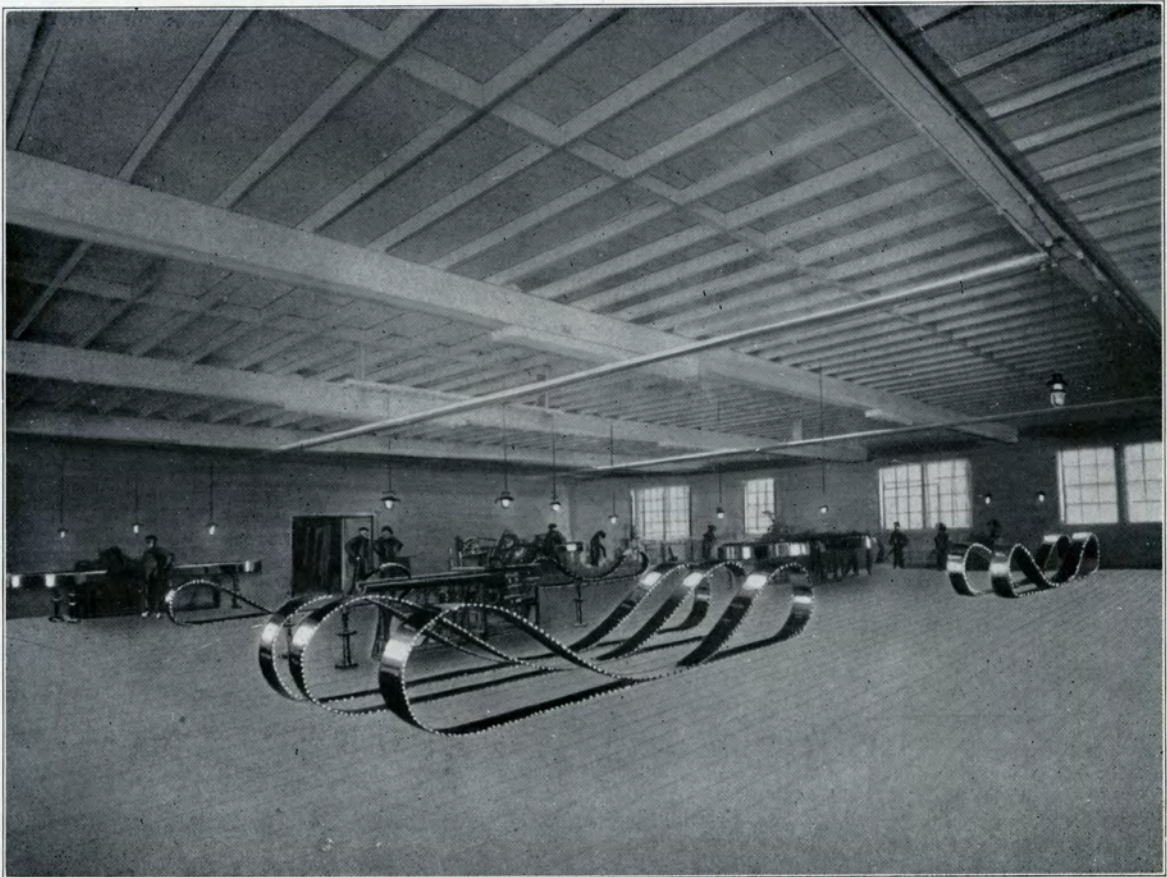


BULLETIN No. 39



FILING ROOM EQUIPMENT



FILING ROOM OF MODERN MILL

The design and equipment of the filing room of the saw mill is one of the important details that does not always receive the consideration it should. We furnish plans and equipment complete.

We present herewith machines suitable for yellow pine and hardwood as usually used in the south. We can however furnish any machines required other than shown here.

Description of Automatic Band Saw Sharpeners

No. 150, 140, 130, 120.

No. 150-D, 140-D, 130-D.

All of these machines are equipped with our patented automatic idler attachment.

These machines are constructed with a heavy square frame to overcome all vibration. The gate or slide has a V shaped gib on both sides and the wear can be taken up by simply adjusting one gib. The emery wheel arbor bracket is held in such a way that it can be adjusted so that a straight emery wheel will do the work of a concave one. The head can be adjusted to an angle of 45 degrees to accommodate the hook on teeth of saws. The gate rod is connected by a pair of steel bevel gears to the handle in the front part of the machine, bringing it handy to the operator in adjusting the emery wheel, and also out of the way when a saw is put over the machine, as it does not have to be lifted too high. The emery wheel arbor has three speeds.

On the No. 140 and No. 150 machines, the saw is raised and lowered by means of a crank and spocket chain as shown in cut, this turns the upright screw in front plate to which saw rest is fastened, by bevel gears.

On the No. 120 and No. 130 machines, the saw is raised and lowered by a hand wheel on the side of the machine which is connected to a lever pivoted about four inches from the end. The other end being fastened to the block in the front plate which carries the saw rest. With these adjustments it is unnecessary to bend under the saw to raise or lower it and the adjusting screw cannot become covered with emery dust. The rest which the saw slides on has four wearing surfaces and is made of very hard steel to give long wear, and it can easily be replaced.

The cam shaft has two speeds and is driven by cone pulleys on the side of the machine. The belt is on the outside and is very easy to regulate or shift.

The slot in the lift arm is very handy in getting the different sizes of teeth. By moving the bottom end of the gate rod out on the slot in the lift arm or away from the pivot end, the machine will grind a deeper tooth. The lift arm should be kept at about a right angle to gate. It is also furnished with an adjustable cam, which is so constructed that it can be moved on the holder without disturbing it. In this way one cam will give a large assortment of different shaped teeth.

The back feed furnished with these machines are simple, positive and strong. The long shaft which is put at the bottom of the machines carries a rocker arm that works against the back feed cam. The back feed cam is round and adjusted from the center to give more throw on the back feed finger, or for less throw, adjust the center to give more throw on the back feed finger, or for less throw, adjust toward the center. In this way the cam acts as an adjustable eccentric. The back feed finger is supported by the back feed arm on the back end of the long shaft, is made so the finger can be turned out of the way and let the saw be lifted away from the machine without interfering.

The feeding mechanism is the most essential part of an automatic saw grinder and in this respect our machines are made strong and accurate. The feed arm is pivoted at the bottom of the frame, making push on saw, almost a straight line. It is also constructed in such a way that when it feeds the saw ahead, it also holds it down to the saw rest so it cannot climb.

On the No. 140 and 150 machines the lower support of feed arm is mounted on shaft, which has babbbitted bearings on each side, this works easily on shaft causing very little wear and friction, leaving hole in feed arm always round.

A very important feature of the feed mechanism is the front or feed cam which is so constructed as to overcome all unnecessary strain.

All connecting rod ends are forked or have double bearing, so as to go over arms and levers, and in this way the push or pull is even and the wear is therefore uniform on all bolts and bearings.

The feed finger slide is made of very hard tempered steel, and it is very easily replaced. These machines have a feed finger stop adjustable by means of a hand wheel.

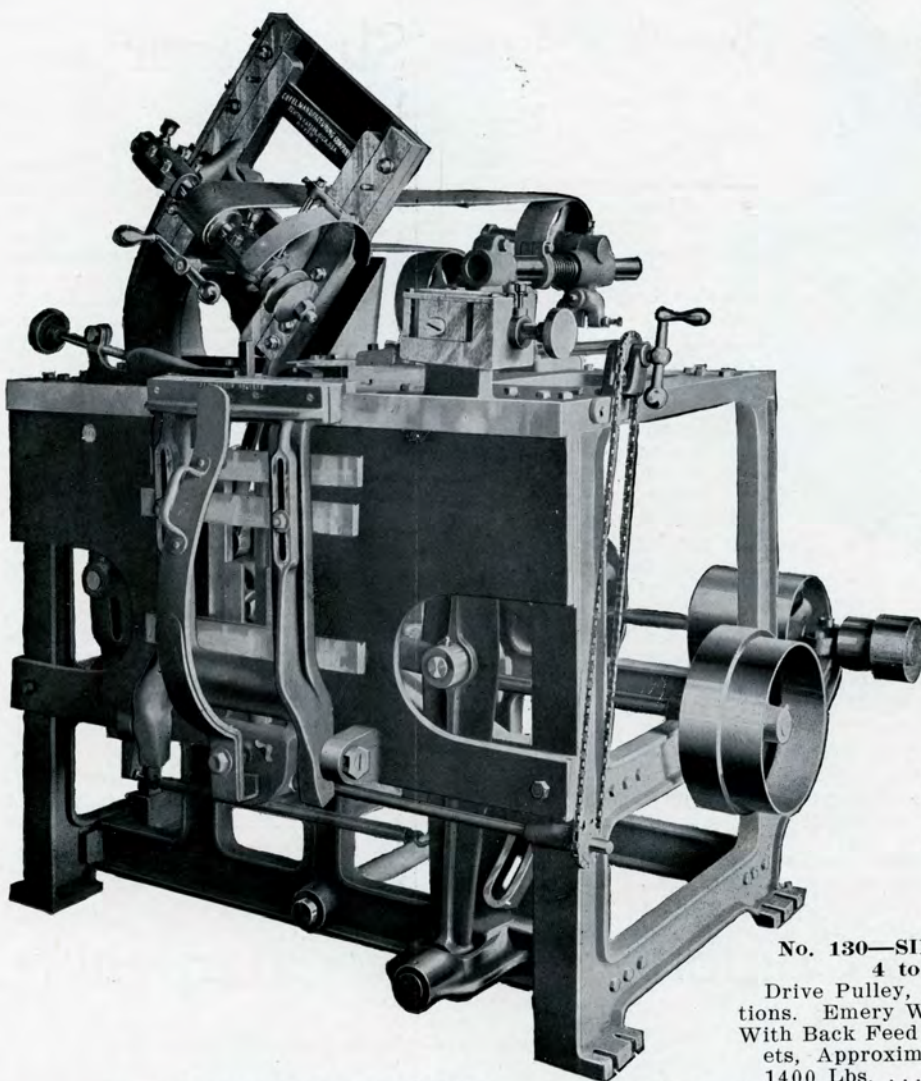
On the No. 150 machine, the front feed finger is our patented adjustable knife shaped finger made of flat piece of high speed steel, $\frac{1}{8} \times \frac{5}{8}$ inch. Saw can be fed either in the swage or if preferred in the throat or gullet of the tooth. When feeding in the swaged part of the tooth, the emery wheel will grind each tooth exactly alike. The finger is adjustable and has many wearing surfaces, and when worn can easily be removed. Pin or bolt that fastens finger to feed arm is tapered and wear can be taken up, doing away with the lost motion. The feed finger has a double bearing in the feed arm which is the most practical way to insure long life in a heavy automatic saw grinder.

The No. 140 and No. 130 machines are also furnished with the knife shaped feed finger. The pin or bolt that fastens to feed arm is made straight, $1\frac{1}{8}$ inch in diameter and the holder is of cast iron. There is a steel plate $\frac{1}{4}$ inch thick on the feed arm which the feed finger bears against. This plate can easily be removed when worn and also keeps the dust away from the working parts on top of feed arm.

The No. 120 machine is furnished with a round offset feed finger pin $\frac{3}{8}$ inch in diameter, and the pin or bolt that holds the finger to feed arm is of smaller diameter.

All sizes and shapes of teeth can be sharpened from 1 inch to 4 inch space. With each machine we furnish five cam forms that will give as many different styles of teeth ordinarily used. Should any other shape of tooth be desired, we can make a cam to conform to it.

On the double cut grinders the front bar on which the saw slides, is furnished with hardened square steel pieces for saw to rest on, and being made square, the four surfaces can be used. The bars are four feet long, and on the No. 150 five feet, and are made to open up so that saw can be easily put in place.



Latest Style Covel Band Saw Sharpeners

**SINGLE OR DOUBLE
CUT SAWS**

**Equipped with Patent
Automatic Idler
Attachment**

Belt shown in cut is
furnished.

Other belt and Emery
Wheel on any of these
machines \$3.00 extra.

Machine is furnished
regular with wrenches,
oil cups and five cam
forms.

Prices F. O. B. Factory

No. 150 SINGLE CUT MACHINE 10 to 20 inch Saws

Drive Pulley, 10x4 inches. 400 Revolutions.
Emery Wheel, 12x $\frac{1}{8}$ inch hole.
With 5 Post Brackets and Back Feed; Ap-
proximate Weight 2400 Lbs. \$400.00
With 8 Post Brackets and Double Back Feed
for R. and L. Saws; Approximate
Weight 2500 Lbs. 425.00
With Set No. 12 5-ft. Extra Heavy Pulleys
and Stands; Approx. Ship. Wt. 2700 Lbs. 475.00

No. 150D—DOUBLE CUT SAWS

With Back Feed and 8 No. 7 Post Brack-
ets, Approximate Weight 3000 Lbs. \$450.00

No. 140—SINGLE CUT MACHINE 6 to 16 inch Saws

With Back Feed and 5 Post Brackets, Ap-
proximate Shipping Weight 1750 Lbs. \$300.00
With Double Back Feed and Post Brackets,
for Right and Left Saws; Approximate
Shipping Weight 2000 Lbs. 320.00
With Set of No. 12 5-ft. Extra Heavy Pul-
leys and Stands, no Back Feed; Approxi-
mate Shipping Weight 1900 Lbs. 360.00

No. 140D—DOUBLE CUT SAWS

With 8 No. 7 Double Cut Post Brackets and
Back Feed; Approximate Shipping
Weight 2200 Lbs. 360.00

No. 130—SINGLE CUT MACHINE 4 to 14 inch Saws

Drive Pulley, 10x3 inches. 400 Revolu-
tions. Emery Wheel, 12x $\frac{1}{8}$ inch hole.
With Back Feed and 5 Post Brack-
ets, Approximate Shipping Wt.
1400 Lbs. \$250.00

With Double Back Feed and 8 Post Brack-
ets, for R. and L. Saws; Approximate
Shipping Weight 1600 Lbs. 265.00
With Set No. 12, 5-ft. Regular Pulleys and
Stands, but without Back Feed and Post
Brackets; Approx. Ship. Wt. 1600 Lbs. 300.00

No. 130D—DOUBLE CUT SAWS

With Back Feed and 8 No. 7 Brackets; Ap-
proximate Shipping Weight 1900 Lbs. 310.00

No. 120—SINGLE CUT MACHINE 4 to 8 inch and 4 to 10 inch Saws

Drive Pulley, 10x2 $\frac{1}{2}$ inches. 525 Revolutions.
Emery Wheel, 10x $\frac{1}{8}$ inch hole.

4 to 8 inch, with Back Feed and 3 Post
Brackets; Approx. Ship. Wt. 1100 Lbs. \$165.00
4 to 8 inch, with Set of No. 12 Light Pattern,
4 foot Wood Pulleys; Approx. Shipping
Weight 1250 Lbs. 190.00

4 to 8 inch, with 5 Post Brackets and Double
Back Feed for R. and L. Saws; Approxi-
mate Shipping Weight 1350 Lbs. 175.00

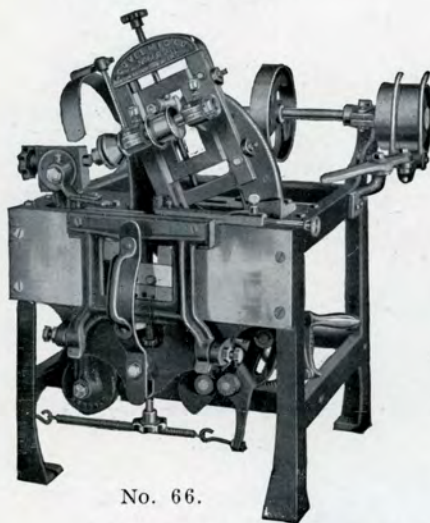
4 to 10 inch, with Back Feed and 5 Post
Brackets, Approx. Ship. Wt. 1200 Lbs. 185.00

4 to 10 inch, with Set of No. 12 Light Pat-
tern 4 foot Wood Pulleys; Approximate
Shipping Weight 1350 Lbs. 205.00

4 to 10 inch, with 8 Post Brackets and
Double Back Feed for R. and L. Saws;
Approx. Shipping Weight 1350 Lbs. 195.00

Automatic Band Resaw Sharpener

Capacity 2 to 6 inch saws.



No. 66.

This machine is constructed along the same lines as our larger band saw sharpeners and has all the adjustments so that any shape tooth, especially the round back one, can be made.

Head which carries emery wheel has a 60 degree angle shaped slide on both sides and the wear can be taken up by adjusting one gib.

Arbor bracket is so made that a straight emery wheel can be adjusted to grind the same as a concave or convex wheel.

Feed arm is pivoted at extreme bottom of frame, giving almost a straight line push to the saw. Feed finger has all wearing parts of hardened steel and can easily be renewed.

Furnished with one speed to emery wheel and two to the feed mechanism.

When furnished with pulleys and stands we send a set of 30-inch wood pulleys with lugs to carry saw and one set of Bench stands for same. One end adjustable and the other stationary.

We do not furnish it with back feed and post brackets, as it has been our experience that small bandsaws are carried through the sharpener more accurately on pulleys and stands than with post brackets.

Furnished regular with wrenches, oil cups and eight cam forms.

Will sharpen all shapes of saw teeth from $\frac{3}{4}$ to $1\frac{3}{4}$ inch space.

Tight and loose pulleys, $5\frac{1}{2}$ inches diameter by $1\frac{1}{2}$ inch belt, speed 650 revolutions per minute.

Size of emery wheel, 8-inch diameter, $\frac{5}{8}$ -inch hole. Thickness to suit size of saw teeth.

Floor space of machine, 22-inches by 27-inches. Extreme height, 34-inches. Cut shows right hand machine.

Prices F. O. B. Factory.

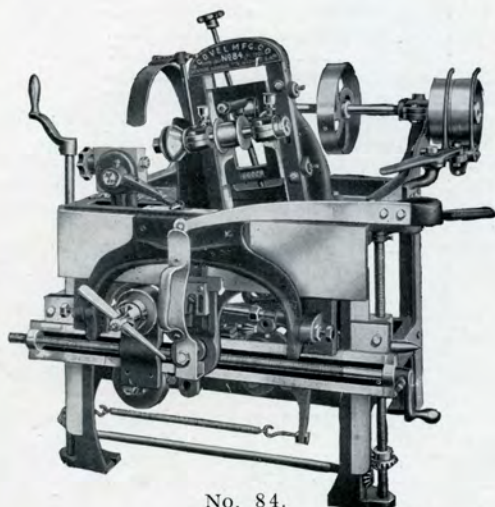
Machine Only, Approximate Shipping Weight 300 Lbs.	\$75.00
Machine, with Pulleys and Stands, Approximate Shipping Weight 450 Lbs.	85.00

We can furnish emery wheel and belt for this machine for \$3.00.

This machine furnished with electric motor. Price on application.

Automatic Combination Saw Sharpener

For small rip circular saws and small band resaws.



No. 84.

Capacity, Circular rip saws, 8 to 24 inches diameter.

Capacity, Band resaws 2 to 6 inches wide.

The frame and working parts of this machine is the same as our No. 66 (see above).

It is furnished with a front plate which carries the band resaw while being sharpened. This is easily removed when circular saws are to be sharpened.

Has all the adjustments, to any shaped saw tooth within its capacity.

Furnished regular with wrenches, oil cups, eight cam forms and saw cones to take eyes from $\frac{7}{8}$ to $1\frac{7}{8}$ inches.

When wanted combination, this machine is furnished with a set of 30-inch wood pulleys, and bench to carry same, for the band saws. Made right hand only as shown in cut.

Pulleys on countershaft, $5\frac{1}{2}$ inches diameter, $1\frac{1}{2}$ -inch belt.

Speed 650 revolutions per minute.

Emery wheel, 8 inches diameter, $\frac{5}{8}$ -inch hole. Thickness to suit size of saw teeth.

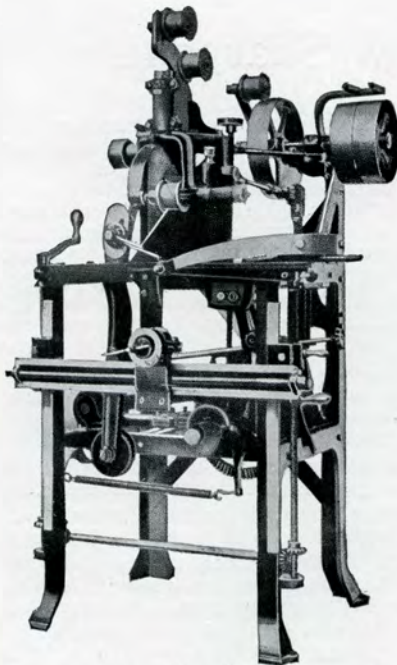
Floor space, 32 inches by 29 inches. Extreme height, 34 inches.

Prices F. O. B. Factory.

Combination Machine, Approximate Shipping Weight 400 Lbs.	\$100.00
Circular Only, Approximate Shipping Weight 350 Lbs.	75.00

Emery wheel and belt for this machine, \$3.00.

This machine furnished with electric motor. Price on application.



No. 95.

BOTH FOR RIP OR CROSS CUT SAWS.

Capacity: Cross Cuts, 12 to 84 inches; Rip Saws, 16 to 84 inches.

Two speeds to emery wheel and feed mechanism.

Furnished regular with wrenches, oil cups and covers, five cam forms, and saw cones to take eyes from 1 3/4 in. to 3 1/2 in.

Floor space, 48x60 in. Extreme height, 72 in.

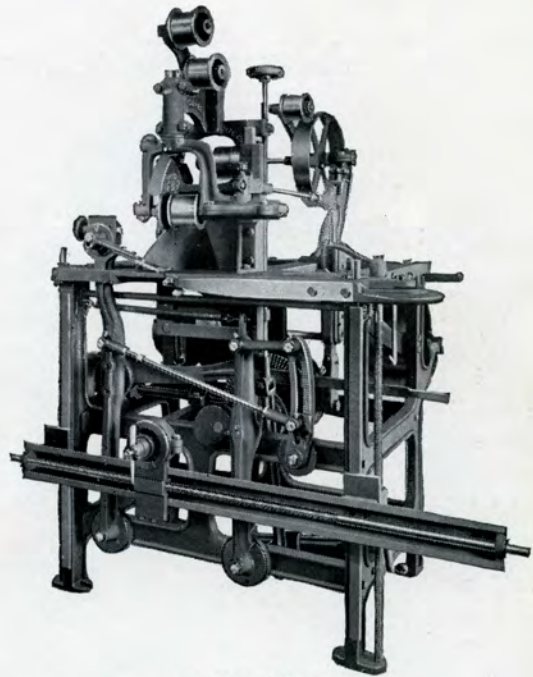
Tight and loose pulleys on countershaft 14 inch diameter, 4 inch belt.

Speed, 185 revolutions per minute.

Size of emery wheel, 12 in. diameter, 1 1/8 inch hole. Thickness to suit size of saw teeth.

F. O. B. Factory, Approximate Shipping

Weight 1500 Lbs. \$225.00



No. 35.

Capacity: Cross Cuts, 8 to 44 inches; Rip Saws, 10 to 48 inches.

Special centering collar and crosshead on either machine for grinding edger saws without removing collars, \$15 extra. Dimensions of collar with order.

Blower furnished if so ordered at \$20 extra.

Emery wheel and belt furnished for \$7.00.

Electric motor furnished. Price on application.

Tight and loose pulleys on countershaft, 10 inch diameter, 2 1/2 inch belt.

Speed 475 revolutions per minute.

Size of emery wheel 10 inch diameter, 1 1/8 inch hole, thickness to suit size of saw tooth.

Floor space, 30x27 in. Extreme height, 65 in.

F. O. B. Factory, Approx. Ship. Wt 750 Lbs. \$165.00

AUTOMATIC CIRCULAR SAW SHARPENER

No. 40—For Both Cross Cut and Rip Saws

Capacity: Cross Cut Saws, 6 to 22 inches diameter; Rip Saws, 8 to 24 inches diameter.

This machine is recommended for factories, such as furniture, piano, wagon, and others using saws within its capacity.

Will grind every tooth exactly the same and can be made to grind the teeth on cut off or cross cut saws as fine as 6 points to the inch, by using a very thin emery wheel. This is special. As furnished regular will grind only as fine as 4 points to the inch.

Will grind rip saw teeth up to 1 1/2 inches from point to point and all smaller sizes.

Can be furnished special to grind saws up to 30 in. diam.

Furnished regular with wrenches, oil cups, eight cam forms to grind teeth from 1/4 to 1 1/2 inch space of teeth and saw cones to take eyes from 7/8 inch to 1 1/8 inch.

Tight and loose pulleys on countershaft 5 1/2 in. diameter, 1 1/2 inch belt. Speed, 600 revolutions per minute.

Size of emery wheel 8 inch diameter, 5/8 inch hole. Thickness to suit size of saw teeth.

Floor space, 24x21 inches. Extreme height, 42 inches.

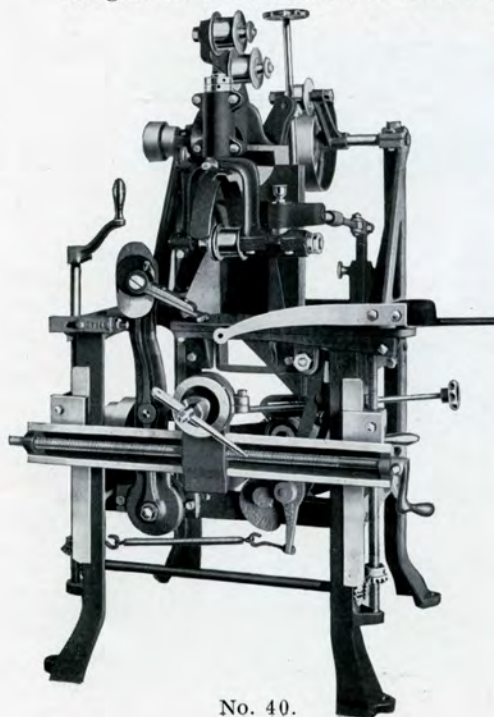
F. O. B. Factory, Approx. Shipping Weight 300 Lbs. \$100.00

Extra for fitting machine so that it will sharpen fine teeth saws less than 3 points to inch and as fine as 6 points, \$10.00.

Blower furnished if so ordered at an extra cost of \$8.00.

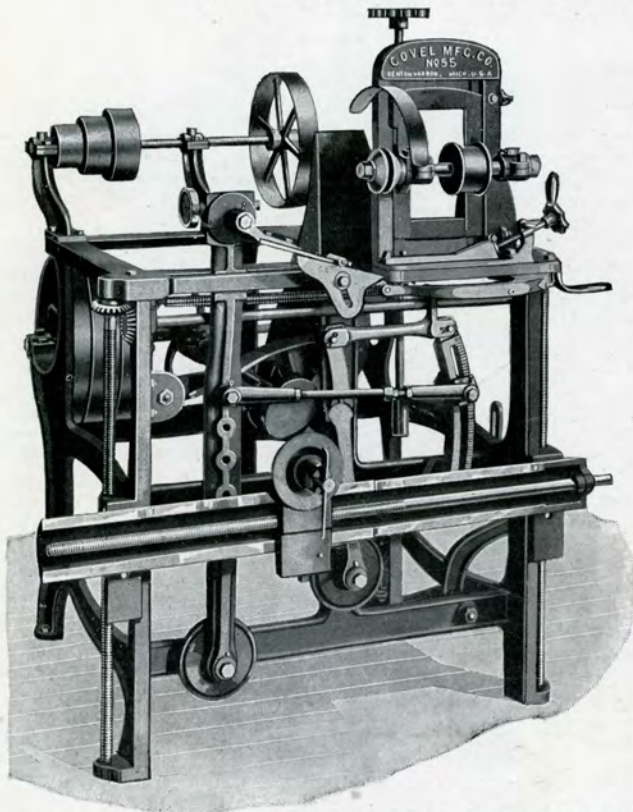
Emery wheel and belt furnished for \$3.00.

Furnished with electric motor. Price on application.



No. 40.

Automatic Circular Saw Sharpener



Constructed with a square frame, well bolted and fastened together. Has all the improvements demanded for the perfect fitting of saws. All parts are of ample size and strength to do the work required of them. Main gears all cut from the solid and all wearing surfaces planed, making a smooth, quiet running machine, and very economical with power.

The head or gate to carry emery wheel has angle shaped slides or ways so that it is only necessary to adjust one gib to keep the head in alignment, this insures even grinding.

Arbor bracket so furnished so that a straight emery wheel will grind the same as a concave or convex one.

Furnished with all adjustments necessary for sharpening a large range of saw teeth.

Furnished regular with wrenches, oil cups, six cam forms and cone to take from 1 7/8 to 2 5/8 in. eye.

Pull spring furnished to operate feed arm and finger, insuring even and smooth feeding. Spring is bushed with collar to make it more lasting.

Will sharpen inserted tooth saws without removing the points.

Fitted with three speeds to emery wheel and one to feed mechanism.

Floor space, 48x48 in. Extreme height 58 in.

Pulleys on countershaft, 12 in. diameter, 2 1/2 in. belt.

Speed 200 revolutions per minute.

Emery wheel, 12 in. diameter, 1 1/8 in. hole, thickness to suit size of saw teeth.

Approximate shipping weight, 850 pounds.

No. 55—AUTOMATIC CIRCULAR SAW SHARPENER Price F. O. B. Factory.....\$175.00
Capacity—Rip Saws, 12 to 72 inches.

We can furnish special cross head and centering collar for this machine so that it will grind edged saws without removing the collars, at \$15.00 extra. Dimensions of collar to be sent with order.

We can furnish emery wheel and belting for this machine for \$6.00.

This machine furnished with electric motor. Price on application.

Kinney Improved Swage

No. 13

FOR LARGE CIRCULAR OR GANG SAWS

This swage we guarantee to be the most powerful, heaviest and reliable of any swage manufactured. It will swage the heaviest circular saw with ease, it will also work perfectly on gang saws.

Dies, and all working parts are made very large and of highly tempered steel. Can be easily replaced when worn. Swage, when in use is fastened to poster or wall to use the lever conveniently. Hanger and tackle blocks are furnished to lift the saw and hold it for swaging.

Floor space, 18x18 inches.

Extreme height, 24 inches.

Always specify, when ordering, if for circular or gang saws.

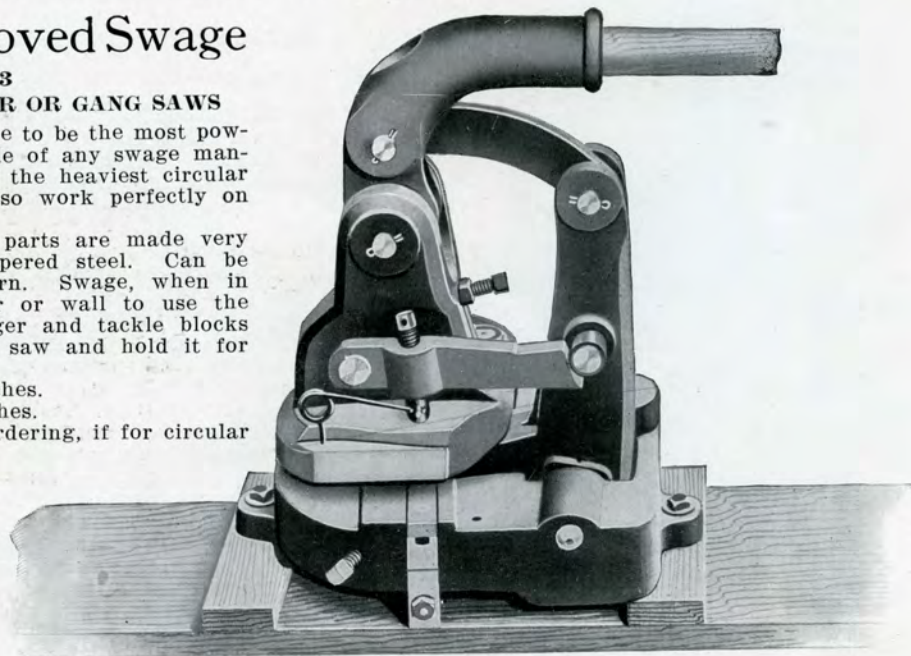
Prices F. O. B. Factory.

For Circular Saws. \$75.00

For Gang Saws... 75.00

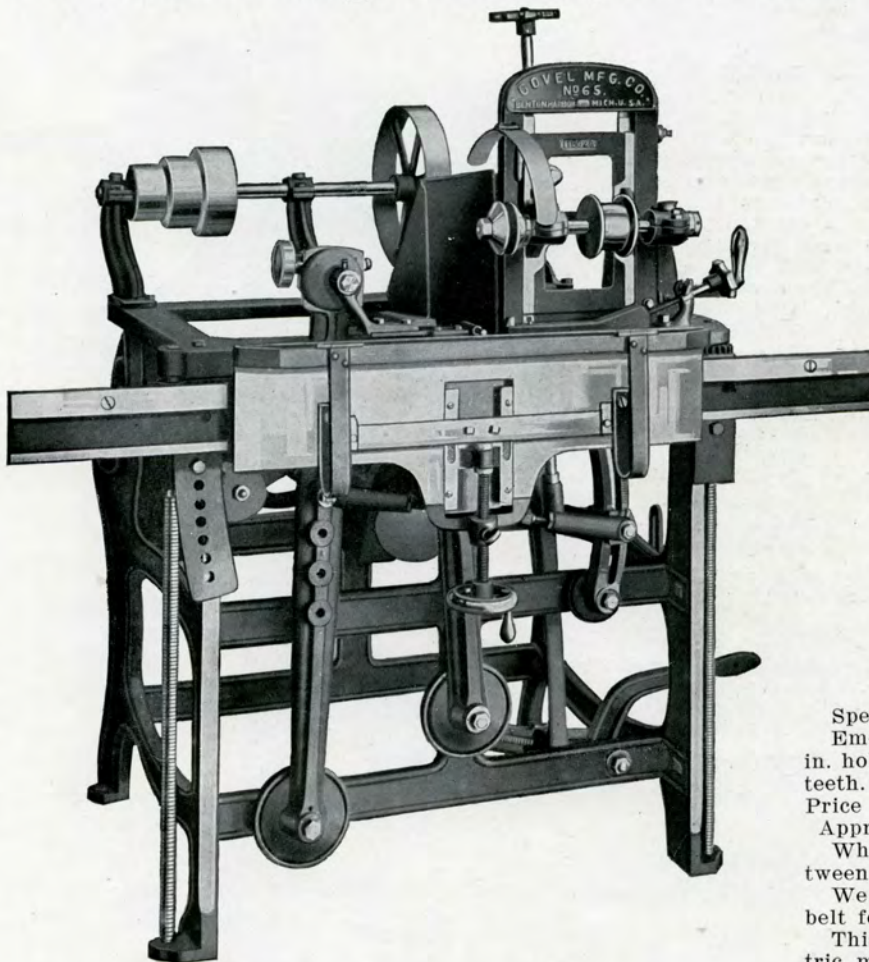
Approximate Shipping

Weight, 300 pounds.



No. 13

Automatic Gang Saw Sharpeners No. 65



Capacity pony saws 30 inches or less between tabs.

The construction of the frame and working parts is similar to our No. 66, having all necessary adjustments essential to make any shape of tooth. This machine is so arranged that when the emery wheel is lifted out of the tooth, the feed finger is also lifted out in the same operation. The carriage to carry saw is all iron and made very strong, being fitted with one adjusting screw in center to raise and lower saw.

Furnished regular with wrenches, oil cups, saw carriage and eight cam forms.

One speed to emery wheel and two to feed mechanism.

Floor space 31 inches by 31 inches. Extreme height, 34 inches.

Pulleys on countershaft 5½ inch diameter, 1½ inch belt.

Speed 650 revolutions per minute.

Emery wheel 8 inches diameter, ⅝ inch hole. Thickness to suit size of saw teeth.

Price F. O. B. Factory.....\$100.00

Approximate Shipping Weight, 275 Lbs.

When ordering give distance between tabs on saws.

We can furnish emery wheel and belt for this machine for \$4.00.

This machine furnished with electric motor. Price on application.

No. 66.

Capacity, 4 inches to 9 inches wide.

Capacity, 2 feet to 5 feet long.

This machine is so arranged that the emery wheel and feed finger are lifted out of a tooth in the same operation. Carriage that holds saw is made all iron, and is very strong and durable, being equipped with just one screw in center to raise and lower the saw.

Carriage so arranged that it runs against rollers to relieve the pressure on the slide. These rollers are adjustable and with them the carriage runs very easy and the wear is reduced to a minimum.

Furnished regular with wrenches, oil cups, carriage for saw, and 6 cam forms.

Floor space 48 in. by 48 in. Extreme height, 58 in.

Pulleys on countershaft 12 in. diameter, 2½ in. belt.

Speed 200 revolutions per minute.

Emery wheel, 12 inch diameter, 1⅝ in. hole, thickness to suit size of saw teeth.

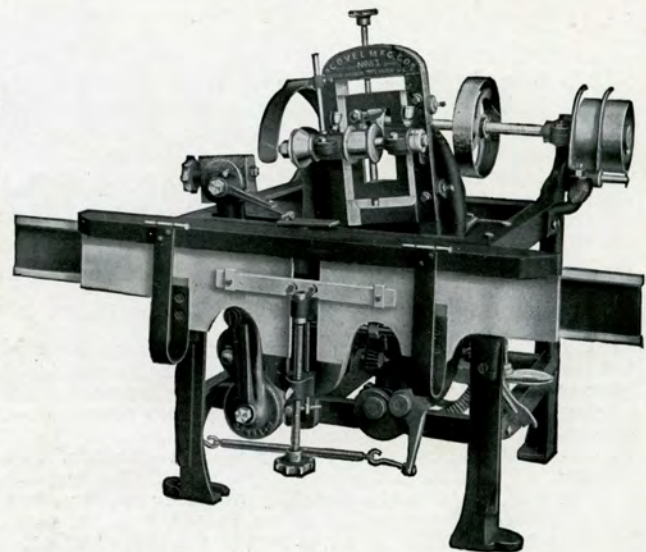
Price F. O. B. Factory.....\$200.00

Approx. Shipping Weight, 900 Lbs.

When ordering give distance between tabs on saws.

We can furnish emery wheel and belt for this machine for \$6.00.

This machine furnished with electric motor. Price on application.



No. 83.

Hand Sharpeners and Gummers

No. 46 LARGE; No. 46 SMALL

Large size made both right and left hand, small size right hand only. It is necessary to specify which hand is wanted when ordering for use on saws with collars, such as shingle and stave saws (cut shows right hand.) Will sharpen either cross cut or rip saws. Note that this machine is constructed somewhat better than the ordinary hand gummer of this description. The saw is raised and lowered by a screw, and in the larger machine the saws are shifted sideways by means of a rack and pinion.

Furnished with adjusting screw to regulate depth of saw teeth.

Saw cones to take eyes in saws from 1 to 2½ inches furnished regular.

Large machine, floor space, 42 inches x 36 inches. Extreme height 66 inches.

Small machine, floor space, 13x16 inches. Extreme height 38 inches.

Pulleys on countershaft, 6 inch diameter, 2½ inch belt.

Speed 1500 revolutions per minute.

Size of emery wheel on large machine, 12 inch diameter, 1½ inch hole; on small machine, 10 inch diameter, 1½ inch hole. Thickness to suit size of saw teeth.

Prices F. O. B. Factory

Large, Approximate Shipping Weight 350 Lbs. \$45.00
Small, Approximate Shipping Weight 200 Lbs. 30.00

We can furnish emery wheel and belt for \$3.00.

Furnished with electric motor. Price on application.



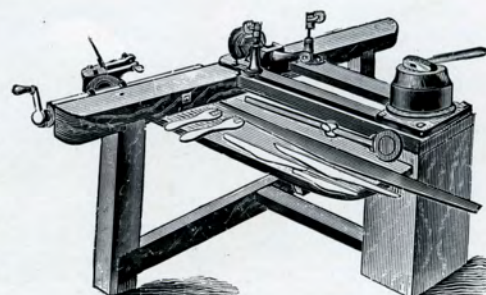
No. 46 Large, 14 to 72 inch Saws.
No. 46 Small, 8 to 40 inch Saws.

Improved Saw Bench

For Hammering or Tensioning Circular Saws.

Including Straight Edges, Hammer, Etc., as Shown in Cut.

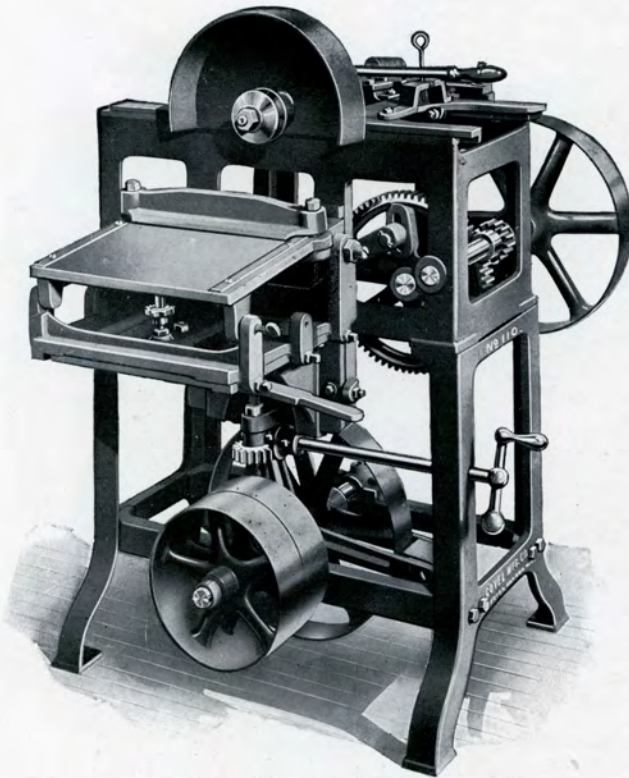
This is without doubt, from our knowledge of what is wanted in every mill, together with the many testimonials we have received from those using them, the best outfit for hammering and the general care of circular saws that has ever been introduced, and accompanying each bench is our "Handy Guide" book, giving all necessary instructions how to remedy any and all defects in the saw. We have added improvements to it of late, making the bench a model acquisition to the file room. Wood frame for bench we do not furnish, as that can be made in the mills the right height for the operator.



No. 8

Price F. O. B. Factory, Approximate Shipping Weight 240 Lbs. \$50.00
"Handy Guide" Book Separately. 2.50

AUTOMATIC SCARFING MACHINES



Nos. 110 and 102

No. 110—Capacity, 12 to 20 inch Saws
 Drive Pulley, 10x3 inches. 400 revolutions.
 Emery Wheel, 12x $\frac{7}{8}$ x $\frac{1}{8}$ inches.

	Approx. Shipping Weight	
12 inch	500 lbs.	\$135.00
14 inch	550 lbs.	145.00
16 inch	600 lbs.	175.00
18 inch	650 lbs.	200.00
20 inch	700 lbs.	225.00

Hand Only		
12 inch	400 lbs.	100.00
14 inch	425 lbs.	105.00
Emery Wheel and Belt, Extra.....		\$5.00

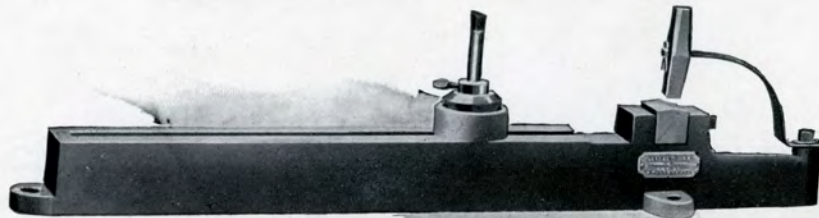
No. 102—Capacity 8 to 20 inch Saws.
 Drive Pulley, 6x3 inches. 450 revolution.
 Emery Wheel, 10 inches diameter, $\frac{1}{8}$ inch hole.
 8 inch Saws..... 400 lbs. \$ 95.00
 10 inch Saws..... 425 lbs. 100.00

Hand Only		
8 inch Saws.....	375 lbs.	65.00
10 inch Saws.....	400 lbs.	70.00
Emery Wheel and Belt, Extra.....		\$4.00

HOG ATTACHMENT EXTRA		
No. 110 Machine		
For 12 inch Knives.....	27 lbs.	\$12.00
For 14 inch Knives.....	30 lbs.	15.00
For 16 inch Knives.....	32 lbs.	18.00
For 18 inch Knives.....	33 lbs.	20.00
For 20 inch Knives.....	35 lbs.	23.00

No. 102 Machine		
For 8 inch Knives.....	27 lbs.	12.00
For 10 inch Knives.....	28 lbs.	12.00

CIRCULAR SAW SET



No. 97

The above Saw Sets are equipped with a setting hammer mounted on a spring so that the angle of the blow of the hammer on the saw is uniform. The force of the blow struck by the setting hammer on the saw depends on the weight of the hammer and the muscular power used. A common hammer of the desired weight can be used.

Furnished regular to take saw eyes from $\frac{3}{4}$ inch to 2 $\frac{3}{4}$ inches. If saws with larger holes are to be set, we charge extra. Prices given upon receipt of specifications.

Prices F. O. B. Factory

	Approx. Shipping Weight	
Capacity 30 inch or Less, without Hammer	35 lbs.	\$ 6.00
Capacity 30 inch or Less, with Hammer.....	40 lbs.	7.50
Capacity 48 inch or Less, with Hammer.....	50 lbs.	10.00
Capacity 72 inch or Less, with Hammer.....	75 lbs.	13.00

Movable Roll Saw Stretcher No. 109

Extra Heavy.

Capacity, 16 and 20 inch Saws.

With or without automatic retoother.

If ordered with automatic retoother, send template of saw tooth and we will make dies to correspond. If no template is received, we will send dies for our regular $1\frac{3}{4}$ inch standard round back tooth.

Pulleys on countershaft 15 inch diameter, 5 inch belt.

Speed 220 revolutions per minute, which will feed the saw 50 ft. per minute.

Floor space 39x55 inches. Extreme height (arm down) 44 inches.



Prices F. O. B. Factory

With Automatic Retoother, 16 inch Saws, Approximate Shipping Weight 1350 Lbs. \$300.00

Without Automatic Retoother, 16 inch Saws, Approximate Shipping Weight 1100 Lbs. 250.00

With Automatic Retoother, 20 inch Saws, Approximate Shipping Weight 1400 Lbs. 350.00

Without Automatic Retoother, 20 inch Saws, Approximate Shipping Weight 1300 Lbs. 300.00

For shearing a saw lengthwise a set of two shear blades can be used in connection with retoother attachment. Price extra, \$20.00.

This machine furnished with electric motor. Price on application.

No. 109

Movable Roll Saw Stretcher No. 82

With or Without Automatic Retoother

Capacity, 14 inch saws and less.

Has the same construction as our No. 109, only that it is not so heavy, and will not take as large a saw, but the essential features are just as strong inch belt.

The same important features are embodied such as clutch for pulleys, improved shifting lever, and brass gear to drive rolls.

If ordered with automatic retoother, send template of saw tooth and we will make dies to correspond. If no template is received, we will send dies for our regular $1\frac{3}{4}$ inch standard round back tooth.

Pulleys on countershaft $12\frac{1}{2}$ inch diameter, 4 in belt.

Speed 235 revolutions per minute, which will feed the saw about 50 feet per minute.

Floor space, 42x36 inches. Extreme height (top arm raised) 57 inches.

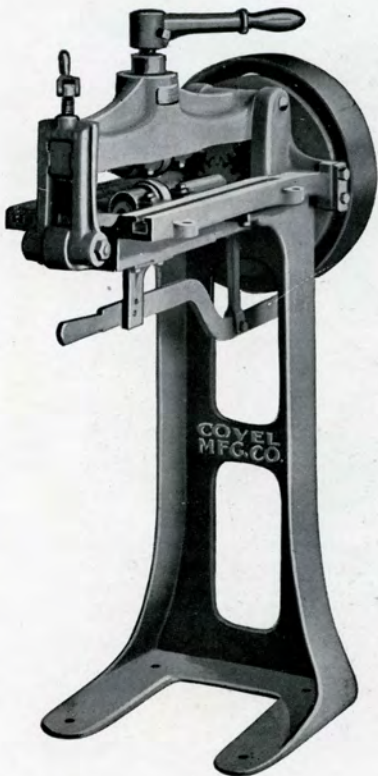
Prices F. O. B. Factory

With Retoother, as Shown in Cut, Approximate Shipping Weight 975 Lbs. \$240.00
Without Retoother, Approximate Shipping Weight 775 Lbs. 200.00

For shearing a saw lengthwise a set of two shear blades can be used in connection with retoother attachment. Price extra, \$20.00.

This machine furnished with electric motor. Price on application.

Saw Stretchers No. 78



SMALL LOG BANDS OR BAND RESAWS

Capacity, 2 to 8 inch saws; 2 to 10 inch saws.
Furnished with or without leg.

The head of this machine is hinged and can be raised conveniently so that the operator can try the tension in the saw and be lowered again for stretching. Both rolls are geared together and are driven by means of an internal gear. The gear is thrown in and out of clutch by means of the hand lever shown in cut, which instantly stops or starts the rolls. This is the most convenient and durable saw stretcher for narrow blades manufactured and we solicit an opportunity to ship it where other saw stretchers are in use that are recommended to be just as good as ours.

Floor space, 8 inch size, on legs, 21x29 inches. Extreme height, 49 inches.

Driving pulley 15 inch diameter by 3 1/2 inch belt.

Speed 200 revolutions per minute, which will feed a saw 30 feet per minute.

Prices F. O. B. Factory.

8 inch Saws, with Leg, as Shown in Cut, Approximate Shipping Weight 375 Lbs.	\$100.00
8 inch Saws, without Leg, Approximate Shipping Weight 300 Lbs.	90.00
10 inch Saws, with Leg, Approximate Shipping Weight 400 Lbs.	110.00
10 inch Saws, without Leg, Approximate Shipping Weight 330 Lbs.	100.00

This machine furnished with electric motor. Price on application.

Saw Stretcher No. 104

Capacity, 2 to 6 inch Saws; 2 to 8 inch saws.

This machine will stretch or tension all saws within its capacity, either gang or band.

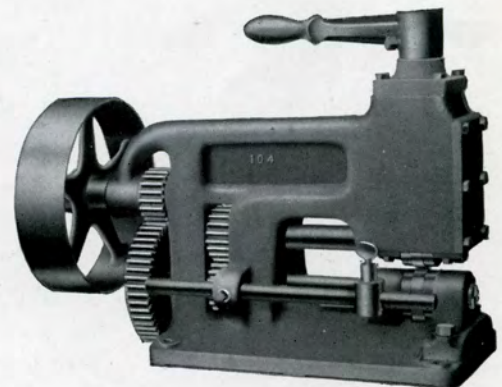
The upper or lower rolls are geared together insuring even tension on both sides of the saw.

Gears used throughout machine are cut from solid, and rolls are made of high grade tool steel, hardened and ground to exact size.

Adjustable guide furnished to guide saw through machine.

Floor space, 6 inch size, 10x22 inches. Extreme height, 16 1/2 inches.

Driving pulley, 10 inch diameter by 2 1/2 inch belt. Speed 100 revolutions per minute, which will feed a saw 27 feet per minute.



Prices F. O. B. Factory.

2 to 6 inch Saws, Approximate Shipping Weight 175 Lbs.	\$70.00
2 to 8 inch Saws, Approximate Shipping Weight 225 Lbs.	80.00

BRAZING FORGE

No. 1

HAND OR POWER

Floor space, 14 inch size, 33x22 inches. Extreme height, 53 inches.

Floor space, 20 inch size, 37x22 inches. Extreme height, 53 inches.

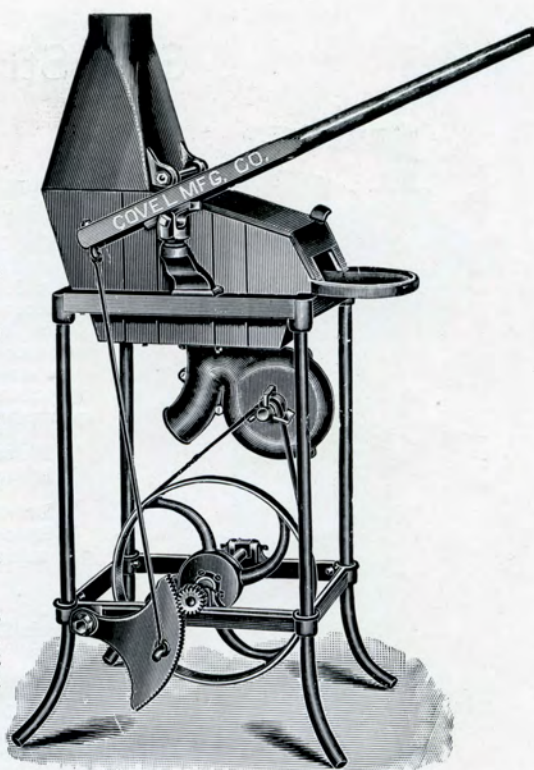
Prices F. O. B. Factory

No. 1—15 inch Fire Box.....\$40.00
Approximate Shipping Weight 300 Pounds

No. 1—20 inch Fire Box..... 50.00
Approximate Shipping Weight 375 Pounds

This machine furnished with electric motor. Price on application.

We can furnish this forge with tight and loose pulleys for power or with hand lever and ratchet as shown in cut. If furnished for both hand and power, \$5.00 extra. Tight and loose pulleys furnished 5½ inches diameter, 1½ inch belt.



BRAZING FORGE

No. 2

HAND ONLY

Floor space, 14 inch size, 33x22 inches. Extreme height, 53 inches.

Floor space, 20 inch size, 37x22 inches. Extreme height, 53 inches.

Prices F. O. B. Factory

No. 2—14 inch Fire Box.....\$45.00
Approximate Shipping Weight 350 Pounds

No. 2—20 inch Fire Box..... 55.00
Approximate Shipping Weight 425 Pounds



No. 101

Brazing Clamp

Capacity: 12 and 14 inch Saws.

One pair of brazing irons furnished with each table

Furnished with or without legs.

Floor space, 49x23 inches. Extreme height on legs, 47 inches.

Prices F. O. B. Factory

12 inch Saws, with Legs, Approximate Shipping Weight 550 Lbs.....	\$58.00
12 inch Saws, without Legs, Approximate Shipping Weight 500 Lbs....	50.00
14 inch Saws, with Legs, Approximate Shipping Weight 650 Lbs.....	68.00
14 inch Saws, without Legs, Approximate Shipping Weight 600 Lbs....	60.00

Brazing Clamp

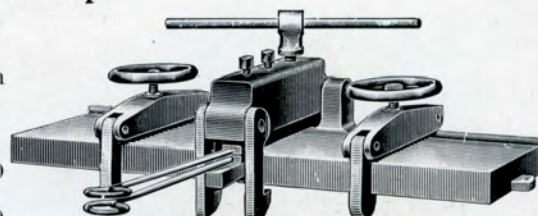
Capacity: 8 and 10 inch Saws.

For Small Log Band Saws and Band Resaws.

Furnished regular with one set of irons planed with handles.

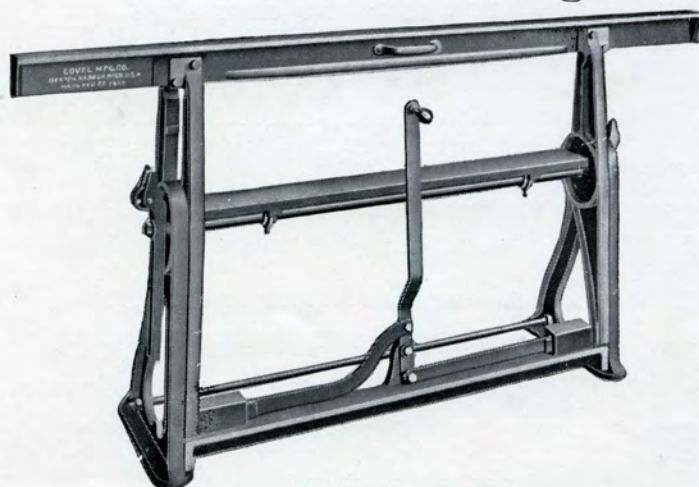
Prices F. O. B. Factory

8 inch Saws or Less, Approximate Shipping Weight 150 Lbs.	\$20.00
10 inch Saws or Less, Approximate Shipping Weight 200 Lbs.	30.00



No. 29

Filing Clamps



No. 62

FILING CLAMP No. 11

For Gang and Band Saws

F. O. B. Factory.....\$50.00
Approximate Shipping Weight 300 Pounds
When ordered for Gang Saws, give distance between tabs.

FILING CLAMP No. 31

For Band Resaws or Pony Gangs

With Legs, Approximate Shipping Weight 160 Lbs.....\$30.00
Without Legs, Approximate Shipping Weight 115 Lbs..... 20.00

OPEN DOWN FILING CLAMP No. 62

6 Feet Long

Made in two sizes: 14 inch saws or narrower; 20 inch saws or narrower.
Floor space, 72x18 inches. Extreme height, 37½ inches.

Prices F. O. B. Factory

14 inch Saws, Approximate Shipping Weight 350 Lbs.....	\$75.00
20 inch Saws, Approximate Shipping Weight 475 Lbs.....	90.00

Note—The construction of the 20 inch Clamp is considerably heavier than shown in cut.

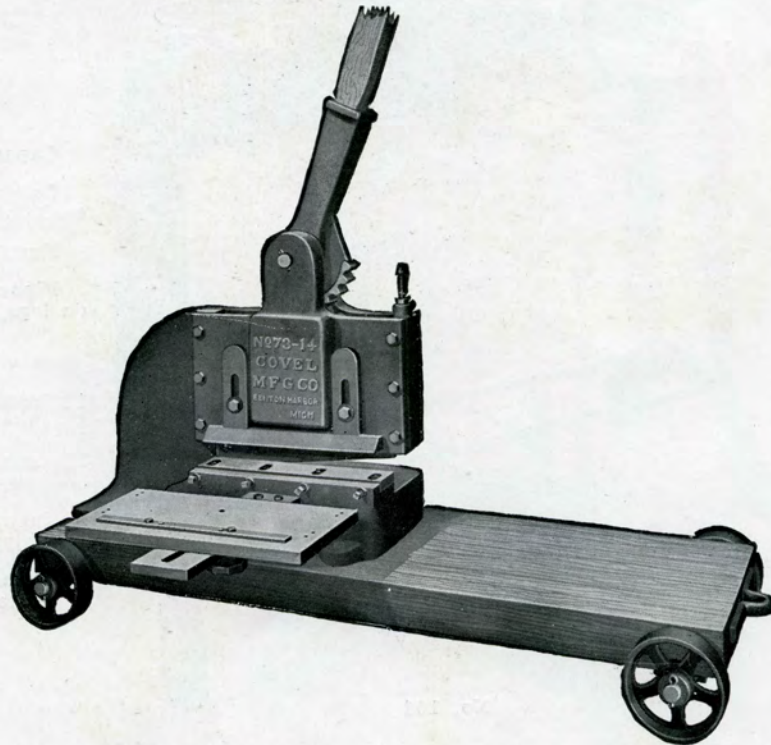
SHEAR

No. 73

FOR BAND OR GANG SAWS

Prices F. O. B. Factory

- 14 inch Shear, no Truck.....\$50.00
Approximate Shipping Weight,
500 Pounds
- 14 inch Shear, with Truck....\$65.00
Approximate Shipping Weight,
600 Pounds
- 18 inch Shear, no Truck.....\$75.00
Approximate Shipping Weight,
725 Pounds
- 18 inch Shear, with Truck...\$90.00
Approximate Shipping Weight,
850 Pounds



PUNCH AND SHEAR

No. 43

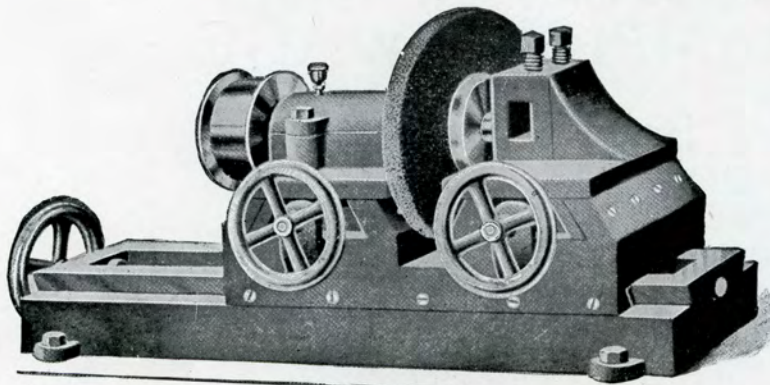
FOR BAND AND GANG SAWS

Prices F. O. B. Factory

- 12 inch Saws or Less.....\$ 65.00
Approximate Shipping Weight 375 Pounds
- 14 inch Saws or Less.....\$ 75.00
Approximate Shipping Weight 450 Pounds
- 16 inch Saws or Less.....\$100.00
Approximate Shipping Weight 500 Pounds
- 20 inch Saws or Less.....\$125.00
Approximate Shipping Weight 700 Pounds
- Additional set punch and die, \$12.00.
- Shear blades, per set \$7.50.



Band Wheel Grinding Machine



No. 91.

Furnished regular with one turning tool, one emery wheel and wrenches.
Driving pulley, 5 inch diameter, 3 inch belt.

Speed, 1500 revolutions per minute.

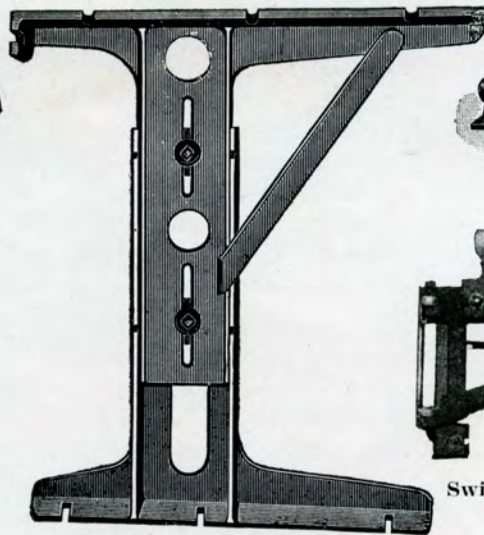
Prices F. O. B. Factory.

To grind wheels, 8 in. face or less, size of emery wheel 12x1 inch, approximate shipping weight 300 Lbs..	\$ 60.00
To grind wheels, 12 in. face or less, size of emery wheel 12x1½ in., approximate shipping weight 350 Lbs.	90.00
To grind wheels, 16 in. face or less, size of emery wheel 12x2 in., approximate shipping weight 500 Lbs.	100.00

Iron Bench Leg



Adjustable Stands, Brackets and Rolls



Bench Stand.



Floor Roll.



Swinging Over-Head Bracket

Recommended for general shop use. Made to accommodate a 2x14 inch plank and 7/8 inch boards.

Slot in back is made so that a board 2x6 inches can be used to make bench rigid.

Height to top on two inch plank, 34 inches.

Price F. O. B.

Factory, Approximate Wt.

50 Lbs.\$3.00

For the Band Saw Bench.

Very convenient for erecting the bench for handling band saws. Used in connection with the saw stretcher, leveling block and anvil. Full set consists of four swinging brackets, five floor rolls and five adjustable stands.

Prices F. O. B. Factory.

Full Set, Approximate Shipping Weight 450 Lbs.	\$38.00
Bench Stand, Approximate Shipping Weight 60 Lbs., each....	3.50
Floor Rollers, Approximate Shipping Weight 10 Lbs., each....	1.50
Swinging Brackets, Approximate Shipping Weight 25 Lbs., each	3.25

Mill and Circular Saw Sets

Suitable for Saws of Different Sizes.



No. 201.

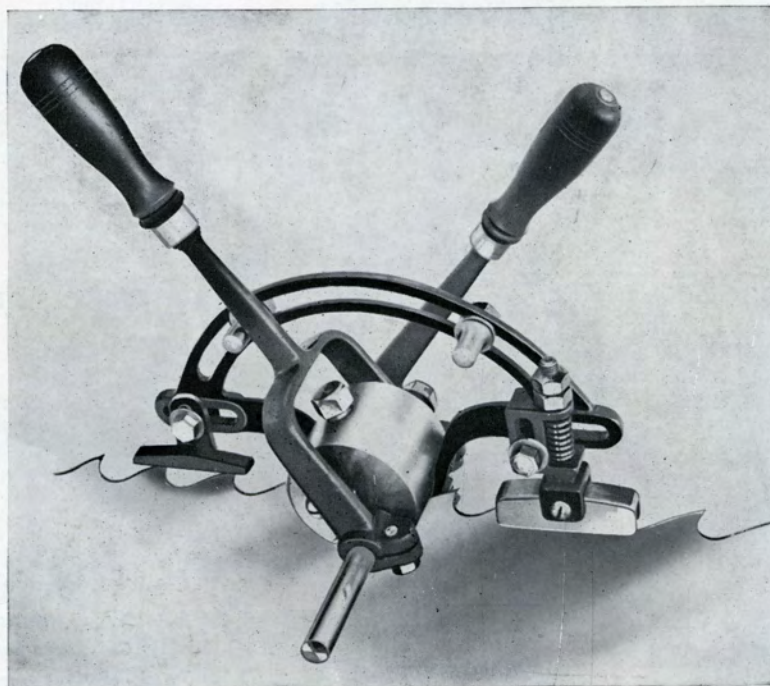


No. 202.

Large for Circular Saws, Double Handle, Price F. O. B. Factory	\$1.50
Small for Band Saws, Single Handle, Price F. O. B. Factory	1.00

THE CHAMPION SWAGE

For Band Saws



The accompanying cut illustrates the Champion Band Saw Swage and is made in three sizes. It can also be used on circular saws, and when ordered for that purpose, long brackets are furnished which can be adjusted to the diameter of the saw.

Prices F. O. B. Factory.

Style A, No. 1—For band resaws, 15 to 20 gauge, having teeth spaced $1\frac{1}{4}$ to $2\frac{1}{2}$ inches, point to point, block is $2\frac{1}{2}$ inches in diameter by 2 inches in length, $8\frac{1}{4}$ inch die lever, 7 inch clamp lever, $\frac{7}{16}$ inch die and clamp screws, complete with open wrench to fit all screws.....\$30.00

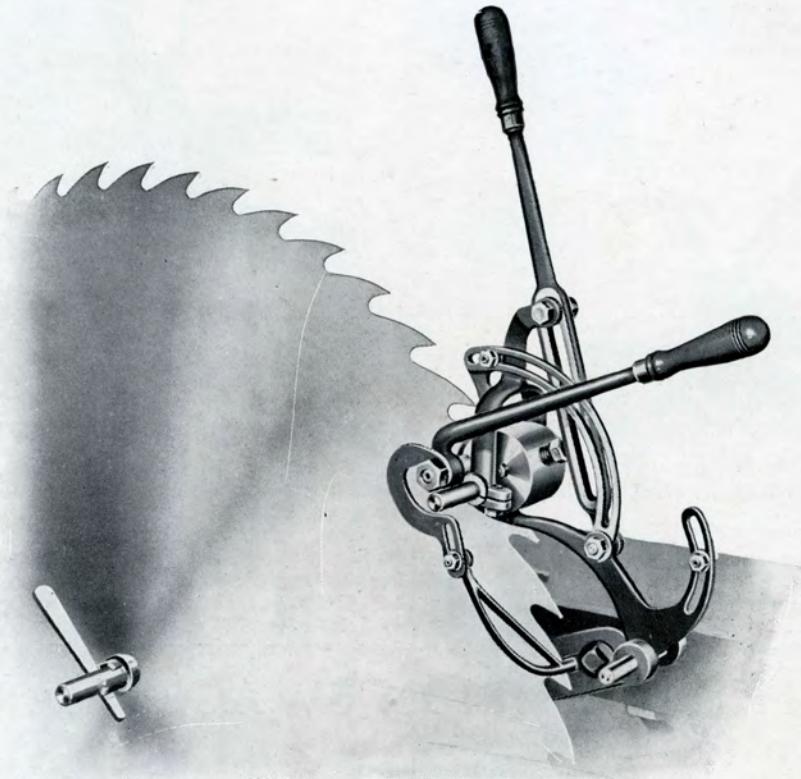
Style A, No. 2—For standard band saws, 13 to 15 gauge, having teeth spaced $1\frac{1}{4}$ to $2\frac{1}{2}$ inches, point to point, block is 3 inches in diameter, by $2\frac{1}{4}$ inches in length, 12 inch die lever, 10 inch clamp lever, $\frac{5}{8}$ inch die and clamp screws, complete with open wrench to fit all screws..... 35.00

Style A, No. 3—For very heavy band saws, 11 to 14 gauge, having teeth spaced $2\frac{1}{2}$ to 4 inches, point to point, block is $3\frac{1}{4}$ inches in diameter, by $2\frac{3}{4}$ inches in length, 16 inch die lever, 12 inch clamp lever, $\frac{3}{4}$ inch die and clamp screws, complete with open wrench to fit all screws..... 37.50

Style B, No. 1—For gang saws, 12 to 16 gauge, having teeth spaced 1 inch or more, from point to point, block is 3 inches in diameter, by $2\frac{1}{4}$ inches in length, 12 inch die lever, 10 inch clamp lever, $\frac{5}{8}$ inch die and clamp screws, complete with open wrench to fit all screws..... 35.00

THE CHAMPION SWAGE

For Circular Saws

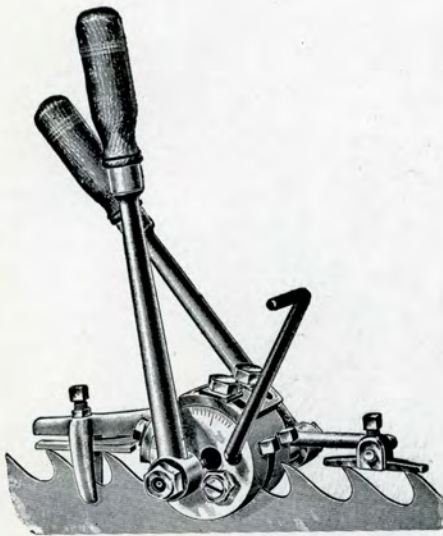


This swage is equipped with a compound movement to the die which makes the swaging of the heaviest circular saw comparatively easy. A crank or arm is attached to the clamping lever on which is mounted a feed finger which is set to engage the saw tooth, and as the clamp lever is moved back and releases the swaged tooth, the feed finger engages a tooth and rotates the saw, bringing the tooth in position to be swaged.

Prices F. O. B. Factory.

- Style C, No. 1**—For shingle saws and very light circular saws, 16 to 20 gauge, block is $2\frac{1}{2}$ inches in diameter, by 2 inches in length, $8\frac{1}{4}$ inch die lever, 7 inch clamp lever, $\frac{7}{16}$ inch die and clamp screws, automatic feed finger, complete with open wrenches to fit all screws.....\$30.00
- Style C, No. 2**—For light circular saws, 13 to 15 gauge, block is 3 inches in diameter, by $2\frac{1}{4}$ inches in length, 12 inch die lever, 10 inch clamp lever, $\frac{5}{8}$ inch die and clamp screws, automatic feed finger for rotating the saw, complete with open wrench to fit all screws..... 35.00
- Style C, No. 3**—For light circular saws, 11 to 14 gauge, block is $3\frac{1}{4}$ inches in diameter, by $2\frac{3}{4}$ inches in length, 16 inch die lever, 12 inch clamp lever, $\frac{3}{4}$ inch die and clamp screws, with automatic feed finger for rotating the saw, complete with open wrench to fit all screws..... 37.50
- Style D, No. 3**—For very heavy circular saws, 4 to 10 gauge, block is $3\frac{3}{4}$ inches in diameter, by 3 inches in length, compound die lever 8 and 24 inches in length, 16 inch clamp lever, $\frac{7}{8}$ inch die and clamp screws, automatic feed finger, for rotating the saw, complete with open wrench to fit all screws..... 45.00

WHITE BAND SAW SWAGES

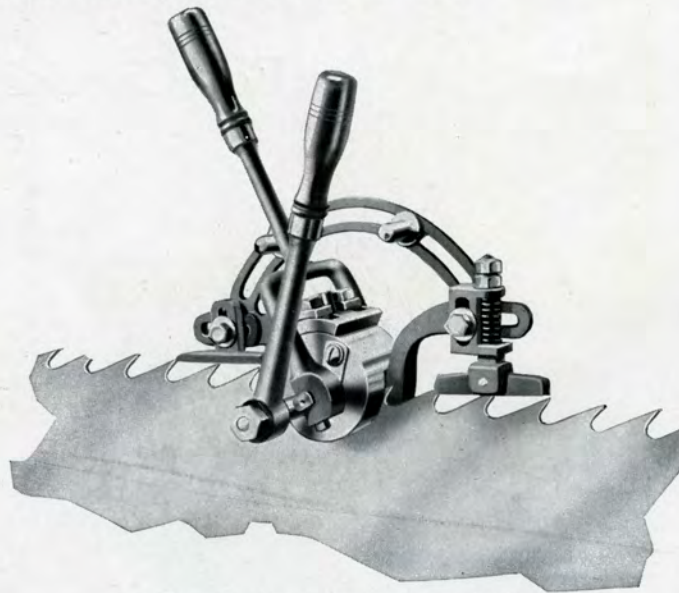


Style A, B, and C.

We can furnish this swage in three sizes.

Prices F. O. B. Factory.

Regular band 14 and 16 gauge saws, style A, $\frac{5}{8}$ inch die...	\$35.00
Regular gang, style C, $\frac{5}{8}$ inch die	35.00
Band resaw, style B, $\frac{7}{16}$ inch die	30.00



Style F1, G1, and H1, New Style.

Brackets are arranged so this swage can be used on small circular saws, such as shingle and small rip saws with teeth $\frac{3}{4}$ inch from point to point or wider.

Prices F. O. B. Factory.

B2—16-20 Gauge, $\frac{3}{4}$ inch teeth or wider, $\frac{7}{16}$ inch die...	\$30.00
F1—14-16 Gauge, $1\frac{3}{4}$ inch teeth or wider, $\frac{5}{8}$ inch die.	35.00
G1—14-16 Gauge, $1\frac{1}{2}$ inch teeth or wider, $\frac{5}{8}$ -inch die.	35.00
H1—12-13 Gauge, 2 inch teeth or wider, $\frac{3}{4}$ inch die..	35.00

THE CHAMPION SWAGE SHAPER



For Band, Gang and Circular Saws.

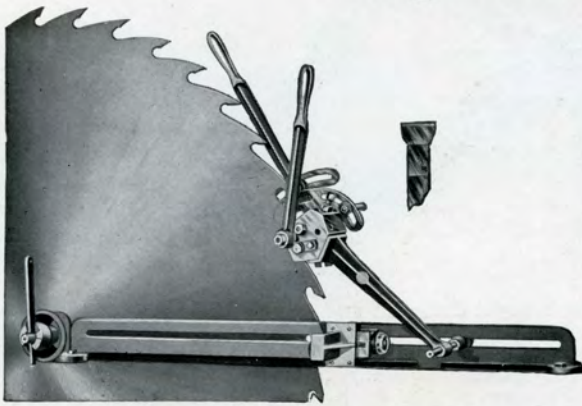
This shaper has some features not found in other tools, for instance, the working die has twenty-four wearing points. All parts are interchangeable and repairs can easily be obtained.

Movement of shaping lever is regulated by stop so that when once set each tooth is shaped exactly the same width.

Prices F. O. B. Factory.

Style E, No. 1—For gang saws, 12 to 16 gauge, having teeth spaced 1 inch or more, from point to point. Dies are $1\frac{1}{2}$ inches in diameter, $\frac{3}{4}$ inch connecting bolt, $\frac{1}{4}$ inch anvil and tooth stop, $8\frac{1}{2}$ inch die lever, complete with open wrench to fit all screws.....	\$30.00
Style F, No. 1—For light band saws, 14 to 20 gauge, having teeth spaced $1\frac{1}{4}$ to $2\frac{1}{2}$ inches from point to point. Dies are $1\frac{1}{4}$ inches in diameter, $\frac{1}{2}$ inch connecting bolt, $\frac{3}{8}$ inch anvil and tooth stop, $7\frac{1}{2}$ inch die lever, complete with open wrench to fit all screws.....	25.00
Style F, No. 2—For heavy band saws, 12 to 14 gauge, having teeth spaced $1\frac{3}{4}$ to 4 inches from point to point. Dies are $1\frac{1}{2}$ inches in diameter, $\frac{3}{4}$ inch connecting bolt, $\frac{1}{4}$ inch anvil and tooth stop, $8\frac{1}{2}$ inch die lever, complete with open wrench to fit all screws.....	30.00
Style G No. 1—For shingle saws and light circular saws, 15 to 20 gauge, dies are $1\frac{1}{4}$ inches in diameter, $\frac{1}{2}$ inch connecting bolt, $\frac{3}{8}$ inch anvil and tooth stop, $7\frac{1}{2}$ inch die lever and automatic feed finger for rotating saw, complete with open wrench to fit all screws.....	25.00
Style G, No. 2—For light circular saws, 11 to 14 gauge, dies are $1\frac{1}{2}$ inch diameter, $\frac{3}{4}$ inch connecting bolt, $\frac{1}{4}$ inch anvil and tooth stop, $8\frac{1}{2}$ inch die lever and automatic feed finger for rotating saw, complete with open wrench to fit all screws	30.00
Style G, No. 3—For heavy circular saws, 6 to 10 gauge, dies are $1\frac{1}{2}$ inch diameter, $\frac{3}{4}$ inch connecting bolt, $\frac{3}{8}$ inch anvil and tooth stop, $8\frac{1}{2}$ inch die lever and automatic feed finger for rotating saw, complete with open wrench to fit all screws	35.00

Large Circular Swages

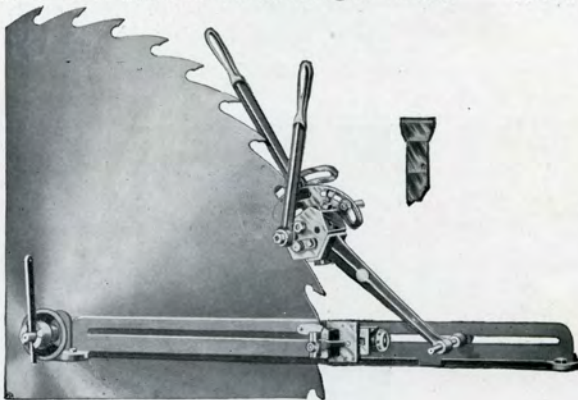


Style D

The above cut illustrates the Hanchett Hand Swage and Jointer complete for Circular Saws and is made in five sizes, as follows:

Prices F. O. B. Factory

	Approx. Shipping Weight	
No. 0—For Saws 8 to 12 Gauge.	57 lbs.	\$42.00
No. 1—For Saws 5 to 11 Gauge.	50 lbs.	42.00
No. 2—For Saws 11 to 16 Gauge.	40 lbs.	38.00
No. 3—For Saws 16 to 19 Gauge.	20 lbs.	35.00
No. 4—For Saws 19 to 26 Gauge.	11 lbs.	35.00

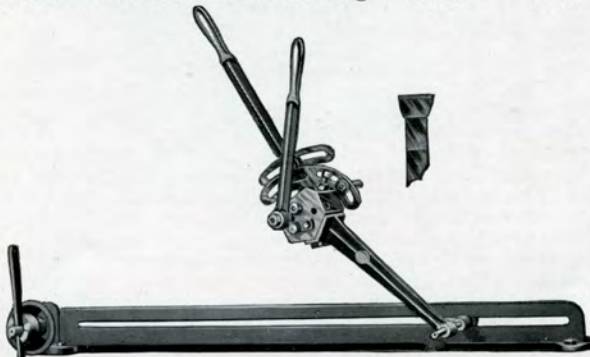


Style E

The above cut illustrates the Hanchett Swage for circular saws, furnished complete with bench attachment and combined jointer and side file.

Prices F. O. B. Factory

Size	Approx. Shipping Weight	
No. 1—For Saws 5 to 10 Gauge.	61 lbs.	\$46.00
No. 0—For Saws 8 to 12 Gauge.	54 lbs.	46.00
No. 2—For Saws 11 to 16 Gauge.	44 lbs.	42.00
No. 3—For Saws 16 to 18 Gauge.	24 lbs.	39.00
No. 4—For Saws 19 to 22 Gauge.	15 lbs.	39.00



Style C

No. 3—For Saws 11 to 16 Gauge.	44 lbs.	42.00
--------------------------------	---------	-------

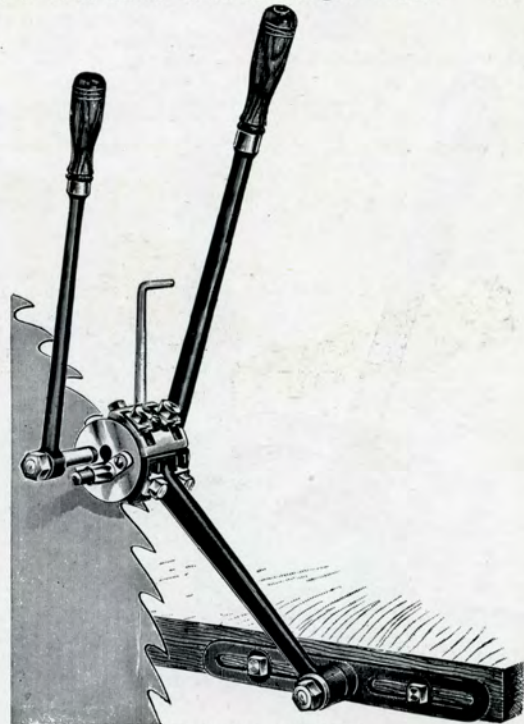


Style A

This cut illustrates the Hanchett Hand Swage without jointer or bench casting and is designed for those who do not wish to pay for the jointer, but we advise a jointer with each swage as it is also a convenient device on which to do fitting and side dressing, and on which to operate the swage. This style is made in three sizes only.

Prices F. O. B. Factory

	Approx. Shipping Weight	
No. 1—For Saws 5 to 10 Gauge.	25 lbs.	\$35.00
No. 2—For Saws 11 to 16 Gauge.	13 lbs.	33.00
No. 0—For Saws 8 to 12 Gauge.	18 lbs.	35.00



WHITE SWAGE

Style D

Large Circular Saws

Price F. O. B. Factory

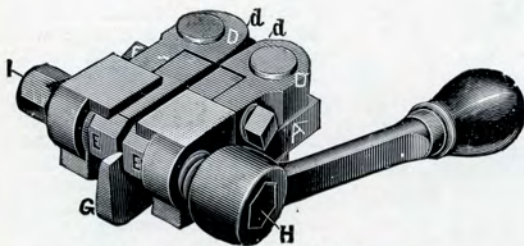
Style D—With Bench Attachment, 7 to 12 Gauge Saws, 7/8 inch Die.....	\$35.00
--	---------

Style C

Style C illustrates the Hanchett Swage for circular saws, without jointer, but with bench attachment.

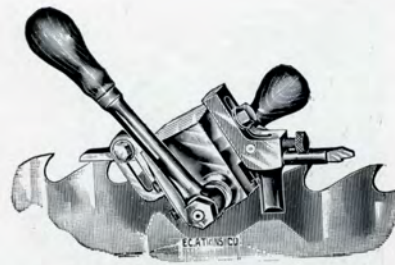
Prices F. O. B. Factory

Size		
No. 1—For Saws 5 to 10 Gauge.	53 lbs.	\$38.00
No. 0—For Saws 8 to 12 Gauge.	46 lbs.	38.00
No. 2—For Saws 11 to 16 Gauge.	36 lbs.	35.00
No. 3—For Saws 16 to 18 Gauge.	16 lbs.	30.00
No. 4—For Saws 19 to 22 Gauge.	7 lbs.	30.00



Nos. 1, 2 and 3

Pribnow Swage Shapers



Nos. 4, 5 and 6

This Shaper is now made in eight different styles and sizes. The Nos. 1 to 4 being the older style ones which have been so successful and Nos. 5 to 8 the new improved, made to meet the wishes of people wanting a newer tool.

All shapers are full nickel plated.

Prices F. O. B. Factory

- | | |
|--|---------|
| No. 1—For Band and Gang Saws, 12 to 16 Gauge..... | \$30.00 |
| No. 2—For Resaws and Shingle Saws, 16 to 24 Gauge..... | 30.00 |
| No. 3—For Heavy Band Saws, 6 to 12 Gauge | 30.00 |
| No. 4—For Circular Saws from 6 to 10 Gauge | 25.00 |
| No. 5—For Band Saws, 10 to 16 Gauge | 25.00 |
| No. 6—For Band Saws, 17 to 24 Gauge | 25.00 |
| No. 7—For Band and Circular Saws, 5 to 13 Gauge..... | 30.00 |
| No. 8—For Band and Circular Saws, 13 to 18 Gauge..... | 30.00 |

Each shaper furnished with grinding gauge

Nos. 7 and 8—Bottom View to grind dies.



Nos. 7 and 8—Side View

Covel Band Saw Swage

The Brown Patent Swage Shaper

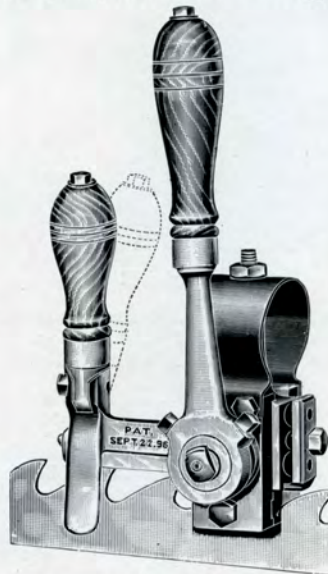


No. 42

The Swage is neatly finished and polished, all castings nickel plated. All wearing parts are made of high grade tool steel.

Prices F. O. B. Factory.

- | | |
|---|-----------|
| Size 0—For Saws 10 to 13 gauge, $\frac{3}{4}$ in. Die. | \$35.00 |
| Approximate Shipping Weight | 17 Pounds |
| Size 1—For Saws 14 to 16 Gauge, $\frac{5}{8}$ in. Die. | 33.00 |
| Approximate Shipping Weight | 13 Pounds |
| Size 2—For Saws 17 to 20 Gauge, $\frac{7}{16}$ in. Die. | 28.00 |
| Approximate Shipping Weight | 9 Pounds |

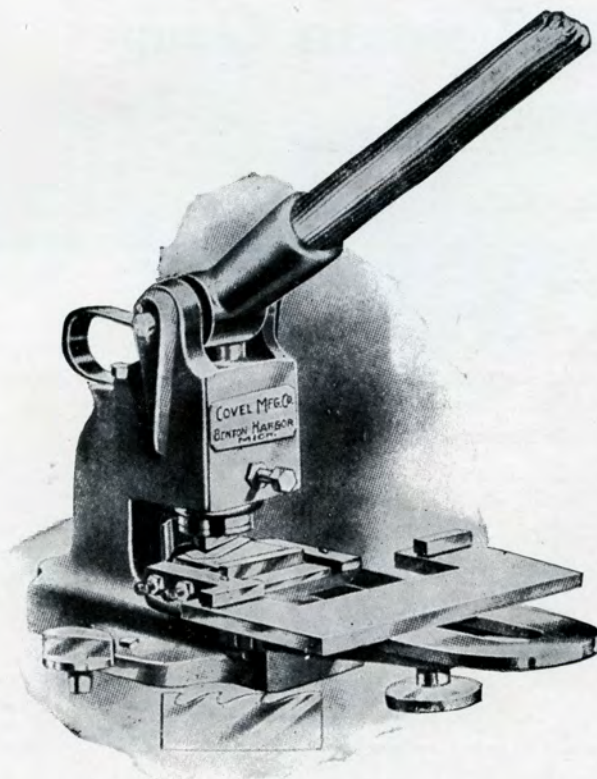


No. 51

For Band and Gang Saws

This tool was invented by an expert filer. It compresses the point of tooth, flaring it under and back, forming an ideal cutting point. All wearing parts are made of tool steel and hardened. It is provided with an upright handle, which is now made so it can be set in any angle to suit the operator so that the left hand, which holds and moves the tool, does not interfere with the lever handle. When in operation, it can be worked very rapidly, either from or towards the operator. The die blocks are interchangeable, which gives four wearing surfaces. In ordering, always state gauge of saw it is to work on.

Price F. O. B. Factory.....\$25.00



No. 39.

PUNCH AND SHEAR.

For Band and Circular Saws.

Prices F. O. B. Factory

Retooler Only, Approximate Shipping Weight 125 Lbs.....\$35.00
Retooler, with Shear, Approximate Shipping Weight 135 Lbs.... 45.00

EMERY WHEEL DRESSERS.

Will true emery wheels while running at full speed.

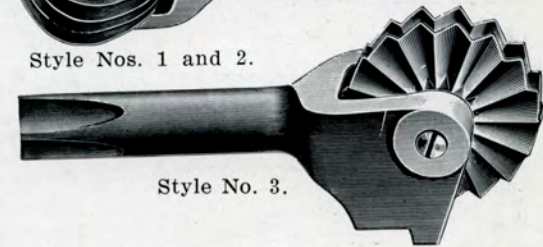


Huntington.

Price F. O. B. Factory, with two sets of cutters\$1.00
Extra Cutters, per set..... .10



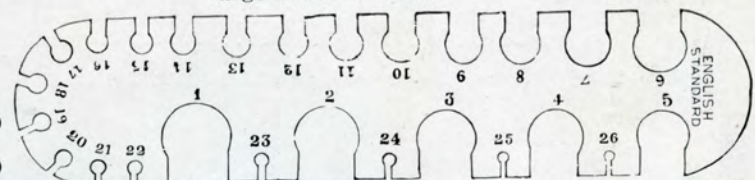
Style Nos. 1 and 2.



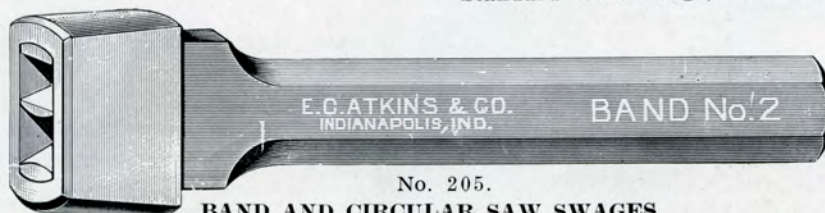
Style No. 3.

No.	Style	Each	Extra Cutters, Per Set
1	Small Cutters	\$0.50	\$0.10
2	Large Cutters	.60	.15
3	Large Cutters	.75	.15

Dressers Nos. 2 and 3 are recommended for large coarse wheels.



Standard Wire Gauge, 1 to 26.....\$1.25



No. 205.

BAND AND CIRCULAR SAW SWAGES.

No. 2—Swage, Price F. O. B. Factory.....\$2.25



No. 206

UPSET SWAGE.

Prices F. O. B. Factory.

No. 0—For Large Circular Saws, 5 to 10 Gauge.....\$3.00
No. 1—For Large Circular Saws, 8 to 12 Gauge..... 2.75
No. 2—For Small Circular and Mill Saws of Thinner Gauge..... 2.25
No. 3—For Small Circular Saws..... 1.75



SILVER SOLDER.

Made special for brazing tempered steel.

Give size when ordering.

F. O. B. Factory, per oz..\$0.90

Straight Edges and Tension Gauges



STRAIGHT EDGES.

Straight edges up to 40 inches are made taper as shown in cut. Over 40 inches they are made the same width the entire length.

The following size steel used on different lengths.

4 to 9 inches, 16 gauge steel. 44 to 56 inches, $\frac{1}{4}$ x 2 inch steel.

12 to 24 inches, 14 gauge steel. 60 to 72 inches, $\frac{3}{8}$ x $\frac{1}{2}$ inch steel.

30 to 40 inches, 12 gauge steel. 84 to 120 inches, $\frac{3}{8}$ x 3 inch steel.

We can furnish the straight edges 48 inches and longer, with one edge concave and one straight to be used as a back gauge.

Prices F. O. B. Factory.

Inches	4	6	8	10	12	14	16	18	20
Price, each	\$0.40	0.45	0.50	0.55	0.65	0.75	0.87	0.95	1.05
Inches	24	28	30	36	40	44	48	52	54
Price, each	\$1.36	1.56	1.65	1.95	2.10	2.30	3.00	3.50	3.70
Inches	56	60	66	72	84	96	108	120	
Price, each	\$4.00	4.60	5.00	5.50	6.50	7.50	8.50	9.50	

TENSION GAUGES.

We can furnish tension gauges ground to any circle. Gauges 4 to 6 inches long are made with end taper. Longer ones are made the same width the entire length so that the two edges can be made different as requirements may demand.

Prices for one edge straight and one edge ground concave or convex.

Price F. O. B. Factory.

4 to 9 inches long.....	\$1.50
10 to 14 inches long.....	2.00
15 to 20 inches long.....	3.00

If both edges are to be ground, add 20% to the price.



Bar Swages and Hammers

For drawing out short teeth or swaging saws before using the regular swage and upset.

Prices F. O. B. Factory.

Hammer, price each.....	$\frac{3}{4}$ in., \$1.00; $\frac{7}{8}$ in., \$1.25; 1 in., \$1.50
Swage Bar, No. 1, Eight or Six Sided, 11x1 x $\frac{1}{2}$	2.50
Swage Bar, No. 2, Eight or Six Sided, 11x1 $\frac{1}{4}$ x $\frac{5}{8}$	3.00
Swage Bar, No. 3, Eight or Six Sided, 11x1 $\frac{1}{2}$ x $\frac{3}{4}$	3.50
Swage Bar, No. 4, Eight or Six Sided, 11x1 $\frac{1}{4}$ x $\frac{7}{8}$	4.00

Widemire's Adjustable Circular Tension Gauge

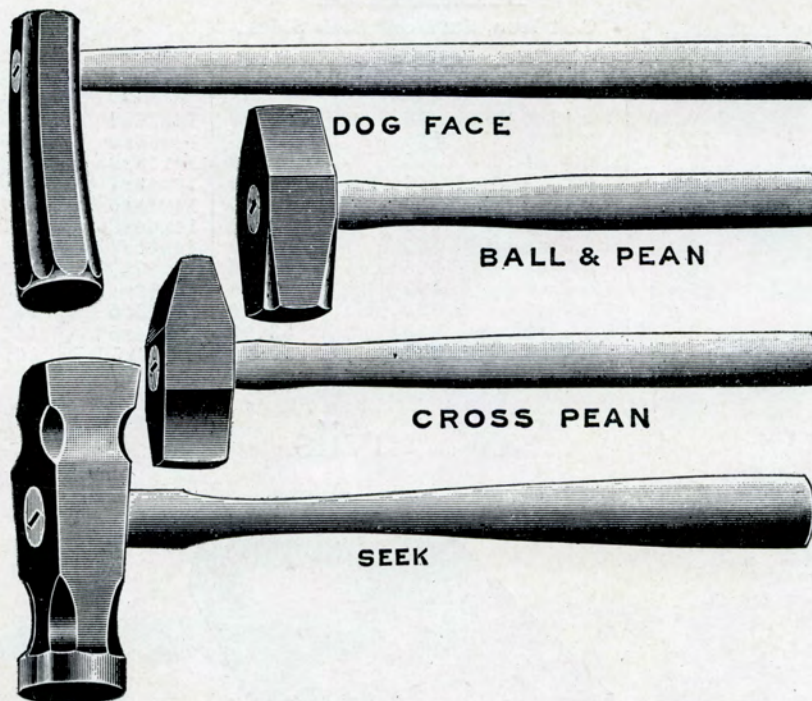


Prices F. O. B. Factory.

18 in. Long, Approx. Shipping Weight 3 Lbs.....	\$5.00
24 in. Long, Approx. Shipping Weight 3 Lbs.....	5.00

Saw Anvils

SAW HAMMERS



Saw Hammers of all kinds and weights.

Price, F. O. B. Factory.

Per Pound, Polished Face.....	\$0.50
Per Pound, Polished, Oil Finish.....	.65
Per Pound, Polished, Full Nickel Plated.....	1.00