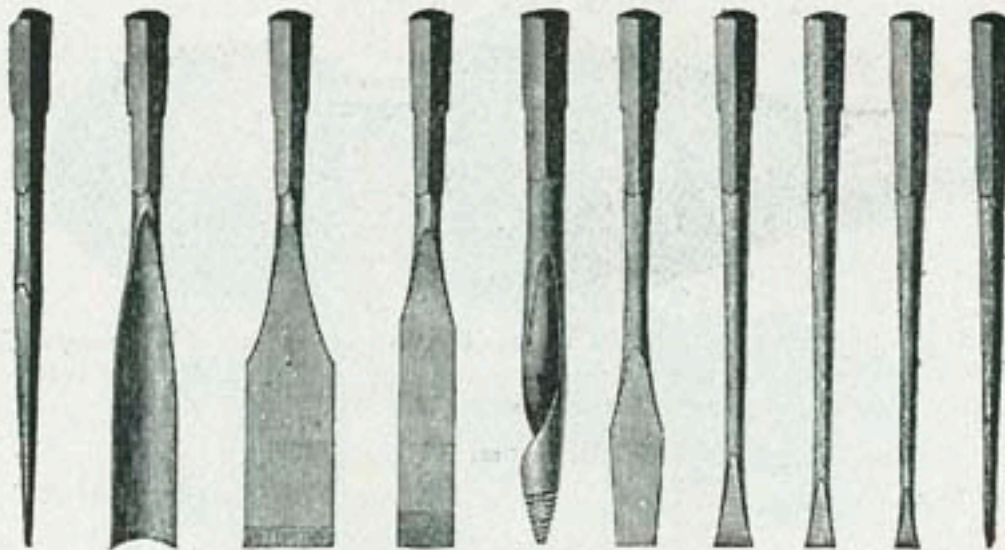
The tools in each holder are about the size represented in the cuts. These goods bear the highest price of any in the market, but their quality is as much higher as the price.

No. 1, Cocobola handle, with 20 tools.....	Per dozen, \$12 00
" 2, Solid Maple handle (no tools).....	" 4 00
" 4, Cocobola handle, with 11 tools.....	" 12 00
" 5, " " " 11 ".....	" 18 00

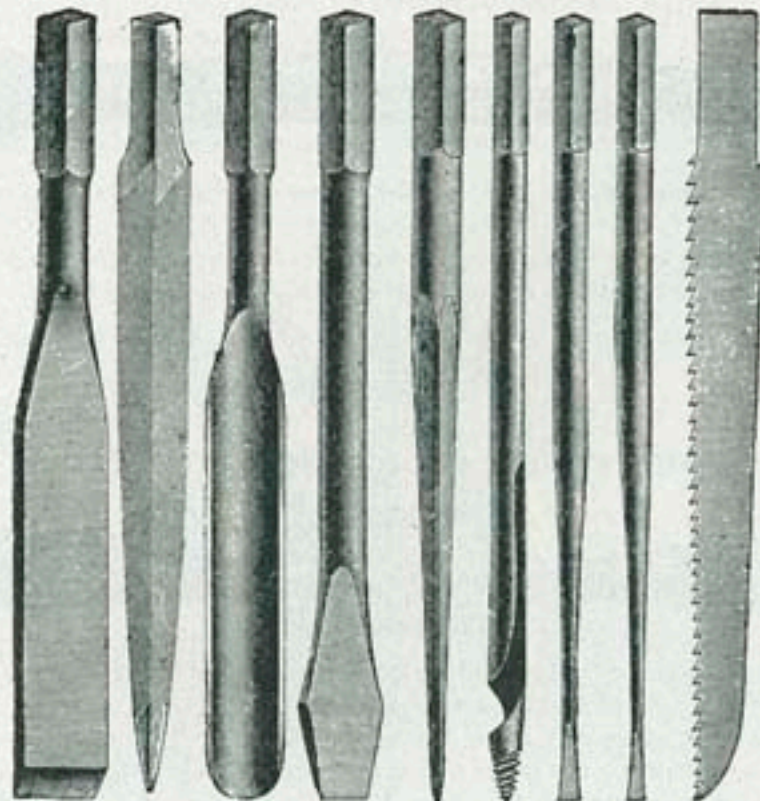
TOOLS FOR No. 1 HANDLE.



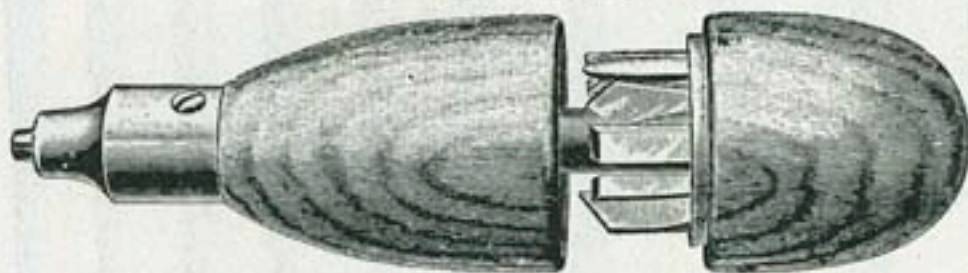
TOOLS FOR No. 4 HOLDER.



TOOLS FOR No. 5 HOLDER.



TOOL SET, No. 6.



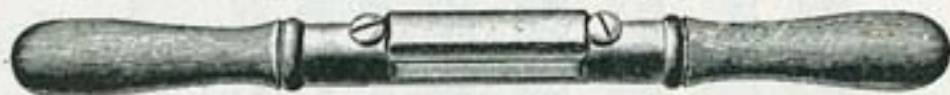
The handle is made of Cocobola wood, and as shown in the cut is arranged with cells for the assortment of twelve tools. The tools are made from best quality of steel, and will give satisfaction.

Length of handle $4\frac{3}{4}$ inches, weight 6 ounces.

Price... ..per dozen, \$9 00

Put up $\frac{1}{2}$ dozen in a box.

SPOKE SHAVE, No. 1.



The circular shape of this tool enables it to work in smaller circles than other shapes.

The angle of the knife is such that it cuts instead of scraping the grain of the wood. Either handle can be removed to work in cramped places.

Price... ..per dozen, \$9 00

Put up $\frac{1}{2}$ dozen in a box.

FOUR FACED SPOKE SHAVE, No. 2.



This Shave has a throat regulator which will present to the knife four faces: one flat, two oval or convex and one concave.

With either face, wide or narrow throat may be had. The regulator can be changed in a moment by use of the two thumb screws, as shown in the cut.

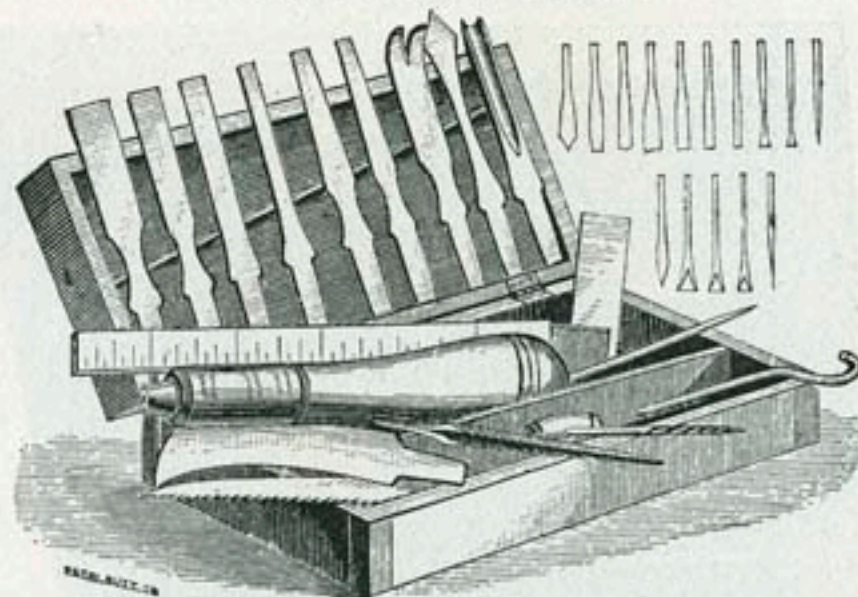
The knife is also adjustable by screws like other shaves. Either handle may be taken off to work in cramped places. The body of the tool and metal tips to the Cocobola handles are polished and nickel-plated. All that any other Shave will do, this will also do, and then it will do some more.

Length of blade 2 inches, weight 10 ounces, extreme length 11 inches.

Price... ..per dozen, \$12 00

Put up $\frac{1}{2}$ dozen in a box.

FAMILY TOOL CHEST.



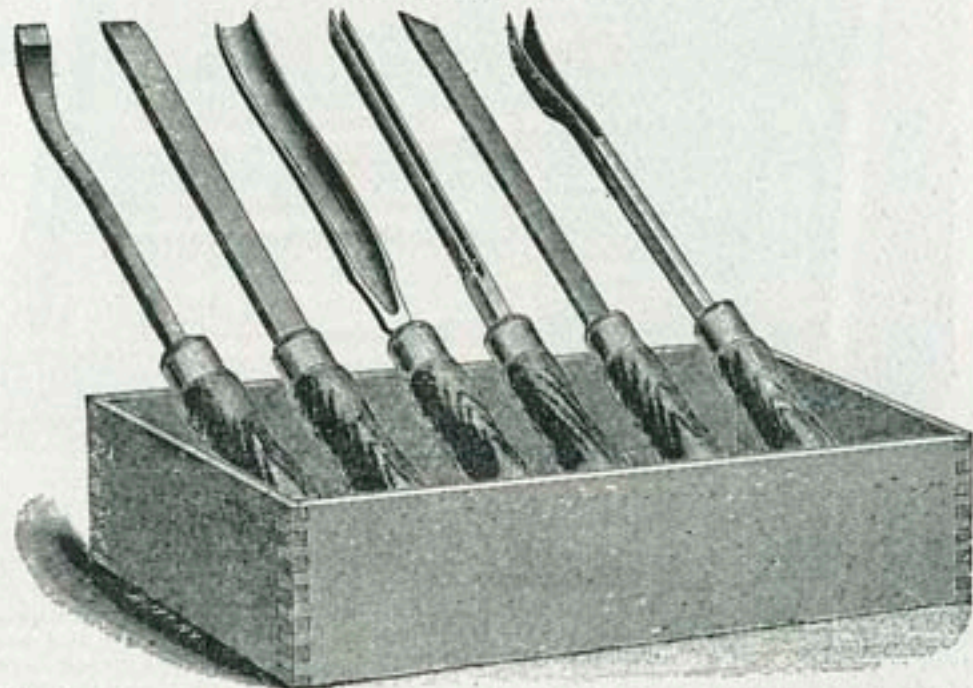
No. 1.—Contains a complete assortment of Cast Steel Tools (20 in number), also a patent Adjustable Holder, with an additional number of 12 Brad-awls, Chisels, etc., and all enclosed in a nice Case.

Per dozen... ..\$36 00

No. 2 —Contains an assortment of Cast Steel Tools (9 in number), also a Patent Adjustable Holder, with an additional number of Brad-awls, Chisels, etc., and all inclosed in a neat Case. Especially adapted to the wants of every family.

Per dozen... ..\$24 00

CARVING TOOLS.



No. 1.—Six tools $5\frac{1}{4}$ inches in length in a wooden box. Per dozen sets, \$12 00

" 2.—Six tools $8\frac{1}{2}$ inches in length in a wooden box " " " 18 00

These tools are forged from best quality of steel and are fully warranted. They have Cocobola Handles, and are sharpened ready for use.

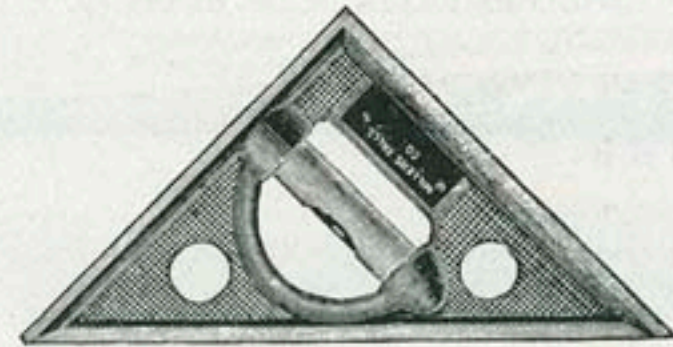
CARVING SET No. 3.



The above cut represents our Carving Set of 13 tools (12 carving and 1 matting) gotten up for use in Manual Training Schools, and by Amateurs generally. In making up the assortment of tools we have endeavored to ascertain just the shapes and sizes best suited for the work, and think they will be approved of by those who use them. The Blades are made from the best steel we are able to procure for the purpose. They are carefully tempered and finished, and are sent out sharpened for use. The handles are made from Cocobola wood, and of the most approved shapes. The cases 9 3/4 x 8 1/4 inches in size, are nicely finished, and compare favorably with the tools. A clamp is provided to hold each tool in the case.

Price per set, \$5 00

PATENT IRON LEVEL.



No. 20.



Nos. 21 and 22.



Nos. 23, 24, 25 and 26.

These are our latest improved Iron Levels.

PRICES.

No. 20.— 4 inch Right Angle Triangle Level	per dozen,	\$9 00
No. 21.— 4 inch Bench Level	..... "	6 00
No. 22.— 5 inch	..... "	7 20
No. 23.— 6 inch Double Plumb Level.....	..... "	18 00
No. 24.—12 inch	..... "	21 00
No. 25.—18 inch	..... "	24 00
No. 26.—24 inch	..... "	30 00

These Levels will be furnished to order with ground glasses when desired at additional charge of 25 cents per glass, or 75 cents per Level on numbers having three glasses.

MILLERS FALLS GLASS CUTTERS.



No. 0. Price.....per gross, \$24 00
This Cutter has a Cocobola wood handle. It works on the same plan as the ordinary Diamond Cutter with a loose head.



No. 1. Assorted with extra care, polished finishper gross, \$20 00



No. 2. Malleable Iron Handle, Putty Knife combined, bronzed, per gross, \$20 00



No. 4. Putty Knife and Glass Cutter combined.....per gross, \$12 00



No. 5. Heavy, for Cutting Plate Glass.....per gross, \$12 00

MILLERS FALLS GLASS CUTTERS.



No. 7. Light Malleable Handle... ..per gross, \$11 00



No. 13. Putty Knife and Glass Cutter combinedper gross, \$12 00

THE DAVIS GLASS CUTTER, No. 25.



The No. 25 Davis Glass Cutter has a Magazine in the Cutter head for storage of duplicate Cutter Wheels and Arbors to replace the Wheel in use as it may become dull.

Unless otherwise ordered, each handle is sent out with 5 Wheels and 3 Arbors in the Magazine, besides one Wheel and Arbor in place ready for use. The Cutter Handle is made from handsomely finished Cocobola, and is the shape of a regular glazier's diamond handle. The Cutter Head is finely polished and nickel-plated. This tool will last indefinitely. The only expense after purchasing the Handle being the small cost of replenishing with Cutter Wheels as occasion may require.

Put up one in each box.

Price.....per dozen, \$9 00

GLASS CUTTER, No. 30.



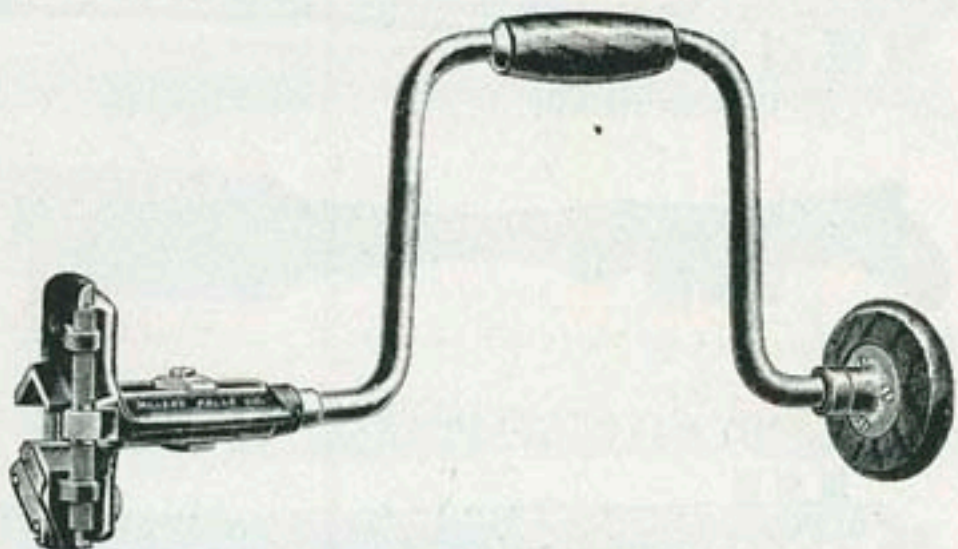
As indicated by the illustration this tool has four cutters set in a revolving head. The head is hung on a pivot, and is made stationary at the points where the cutters are in proper position for work by a milled edge thumb nut.

The milled slots in the circular head are for the purpose of breaking glass after cuts have been made.

The bright parts are nicked, the handle cocobola wood, and the whole get up of the tool attractive.

Price.... per dozen, \$3 00

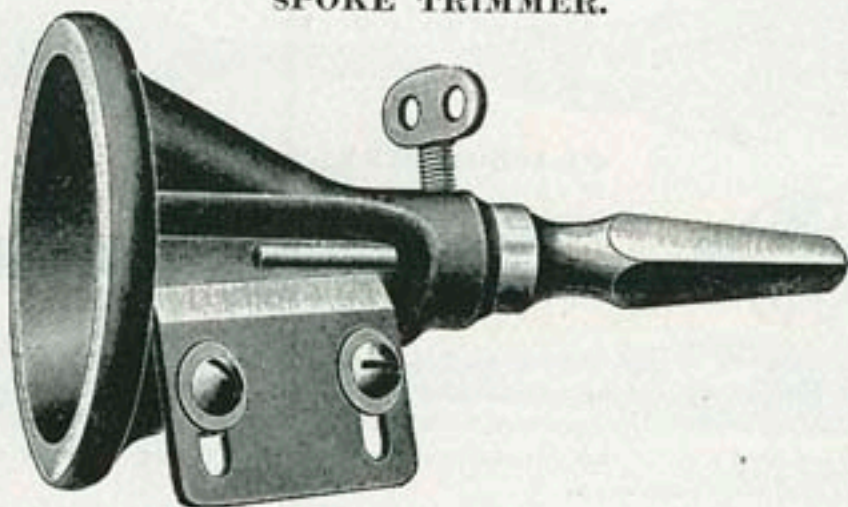
PATENT ADJUSTABLE HOLLOW AUGER No. 1.



This Auger has been on the market for many years, and so far as we know has always given entire satisfaction. The demand for them is steadily increasing. It has all the strength, durability and quick adjustability of any other, and it also has to drive it a Steel Bit Brace Sweep of the same size and finish as our No. 10 Brace, viz: 14-inch sweep. As the Brace Sweep is fitted to the Auger, it must always work entirely true, which is not the case when used in an ordinary Brace. Besides, it often happens that the Bit Brace on hand is not large enough to drive a Spoke Auger. Adjustable to cut from 1/4 to 1 1/4 inches.

Price, with Sweep..... each, \$4 00

SPOKE TRIMMER.

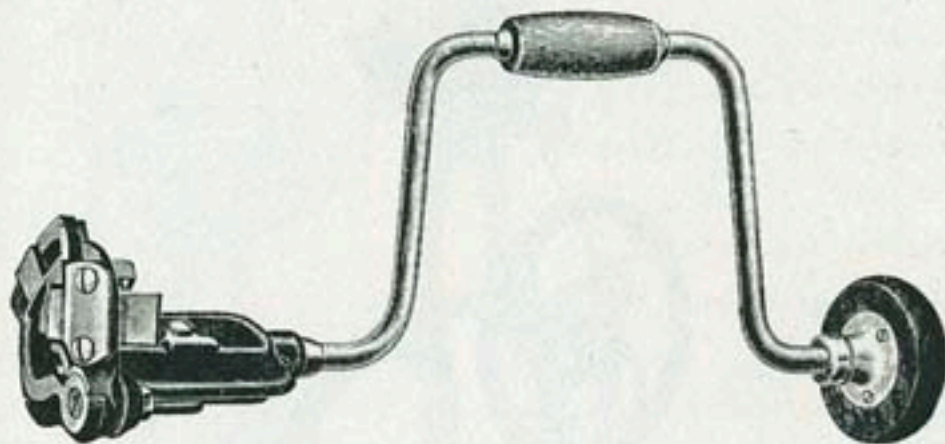


With adjustable stop gauge.

Price.....per dozen, \$6 00

Put up 1/2 dozen in a box.

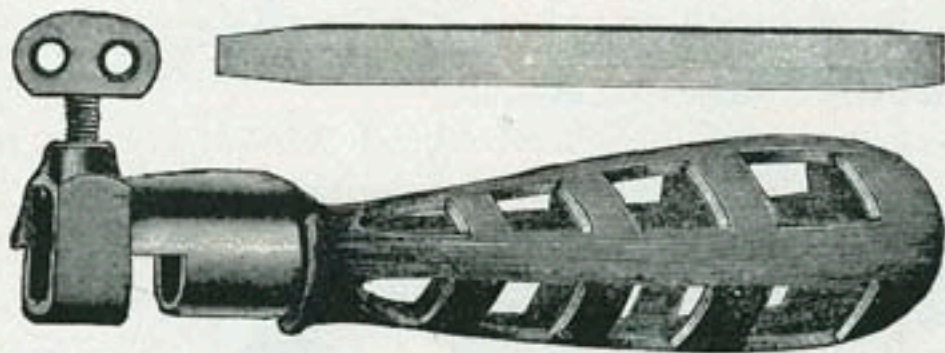
ADJUSTABLE HOLLOW AUGER, No. 2.



Is same in pattern as one which we have sold for many years, but has the additional advantage of a (14 inch) sweep, and consequently is always ready for use. It is adjustable to cut from 1/4 to 1 1/4 inches.

Price, per dozen..... \$48 00

UNIVERSAL HANDLE.

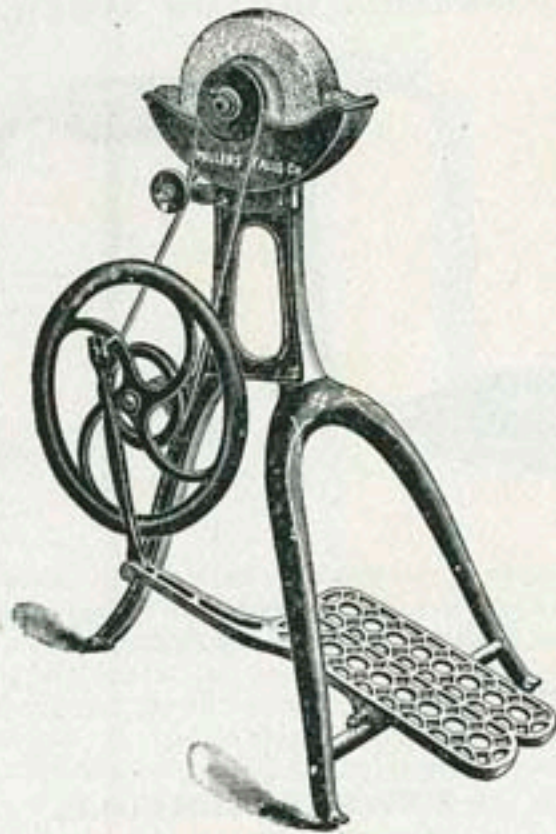


This Malleable Iron Handle is five inches long and has a Japan finish. Weight of handle, five ounces. It is strong, durable, and will hold perfectly files with tangs of all sizes and shapes from a 14-inch mill file to the smallest size in use. It will hold equally well twist drills, gimlets, screw-drivers and all tools with shanks less than 3/8 of an inch square, round or flat. It will also answer most of the purposes of a hand vise, and will sell at sight anywhere.

Price of handle only per dozen, \$1 80
 " " " with first quality screw-driver as shown in
 cut. " 3 00

Put up 1/2 dozen in a box.

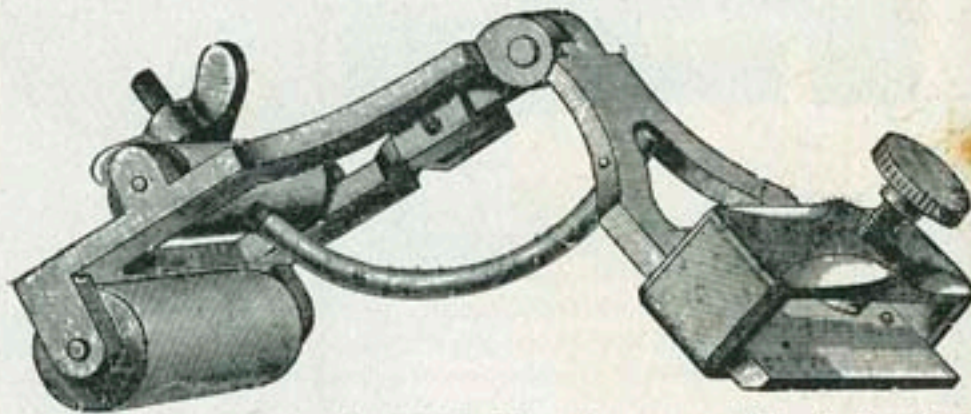
FAMILY GRINDSTONE No. 2.



This Grindstone is very popular with jewelers and others who use small tools, also for household purposes. The stones are 8 x 1 3/4 inches. They come from the Huron quarries and are correct grain for work which they are intended for. Weight, boxed, 66 pounds.

Price.....each, \$4 00

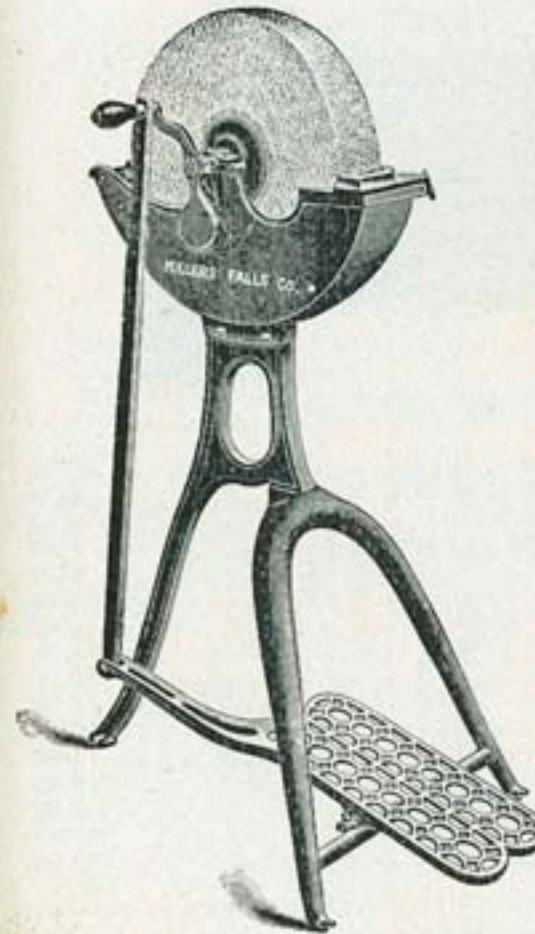
CHISEL GRINDER.



This invention is for holding Chisels, Plane Irons, etc., while grinding them. When put in the holder and brought to the right bevel with the adjusting screw, nothing is left to do but to bear it on the stone, and it will grind all right without further care.

Price.....per dozen, \$9 00
Put up 1/2 dozen in a box.

GRINDSTONE, No. 3.



Grindstone No. 3 is same quality as No. 2 described on page 58, but has a stone 14 x 1 3/4 inches. The increased size and weight give it greater speed and capacity. As the cut shows the stone is operated by a wooden pitman, which will prove durable and satisfactory.

It weighs, boxed, 85 lbs.

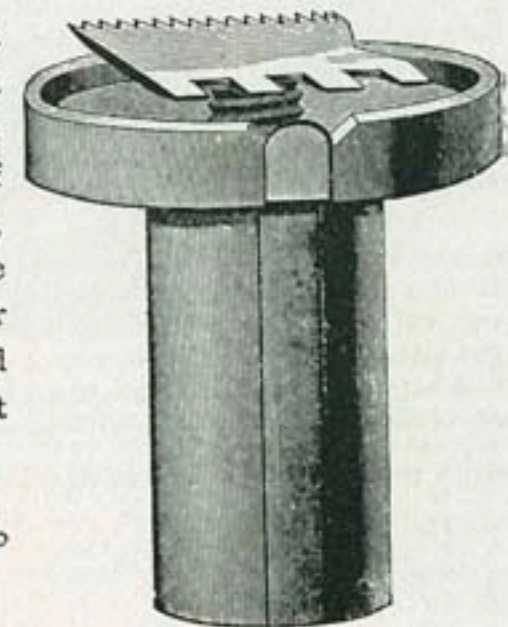
Price, each\$4 50

MILLERS FALLS BENCH HOOK.

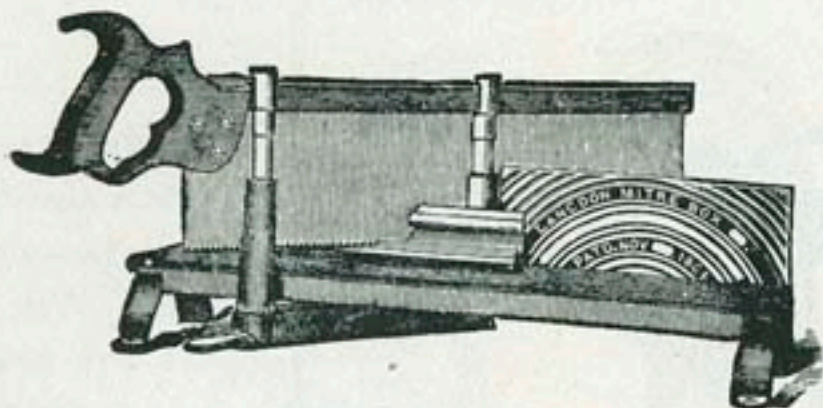
All that is required to set this hook in the bench is to bore a 2-inch hole 1/2 inch in depth and a 1-inch hole the balance of the way through the bench, holding it in place with three screws. The Hook has four faces, and can be turned around readily and set to any height desired. The cut is full size.

Priceper dozen, \$4 50

Put up 1/2 dozen in a box.



LANGDON ADJUSTABLE MITRE BOXES.



Sizes A, 1, 2, 2½ and 3.

Order by the No.

No. 1	is Size A, with No. 4 Saw, for wood, 15 x 2½	\$6 50
" 2	" " " " metal, 14 x 2½	6 50
" 3	" " " " with both saws	8 00
" 4	is Size 1, with No. 6 Saw, for wood or metal, 18 x 4	9 00
" 5	" " " " " " 20 x 4	9 50
" 6	" " " " " " 22 x 4	10 00
" 7	" " " " " " for wood, 24 x 4	10 50
" 8	" " " " " " 26 x 4	11 00
" 9	is Size 2, " " " " 22 x 4	11 00
" 10	" " " " " " 24 x 4	11 50
" 11	" " " " " " 26 x 4	12 00
" 12	is Size 2½ " " " " 28 x 5	14 00
" 13	is Size 3, " " " " 24 x 6	*18 50
" 14	" " " " " " 26 x 6	*19 00
" 15	" " " " " " 28 x 6	*19 50
" 16	" " " " " " 30 x 6	*20 00

*Nos. 13, 14, 15 and 16, now have the circular guides, as shown in the improved Box (page 64) to give long angles when desired.

We are occasionally asked to sell Mitre Boxes WITHOUT SAW The following Mitre Boxes will be sold WITHOUT SAW, if desired, but without guarantee, as Mitre Boxes cannot be depended upon to work with Saws indiscriminately furnished, and we cannot afford to sacrifice our reputation, which has cost us years of labor to establish.

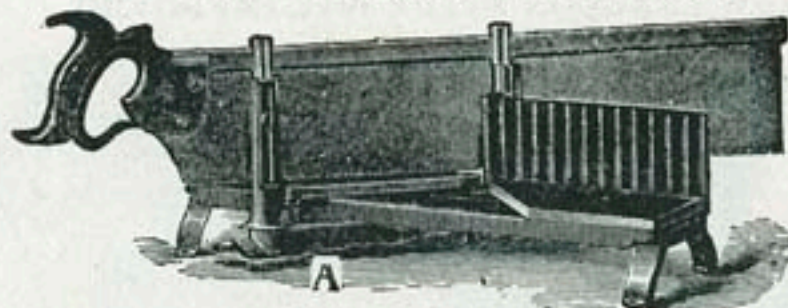
	Sizes, 1	2	2½
New Langdon.....	\$7 00	\$8 00	\$10 25
Langdon and Improved.....	8 25	9 25	11 25
	*No. 3, \$16 25.	No A, \$3 25.	

Parties ordering Mitre Boxes who have Saws which they wish to save should send them to us to be adjusted to the box in which they are to be used. No charge will be made for the adjustment to the Box in which they are to be used, unless money is paid for PUTTING THE SAW in proper working order.

Such adjusted Boxes will be guaranteed to do good work if the saw is found good. Prices subject to change without notice.

Size A	gives 3½ inches width at right angles, 2¼ at Mitre.	Weight 5½ lbs.
" B	" 4½ " " " " 3 " " 6 " "	" 6 " "
" 1	" 6¾ " " " " 4½ " " 10½ " "	" 10½ " "
" 2	" 9½ " " " " 6½ " " 11½ " "	" 11½ " "
" 2½	" 9½ " " " " 6½ " " 12½ " "	" 12½ " "
" 3	" 12½ " " " " 8½ " " 25 " "	" 25 " "

THE NEW LANGDON MITRE BOX.



Arranged for Back Saw.

We warrant all our Mitre Boxes to do perfect work when supplied with back saws fitted by ourselves.

N. B.—Saws are measured extreme length of blades. For convenience of the operator, the corner of blade under handle is clipped off, as shown on cut above.

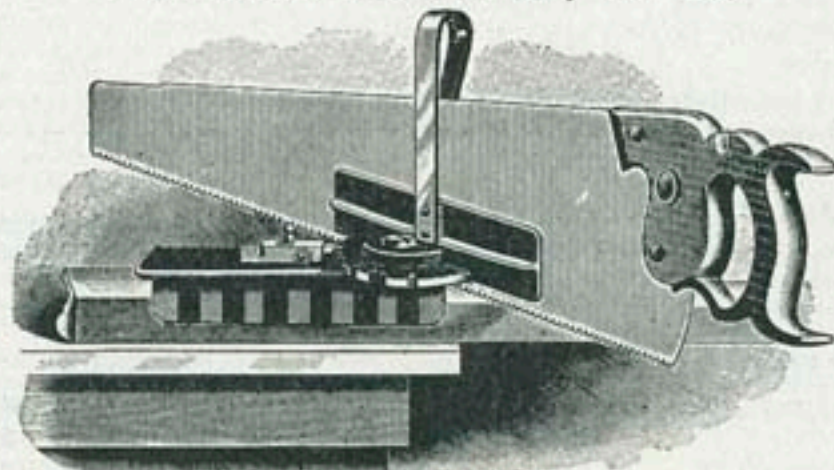
Sizes B, 1, 2 and 2½.

Order by the No.

No. 16½	is Size B, with Saw,	13 x 2	\$4 50
" 17	is Size 1, with No. 6, saw for wood,	18 x 4	7 75
" 18	" " " " " " 20 x 4	8 25	
" 19	" " " " " " 22 x 4	8 75	
" 20	" " " " " " 24 x 4	9 25	
" 21	" " " " " " 26 x 4	9 75	
" 22	is Size 2, " " " " 22 x 4	9 75	
" 23	" " " " " " 24 x 4	10 25	
" 24	" " " " " " 26 x 4	10 75	
" 25	is Size 2½ " " " " 28 x 5	12 00	

For prices of Boxes without Saws, see page 62.
For capacity of Boxes see page 62.

THE STAR MITRE BOX, No. 40.



We have succeeded in developing a cheap Mitre Box which, although not as good as the Langdon, is far better than any wooden Box that can be made.

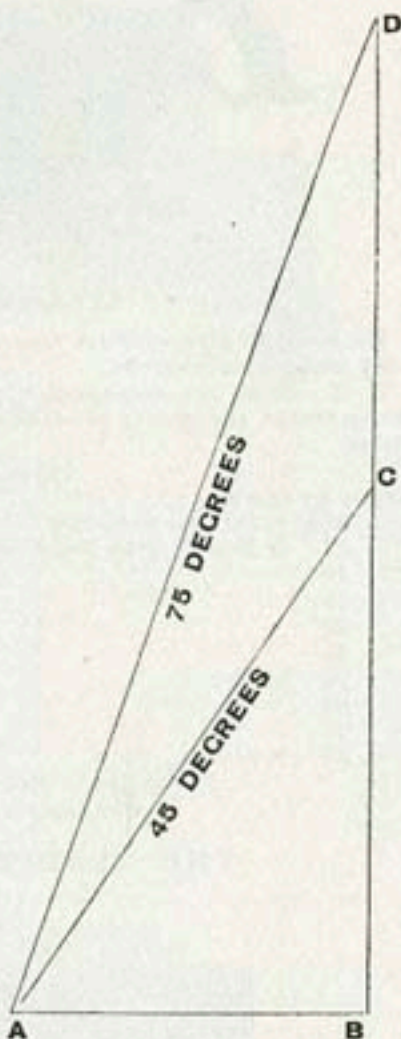
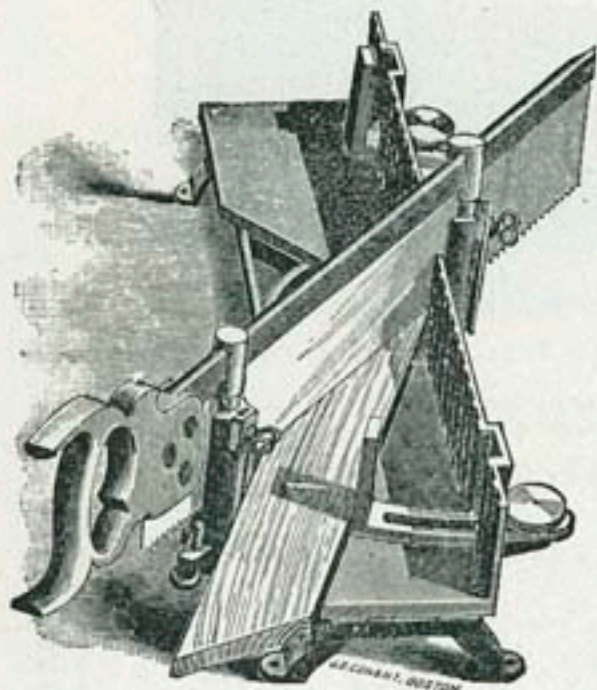
It is adjustable at once to the various required angles, and being provided with a double shelf or rest, will cut either a right or left angle with equal ease. It is made entirely of iron and steel, japanned, with bright parts polished and nickel-plated.

It is very compact and for outside work, cornices, etc., will be found very convenient; also for cutting wall mouldings for hanging pictures.

Either a panel or back saw can be used and any depth moulding can be cut.
Price.....each, \$2 00

Packed one in a box.

NEW LANGDON MITRE BOX IMPROVED.



Ordinary Mitre Boxes cut from right angles to 45 degrees, inclusive, as shown on the diagram, A, B, C.

The New Langdon Improved cuts, by using the circular arms or guides, from right angles to 75 degrees, on 2 1/2 inch stuff, as shown on diagram A, B, D, varying more or less with width of stuff.

The only box adjustable for mitreing circular work in patterns, emery wheels and segments of various kinds.

N. B.—Saws are measured extreme length of blades. For convenience of the operator, the corner of blade under the handle is clipped off, as shown on cut, page 63.

Sizes, 1, 2 and 2 1/2.

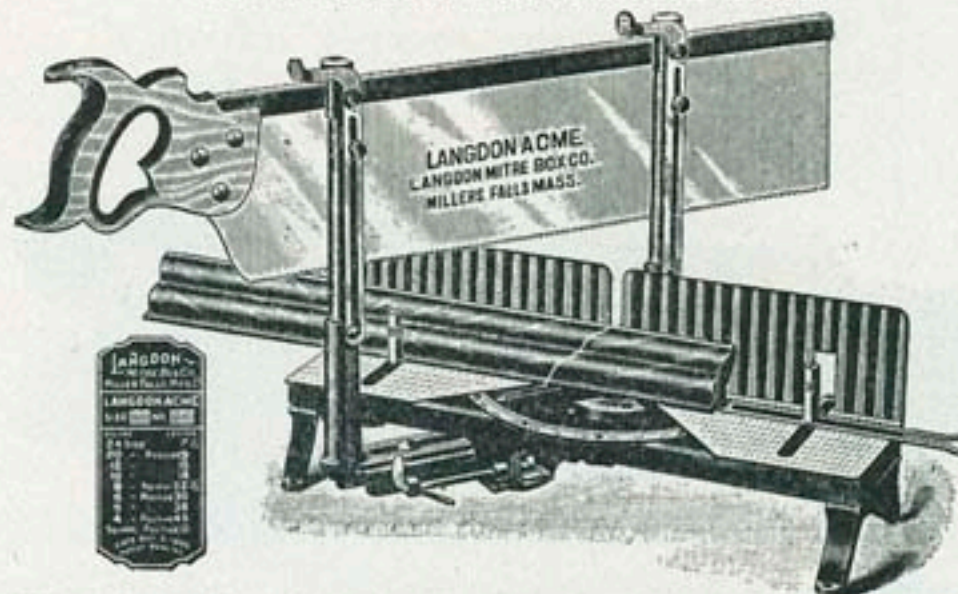
Order by the Number.

No. 26	is Size 1,	with No. 6 Saw,	for wood,	18 x 4.	.....	\$9 00
" 27	"	"	"	20 x 4.	.....	9 50
" 28	"	"	"	22 x 4.	.....	10 00
" 29	"	"	"	24 x 4.	.....	10 50
" 30	"	"	"	26 x 4.	.....	11 00
" 31	is Size 2,	"	"	22 x 4.	.....	11 00
" 32	"	"	"	24 x 4.	.....	11 50
" 33	"	"	"	26 x 4.	.....	12 00
" 34	is Size 2 1/2,	"	"	28 x 5.	.....	14 00

For prices of these Boxes, without Saws, see page 62.

For capacity of these Boxes, see page 62.

THE LANGDON ACME MITRE BOX.



This cut shows the Size 2 Box with the saw suspended by the elevators, the moulding held by the supporting guide on one side, and brought against the length gauge on the other.

The Langdon Acme Mitre Box possesses all the features embodied in Boxes heretofore made, together with the following improvements.

The Guides are made one inch longer, thus holding the saw steadier when drawn up to its highest capacity. These Guides are provided with elevator so the saw is held stationary above the work when desired, as shown in above cut.

In addition to notches for the positive angles commonly in use, the Acme Box has a graduated arc in front with the various degrees marked thereon, as per plate shown in above cut.

The saw can be instantly secured at any intermediate or any positive angle by means of a small thumb lever in front of Box.

Supporting guides for holding work in place, which guides are also used where angles more acute than 45 degrees are desired.

An appliance for quicker adjustment of extension lever.

A length gauge for duplicate lengths.

Steel bottom boards roughened to prevent work from slipping.

A metallic index plate with degrees marked thereon attached to the machine. The polished parts are nickel plated.

These Boxes are made in three sizes.

Size 1 is provided with a solid swinging lever, which cannot be extended, and carries saw four inches wide under back.

Size 2 is provided with an extension lever by which the front post can be extended to give greater width, and carries saw four inches wide under back.

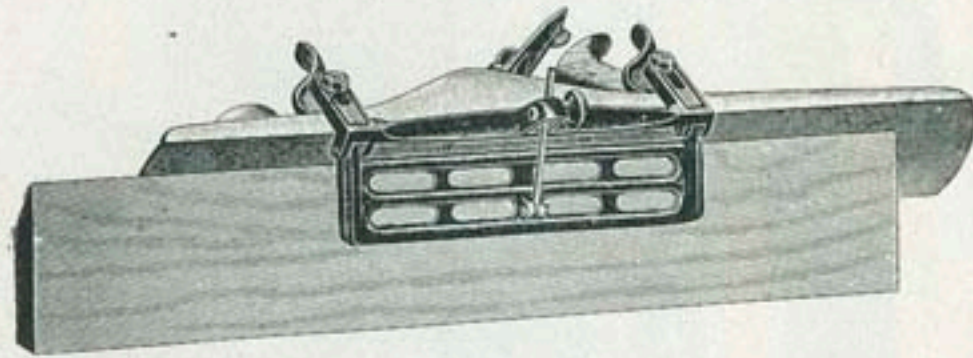
Size 2 1/2 is provided with an extension lever by which the front post can be extended to give greater width, and carries saw five inches wide under back.

For convenience in ordering, we give serial numbers that the length of saw may be indicated without too much detail as follows:

No.	Size	Saw	Capacity at Right Angles.	Capacity at Mitre.	Each, including Saw.
No. 68.	Size 1,	Saw 22 x 4,	7 1/2	5	\$10 00
" 69.	" 1,	" 24 x 4,	7 1/2	5	10 50
" 70.	" 1,	" 26 x 4,	7 1/2	5	11 00
" 71.	" 2,	" 22 x 4,	10 1/4	7	11 00
" 72.	" 2,	" 24 x 4,	10 1/4	7	11 50
" 73.	" 2,	" 26 x 4,	10 1/4	7	12 00
" 74.	" 2 1/2,	" 28 x 5,	10 1/4	7	14 00
" 75.	" 2 1/2,	" 30 x 5,	10 1/4	7	14 50

All our Mitre Boxes are provided with saws made for us only, by Henry Disston & Sons, Limited.

THE PERFECTION JOINTER GAUGE.



As the illustration suggests, this Gauge is designed for planing squares or bevels, as may be desired, and can be attached to either Iron or Wood Planes.

One of the important features of the tool is the ease and rapidity with which it can be attached to or removed from a plane. The arms are slotted to provide for adjustment to the varying heights of Iron planes. Adjusting bolts upon which eccentric cams revolve, are secured in these slots.

By a partial revolution of the cams the Gauge can be attached to or removed from an Iron Plane instantly.

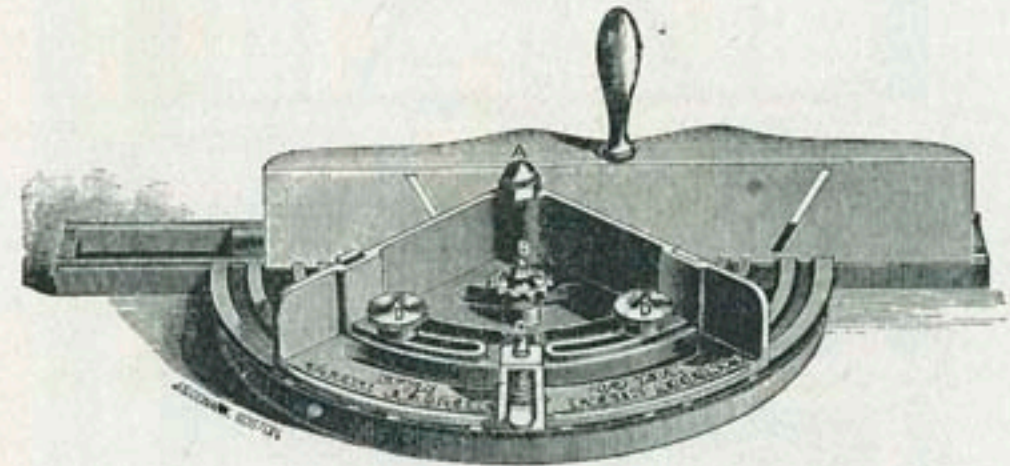
To use a Wood Plane the cam bolts are removed and round head wood screws are used in the arm slots instead. The desired bevel is secured by raising or lowering the Gauge when it is held firmly in place by the milled edge thumb screw.

It is an attractive tool in appearance, the frame being japanned and the small parts polished and nickel-plated.

Put up one in a box.

Price, per dozen, \$18.00

THE ROGERS MITRE PLANER.



It is made entirely of iron, and is arranged for planing any desired angle on straight or curved work.

The Main Bed Piece is semi-circular in form with a way or frame at its rear, on which the plane runs.

The upper or movable Bed Plate is in Quadrant form, having at right angles sides which act as guides for the material to be planed, and revolving on a pivot A, at the end, enabling the user to perform the desired angle for straight work, and place it in its proper position against the face of the plane. When the Quadrant or movable Bed Plate is in the centre of the main bed piece, its side elevations form an exact mitre, so that no change is required in planing the ends of parts for frames of four sides.

In the sides of the Quadrant are two adjustable guides or rests, kept in position by set screws D D.

The special object of these rests is to enable one to finish the ends or angles on curved work with exactness.

In preparing pieces for circular or oval work, frames, pulleys, emery wheels, circular patterns, etc., it is necessary to plane the ends of the various segments at varying angles. In planing these the point of the Quadrant near the plane and the adjustable guides form the rests required for accurate work.

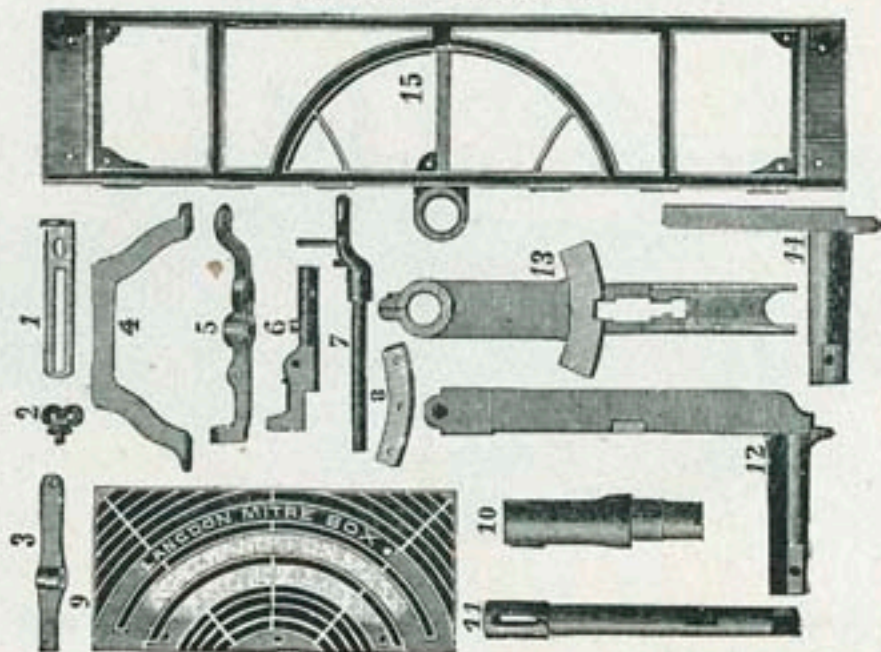
The Quadrant is kept in position at any angle desired by pressing the catch, C, down into the notches prepared for it, or by the thumb-screw, B, and can be used in connection with the arms or guides, as desired.

The planer is manufactured in three sizes, each supplied with iron planes.

Size 2, carrying plane irons, 2 inches wide	.....	Each	\$20 00
" 3½ " " 3½ " "	.....	"	25 00
" 4 " " 4 " "	.....	"	30 00
Extra Plane Irons, 2 inches	.....	per pair	2 00
" " " 3½ " "	.....	"	2 50
" " " 4 " "	.....	"	3 00

NUMBER OF PARTS OF LANGDON MITRE BOX.

MADE TO INTERCHANGE.



In ordering Backs (No. 9) please state whether a Right or Left-hand back is wanted.

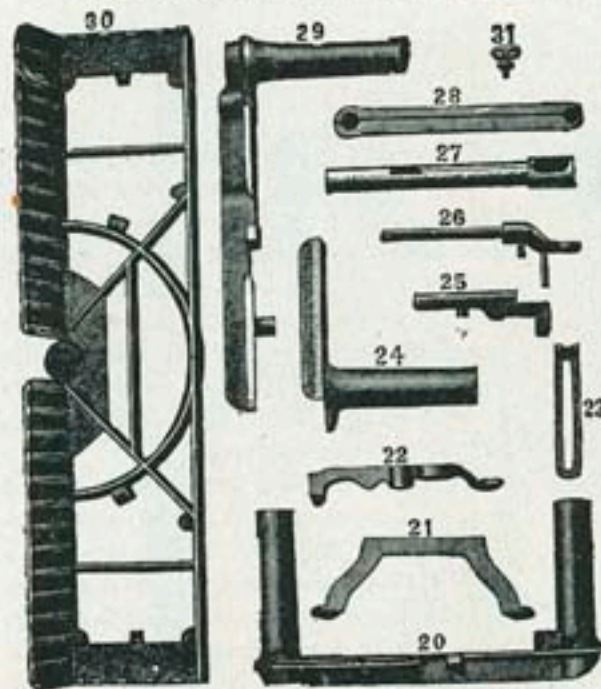
List of Parts (as shown in cut) and Price of Same.

All parts of the Mitre Box are made to interchange, and will be sent by mail, if postage accompanies order, otherwise by express. Postage one cent for each ounce.

Persons ordering parts of Machines will please state the number of the piece wanted, and the size of the machine for which it is designed.

	Mitre B. Size 1.	Mitre B. Size 2.	Mitre B. Size 2½.	Mitre B. Size 3.
1 Stop Gauge.....each	\$0 10	\$0 10	\$0 15	\$0 20
2 Thumb Screw....."	10	10	10	10
3 Back Lever....."	15	15	15	30
4 Legs....."	15	15	15	30
5 Stop Lever....."	30	..	..	..
6 Stop Lever....."	..	45	45	50
7 Thumb Lever....."	..	20	20	20
8 Gib....."	25	25	25	50
9 Back....."	30	30	50	60
10 Back Post....."	35	35	60	70
11 Saw Guides....."	55	55	90	1 00
12 Swinging Lever....."	90	..	..	..
13 Swinging Lever....."	..	1 00	1 00	1 50
14 Sliding Post....."	..	50	85	1 00
15 Bed....."	1 00	1 00	1 00	2 00
Bottom Board....."	10	10	15	20
Spiral Spring....."	5	5	5	5
Screws....."	5	5	5	5
Lever Pins....."	5	5	5	5
Set Screw....."	..	10	10	..

PARTS AND PIECES OF NEW LANGDON AND IMPROVED NEW LANGDON MITRE BOXES.



Persons ordering parts will please state the number of the piece wanted and the size of the machine for which it is designed, stating whether it is for the Langdon or New Langdon. Or, if the letters A, B, C, etc., which may be found on the larger castings are mentioned, they will enable us to determine just what is wanted without further description.

	Size 1.	Size 2.	Size 2½.	Size 3.
20 Swinging Lever.....each	\$1 25	\$ 15	\$ 15	\$..
21 Legs....."	15	15	15	..
22 Stop Lever....."	80	..	..	..
23 Stop Gauge....."	10	10	10	..
24 Sliding Gauge....."	..	50	85	..
25 Stop Lever....."	..	45	45	..
26 Thumb Lever....."	..	20	20	..
27 Guide....."	55	55	90	..
28 Gib....."	25	25	25	..
29 Swinging Lever....."	..	1 25	1 35	..
30 Bed and Back....."	1 45	1 45	1 60	..
31 Thumb Screw....."	10	10	10	..
Circular Arms for improved Box	80	30	45	50
Thumb Screws for circular Arms	15	15	15	15

THE ALEXANDER ADJUSTABLE JOINTER GAUGE.

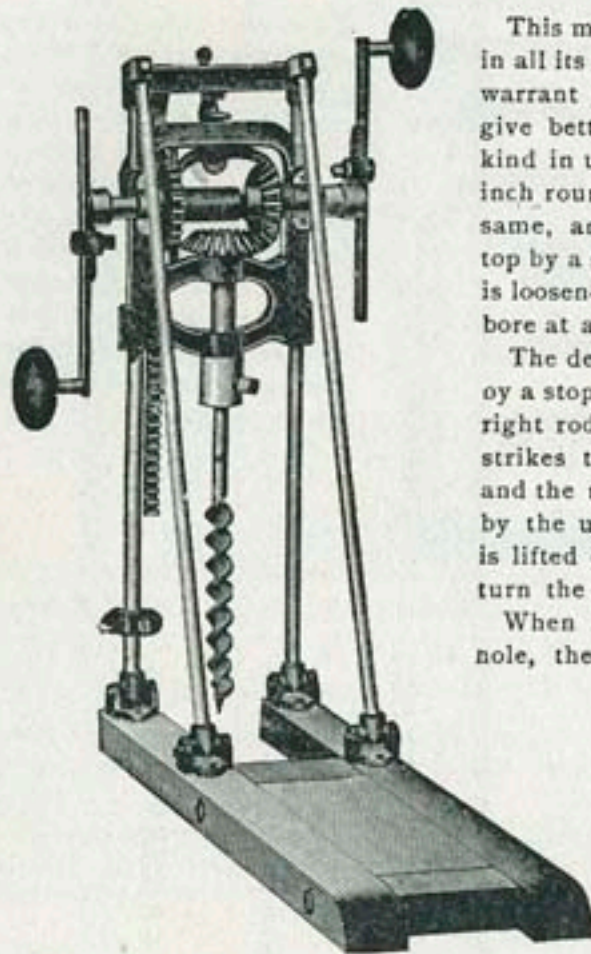
We claim for this tool:



- 1st.—The ease with which it is attached to any Plane, Jack or Jointer.
- 2d.—The great amount of time saved, without the use of Bevel or Try Square.
- 3d.—It is adjustable for Squaring or to any Bevel desired.
- 4th.—The work completed in the highest state of perfection, even by inexperienced workmen.

Attach the Gauge to the plane so that the depression in the center of the wing of the Gauge shall be directly opposite the cutting edge of the plane iron.
Price.....per dozen, \$18 00

MILLERS FALLS BORING MACHINE.



This machine has been fully perfected in all its parts, and is now sold with full warrant that it will do better work and give better satisfaction than any other kind in use. The frame is made of half-inch round steel rods; the braces are the same, and attached to the rods at the top by a set screw. When this set screw is loosened the frame falls over, so as to bore at any desired angle.

The depth of hole to be bored is fixed by a stop, as shown on the left-hand upright rod in the cut. When the frame strikes this stop, push back the latch and the machine throws itself into gear by the use of a spring, and the Auger is lifted out of the hole by continuing to turn the crank in the same direction.

When the Auger is drawn from the hole, the frame hangs itself up until the machine is moved for the next hole; then it is dropped down by turning the crank back until the Auger strikes the wood. At this point it is thrown out of gear by pressing the lifting gear to the left, and is then ready for more work.

As shown in the cut, the machine has adjustable cranks, which fully regulate its speed and power.

As ordinarily made, this machine bores to depth of $9\frac{1}{2}$ ins., but at small additional charge can be made to order for greater depth.

We do not desire the reputation of making the cheapest goods in the market, but we mean to deserve the name of making the best.

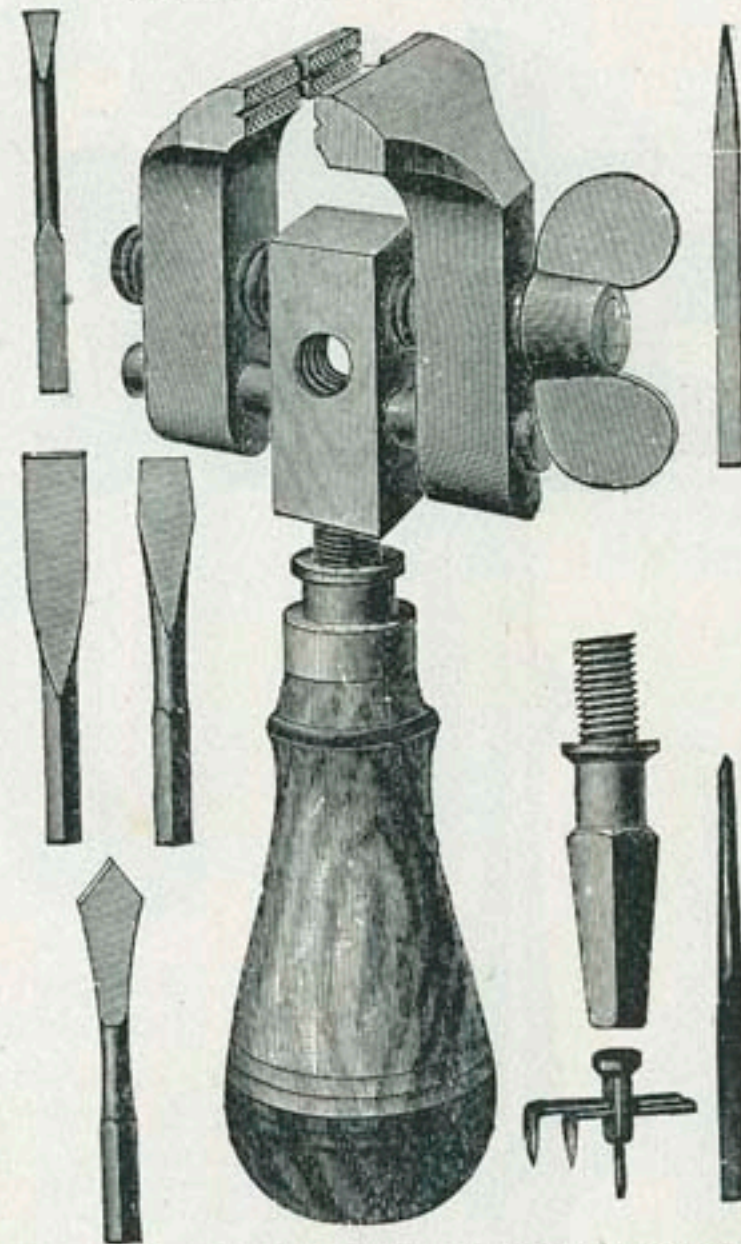
PRICES.

Machine, without Augers			\$7 50
Augers in sets	18	23	41 quarters.
	\$4 50	\$5 50	\$10 25

SIZES OF AUGERS.

18	23	41
(1, $1\frac{1}{2}$, 2)	(1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2)	($\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2)

ALFORD HAND VISE, No. 1.

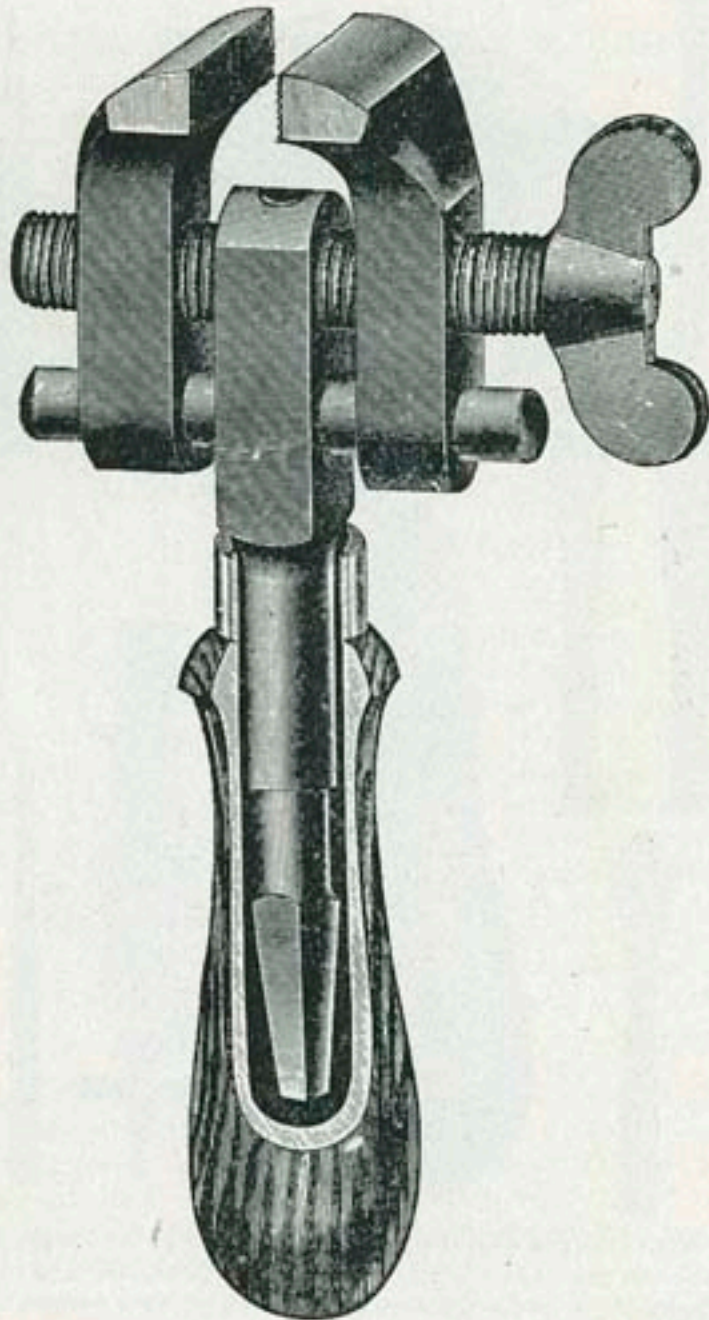


The Jaws are of forged and tempered steel, the screw and cross bar are also made of steel, the handle is made of Cocobola. It is hollow, and the bit shank and tools shown in the cut, are placed inside. The blades bent at right angle are used for cutting washers.

The Vise Jaws are $1\frac{1}{4}$ inches wide and open $1\frac{1}{8}$ inches. They will center and hold tools firmly of any shape. The Vise is one third larger than the cut, while the tools are full size. The handle can be unscrewed from the Vise and the bit shank put in its place, to be used with a bit brace for any kind of boring, drilling or cutting washers. The handle can also be screwed into the Vise at right angles with its usual position, which is desirable for many kinds of work.

Price, with all the tools.....per dozen, \$21 00
Put up $\frac{1}{2}$ dozen in a box.

HAND VISE, No. 2.

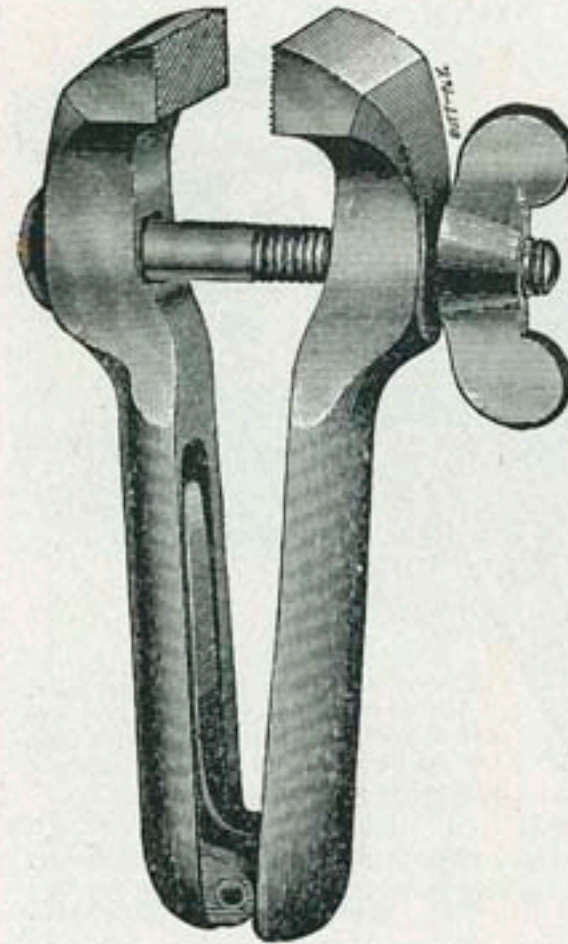


This is a forged Steel Vise, nickel-plated and with a Cocobola handle. As the cut shows, the handle may be taken off and the shank placed in a bit brace. The jaws are creased to hold a Twist Drill. It may be used as a Vise, Wrench or Drill Chuck. It is a very substantial tool.

Width of Jaws.....	1 1/2 inches.	Jaws open	1 1/4 inches.
Diameter of Screw	3/8 "	Width of Thumb Nut.	1 3/4 "
Length over all.....	6 3/4 "	Weight.....	17 ounces.
Price.....	.....per dozen, \$18 00		

Put up 1/2 dozen in a box.

HAND VISE, No. 3.



This Vise is made of solid steel castings, well tempered, with a heavy spring inside to open the jaws, which are closed with a bolt and nut, as shown in the cut.

The jaws are 1 1/2 inches wide, and open 1 1/2 inches. Length of Vise, 5 inches. Weight, 1 lb.

Price in Black Finish with Polished Jaws per doz.. \$9 00

Put up 1/2 dozen in a box.

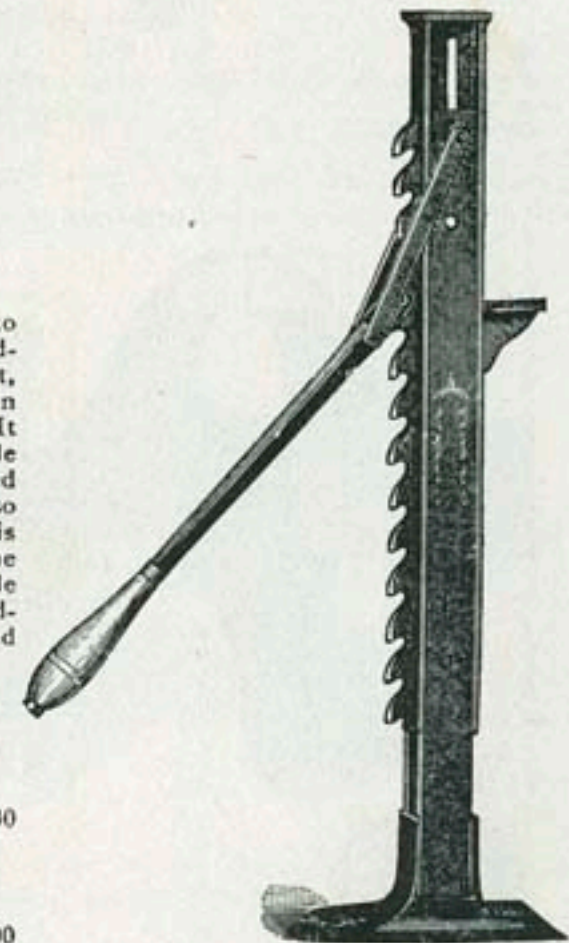
POWER'S WAGON JACK.

Power's Wagon Jack is made to meet the wants of the regular hardware trade. It is very compact, and occupies but little space in transportation or in the store. It is made of wrought and malleable iron. When the lever is depressed it is carried past the center, so as to be self-locking. The lift is from 12 to 32 inches. It is the quickest working and most durable jack in market, and also the handsomest, being nicely japanned and ornamented.

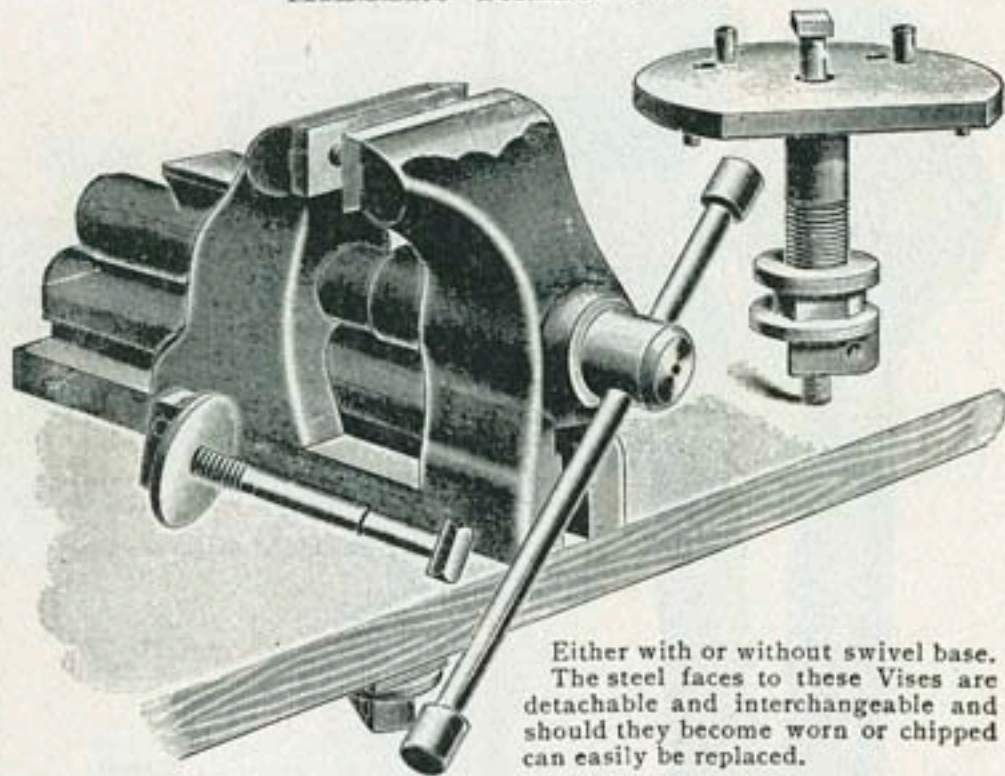
Packed one dozen in a case.

No. 1. Lift, 12 to 32 in.; length of lever, 13 in.; will raise 1,000 lbs.; weight, 11 lbs. Priceper dozen, \$18 00

No. 2. Lift, 14 to 34 in.; length of lever, 16 in.; will raise 1,500 lbs.; weight, 16 lbs. Price..... .. per dozen, \$27 00



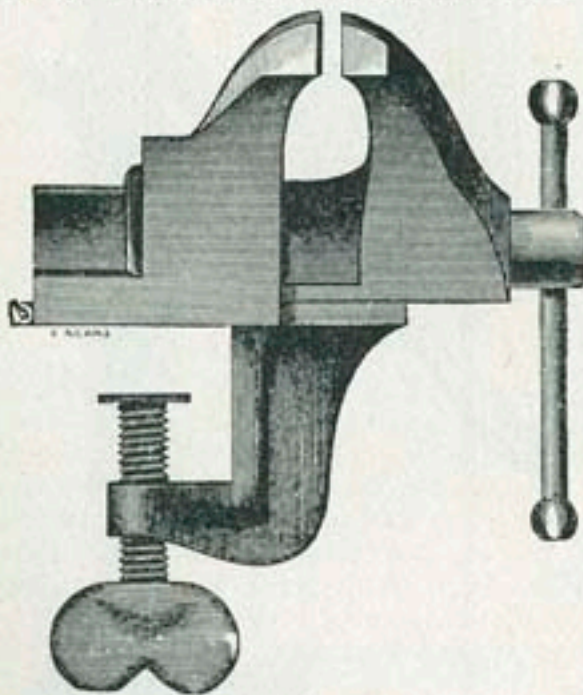
MILLERS FALLS VISE.



Either with or without swivel base.
The steel faces to these Vises are detachable and interchangeable and should they become worn or chipped can easily be replaced.

Width of jaw,	2,	2½,	3,	3½,	4,	4½,	5,	6,	7 in.
Weight,	8,	18,	32½,	42,	46,	54,	76,	102,	168 lbs.
Price of Vise with bolt,	\$4 00.	5 50.	7 00.	9 00.	10 00.	12 50.	17 00.	25 00.	30 00.
Price of Swivel Base		50.	75.	1 00.	1 00.	1 25.	1 50.	1 75.	2 00.

N. B. When Swivel Bases are wanted so specify on order.

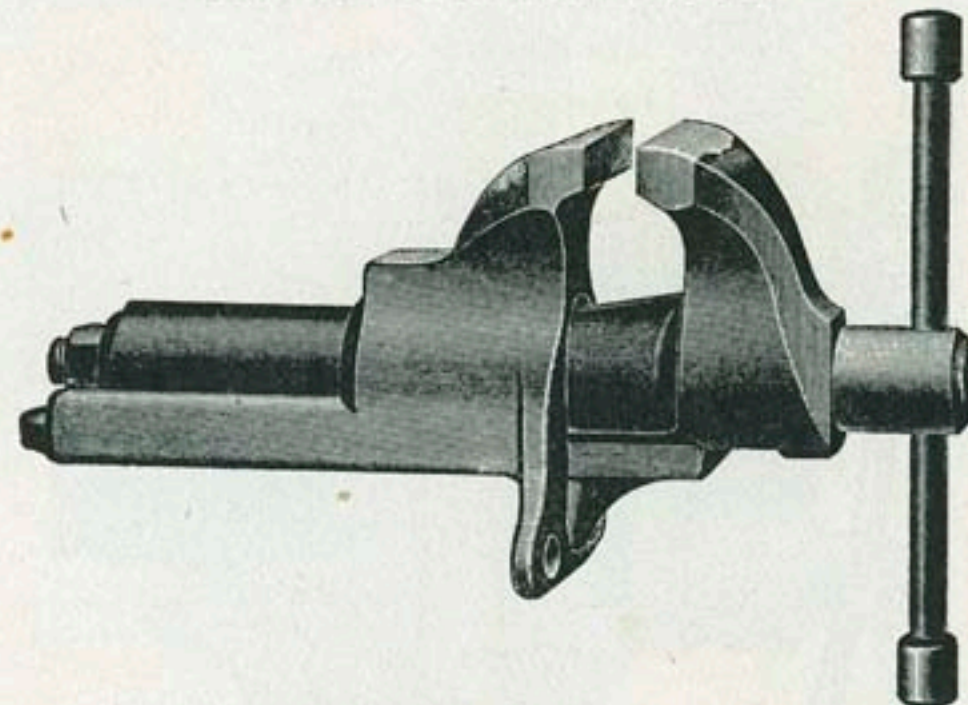


OVAL SLIDE CLAMP VISE.

Width of Jaw.	Wt.	Price.
1¼ inches.	2½ lbs.	\$1 25
1¾ " "	3½ " "	1 50

Not so low in price as some other makes, but the quality warrants our figures.

OVAL SLIDE PARALLEL VISE.

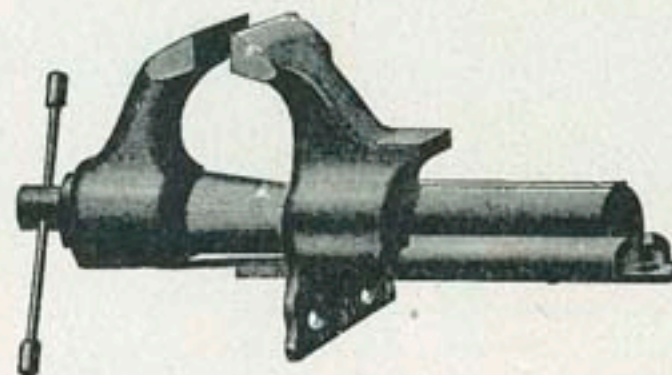


N. B.—Compare weights with other brands.

A nut at rear end of the screw fastens the latter in place. It provides for taking up all wear and in this way prevents any lost motion.

2 inch Jaw, weight, 7 pounds.....each,	\$3 50
2¾ " " " " 11¾ " "	" 2 70
3 " " " " 17¾ " "	" 3 60
3¾ " " " " 27¾ " "	" 4 65
4 " " " " 35¾ " "	" 6 70
4¾ " " " " 41¾ " "	" 9 65

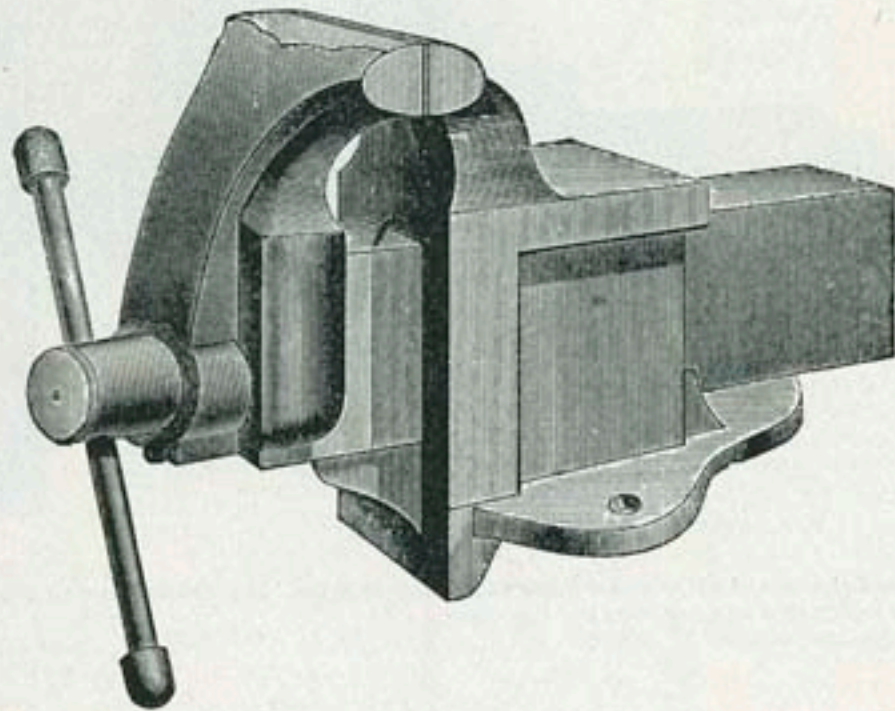
OVAL SLIDE COACH VISE.



Width of Jaw, 4 inches; Depth of Jaw, 3 inches; Opens, 9 inches; Depth from screw cover to top of Jaw, 5½ inches; weighs 45 lbs.

Priceeach, \$8 00

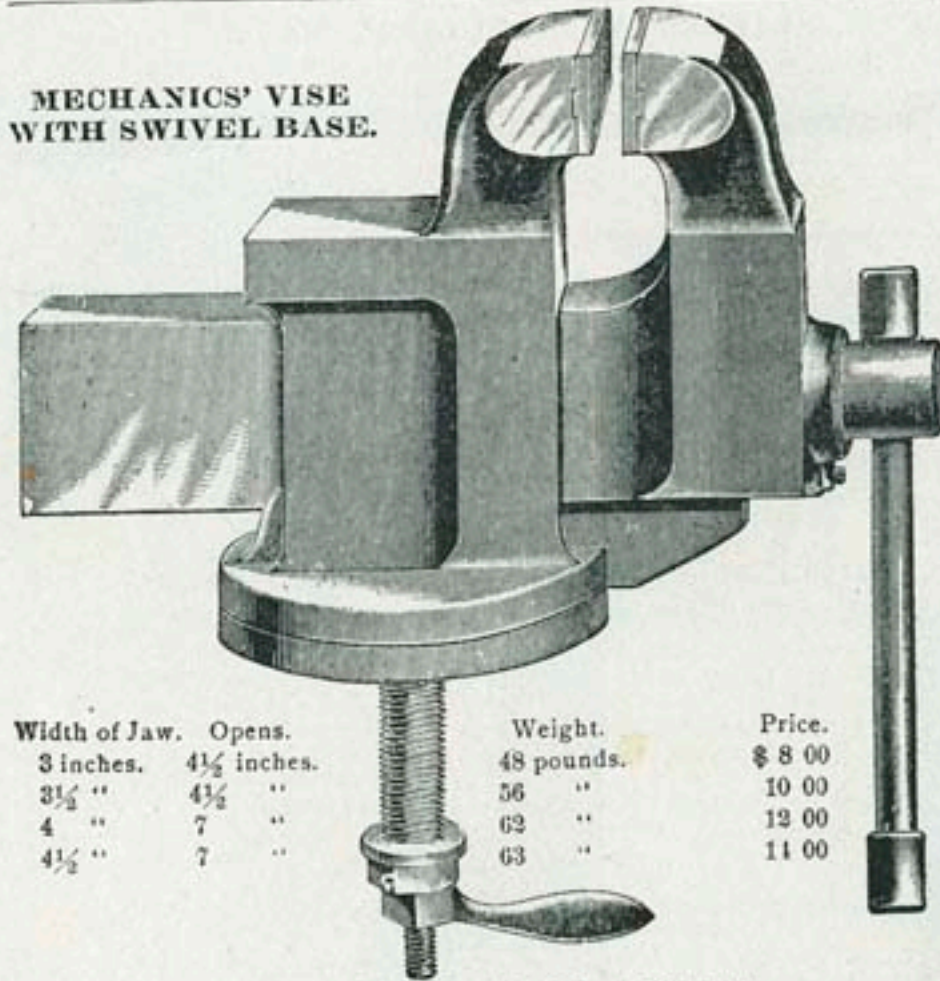
MECHANIC'S VISE.
Inserted Steel Jaws.



It will trouble you to find another Vise which will compare favorably in merit and finish with this, our Mechanic's pattern. Both jaws and anvils are steel-faced. The jaw faces are detachable and can be replaced at pleasure. Observe the weights.

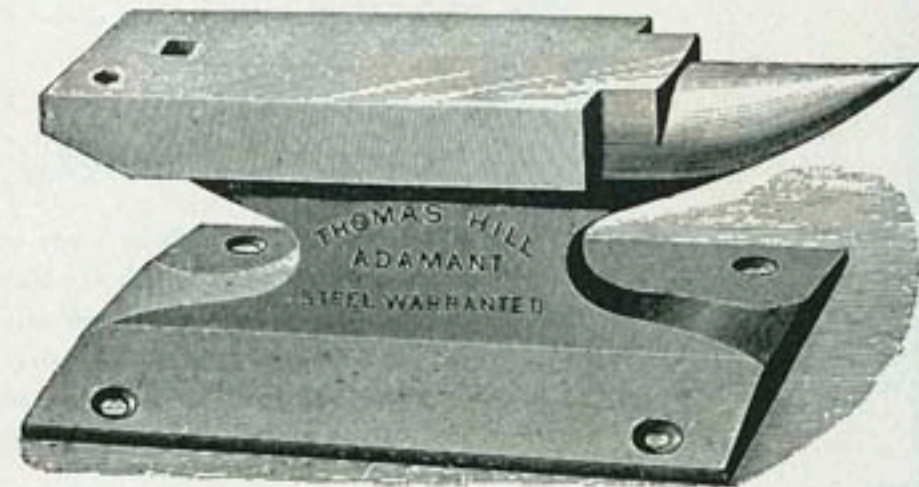
Width of Jaw.	Opens.	Weight.	Price, each.
1½ inch	2½ inches	3½ pounds	\$3 00
2 "	3½ "	11 "	4 00
2½ "	3½ "	22 "	5 50
3 "	4½ "	41 "	7 00
3½ "	4½ "	41½ "	9 00
4 "	5 "	54½ "	10 00
4½ "	5 "	55 "	12 50
5 "	6 "	78 "	17 00

MECHANICS' VISE WITH SWIVEL BASE.



Width of Jaw.	Opens.	Weight.	Price.
3 inches.	4½ inches.	48 pounds.	\$ 8 00
3½ "	4½ "	56 "	10 00
4 "	7 "	62 "	12 00
4½ "	7 "	63 "	11 00

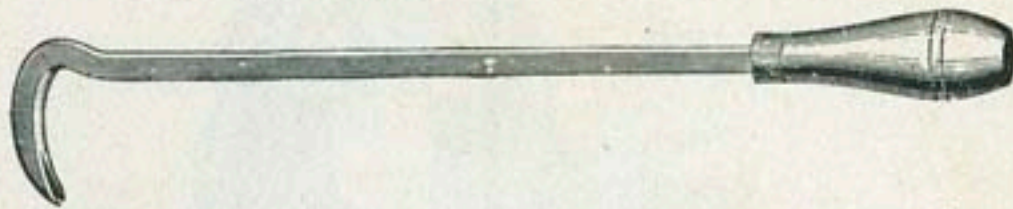
HILL'S SOLID STEEL ANVILS.



No. 1.—5 inches long; 1½ inches wide; weight, 3 lbs.	Price, \$3 00
" 2.—6 " " " " " " " 6½ "	" 2 50
" 3.—7 " " " " " " " 10½ "	" 3 00

These Anvils are not cast into this shape, but are forged from solid steel, and have a suitable anvil temper throughout. The Horn is two inches long, in addition to the length of face given above. The face, sides and horns are nicely polished. The bottom part is japanned. If dealers will take the trouble to show these superior goods, they will sell at sight.

PELICAN NAIL PULLER, No. 2.

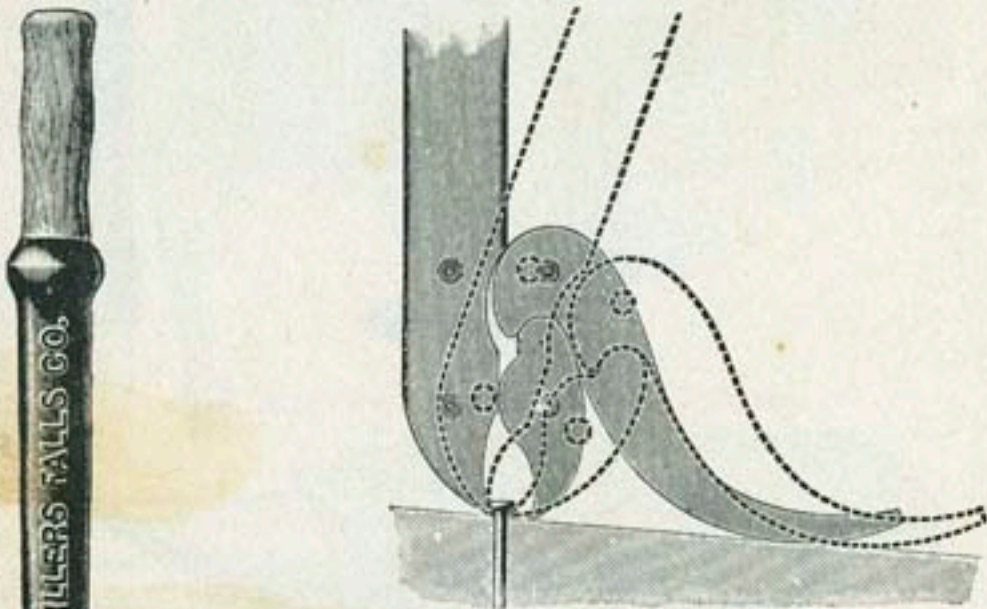


The Pelican Nail Puller is the least expensive, yet the most rapid working nail puller in use. It is made of the best tempered steel and is warranted to do perfect work. It weighs only one pound, and takes but little room in a carpenter's chest. To be worked with a hammer. We regard it as one of the most useful tools we have put upon the market.

Price.....per dozen, \$9 00

Put up one in a package.

MILLERS FALLS NAIL PULLER, No. 3.



This Nail Puller is the result of considerable study in an effort to overcome the objections found in the Nail Pullers upon the market. Owing to the peculiar construction of the jaws they open and shut entirely automatically without the aid of springs—the springs in Nail Pullers heretofore having been a great objection because of breakage.

The body of the cutter is flat and therefore will remain placed when laid down. The handle at the point where grasped is made of wood, which is secured against splitting by having rings inserted at each end.

Price.....per dozen \$12 00

Put up one in a box and two dozen in a case.

JACK SCREWS.

Both roller bearing and ordinary style. If roller bearing Jacks are wanted, so specify on orders, otherwise ordinary style will be sent. Order by numbers and thus avoid errors.



We have experimented much with ball bearing Jacks, and found them very satisfactory when not heavily loaded. Now, instead of balls, we put in rollers as shown in cut. These rollers will stand any load that the Jack will carry, and are not liable to get out of order. We have thoroughly tested these Roller Jacks with a spring balance and find a saving of 75 per cent. of power needed to lift a given weight.

The price is about ten per cent more for Roller Jacks, and the gain is 75 per cent. This ought to insure their sale as fast as the facts become known.

Diameter of Screw.	Height of Barrel	Height of Jack when turned down to the lowest point.	Net Rise.	Whole Height.	Weight.	Estimated Lifting Capacity.	Price.
No. 1, 1 1/2 in.	6 in.	8 in.	4 in.	12 in.	9 1/2 lbs.	No. 1, 5 tons.	\$2 50
" 2, 1 1/2 in.	7 in.	10 in.	6 in.	16 in.	11 lbs.	" 2, 5 "	3 00
" 3, 1 1/2 in.	7 1/2 in.	10 in.	5 in.	15 in.	17 1/2 lbs.	" 3, 8 "	3 25
" 4, 1 1/2 in.	9 in.	12 in.	7 in.	19 in.	23 lbs.	" 4, 8 "	3 75
" 5, 1 1/2 in.	10 1/2 in.	14 in.	9 in.	23 in.	24 lbs.	" 5, 8 "	4 00
" 6, 1 1/2 in.	9 in.	12 in.	6 in.	18 in.	24 1/2 lbs.	" 6, 12 "	4 25
" 7, 1 1/2 in.	10 1/2 in.	14 in.	8 in.	22 in.	28 lbs.	" 7, 12 "	4 50
" 8, 1 1/2 in.	12 1/2 in.	16 in.	10 in.	26 in.	32 1/2 lbs.	" 8, 12 "	5 00
" 9, 1 1/2 in.	15 in.	18 in.	12 in.	30 in.	36 lbs.	" 9, 12 "	5 50
" 10, 2 in.	8 1/2 in.	12 in.	5 in.	17 in.	30 lbs.	" 10, 15 "	5 50
" 11, 2 in.	10 1/2 in.	14 in.	7 in.	21 in.	33 lbs.	" 11, 15 "	6 00
" 12, 2 in.	12 in.	16 in.	9 in.	25 in.	40 lbs.	" 12, 15 "	7 00
" 13, 2 in.	16 in.	20 in.	13 in.	33 in.	44 1/2 lbs.	" 13, 15 "	8 00
" 14, 2 1/2 in.	10 in.	14 in.	8 in.	22 in.	50 lbs.	" 14, 20 "	8 50
" 15, 2 1/2 in.	12 in.	16 in.	10 in.	26 in.	6 1/2 lbs.	" 15, 20 "	9 50
" 16, 2 1/2 in.	15 1/2 in.	20 in.	14 in.	34 in.	67 lbs.	" 16, 20 "	11 00
" 17, 2 1/2 in.	20 in.	24 in.	18 in.	42 in.	81 1/2 lbs.	" 17, 20 "	13 00

CAR JACKS.

Diameter of Screw.	Height of Barrel	Height of Jack when turned down to the lowest point.	Net Rise.	Whole Height.	Weight.	Estimated Lifting Capacity.	Price.
No. 17 1/2, 2 in.	6 in.	10 in.	4 in.	14 in.	24 lbs.	No. 17 1/2, 15 tons	\$5 00
" 18, 2 in.	8 1/2 in.	12 in.	5 in.	17 in.	30 lbs.	" 18, 15 "	5 50
" 19, 2 in.	10 1/2 in.	14 in.	7 in.	21 in.	32 lbs.	" 19, 15 "	6 00
" 20, 2 in.	12 in.	16 in.	9 in.	25 in.	40 lbs.	" 20, 15 "	7 00

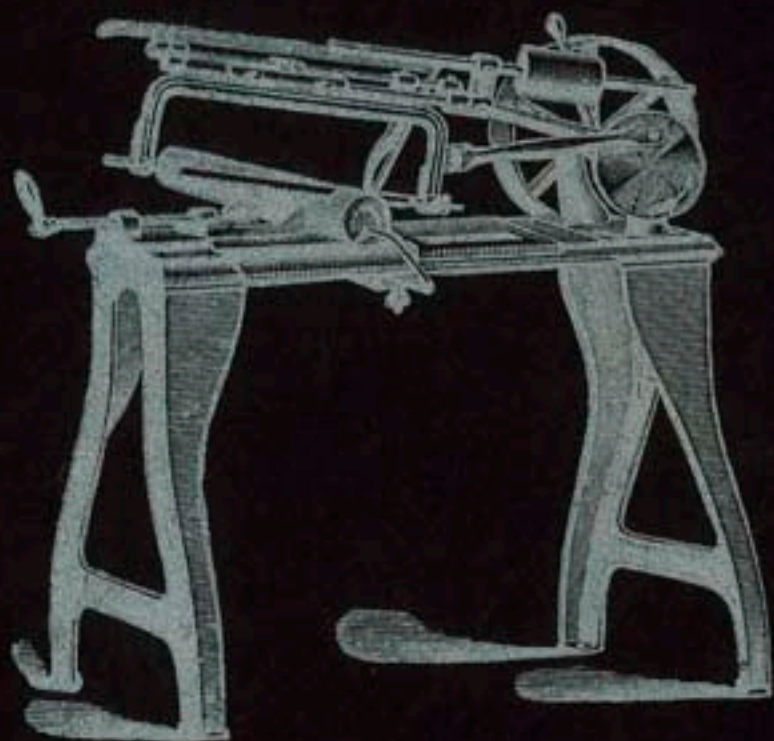
These Jacks have cast iron barrels, with steel screws cut in a lathe. There are no better Jacks made.

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★ The Star ★
Hack Saw Machine

(SEE PAGE 32)



MILLERS FALLS CO.

28 Warren Street
New York, U.S.A.