American "Drop Dog"

Code Word, Woero

This cut shows our new **Drop Dog** with which we are now equipping our Log Beam carriages.

We can furnish them for use on any make of **Log Beam Carriage.** They cannot be used on a carriage without Log Beam.

The standard is polished steel, $1\frac{7}{16}$" diameter and 28" high.

Distance from standard to bit on long end, 10".

Distance from standard to bit on short end 6".

Weight of dog, complete as shown, 47 lbs.

Sawyer's Favorite Scale Board

Code Word, Woery

All graduations are in plain view of sawyer. The first column consists of a standard scale in ¼" graduations. There are eight additional columns, indicating the number of 1", 1¼", 1½", 1¾", 2", 2½", 3" or 4" pieces which can be made from the log or cant.

Can be attached to almost any make of saw mill and is a valuable addition to any mill.

Height over all, 50"; width, 8½".

Shipping weight, 65 lbs.; export weight, 90 lbs. Cubic contents, 2½ c. f.

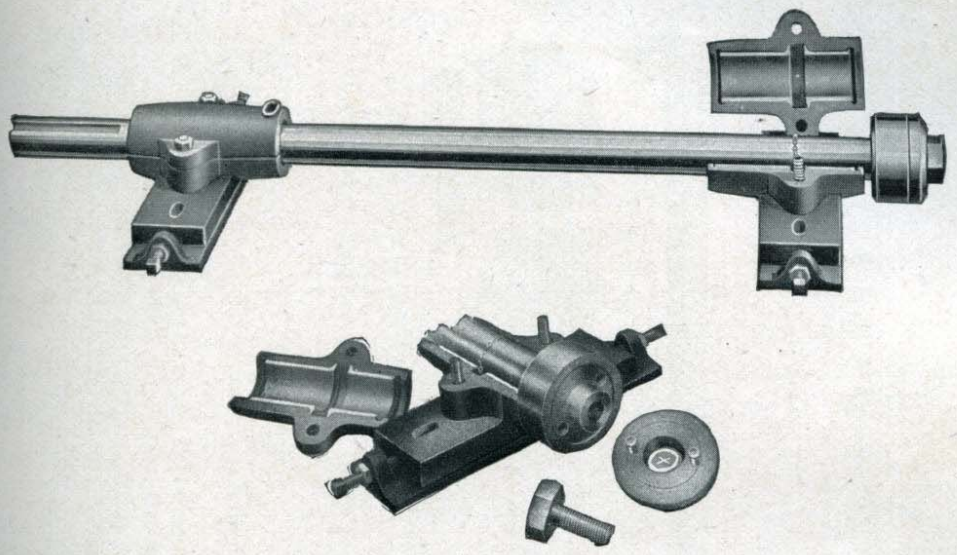
Parallel Bar or False Knee

Code Word, Woesh

This cut illustrates our **Parallel Bar** or **False Knee** attached to the head-block knee. This is a valuable and convenient attachment to any mill and is used to throw out the small end of log, to steady light or crooked logs, and for sawing tapering timber. It is easy to operate and works perfectly.

Made in two sizes, the smaller for use on our Nos. 1, 2 and 3 Mills; the larger for use on Nos. 4 and 6 Mills.

Saw Mill Mandrels and Boxes



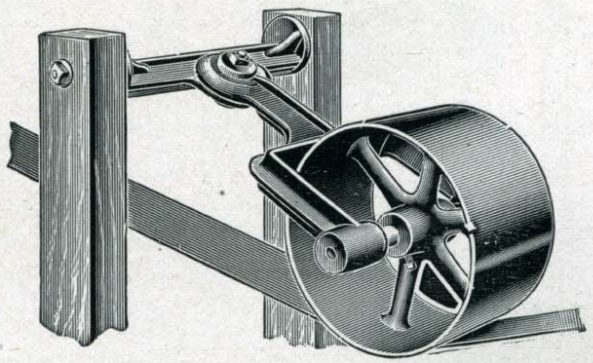
Showing Chain Oiling Box and method of fitting nut and lug pins

Our Standard **Saw Mill Mandrels** are made of the best grade steel, turned and ground perfectly true, with solid steel collars, fitted for saws with 2″ hole, and two ⅝″ pin holes on 3″ circle.

Diameter	2 3/16″	2 5/16″	2 7/16″	2 15/16″	3 7/16″	3 15/16″
Length	4′10″	5′6″	6′	6′	10′	10′
Weight without boxes, lbs.	77	92	108	157	340	440
Weight each box, lbs.	20	46	51	79	100	124
Code Word complete with boxes	**Woesp**	**Woest**	**Woesy**	**Woete**	**Woets**	**Woetu**
Code Word, without boxes	**Woevi**	**Woevs**	**Woewe**	**Woewo**	**Woewu**	**Woexa**

American Belt Tightener

Code Word, Woexi



This cut shows our new **Belt Tightener,** fitted to a husk frame in the usual manner. We furnish these belt tighteners with all our mills, except No. 1. They are easily adjusted and the belt can be guided perfectly with them. The posts for supporting the Tightener are not furnished. Belt Tightener for No. 1 mill is carried in a wood frame.

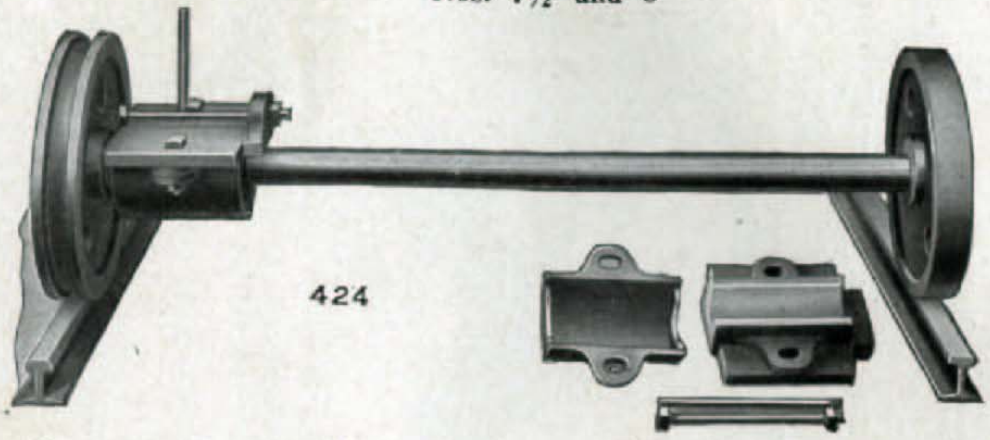
Carriage Trucks

Our **Carriage Trucks** are made in eight regular sizes with polished steel axles. Boxes have large oil and waste pockets. The Nos. 7½ and 8 have screw adjustment.

Nos. 6 and 6½

Nos. 1, 2, 3 and 4

Nos. 7½ and 8



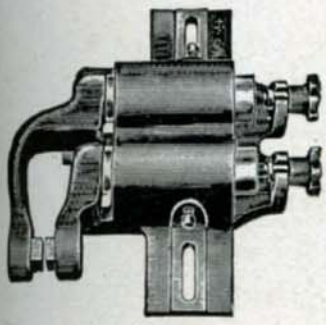
Number or size	1	2	3	4	6	6½	7½	8
Size of Axles, inches	1¼	¼	1¼	1½	1 1/16	1 1/16	1 1/16	1 1/16
Size of Wheels, inches	7	7	8	10	10	10	12	14
Weight with Boxes, lbs.	43	43	75	110	120	140	167	270

Rolled Steel Carriage Track

The cuts show the style or shape of the **Rolled Steel Guide Track**, which we furnish with our different size mills. The cuts are about one-fourth actual size, but the measurements are correct. Style A is furnished with Nos. 1, 2 and 3 carriages, style B-2 with No. 4, and Style C with Nos. 6. 6½, 7½ and 8. Style C is planed to fit truck wheels. Weight per yard, lbs.: A, 8 lbs.; B-2, 12 lbs.; C, 16, 20 and 40 lbs.

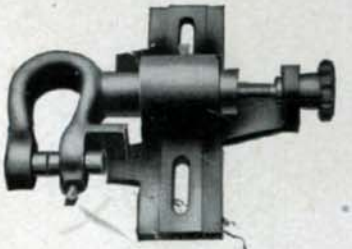
Code Words: A, Worvs; B-2, Worve; C, Worvo.

American Universal Saw Guides



No. 3

We show here our **American Universal Saw Guides** which we furnish regularly with *all* our saw *mills.*

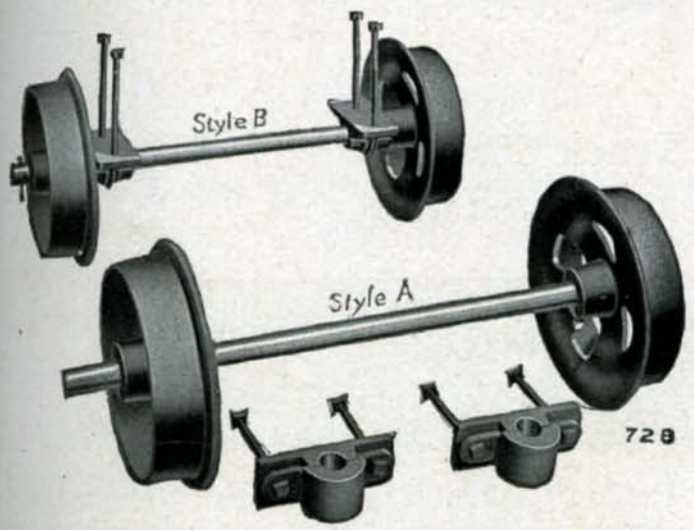


No. 1 and 2

These guides will fit either right or left hand mills equally well and can be used on mills of any make. The yoke is adjusted in or out by simply turning the knurled hand screw, which can be done while the saw is in motion without danger to the sawyer. They have large throats and can be turned out of the way for removing the saw. They give universal satisfaction.

	No. 1	No. 2	No. 3
Net Weight	25 lbs.	40 lbs.	85 lbs.
Furnished with Mills Nos.	1 to 3	4, 6 and 6½	7½
Code Word	**Woeza**	**Woezi**	**Wofak**

Log and Lumber Trucks



Our **Standard Lumber Trucks** are made in five regular sizes with steel axles and are generally used in wood frames without boxes, but suitable boxes or stirrups can be furnished when wanted, at extra cost. All are 26½" gauge and 2½" tread. **Wider gauge furnished at extra cost.**

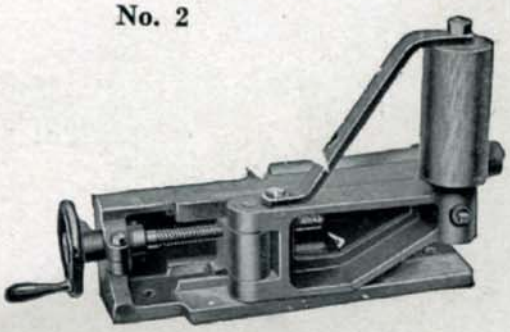
The **Log Trucks** are of similar patterns but heavier and may have clamp boxes and stirrups, or babbitted boxes with oil cellars.

A set consists of four wheels and two axles. Stirrups are furnished with style "B." Style "A" shipped without boxes unless boxes are specified in order. For specifications of Heavy Log Trucks see Price Book.

Size of Wheels	8"	10"	12"	16"	20"
Size of Axles	1 7/16	1 7/16	1 7/16	1 11/16	1 11/16
Weight Lbs.	110	138	158	262	400
Code Name	**Wofan**	**Wofar**	**Wofat**	**Wofav**	**Wofax**

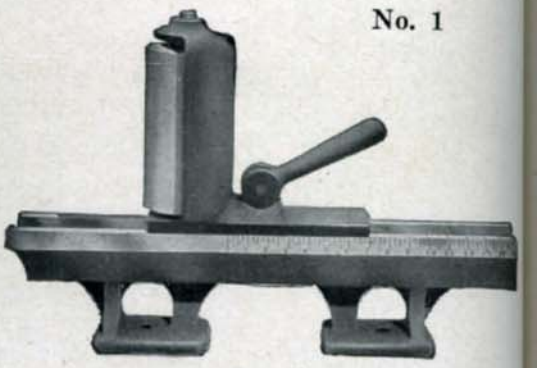
Gauge Rollers

No. 2



Code Word, Wofba

No. 1



Code Word, Wofaz

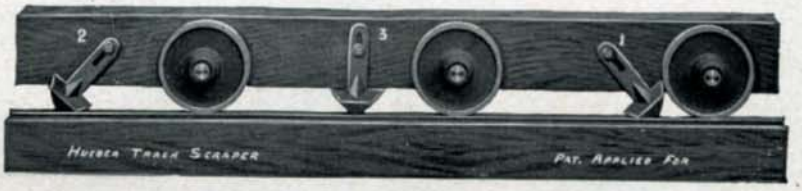
A Gauge Roller is a great help in cutting accurate lumber. We can furnish two styles, Nos. 1 and 2, as shown herewith, for use on any of our mills.

No. 1, for small mills, weight, 90 lbs.

No. 2, for large mills, weight, 150 lbs.

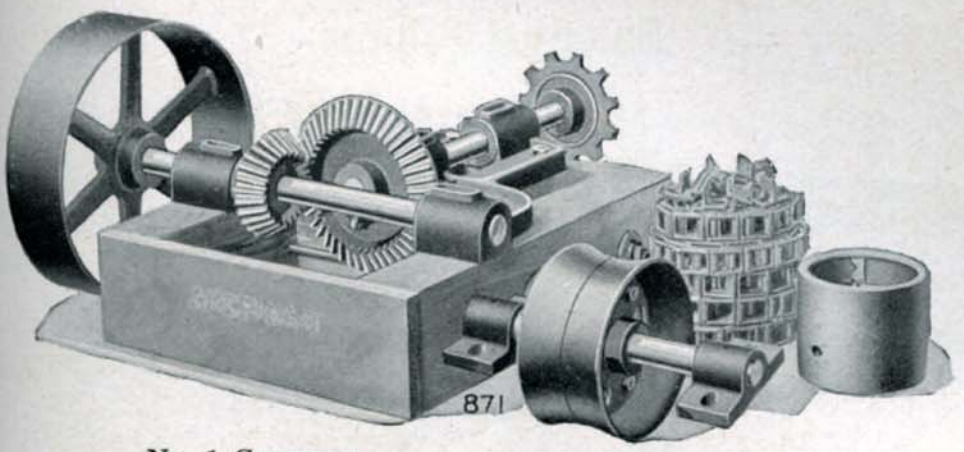
Track Scrapers

Code Word, Wofbi



This cut shows our **"Heuber" Patent Track Scraper,** the simplest and most effective scraper ever devised. When properly fitted to the carriage, it will clean the track and wheels at the same time and automatically reverses with the carriage, scraping the track both ways. It will not catch on the end of the track. It is furnished on all our mills.

Figure 1 shows the position of the scraper when the carriage is feeding. Figure 3 shows the position the scraper takes when the carriage reverses and Figure 2 shows position of scraper when carriage is gigging back.



No. 1 Conveyor

Sawdust Conveyor Fixtures

Our Chain Saw Dust Conveyor Fixtures are for use on saw mills of any make and all sizes, whether Portable or Stationary, and operate as perfectly on mills set up on the ground out of doors as in a regular mill building.

They work right or left hand and can be driven in either direction.

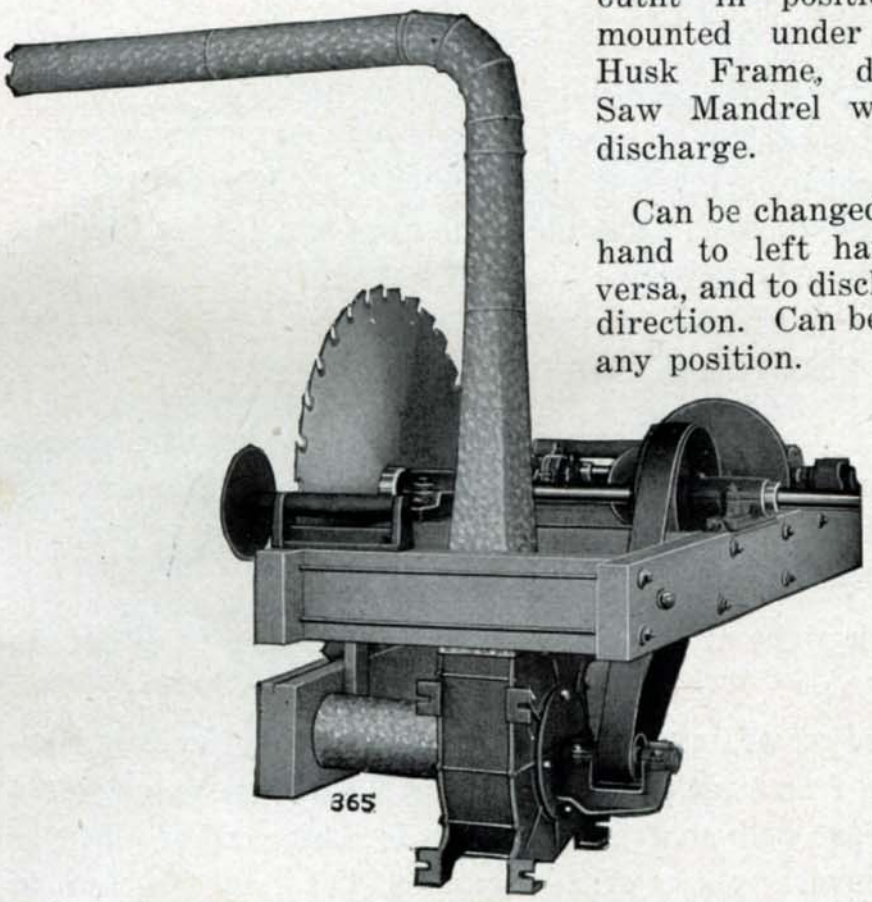
A standard set of fixtures consists of Split Pulley for Saw Mandrel, cast iron frame with Pulley, sprocket wheel, shafts and gears attached, Sheave with shaft and bearings for outer end of conveyor and 50′ of conveyor chain with attachment links, all as shown in the cut. This makes a conveyor about 25′ long. If longer conveyor is wanted, add 2′ of chain for each additional foot of conveyor wanted. Our No. 4 conveyor has take-up boxes for end shaft.

Made in four sizes, Nos. 1, 2, 3 and 4. For small, medium and large mills.

Size	No. 1	No. 2	No. 3	No. 4
Size of Carrier Chain	No. 45	No. 55	No. 57	No. 67
Code Word	Wofby	Wofci	Wofde	Wofdo
Weight, boxed	180	195	290	430
Weight, without Chains	145	145	160	225
Longest Conveyor recommended	40′	60′	80′	150′

No wood parts are furnished for Nos. 2, 3 or 4 conveyors. No. 1 conveyor is furnished with wood base as shown and with cover for gears.

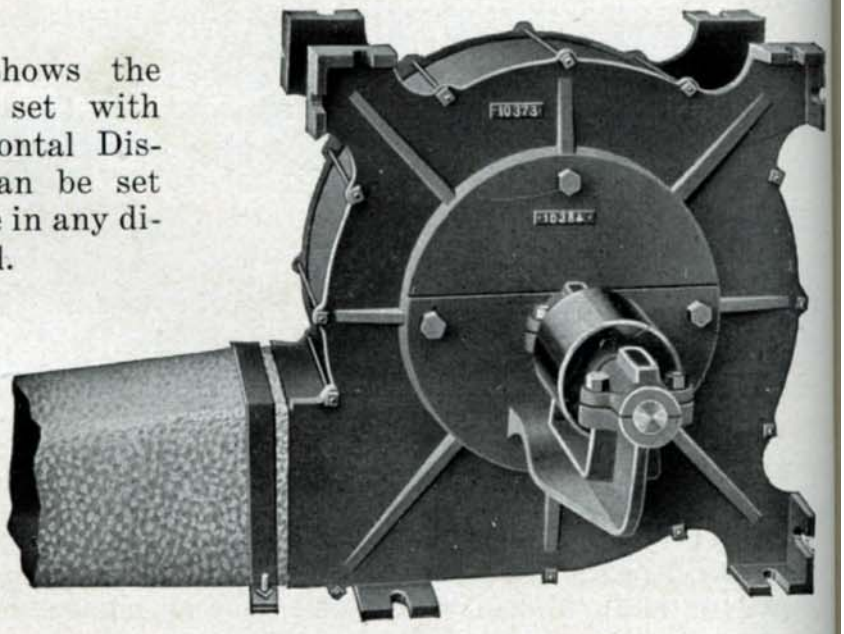
Sawdust Blower



This cut shows complete outfit in position; Blower mounted under Saw Mill Husk Frame, driven from Saw Mandrel with upright discharge.

Can be changed from right hand to left hand, or vice versa, and to discharge in any direction. Can be fastened in any position.

This cut shows the Blower only set with Bottom Horizontal Discharge. It can be set with discharge in any direction desired.



Sawdust Blower

The American Saw Dust Blower is especially designed for removing the saw dust from circular Saw Mills. It may be successfully used on mills using saws from 36″ to 72″ diameter and is so constructed that it can be installed directly under or over the Husk frame or just forward of the Husk, as may be the most convenient for belting from the Mandrel.

Having feet on four corners, it may be secured to the underside of the Husk or to timbers in the saw pit, or set on a platform over the Husk, as preferred.

The discharge may be directly up or down or top-horizontal or bottom-horizontal and by means of elbows in discharge pipe the saw dust can be delivered in any direction and to a distance of 100 feet from the mill when so desired.

The driving pulley may be placed on the saw Mandrel inside of Husk Frame or outside of Husk between Mandrel Pulley and main bearings, as may be more convenient. Blower may also be driven from any other shaft that may be more convenient.

The Blower is so constructed that by removing four bolts the pulley-bearing-bracket may be turned around to any desired position to accommodate the drive belt or direct the discharge in any direction or it may be shifted to the opposite side where the intake ring is located, thus changing the blower from right to left or vice versa. This makes the blower adapted to any situation or condition. No other blower possesses these advantages.

When used with our saw mills we furnish each blower with drive pulley up to 20″ diameter, intake hopper, short piece of 8″ pipe to connect hopper direct to blower and 25′ of 6″ discharge pipe and one elbow. Additional pipe can be furnished when desired at extra cost.

DIMENSIONS AS FOLLOWS:

Diameter of Blower	22″
Diameter of Inlet	8″
Diameter of Outlet	8″
Pulley on Blower	5″ x 4″

Speed should be 1,200 to 1,500 R. P. M., according to distance saw dust is to be delivered.

Weight of Blower only 190 lbs. Code word, **Wofdu.** Weight of outfit complete, packed for shipment, 450 lbs.; cubic measurement, 35 cu. ft. Code word, **Wofeb.**

"Ideal" Set Works with Quick Receder

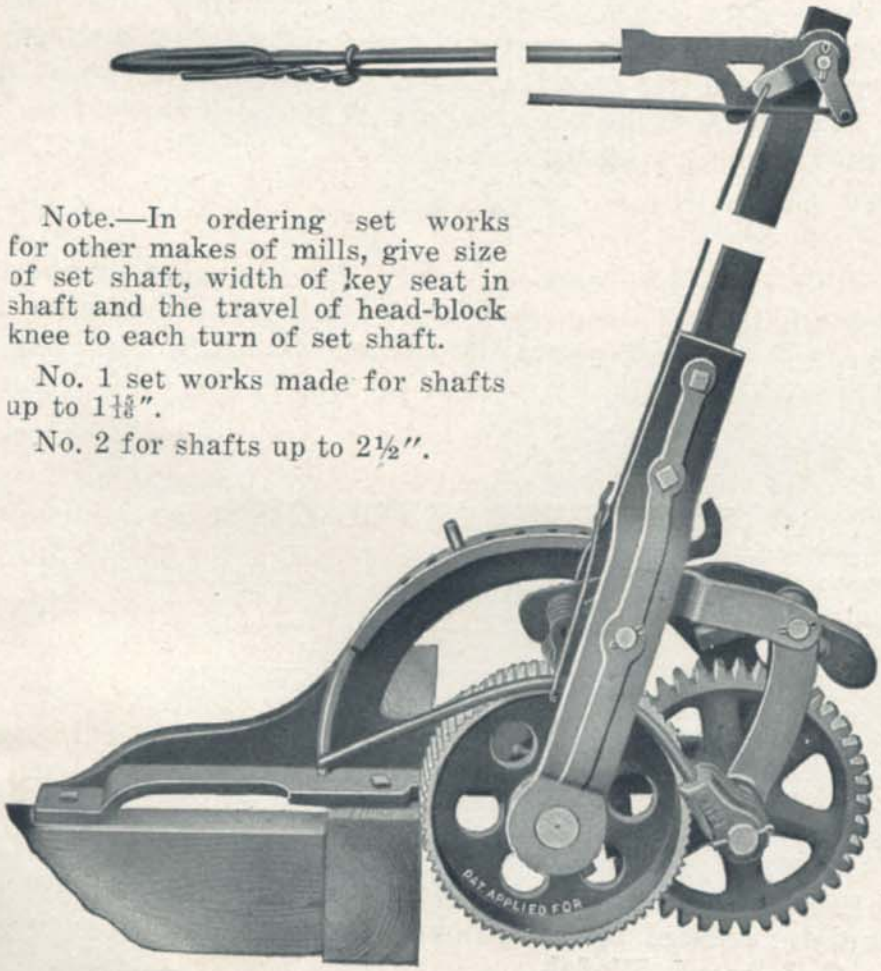
Our **New "Ideal" Set Works with Quick Receder** is the most desirable improvement put on portable saw mills in recent years.

It is very simple and works very easily in setting or receding. Both setting and receding are done by same lever and by the same motion. A straight pull discharges the pawls from the ratchet wheel and throws the rear pawl into the receding gear; then, by pulling the lever as in setting, the head-block knees are thrown back about three times as rapidly as they set forward and three or four pulls of the lever are usually sufficient to recede the head-blocks. Experienced sawyers have pronounced it the most valuable recent improvement on saw mills.

The No. 1 is furnished regularly with Nos. 1, 2 and 3 Mills. The No. 2 with our No. 4 Mill.

No. 1, shipping weight, 160 lbs. Code word, **Wofec.**

No. 2, shipping weight, 210 lbs. Code word, **Fofeg.**

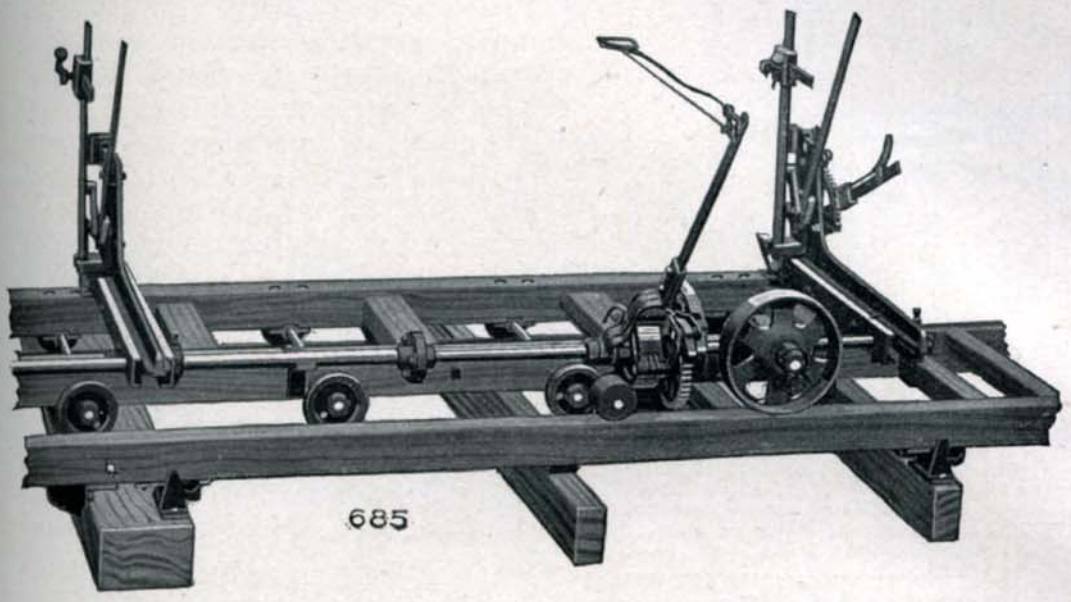


Note.—In ordering set works for other makes of mills, give size of set shaft, width of key seat in shaft and the travel of head-block knee to each turn of set shaft.

No. 1 set works made for shafts up to $1\frac{5}{16}$".

No. 2 for shafts up to $2\frac{1}{2}$".

"Ideal" Set Works and Power Foot Receder



This is a combination of our well-known **"Ideal" Set Works** and **Quick Receder** with our **"Improved" Power Foot Receder,** which we believe is the greatest help and convenience to the sawyer that has ever been applied to portable saw mills.

With this device the sawyer can **set up** the log either **by hand,** in the usual manner, or **by power** if he prefers. He can also **recede** the blocks **by hand three times as fast** as the setting or he can recede them **more rapidly** and **easier by power** when the carriage is in motion. The power is applied by simply pressing the foot on a treadle which is placed at the sawyer's position.

Neither device interferes with the other, for when the foot receder is used it automatically disengages the hand receder and set works and when the foot power receder is released the hand receder and set works are ready for use again.

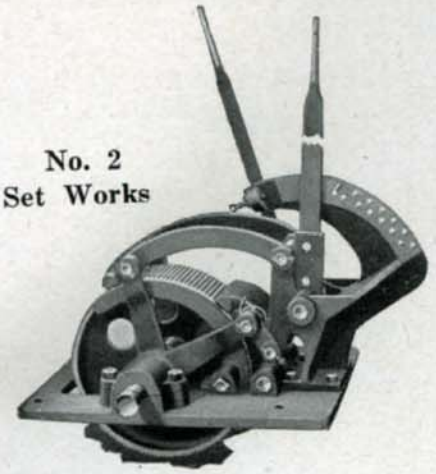
This combination can be applied to any of our saw mills from No. 1 up to No. 4 at small extra cost. It can be fitted to mills of other make.

NOTE.—In ordering these rigs for other makes of mills, give size of set shaft, width of key seat in shaft and the travel of head-block knee to each full turn of set shaft.

No. 1 Set Works and Foot Receder made for shafts up to $1\frac{15}{16}$". Code Word, **Wofel.**

No. 2, for shafts up to $2\frac{1}{4}$". Code Word, **Wofem.**

Double Acting Set Works



No. 2
Set Works

Nos. 1 and 2 have ratchet wheels with cut teeth and cast steel pawls carefully ground to insure accurate setting. **Steel Ratchet Wheels** furnished at extra price. The quadrant is graduated by 8ths or 16ths, and fitted with adjustable stop and an adjusting screw to provide for setting scant or full.

No. 1 Set Works is not illustrated. It is in principle the same as No. 2, but differs somewhat in construction.

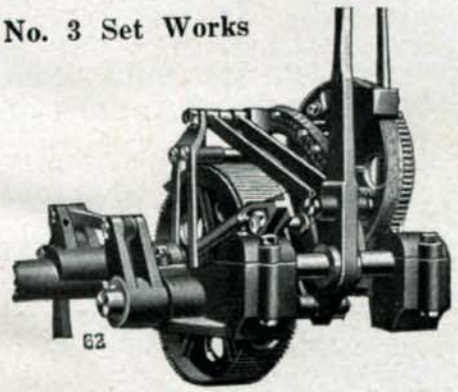
Size	No. 1	No. 1½	No. 2	No. 3
Weight complete	200 lbs.	350 lbs.	500 lbs.	536 lbs.
Size of Ratchet Wheel	12″x3″	12″x3″	18″x5″	18″x4″
Largest Set Shaft that can be used	2¼″	2¼″	2¾″	3″
Will set with double throw of lever	2½″	2¼″	2½″	2 1/16″
Can be used on our Mills Nos.	3 to 6	6½	7½	7½ and 8
Code Word	Wofes	Wofew	Woffi	Woffy

Spring or **Power Receder** must be used with these set works.

No. 1½ Steel Set Works—All small parts are made of steel. Spring or power receder may be used. Indicator dial as shown is not part of the regular set works, but is furnished, when ordered, at extra cost. This set works is used regularly with No. 6½ Saw Mill.

No. 1½
Set Works

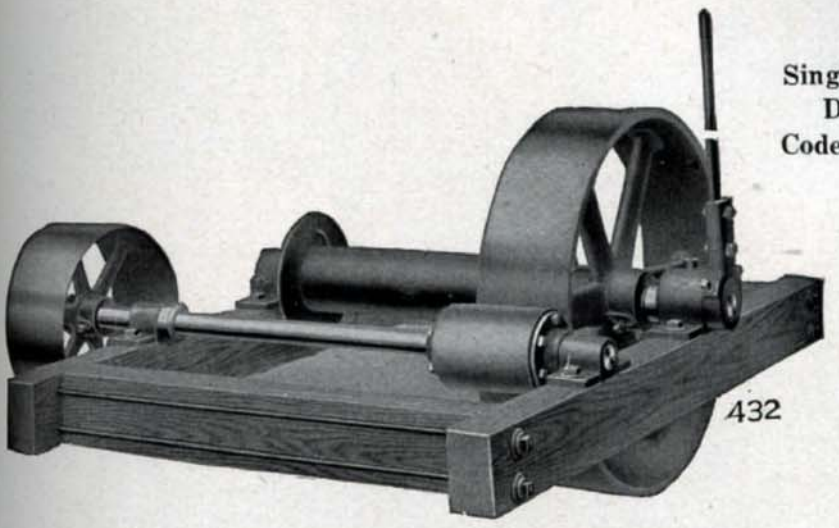
No. 3 Set Works



The No. 3 Set Works is constructed of STEEL. The quadrant is carried by one of the yokes and the location of the stop pins in this quadrant determines the travel of the knee. They may be set so that one throw of the set lever moves the knee 1-32″ or a double throw 1-16″. The receding lever lifts the pawls first, then applies the power receder so that the pawls cannot be down when the receder or brake is applied.

Car or Log Haul-Up Rigs

The following cuts show a few standard combinations of Log or Car Haul-up Rigs. If the specifications do not cover your requirements we are prepared to estimate on special rigs or combinations.



Single Spur Friction Drive Haul-Up
Code Word, Wofga

No. 1. Spur friction, 32"x8"; paper friction, 6"x8"; drum, 6"x24"; drum shaft, $3\frac{3}{16}$"; drive shaft, $1\frac{15}{16}$"; drive pulley, 16"x8". Speed, 250 R. P. M. Code word, **Wofgi.** Weight, 1175 lbs. Gross weight for export, 1475 lbs., 26 cubic feet.

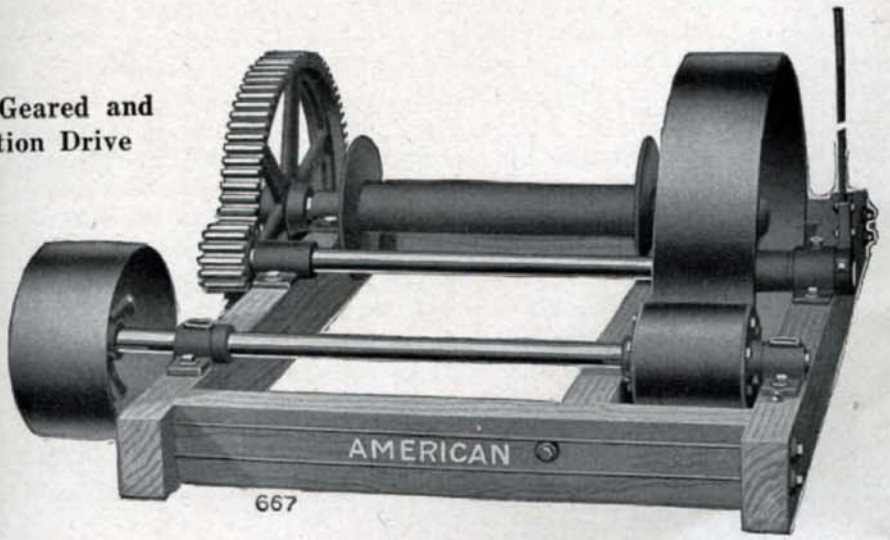
No. 2. Spur friction, 48"10"; paper friction. 10"x10"; drum, 6"x36"; drum shaft, $2\frac{7}{16}$"; drive shaft, $2\frac{3}{16}$"; drive pulley, 20"x10". Speed, 250 R. P. M. Code word, **Wofgy.** Weight, 1500 lbs. Gross weight for export, 1900 lbs., 52 cubic feet.

Spur Geared and Spur Friction Drive Car Haul-Up

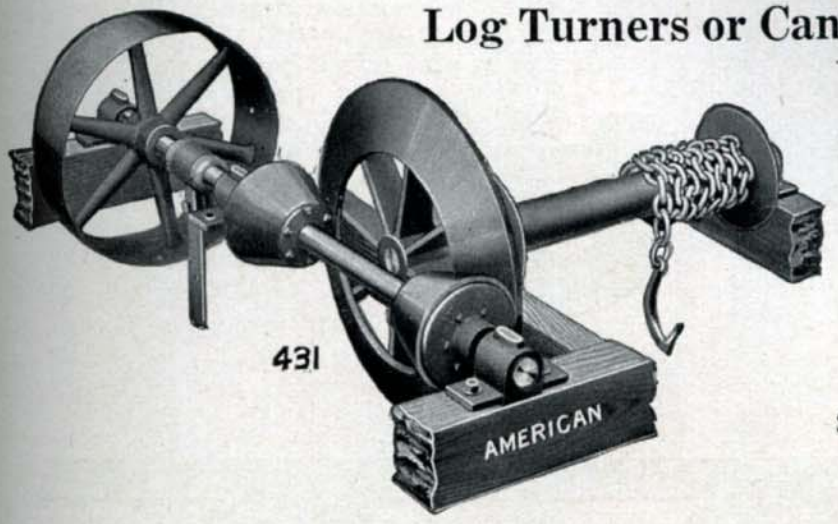
Code Word, Wofhe

Spur gear, 36.23" diameter; $1\frac{3}{4}$" pitch; 65 teeth; 5" face. Pinion, 7.24" diameter; 13 teeth. Spur friction, 48"x10". Paper friction, 10"x10". Shafts, $2\frac{7}{16}$" and $2\frac{3}{16}$" diameter. Pulley, 20"x10". Speed, 250 R. P. M. Code word, **Wofhe.** Weight, 1900 lbs. Gross weight for export, 2485 lbs., 66 cubic feet.

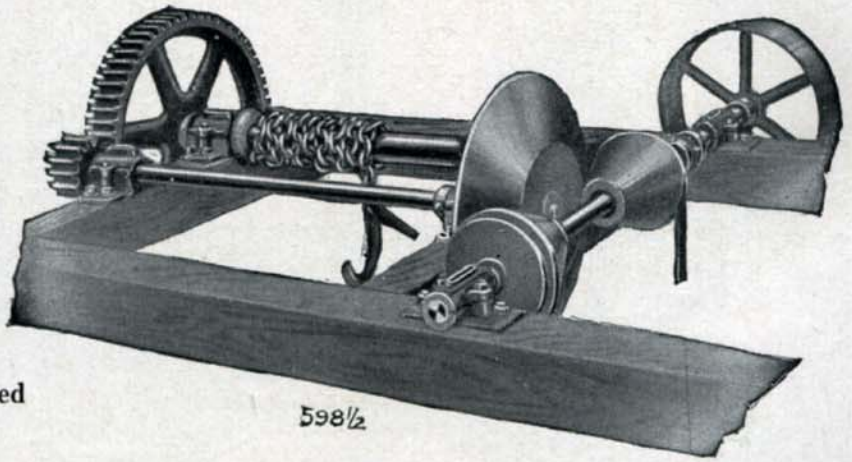
Spur Geared and Friction Drive



Overhead Reversible Friction Log Turners or Canters



Nos. 1 and 2, Single Geared



No. 3, Double Geared

This type of Log Turner is designed to be mounted directly over and parallel with the carriage. It can be used for drawing logs in from the deck to the carriage, as well as for turning them on the carriage.

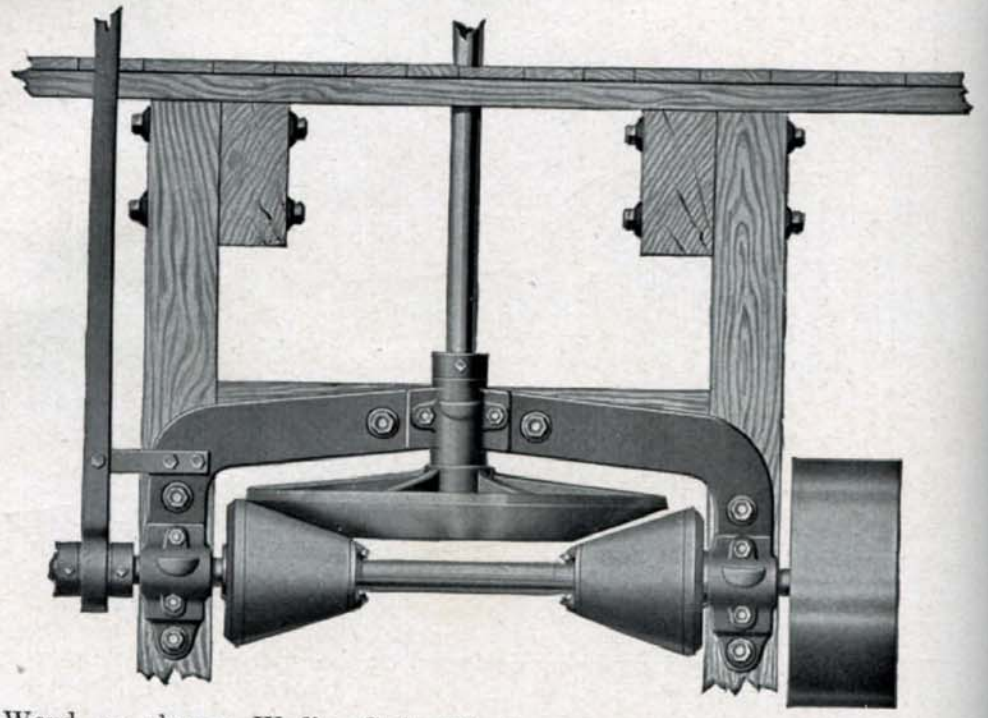
The driving shaft can be driven from any convenient line shaft or direct from the saw mandrel if desired. The chain is raised or lowered by bringing the small paper cone frictions alternately into contact with the large iron bevel friction by the movement of a lever which is in convenient reach of the sawyer.

Fifteen feet of ½" cable chain and hook are furnished, unless otherwise specified. Made in three sizes, as follows:

Size	No. 1	No. 2	No. 3
Driving Pulley (speed 200)	24"x6"	24"x8"	24"x8"
Driving Shaft, 8' long	1 15/16"	2 3/16"	2 3/16"
Paper Cone Frictions	8"x5"	10"x6"	10"x6"
Bevel Iron Friction	24"x5"	30"x6"	30"x6"
Drum with 10" Flanges	24"x4"	30"x4"	30"x4"
Spur Gear			36"x3"
Pinion			8"x3"
Weight, net	460 lbs.	630 lbs.	1,000 lbs.
Weight, gross (boxed)	560 lbs.	730 lbs.	1,200 lbs.
Cubic Measurement	21 cu. ft.	32 cu. ft.	40 cu. ft.
Code Word	**Wofhu**	**Wofij**	**Wofik**

Live Roll Driving Rigs

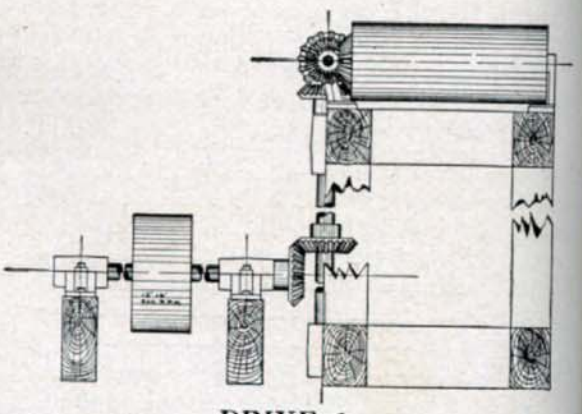
We are prepared to furnish **Reversible Friction Driving Rigs** for Live Rolls, complete as shown in large cut, in two sizes. No. 1 with 24″x5″ Iron Bevel Friction, 8″x5″ Paper Cone frictions and 12″x6″ pulley, weight 500 lbs. No. 2 with 30″x6″ Iron Bevel Friction, 10″x6″ Paper Cone Frictions and 20″x6″ pulley, weight 700 lbs. They may be driven from any convenient shaft in the mill and are operated by a lever placed near the sawyer. When preferred we can furnish them at less price without the yokes, but with four plain boxes for the shafts to work in. These rigs can be erected parallel with or crosswise the line of rolls.



Code Word, as shown, **Wofin.** Code Word, without yoke, **Wofir.** (Give number.)

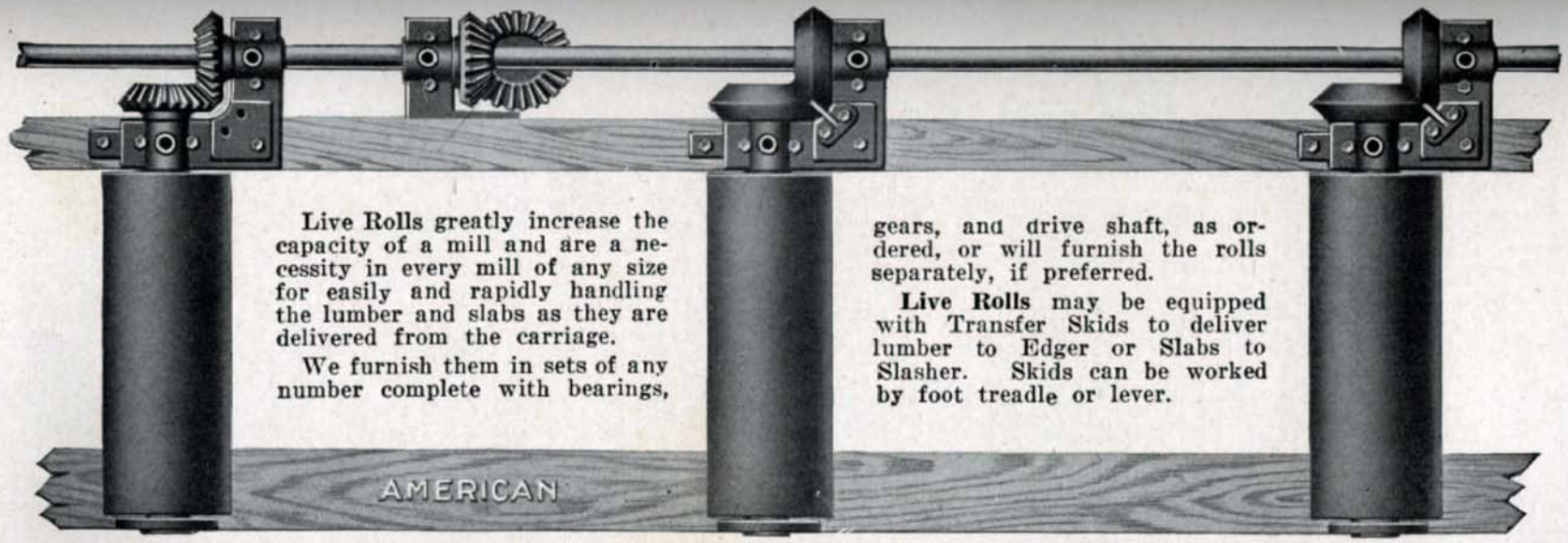
No. 3. Code Word, Wofit

We also have a simpler **one-way drive,** as shown in the smaller cut; this is cheaper and may be driven direct from the saw mill mandrel, when desired.



DRIVE 1

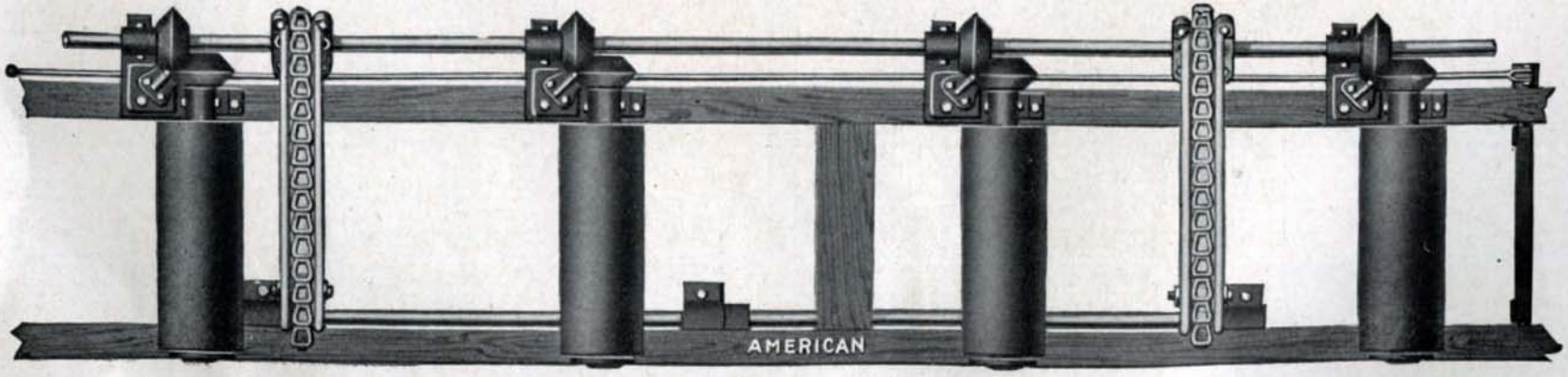
Live Rolls and Transfer Skids



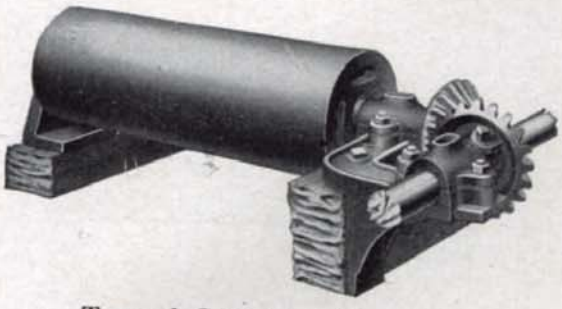
Live Rolls greatly increase the capacity of a mill and are a necessity in every mill of any size for easily and rapidly handling the lumber and slabs as they are delivered from the carriage.

We furnish them in sets of any number complete with bearings, gears, and drive shaft, as ordered, or will furnish the rolls separately, if preferred.

Live Rolls may be equipped with Transfer Skids to deliver lumber to Edger or Slabs to Slasher. Skids can be worked by foot treadle or lever.



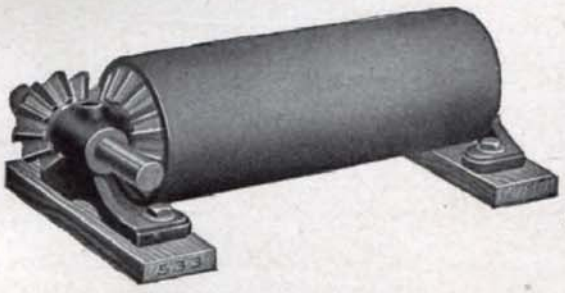
Live Rolls and Dead Rolls



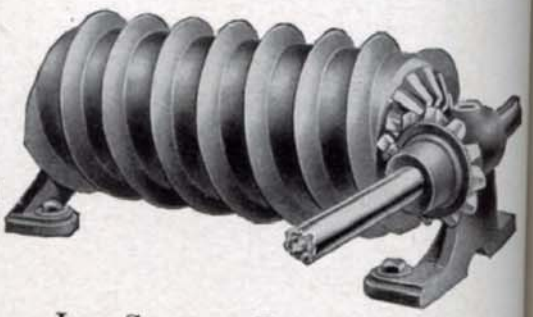
Turned Cast Iron Live Roll
Code Word, Wofix

We can furnish promptly, **Turned Cast Iron** or **Steel Tube Live Rolls**, as shown here, also **Cast Iron Screw** or **Transfer Rolls** either **Right** or **Left** hand in any desired number and in sizes as given below.

The prices are based on furnishing each roll complete with gears, bracket bearings and 4½′ of drive shaft; but **rolls only** can be supplied when desired.



Steel Pipe Live Roll
Code Word, Wofiz

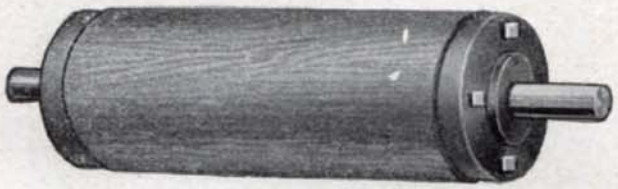


Iron Screw or Transfer Roll
Code Word, Wofje

Dimensions and Weights of Rolls with Gears and Bearings

Diameter of Roll	6 Inches			8 Inches			10 Inches		
Length of Roll.....Inches	18	20	24	18	20	24	18	20	24
Weight of Cast Iron Roll, with fixtures.....Lbs.	139	146	160	161	170	188	185	200	225
Weight of Steel Tube Rolls, with fixtures.....Lbs.	65	70	75	85	90	95	95	100	110
Weight of Cast Iron Screw Roll, with fixtures.....Lbs.	160	165	175	185	200	210	225	245	265
Weight of Steel Tube Idle Roll, with fixtures.....Lbs.	40	45	50	47	50	55	60	65	75

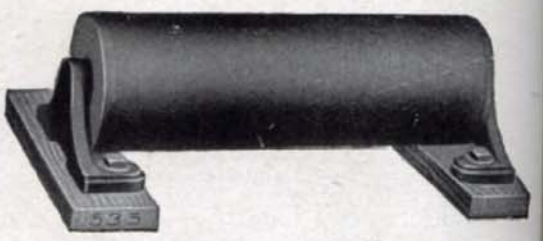
DEAD ROLLS



Wood Roll with Steel Shaft Through

Dead Rolls as shown here, either wood or iron, any size or length furnished with or without shafts and with or without bearings.

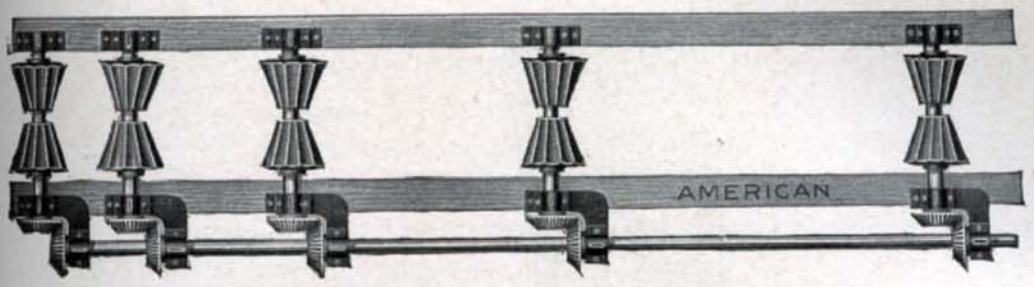
Cast Iron Roll with Bearings



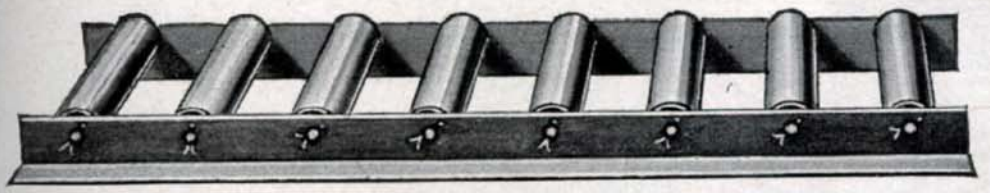
Pipe Roll with Bearings

Concave Live Rolls

Code Word, Wofjo

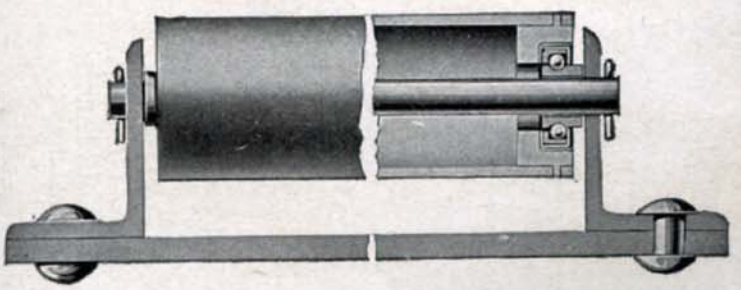


These live rolls may be used in connection with our drag saw or they may be connected with the power feed of our heavy belt driven drag saw or driven by our standard live roll drive rigs, either one-way or reversible; arrangement of rolls, number of rolls, etc., to suit requirements of purchaser.



Code Word, Wofju

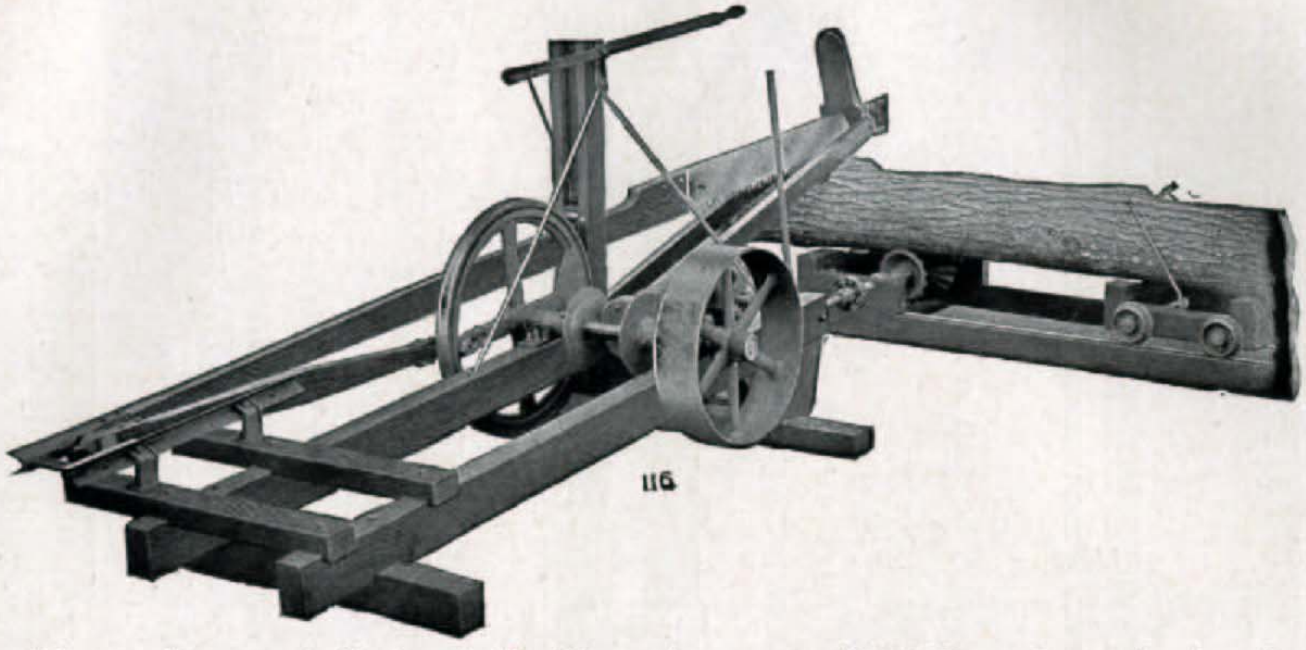
BALL BEARING LUMBER ROLLS. Rolls are 1⅞ inches diameter, 14⅞″ long, with Ball Bearings and ½ inch through shafts. Bottom braces for cross girt hold angles in alignment. Angles have countersunk screw holes to fasten to timbers. Standard sections are 5 ft. long with four rolls, and 10 ft. sections with seven rolls. Center to Center of Rolls 17⅛″, width over all 19$\frac{5}{16}$ inches. Side members 3x2x$\frac{3}{16}$″ angle.



Ball Bearing Roller

"Champion" Friction-Feed Drag Saw

Code Word, Wofko



This machine, as its name indicates, is the **Champion** among light **Drag Saws,** having decided advantages not found in others. It is strong and durable, simple in construction, easy to operate and a most rapid worker.

The Main Frame is 26" wide, 8½' long, and is made of 3½"x5½" seasoned hard-wood, strongly framed together, securely bolted and braced.

"Champion" Friction-Feed Drag Saw

The Track is 27″ wide, 16′ long, made of 2¼″x4″ timbers, well framed together, without iron.

The Friction Feed is very simple, yet positive and effective. It will start, stop or reverse instantly by very slight motion of the feed lever. This enables the operator to feed the logs ahead or back, and stop at any point without running back or losing time. This feature alone puts the "Champion" ahead of any other drag saw in the market, and it has every practical advantage that can be desired in a machine of its kind.

The Balance Wheel is large and heavy, and counter balanced, imparting a strong, steady motion and is arranged for changing the stroke from 16″ to 20″ or 24″.

The Log Truck is very substantial, having steel axles and two dogs for securely holding logs.

The Saw is raised with one hand, and the friction feed operated with the other, thus changing and setting for a new cut without slowing down or stopping. A strong, reliable saw guide is also provided.

Unless Otherwise Ordered, each machine is furnished complete with 24″x6″ driving pulley, log truck, power rolls, tumbling rod, with two universal couplings, 16′ of track and one 5′ 6″ saw.

Tight and loose pulleys can be furnished, if so ordered, at small additional cost.

When operated by sweep horsepower, the driving shaft is fitted with a **Universal Coupling** for tumbling rod, instead of driving pulley.

We can supply this drag saw without power feed and with a **Ratchet Lever,** to operate the feed roll, thus making a most desirable hand-feed machine at very low price.

Capacity: 30 to 40 cords of wood per day, depending on kind of wood, power and speed.

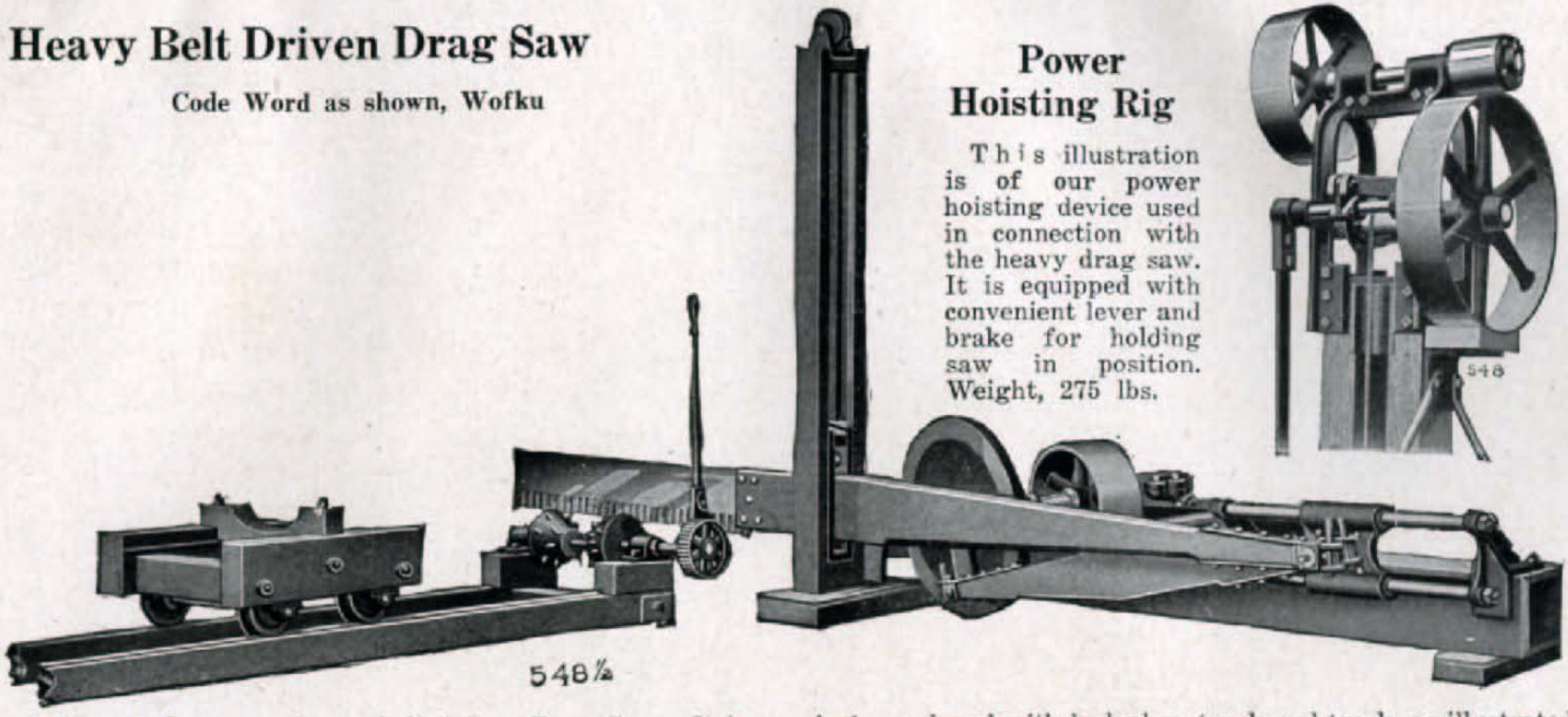
Power Required: 3 to 4 H. P. will operate machine to good advantage.

Speed Recommended: 125 to 175 R. P. M.

Shipping Weight: 1,300 lbs. Weight, for export, 1,450 lbs.; 51 cubic feet.

Heavy Belt Driven Drag Saw

Code Word as shown, Wofku



Power Hoisting Rig

This illustration is of our power hoisting device used in connection with the heavy drag saw. It is equipped with convenient lever and brake for holding saw in position. Weight, 275 lbs.

The cut shows our heavy belt driven Drag Saw. It is regularly equipped with hedgehog truck and track, as illustrated, but may be equipped with live roll outfit. We also build this machine with power driven hedgehog and with friction drive, equipped with means for stopping and starting the saw. Power hoisting rig can be furnished as illustrated above.

Main frame is yellow pine or hard wood 7½"x7½". Crank wheel is 36" diameter, and stroke 28", 30" or 32" as desired. The pitman and connecting rod are equipped with steel straps and brass boxes. Driving pulley is 24"x28". Speed 125 to 175 strokes per minute. One drag saw 6½'x10" furnished with each machine.

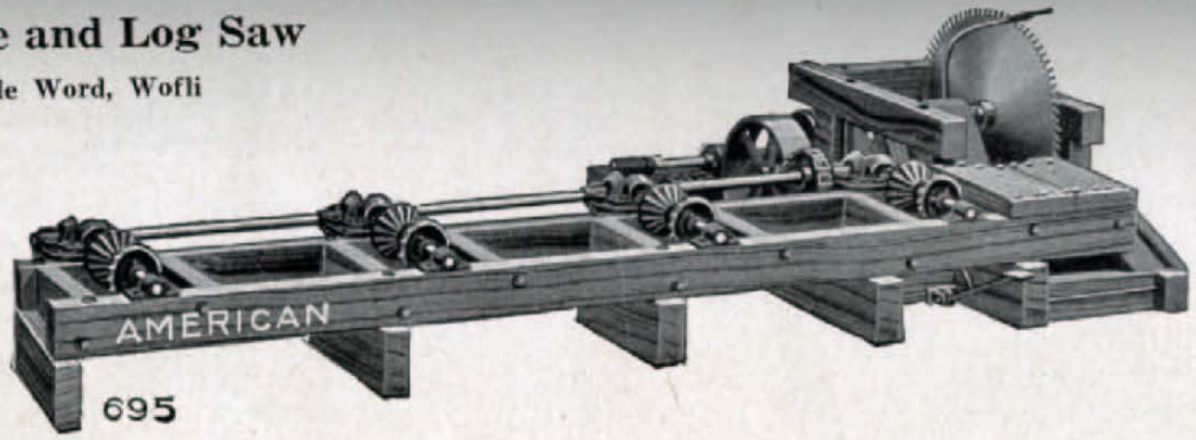
Weight as illustrated, 2660 lbs. Export shipping weight, 3180 lbs. Cubic contents, 75 cubic feet.

Deduct for hedgehog, truck and track, 650 lbs. Power feed for hedgehog adds to weight, 200 lbs.

Friction drive adds to weight, 520 lbs.

Circular Pole and Log Saw

Code Word, Wofli



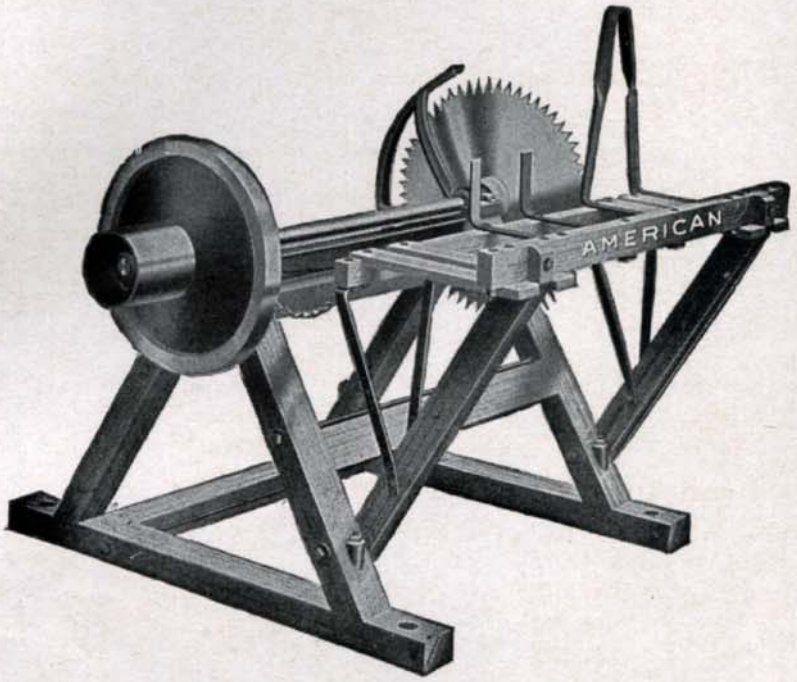
This machine is intended for cutting off poles and logs which are too large and heavy to be handled on the ordinary wood and pole saws.

The log rolls are actuated by a friction drive, driven from the saw mandrel and controlled by a foot pedal convenient to the operator. The saw is moved by means of a hand lever, is carried on a heavy swing frame, and driven by means of an endless belt from the countershaft which is mounted on the frame timbers. Furnished with four live rolls as shown. Additional live or dead rolls may be added according to requirements.

SPECIFICATIONS

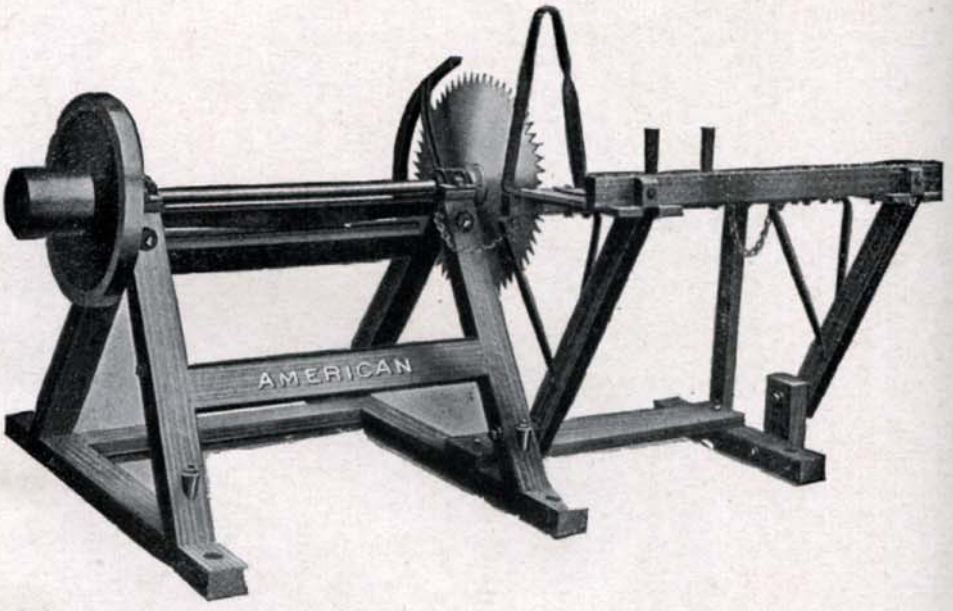
Length over all, 16'. Width, 8'.
Width of live roll frame, 28", timbers 3½"x7½".
Rolls are set 4' centres.
Receiving pulley on countershaft, 16"x8". Speed 400 R. P. M.
Drive pulley on countershaft, 12"x8".
Mandrel pulley, 6"x8".
Feed rolls in two parts, 9½" diameter at large end.
Distance from saw to first roll, about 24".
Size of saw, 42"—will cut through 15" log.
Belt required, 16' long, 8" wide.
Shipping weight, 3,150 lbs.
Weight each extra live roll with 4' of ways, 200 lbs.
Weight each extra dead roll with 4' of ways, 150 lbs.

"Clipper" Wood and Pole Saws



No. 3 Cord Wood Saw Right Hand

Code Word, Wofly



No. 4 Wood or Pole Saw Right Hand

Code Word, Wofme

"Clipper" Wood and Pole Saws

Our line of **Wood and Pole Sawing** machines is most complete, thoroughly **up-to-date** and strictly **high grade** in every particular. They cover every style of both tilting table and rolling table machines, with balance wheel placed on end of mandrel or on independent shaft under the frame.

The Frames are made of selected, seasoned hardwood, accurately mortised and tenoned, and securely bolted together by steel rods along-side the girts and passing through from one side of the frame tc the other. They are strongly braced in every direction and handsomely painted with two coats of brilliant red paint on the wood work and black on the iron parts.

The Mandrels are polished steel, perfectly true and run in heavy babbitted boxes. On the Nos. 3, 4 and 5 these boxes are united by a heavy cast iron yoke, insuring perfect alignment and cool bearings.

The Balance Wheels are accurately balanced, insuring a quiet, steady-running, durable machine. They weigh from 75 to 80 lbs., which is best for general work, but we can supply heavier balance wheels when desired at small extra cost.

Each machine is fitted with a strong, adjustable **Saw Guard** that will admit any size saw from 20″ to 30″.

No. 4 has **Extension Table** for cutting poles or 4′ or 8′ cord wood. By changing the iron guard to the opposite end of the tilting table, this machine can be set up exactly as No. 3.

Unless otherwise ordered the frames are made right hand as shown in the cuts, but when desired we can furnish them left hand to receive the saw **at the opposite end of the mandrel** without extra charge.

Makers of and dealers in gasoline engines want **good wood saws** to sell with their engines, and recognizing the **high grade** of our machines they are buying them in large numbers.

Believing that a **cheaply built** wood saw is dear and a bad investment at any price, we have always built **high-grade machines only**, and, value compared with cost, we are giving **greater value** than is possible in the cheaply built machines.

SPECIFICATIONS

Mandrel, 1½″ diameter, 52″ long.

Distance saw to balance wheel, 42″.

Mandrel pulley, 6″x6″. Speed, 1,000 to 1,200 R. P. M., depending on size saw.

Will take saws 20″ to 30″ with 1⅜″ hole.

Shipping weights, No. 3, 300 lbs.; No. 4, 330 lbs.; No. 5, 385 lbs.

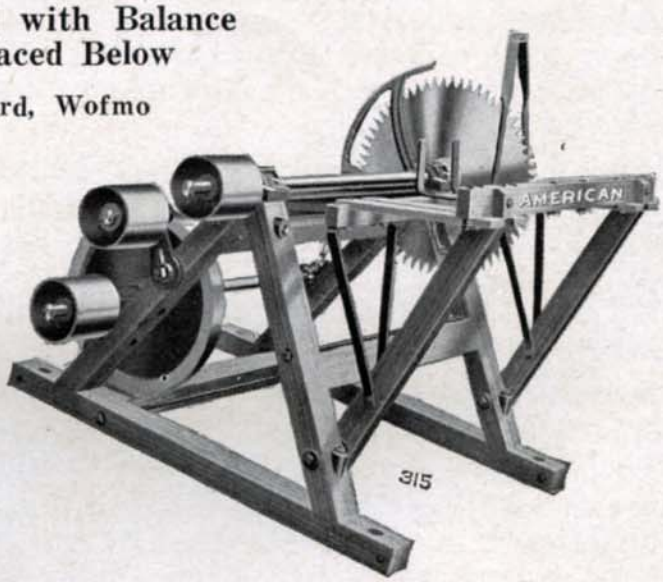
These machines are regularly shipped knocked down. Shipped set up if so ordered, without extra charge.

For Ripping Table Attachment, see page 75.

"Clipper" Wood and Pole Saws

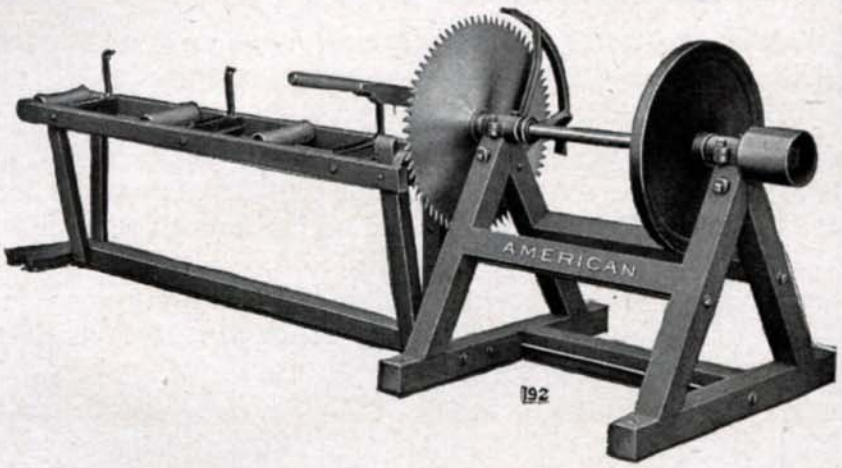
No. 5 Wood or Pole Saw Right Hand with Balance Wheel Placed Below

Code Word, Wofmo



No. 8 Heavy Wood and Pole Saw

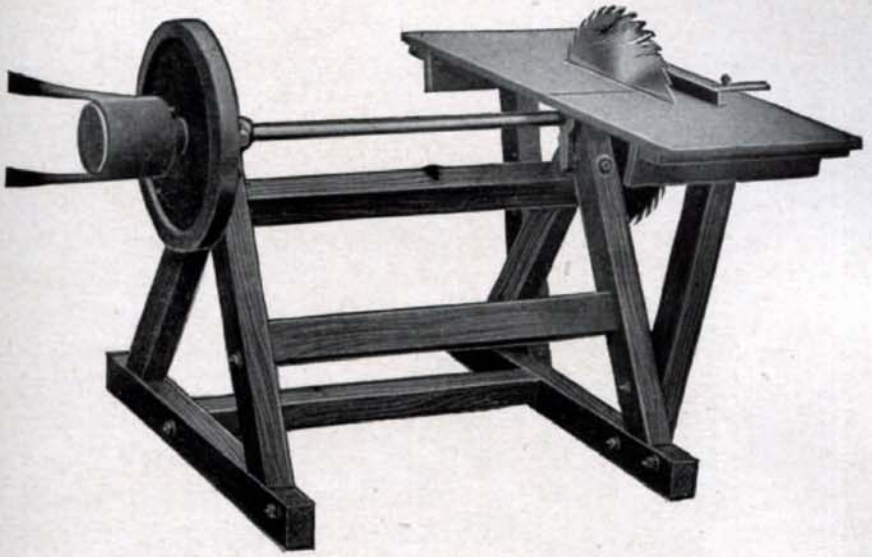
Code Word, Wofmu



This is an extra heavy, very strong machine for handling heavy 4′ and 8′ wood and longer and heavier poles than can be handled on our other wood saws. The frame is made of 3½″x3½″ seasoned hard wood. The tilting table is 7′ long, fitted with rolls so as to make it easy to move the wood to the saw. It is provided with a spiked lever for holding the wood firmly. The mandrel is $1\frac{11}{16}$″ diameter, turned down to take saws with 1⅜″ hole. It is 33″ from saw to balance wheel, which is 24″ diameter, and weighs 100 lbs. Mandrel pulley is 6″x6″. The adjustable guard will admit saws up to 30″. Weight, 420 lbs. Special 1,000 to 1,200 R. P. M.

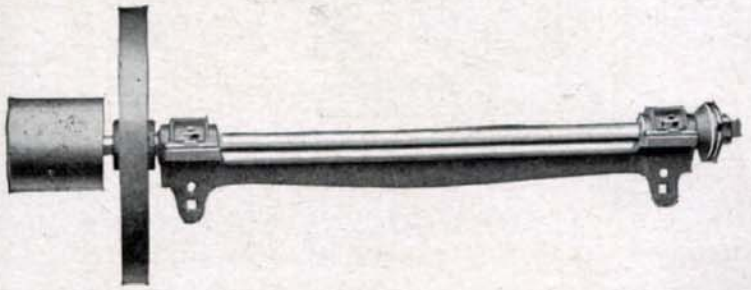
Ripping Table Attachment

Code Word, Wofna



This cut shows a **Ripping Table Attachment** which can be attached to our No. 3, 4, 5 or 8 wood or pole saws in a few moments. It has an adjustable guide and is very handy for ripping boards, sawing pickets, laths, crate slats, or for squaring fence posts, shingle blocks and other work. Furnished at slight extra charge. Not recommended for rip saws over 20″ diameter.

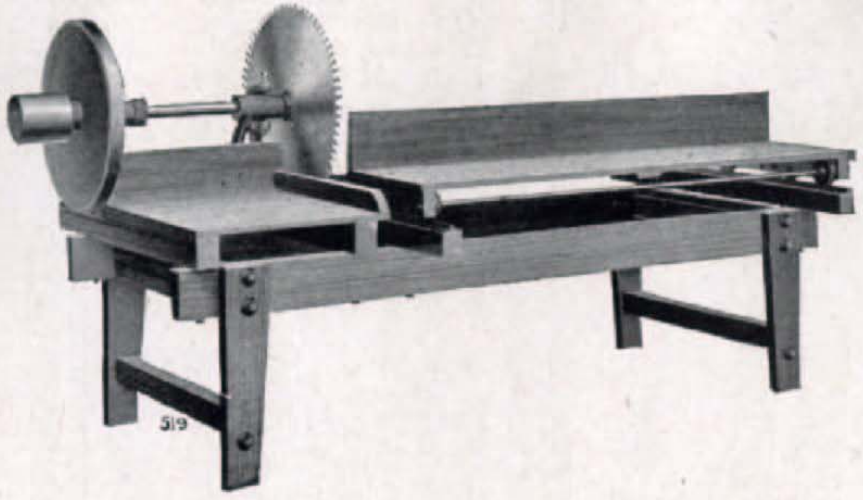
Cord Wood Saw Mandrels



For those desiring to make their own wood work, we can furnish mandrels with balance wheel, pulley and boxes. These are always made right hand and furnished with yoked boxes, as shown above, unless otherwise ordered. If desired, they can be furnished with flat boxes without the yoke. Can also be furnished without balance wheel. Pulley is 6″ diameter by 6″ face. Weight of mandrel, with boxes, pulley and balance wheel, 160 lbs. Boxed for export, 210 lbs. Cubic measurement 4 cu. ft.

No. 9 Rolling Table Wood and Pole Saw

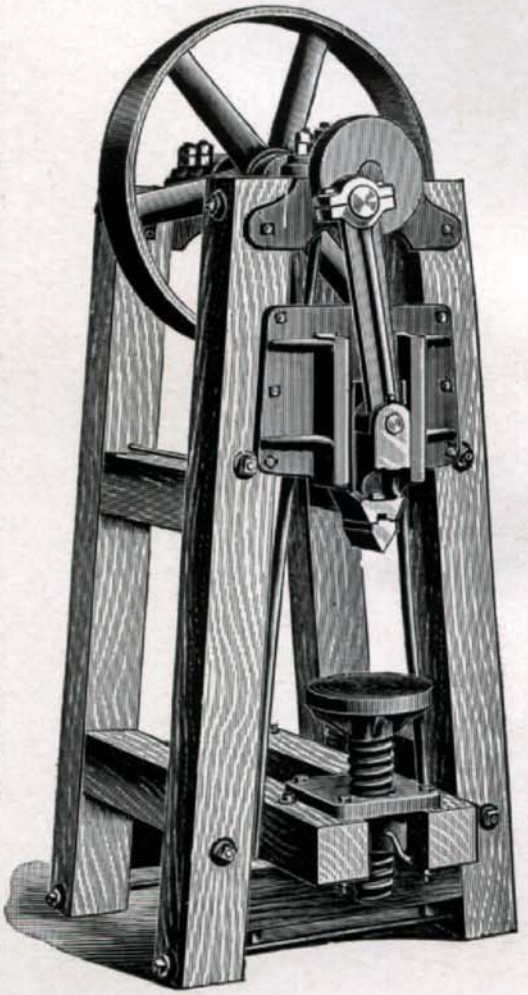
Code Word, Wofni



This machine will greatly reduce the amount of hard work usually required in sawing wood. The table is mounted on grooved rollers which travel on steel track so that it moves forward and back with very little effort. A roller at the end of the table makes it very easy to move the log along for the successive cuts. As the mandrel is mounted above the table, it is only necessary to move the table about half the diameter of the saw blade for full cut. The cut of the saw is downward, thus making it easy to hold the log in position. The machine is well finished and handsomely painted with two coats of good, bright red. Mandrel 38″x1½″; Pulley 6″x6″; Balance Wheel, 80 lbs.; Rolling Table 4′ long. Takes saws from 20″ to 30″ with 1⅜″ hole. Weight 440 lbs. Speed 1,000 to 1,200 R. P. M. These machines regularly shipped set up.

American Wood Splitter or Power Axe

This cut represents our **Improved Power Wood Splitter.** It is designed to withstand the strains to which such a machine is necessarily subjected, and will soon pay for itself in any excelsior factory, wood pulp mill, wood yard or kindling wood factory, where much splitting is done. Hard, knotty maple, oak, pine, or other kinds of wood, can be easily split. A single machine can split 5 to 10 cords, and a double machine can split from 10 to 20 cords per day.



The Wood is held in an upright position by the hands of the operator, the lower end resting on the pedestal, and merely turned around as the splitting is done.

The Main Frame is made of 6″x6″ seasoned oak timbers, securely framed and bolted together. It can be erected on any strong floor or timbers embedded in the ground.

The Pedestal has ample adjustment, giving the machine a range for splitting wood 8″ to 18″ long.

Machines for splitting wood 24″ long can be furnished, on order, at extra cost.

The Crank Shaft is made of steel and runs in babbitted boxes. The driving pulley weighs about 250 lbs. and has heavy rim, so as to give plenty of momentum. It is 32″x6″, and should run 150 R. P. M. One to two H. P. is required to operate successfully. Total height of machine, 7′ 1½″.

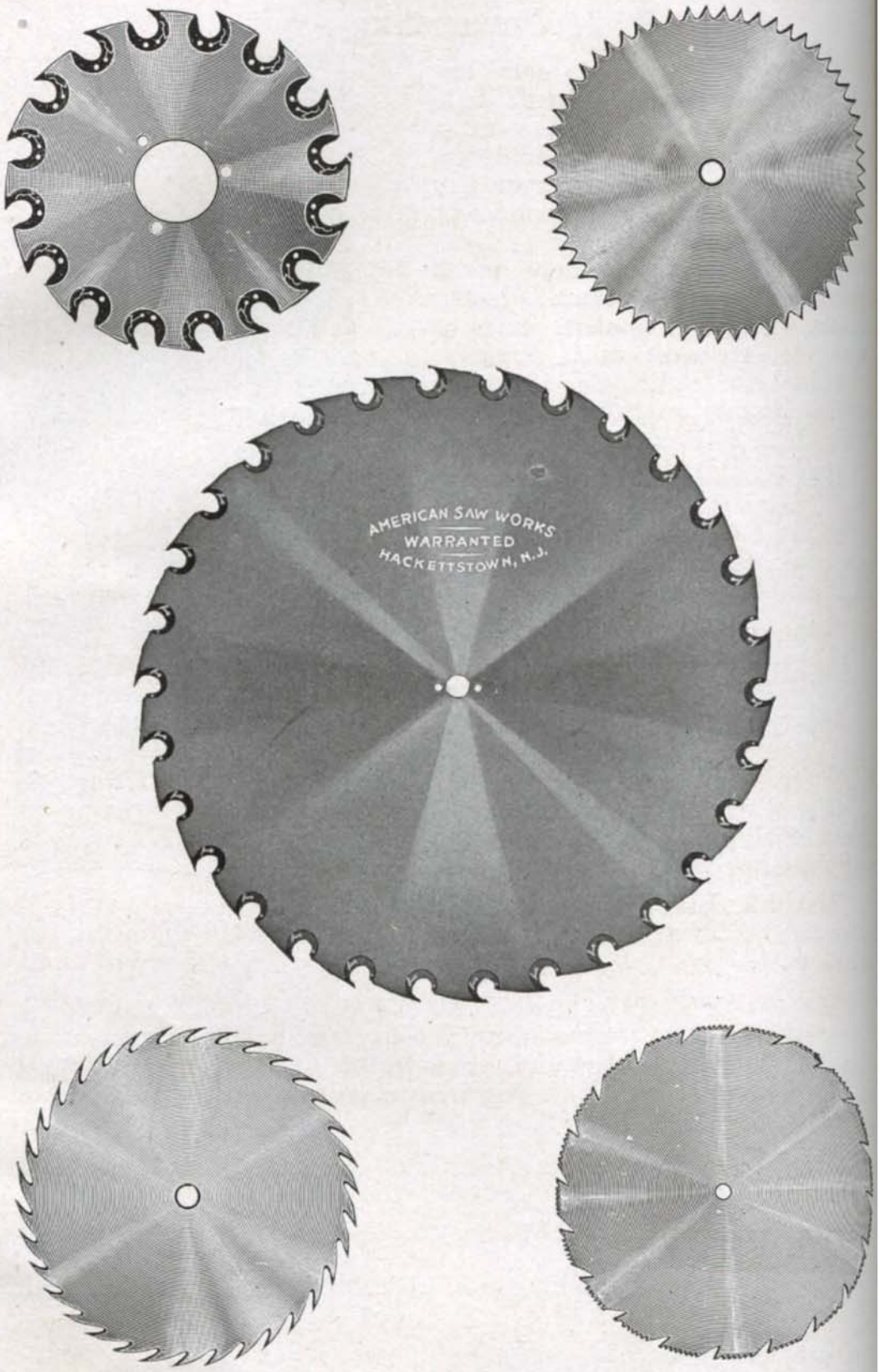
Weight: Single machine, net, 1,300 lbs.; gross, 1,550 lbs. Cubic contents, 42 cubic feet.

Code Word, **Wofny.**

Weight: Double machine, net, 1,850 lbs.; gross, 2,100 lbs. Cubic contents, 65 cubic feet.

Code Word, **Wofoc.**

American Saws



American Circular Saws

Manufactured in Our Own Saw Department. Best Quality of Material, Temper and Workmanship. Extra Strong and Tough, and Fully Warranted. Ask for Complete Saw Catalog.

Inserted Tooth Saws

No. 2½—Especially adapted to heavy feeds, hard wood and frozen timber. Recommended for edgers, bolters and bench work.

No. 3—The best for portable saw mills and general sawing, in soft or hard wood. A good all-around saw and always furnished for our portable mills unless otherwise ordered.

No. 4—Recommended for cutting soft Southern or Pacific Coast timber.

Solid Tooth Saws

We are prepared to furnish Solid Tooth Saws for all purposes, either standard or made to order, of all sizes and gauges, and make a specialty of quantity orders for industrial plants and manufacturers.

American solid tooth mill saws are unsurpassed.

Warranty—Each saw is warranted true and free from flaws. Any saw failing to run well will be rehammered free of charge, if **immediately** returned. If found to be defective in metal, temper, or tension within 30 days from delivery, it will be repaired or replaced **free of charge.** Circular saws, 48″ and larger, thinner than 10 gauge, are not warranted.

Inserted-tooth saws, under 42″ diameter, furnished with one extra set of teeth and two extra shanks; those 42″ diameter and over are furnished with one extra set of teeth and three extra shanks.

No extra charge for saws one gauge thicker than list.

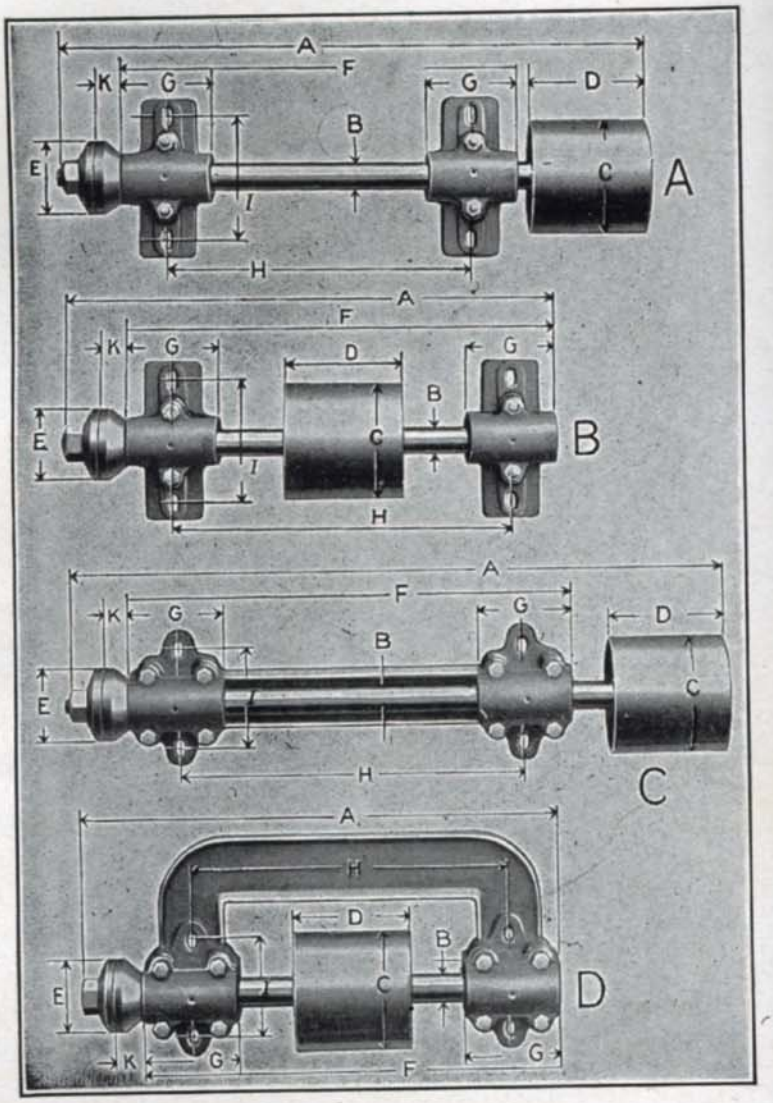
Our inserted-tooth files keep the teeth in hooked shape, same as new. They make the teeth last longer, run with less power, and cut smoother lumber.

When ordering bits or shanks, always send sample or give the number of saw, which is stamped on blade near trade mark.

Saw repairing promptly done, at reasonable prices, in our own Saw Works.

When ordering an American Saw Mill or other machine from your dealer, **insist** upon having **American Saws**—Made especially to suit the machine—they cost no more and are better.

American Saw Mandrels



Special Mandrels made to order. When ordering special man drels give length over all, and state if right-hand or left-hand man drel is desired. Illustrations are of left-hand mandrels.

Saw Mandrels

SPECIFICATIONS

Style A. Code Word, Wohcu

No.	A	B	C	D	E	F	G	H	I	J*	K	Wt.
1	19	1 1/8	3	4	3 1/2	12	4	8	6	1	1 1/8	27 1/4
2	24	1 3/16	4	4 1/2	3 1/2	16 1/2	4	12 3/4	6	1 1/8	1 1/8	32 1/2
3	26	1 5/16	5	5	3 3/4	18	4 1/4	13 3/4	6 1/4	1 1/4	1 1/4	36
4	30	1 7/16	6	6	3 3/4	21 3/4	4 3/4	17	6 1/2	1 1/4	1 1/4	46 3/4
5	36	1 11/16	6	8	4 1/2	25 1/2	5 1/2	20	7 1/4	1 1/2	1 1/2	71 1/4
6	36	1 15/16	8	8	4 1/2	26	6	20	7 3/4	1 5/8	1 1/2	89 1/2
7	48	1 15/16	8	10	4 1/2	37	6	31	7 3/4	1 5/8	1 1/2	100
8	36	2 3/16	10	10	5	24	7	17	9	2	2 1/8	131
9	48	2 3/16	12	10	5	36	7	29	9	2	2 1/8	144

Style B. Code Word, Wohda

No.	A	B	C	D	E	F	G	H	I	J*	K	Wt.
1	16	1 1/8	3	4	3 1/2	13	4	9	6	1	1 1/8	26 1/2
2	20	1 3/16	4	4 1/2	3 1/2	17	4	13	6	1 1/8	1 1/8	31 1/4
3	22	1 5/16	5	5	3 3/4	18 3/4	4 1/4	14 1/2	6 1/4	1 1/4	1 1/4	32 1/4
4	26	1 7/16	6	6	3 3/4	22 3/4	4 3/4	18	6 1/2	1 1/4	1 1/4	44 1/2
5	30	1 11/16	6	8	4 1/2	26	5 1/2	20 3/4	7 1/4	1 1/2	1 1/2	66 3/4
6	36	1 15/16	8	8	4 1/2	32	6	26	7 3/4	1 5/8	1 1/2	89 1/2
7	48	1 15/16	8	10	4 1/2	44	6	38	7 3/4	1 5/8	1 1/2	100
8	36	2 3/16	10	10	5	31 1/4	7	24 1/4	9	2	2 1/8	131
9	48	2 3/16	12	10	5	43 1/4	7	36 1/4	9	2	2 1/8	144

Style C. Code Word, Wohdi

No.	A	B	C	D	E	F	G	H	I	J*	K	Wt
1	26	1 1/8	3	4	3 1/2	18 1/4	4	14 1/2	5	1	1 1/8	38 1/4
2	28 1/2	1 3/16	4	4 1/2	3 1/2	20 1/4	4	16 1/2	5	1 1/8	1 1/8	44 1/4
3	30	1 5/16	5	5	3 3/4	21 1/2	4 1/2	17	5	1 1/4	1 1/4	49
4	33 1/2	1 7/16	6	6	3 3/4	23 1/4	5	18 1/2	5 1/4	1 1/4	1 1/4	61 1/4
5	36	1 11/16	6	8	4 1/2	25	5 1/2	19 1/2	5 1/4	1 1/2	1 1/2	80
6	36	1 15/16	8	8	4 1/2	25	5 1/2	19 1/2	6	1 5/8	1 1/2	100

Style D. Code Word, Wohed

No.	A	B	C	D	E	F	G	H	I	J*	K	Wt.
0	11 3/8	7/8	2	2	2 1/2	7 3/8	2	5 3/8	4 1/2	3/4	1/2	15
1	19 1/2	1 1/8	3	4	3 1/2	16	4	12	5	1	1 1/8	33 1/4
2	21 1/2	1 3/16	4	4 1/2	3 1/2	18	4	14	5	1 1/8	1 1/8	39 1/2
3	23 1/2	1 5/16	5	5	3 3/4	20	4 1/2	15 1/2	5	1 1/4	1 1/4	46 3/4
4	25 1/2	1 7/16	6	6	3 3/4	22	5	17	5	1 1/4	1 1/4	57 1/2
5	28 1/4	1 11/16	6	8	4 1/2	24	5 1/2	18 1/2	5 1/4	1 1/2	1 1/2	78
6	28 1/4	1 15/16	8	8	4 1/2	24	5 1/2	18 1/2	6	1 5/8	1 1/2	99
8	36	2 3/16	10	10	6	32	7	25	8	2	2 1/8	150

*J—Size of Mandrel where saw goes on.

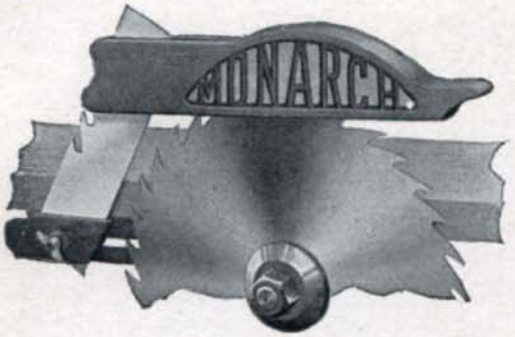
Our saw mandrels are made of best grade of steel with self-oiling, babbitted bearings, with ample oil pockets in lower half of box, which should be kept full. They are fitted in the most careful manner and will run true and cool. We can furnish them in any style shown in the cuts, and of any size given in the tables. All our standard mandrels are made with pulley **to the right** of the collars and with **left-hand** threads, but we can furnish them with **right-hand** threads when so desired. Saw is not included. Double-end mandrels at 1½ price of regular mandrels. For larger pulleys, add the difference in price of iron pulleys. No allowance will be made for smaller pulleys.

Adjustable Grooving or Dado Head

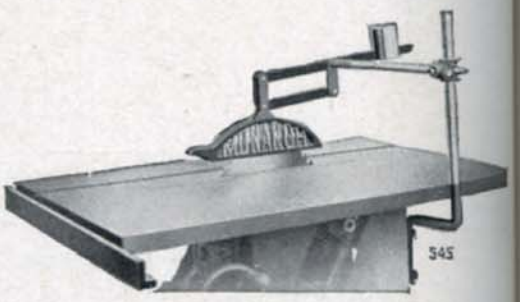
Fits any Saw Mandrel. Made in following sizes: 6", 7", 8", 9", 10", 11", 12", 14", 16", 18", 20", and arranged in sets to cut, No.

1 from ⅛" to ⅜" by 8ths.
2 from ⅛" to ⅝" by 8ths.
3 from ⅛" to ¾" by 16ths.
4 from ⅛" to 1" by 16ths.
5 from ⅛" to 1½" by 16ths.
6 from ⅛" to 2" by 16ths.

Saw Guards



Style A
Code Word, Wofof



Style B
Code Word, Wofog

No. 1, for Saws 6" to 12".
No. 2, for Saws 10" to 16".
No. 3, for Saws 14" to 20".

In ordering, state what style is wanted and whether right or left hand. Cut shows right hand.

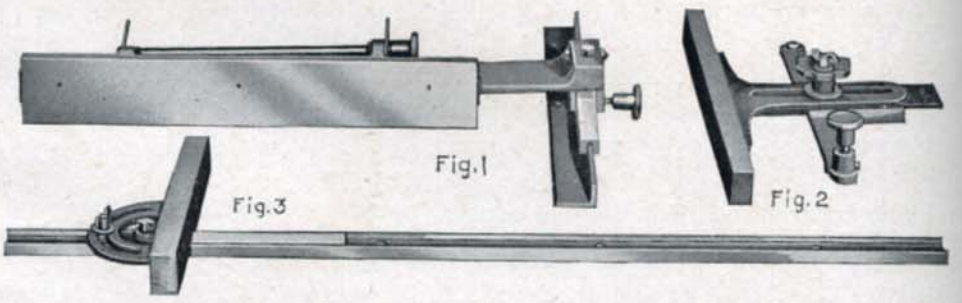
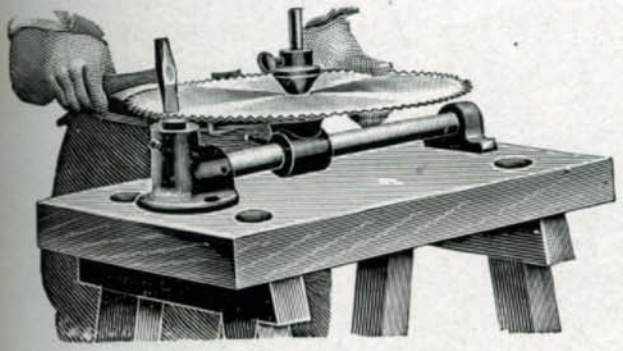


Fig. 1—Rip Gauge with tilting fence
Fig. 2—Rip Gauge with Plain fence
Fig. 3—Mitre Cut-off Gauge

Saw Set, Swages and Lumbering Tools



American "Perfect" Saw-Setting Stake

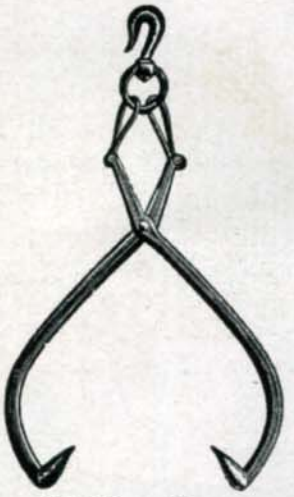
This Setting Stake is intended for setting circular, rip or cut-off saws, from 8" to 36" diameter. The setting is done by striking every other tooth with a hammer, then turning the saw over and repeating the action.

As the anvil has varying bevels, the amount of set can be regulated by the operator.

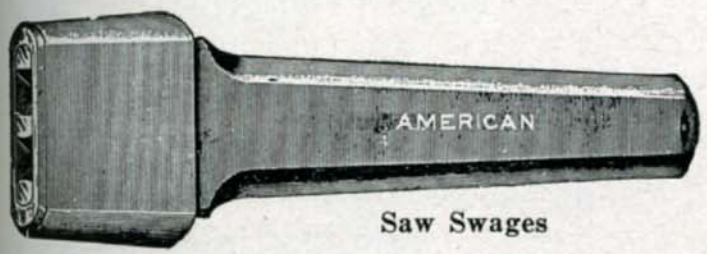
Side File

The Side File or Saw Tooth Jointer is used for the purpose of dressing saw teeth after they have been set or swaged. A saw thus dressed will run twice as long without sharpening, and saw smoother lumber. A piece of any mill file can be used.

Swamp Hook



Skidding Tongs
Open 24" to 36"



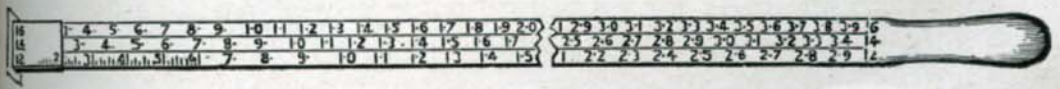
Saw Swages

No. 0—For Saws 5 to 7 gauge.
No. 1—For Saws 8 to 12 gauge.
No. 2—For Saws 12 to 15 gauge.
No. 3—For Saws 15 to 20 gauge.

Flat Mill Saw Files and Oval-back Inserted-Tooth Files

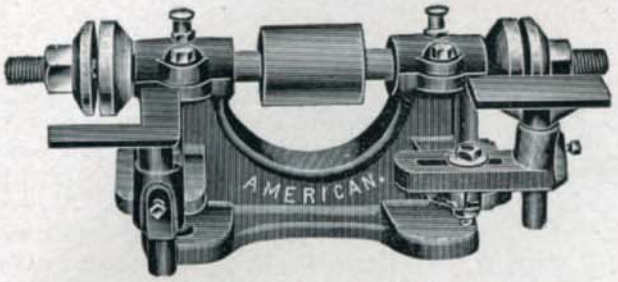
Handy Cant Hooks

No. 1—Small size, 4½' handle.
No. 2—Large size, 5½' handle



Log and Lumber Rules

Emery Grinding Machines



Double Emery Grinder.
Code Word, Wofol

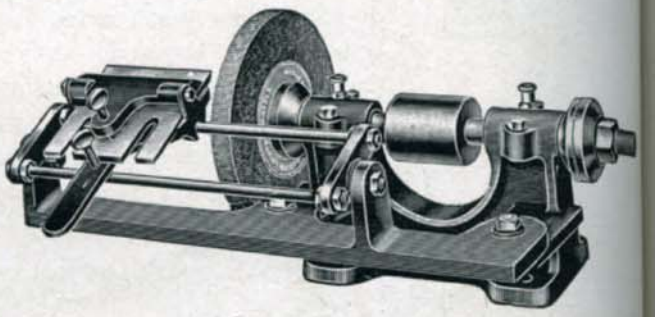
This machine is intended for saw gumming, making moulding cutters, tool grinding and other kinds of emery grinding.

It will carry two wheels at one time up to 12″ diameter by 1½″ face, with 1″ hole.

The spindle is steel, 1⅛″ diameter, 22″ long with pulley 3″x3½″ and runs in babbitted boxes.

Weight, as shown, 60 lbs.

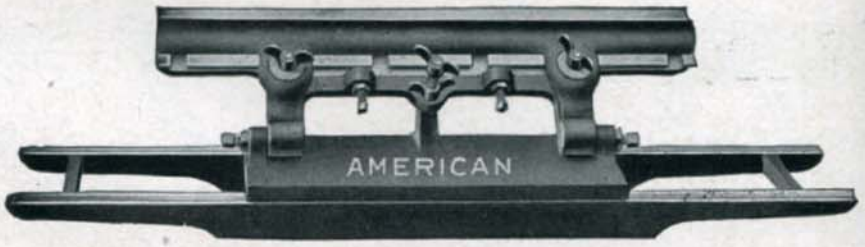
Can furnish counter-shaft when desired, with 6″x3″ T. and L. pulleys, and 12″x3″ driving pulley.



This shows our Double Emery Grinder, fitted with an attachment for grinding excelsior machine knives and spurs. Code word, **Wofom.**

Single Emery Grinder
Code Word, Wofop

Will take wheels 12″x1″, with ¾″ hole
Pulley 2½″x2½″



This attachment is for grinding planer knives, and is to be used in connection with an emery wheel or ordinary grindstone. Code word, **Wofos.**

Single Saw Hand Edger

This machine is very valuable in properly edging and hearting lumber for the market, thus making it grade higher and bring a better price. It is provided with an **Adjustable Ripping Gauge,** and may be used to great advantage in making pickets, slats, shingle-lath, etc.

The Carriage will take a board 16′ long, 24″ wide, and is fitted with four sets of trucks mounted on steel axles, running in solid metal boxes. Substantial iron track is fitted to the ways. Furnished with one 16″ solid saw. Larger saws can be used.

Main Table, 2′x4′, fitted with gauge.
Track Ways, 32′ long 22″ wide.
Carriage, 14′ long, 13½″ wide.
Floor space required, 32′x4′ 6″.
Steel Axles, ¾″ diameter. Trucks, 3¾″ diameter.
Mandrel, 1 1/16″ diameter—Hole in Saw, 1¼″.

Driving Pulley, 6″x6″. Speed, 1,500 R. P. M.
Weight, net, 865 lbs. Gross, 1,150 lbs.
Cubic measurements, 52 cubic feet.
Weight, all iron parts and Saw, 485 lbs.
Weight, legs only, 350 lbs.

When desired, we can furnish **Iron Parts and Saw no Legs, or Iron Parts and Saw with Legs.**
Code Word, complete, **Wofpe.** Code Word, iron parts only, **Wofpo.**

Roller Bearing Gang Edger No. X21

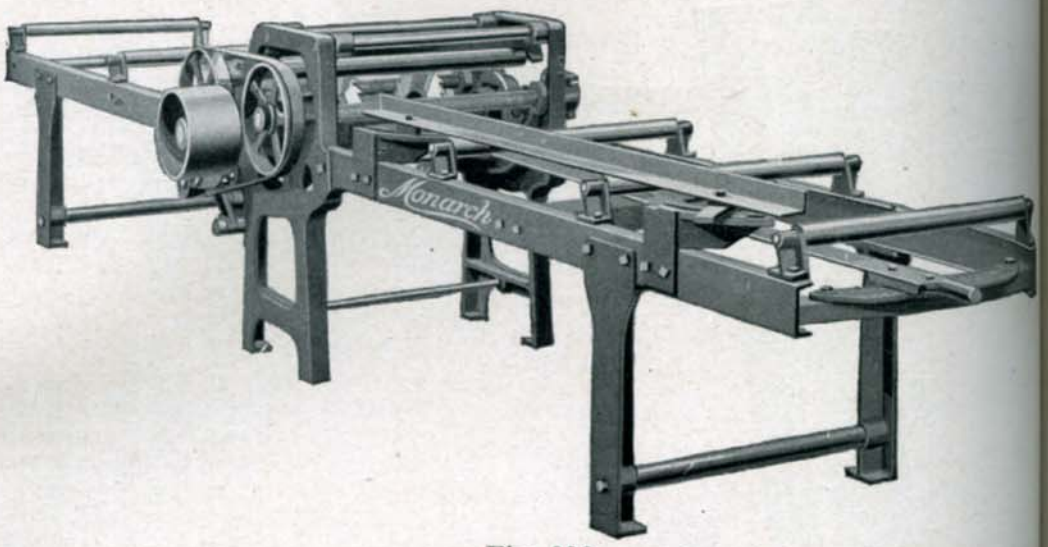


Fig. 998

After much experimenting, the elimination of all unnecessary parts and the incorporation of everything necessary to the perfection of a light weight edger with heavy duty possibilities, we offer this machine as one which cannot fail to meet the approval of the trade.

This machine is made of steel and iron. It is equipped with ball bearings for the mandrel and roller bearings for the driven feed rolls. So light is the draft that it is easily operated by a 5 H. P. motor and the feed belts required are but 1½″ wide and so arranged that slippage is reduced to a minimum.

The feed is arranged for two speeds viz., a fast feed 120′ per minute for light work and a slow feed 60′ per minute for heavy work. With the slow feed, which is fast enough for all ordinary requirements, the machine will handle stock up to 4″ thick. This is something which should not be overlooked in the purchase of a small edger.

The tendency to skew the boards, which is a common fault of small gang edgers has been eliminated and with reasonable care in feeding, the boards will run through perfectly straight. This feature makes this machine particularly adapted to lumber yard use.

The machine is fitted with two saws, one stationary and the other is shifted by a steel lever, means being provided so that all lost motion between lever and saw is eliminated.

A plainly marked indicator at the operator's end of the table may be adjusted to cut full, exact or scant and permits quick setting of movable saw.

The stationary saw may be placed at any location on mandrel, the usual position being 6″ from frame. In this latter position an adjustable steel guide may be set at points 2″. 4″ and 6″ from the stationary saw.

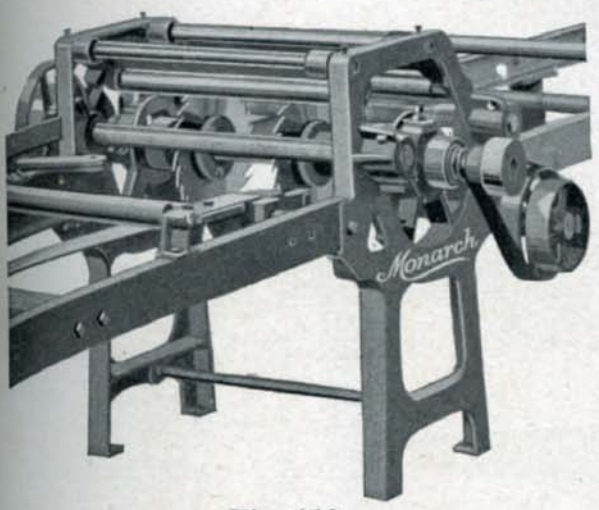


Fig. 999

Customer may change Edger from right to left hand in a few minutes time.

The tables are fitted with steel rolls.

The machine is regularly furnished with drive pulley on mandrel but may be furnished with motor mounted on separate floor stand (See Fig. 997) and direct connected to mandrel by flexible coupling, the latter being a most desirable equipment, eliminating much waste of power.

To remove saws from either end of mandrel, unscrew nut on sleeve at each end of ball bearing mandrel box, loosen two screws in the feet of mandrel yoke, then the yoke and bearings can be removed from main frame and mandrel; or by loosening two set screws in yoke, bearing and yoke may be removed independently. In either case both the yoke and the bearings may be returned to their original position and alignment by simply reversing the above process.

With the stationary saw placed 6″ from either side of frame, the movable saw may be shifted from 2″ to 16″ from stationary saw.

EQUIPMENT:—Two Saws 14″ Diameter, Solid or Inserted Tooth, with 4″ arbor hole and Three $\frac{5}{16}$″ Dia. holes 120 Degrees apart on 4¾″ Dia. Circle. Feed Belts are included.

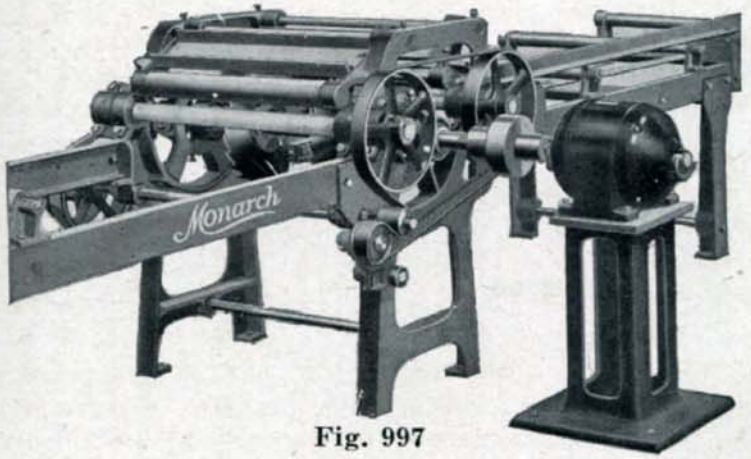
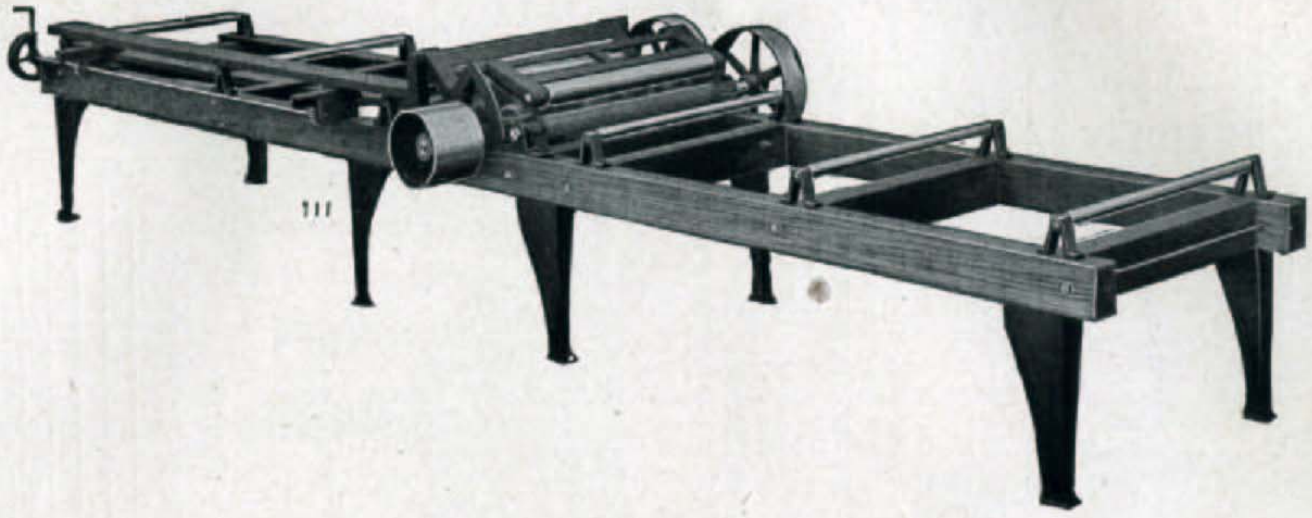


Fig. 997

SPECIFICATIONS

Length over all	16′
Width without motor	4′ 6″
Width of table	31″
Total width through frame	28″
Diameter of Ball Bearing Mandrel	$1\frac{15}{16}$″
Diameter of Roller Bearing Feed Rolls	$1\frac{15}{16}$″
Diameter of Rear Pressure Roll	$2\frac{15}{16}$″
Diameter of Front Pressure Roll	$2\frac{7}{16}$″
Drive Pulley	6″ dia. 8″ Face
Maximum Distance Between Saws	16″
Maximum Height of Stock that can be cut	4″
Weight with Belt Drive	1300 lbs.
Shipping Weight	about 1360 lbs.
Shipping Weight with motor	about 1760 lbs.
Weight for Export (Belt Drive)	1550 lbs.
Weight for Export (Motor Drive)	1950 lbs.
Cubic Contents	47 C. F.
Code Word	**Wofru**

"Pony" Gang Edger, 33-Inch



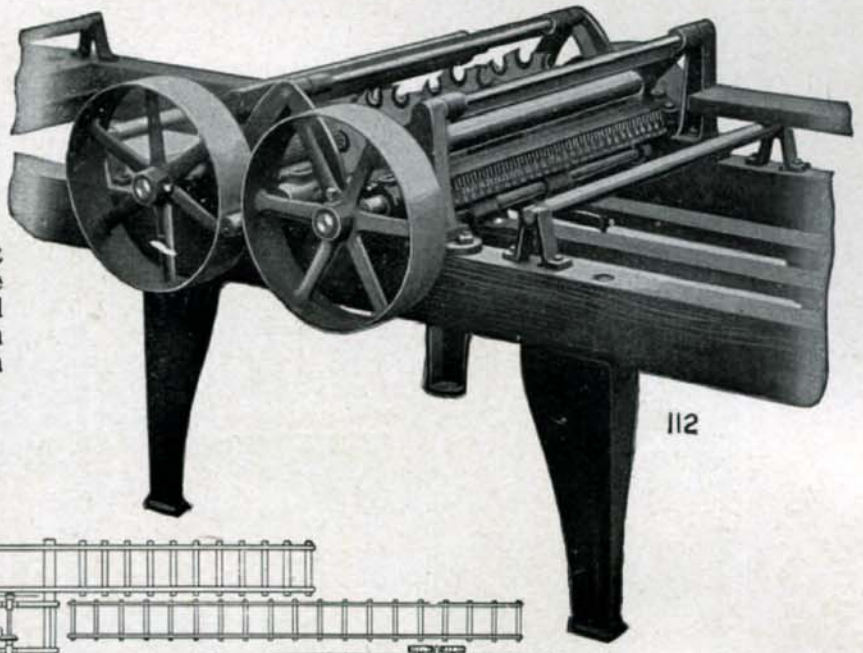
Full Length View from Feeding-out End, Showing Double Pressure Roll Machine

For small plants this edger has no equal. Indispensable for mills cutting 5,000 to 15,000 feet per day. Increased capacity and saving in waste pays for machine in a short time.

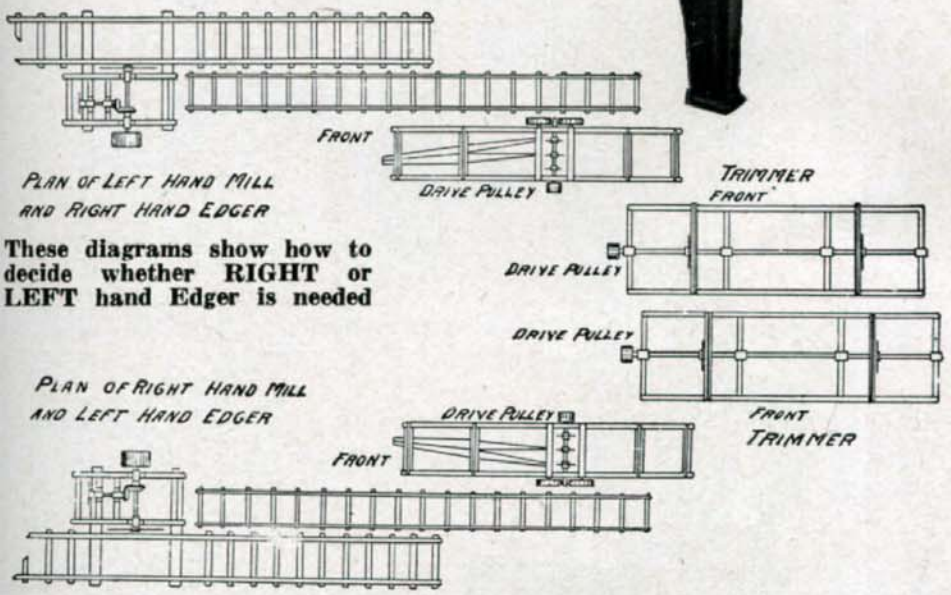
Made with two or three saws, solid or inserted teeth. Single or double pressure rolls. Self-oiling shifter forks. Quick acting ratchet guide. Indicator always in view of operator. Lever saw shift. Ratchet to hold levers in position.

All parts interchangeable for right and left hand edgers. Right hand machine has pulley and guide on right hand side. Left hand machine has pulley and guide on left hand side. Stationary saw always on guide side.

For light work, edging boards, etc., the single pressure roll edger is preferred by many operators. Provision is, however, made for attaching the front pressure roll, which may be added later, if desired.



Showing Right Hand Double Pressure Roll Machine with Inserted-Tooth Saws



These diagrams show how to decide whether RIGHT or LEFT hand Edger is needed

SPECIFICATIONS

Floor space, 18′ 6″x48″. Width inside, 33″. Guide adjustment, 4″. Mandrel, $1\frac{15}{16}$″ diameter. Mandrel pulley, 8″x8″.

Saws, 14″ diameter. Speed, 1600 to 2000 R. P. M. Feed belt required, 8′ long, 4″ wide. Greatest opening between saws: 2-saw Edger, 24″; 3-saw Edger, 20″.

Rear section is detached in shipping. Front section, including working parts and shifting lever and guide, shipped intact, legs only being removed. Entire machine crated and shipped in one package.

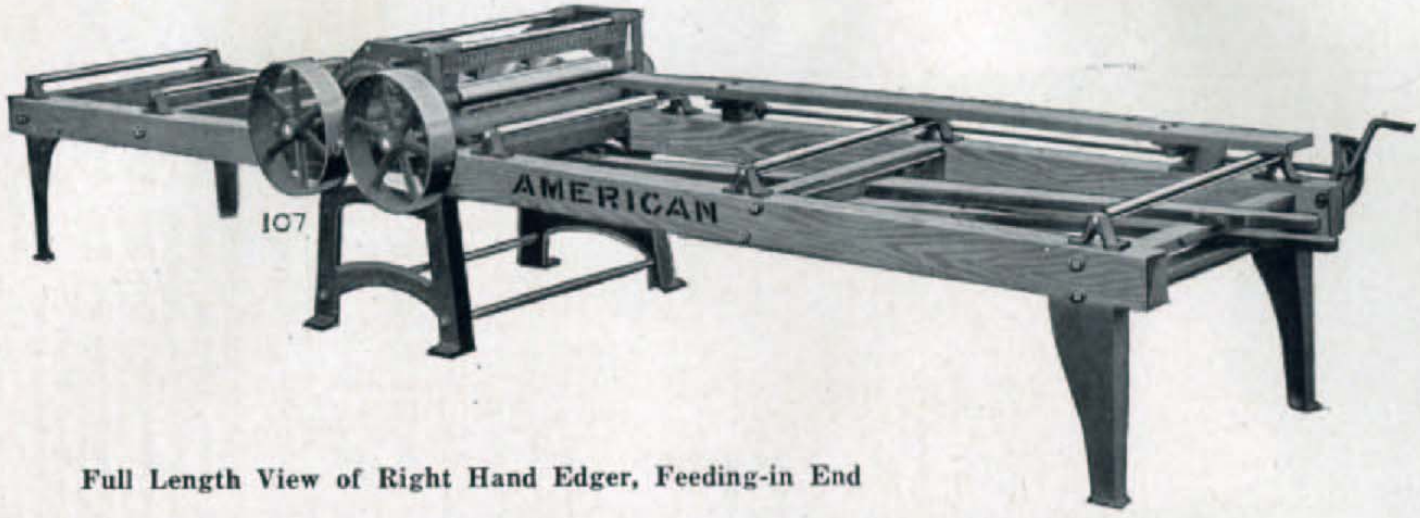
2-saw Edger, with single pressure roll, Code Word, **Wofso.**
2-saw Edger, with double pressure roll, Code Word, **Wofsu.**
3-saw Edger, with single pressure roll, Code Word, **Wofta.**
3-saw Edger, with double pressure roll, Code Word, **Wofti.**
Edger, without saws, Code Word, **Wofty.**
Edger, with solid saws, Code Word, **Wofub.**
Edger, with inserted-tooth saws, Code Word, **Wofuc.**
(Two code words necessary to describe edgers)

	Single Roll Edger	Double Roll Edger
Net weight	1,400	1,510
Gross weight packed for export	1,600	1,725
Measurement in cubic feet	45	45

"Junior" Gang Edger, 33-Inch

For Mills Cutting Up to 30,000 Feet per Day

Made right or left hand, with two or three saws, solid or inserted teeth.
Single or double pressure rolls. Quick acting ratchet guide. Indicator always in full view of the operator.



Full Length View of Right Hand Edger, Feeding-in End

Shifting levers securely held by ratchet at operating end. Easy to work.

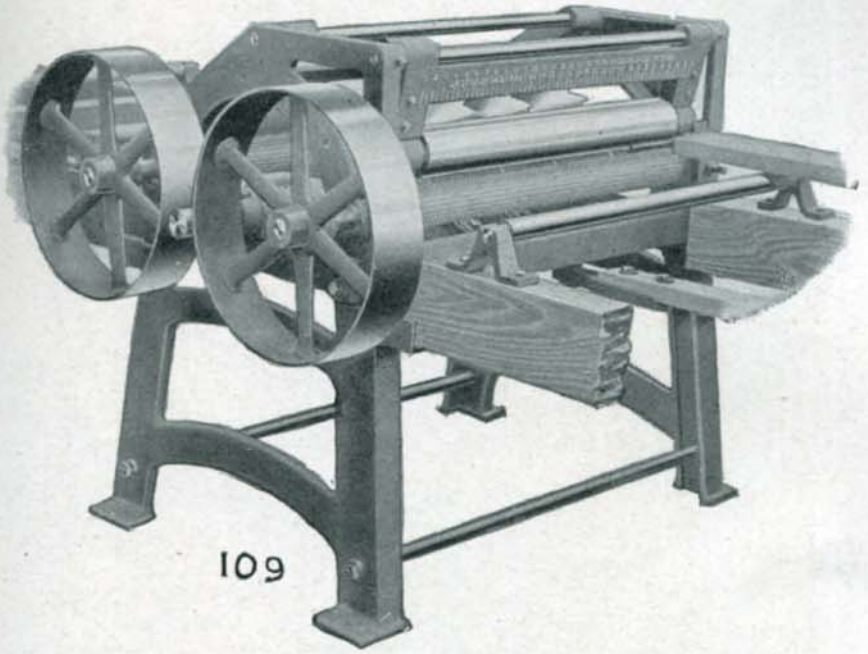
For medium size plants this edger has no superior. It is strong, accurate, reliable and a rapid worker. Will pay for itself in a short time in improved and increased product and saving in waste. Saws filed and set ready for use.

Feed Rolls grooved and fluted and strongly driven. **Pressure Rolls,** unusually heavy, insuring strong, positive feed. **Boxes** of feed rolls adjustable in all directions to regulate lead and produce straight, accurate lumber. **Mandrel easily** drawn out for changing saws. **Floor space required,** 18' 6"x48". Feed belt needed, 9' of 4" endless leather.

Steel Mandrel, 1 7/8". Mandrel pulley, 10"x8". Size of saws, 16". Speed of saws, 1,500 to 1,800 R. P. M. Width inside, 33". Greatest distance between saws: 2-saw edger, 23"; 3-saw edger, 19".

	Roll Edger Single	Roll Edger Double
Net weight	1,425	1,700
Gross weight packed for export	2,055	2,280
Measurement—cubic feet	54	54

"Junior" Gang Edger



Showing Right Hand Double Pressure Roll Machine, Feeding-in Side. Indicator Scale Directly Over the Saws

Information.—We build our Gang Edgers either right or left hand, to suit location, but **Right Hand Machines are always shipped unless otherwise specified.** "Junior" Edger can be readly changed from right to left, or vice versa, if so desired by any workman.

Right Hand machines have driving pulley and guide on **right** hand side.

Left Hand machines have driving pulley and guide on **left** hand side. Stationary saw always on guide side.

In ordering Edgers, state whether **single** or **double** pressure rolls are desired. (Single machine has pressure roll on feeding-out end.) Also whether **right** or **left** hand machine is desired, and if **solid** or **inserted-tooth** saws are wanted, and **how many.**

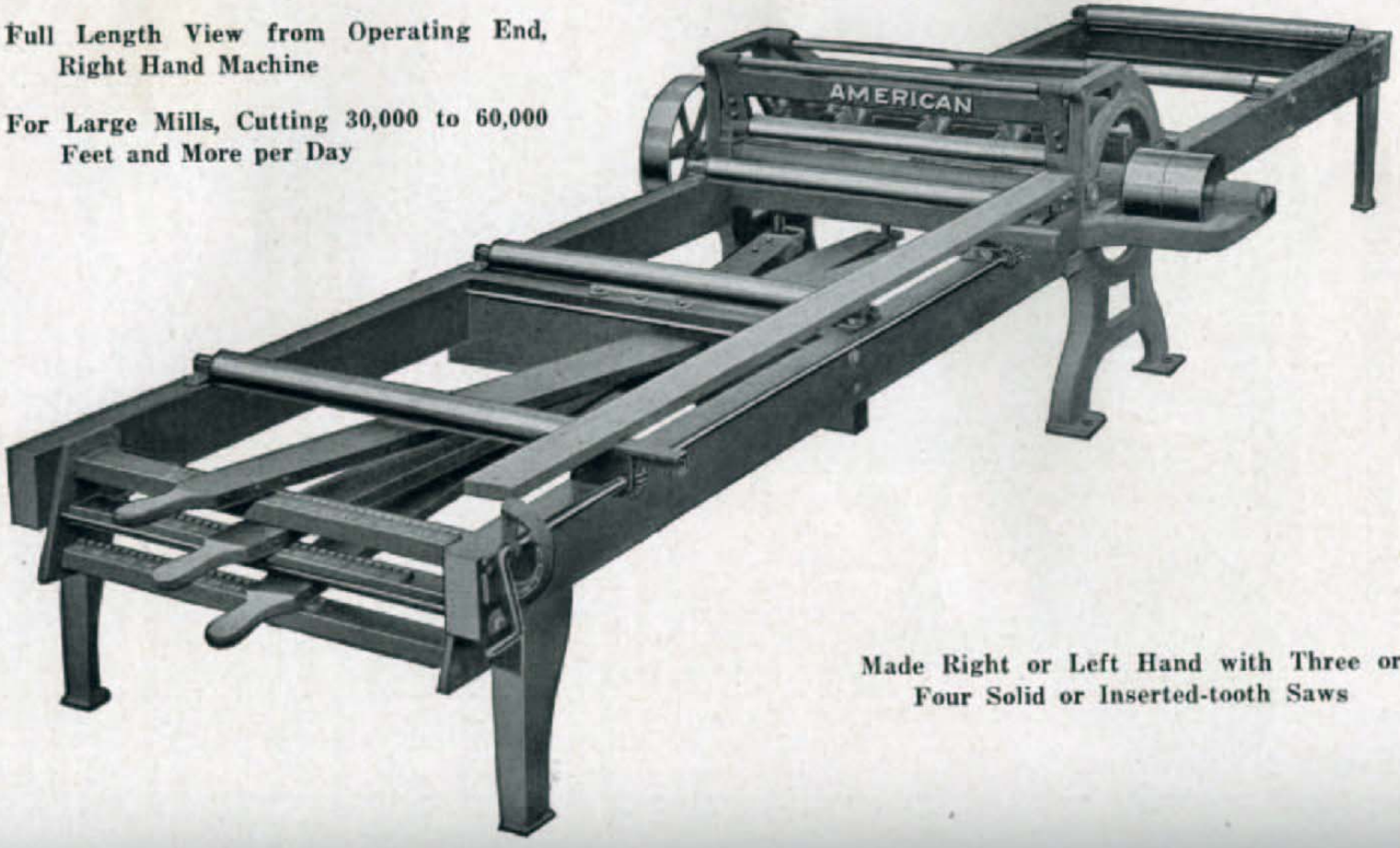
2-saw Edger, with single pressure roll, Code Word, **Wofuf.**
2-saw Edger, with double pressure roll, Code Word, **Wofug.**
3-saw Edger, with single pressure roll, Code Word, **Woful.**
3-saw Edger, with double pressure roll, Code Word, **Wofup.**
Edger, without saws, Code Word, **Wofty.**
Edger, with solid saws, Code Word, **Wofub.**
Edger, with inserted-tooth saws, Code Word, **Wofuc.**

(Two code words necessary to describe edgers.)

"Senior" Gang Edger, 46-Inch

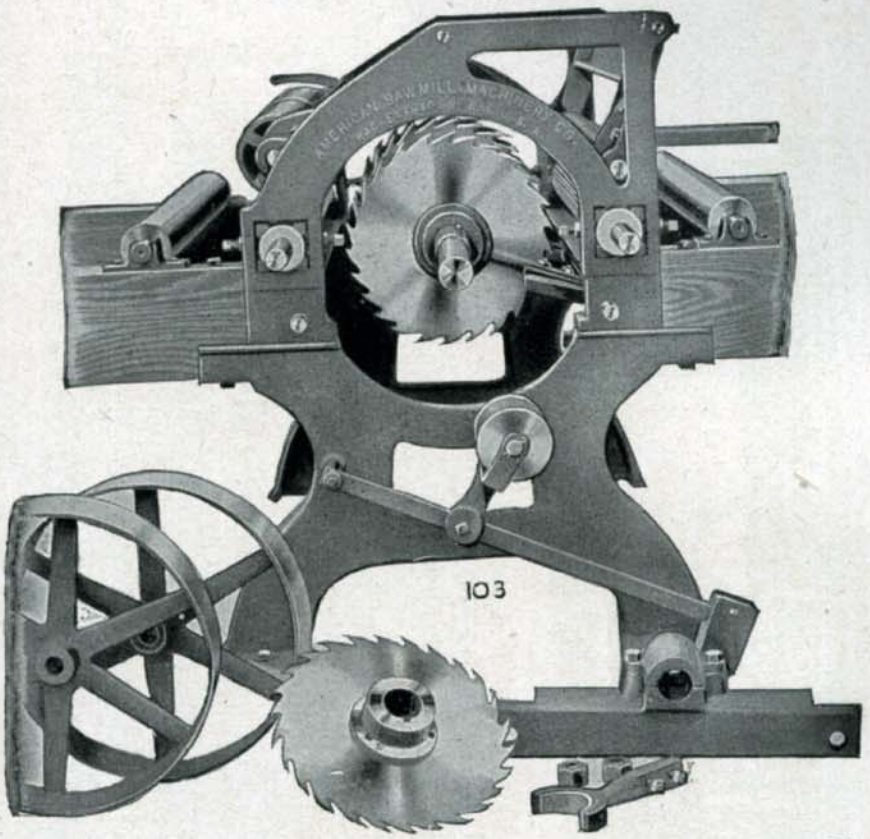
Full Length View from Operating End, Right Hand Machine

For Large Mills, Cutting 30,000 to 60,000 Feet and More per Day



Made Right or Left Hand with Three or Four Solid or Inserted-tooth Saws

"Senior" Gang Edger



View Showing Quick and Easy Method of Removing Saws Without Disturbing Mandrel. Take Off Feed Pulleys and Two Nuts—That's All

Accurate, quick-acting ratchet guide, with 4-inch adjustment.

Indicator scales right under operator's eye, everything convenient. Heavy steel mandrel with three long chain-oiling bearings.

Power feed rolls grooved and fluted, heavy, smooth pressure rolls insuring strong, positive feed.

Feed roll boxes adjustable in all directions to regulate the lead, insuring straight, accurate lumber.

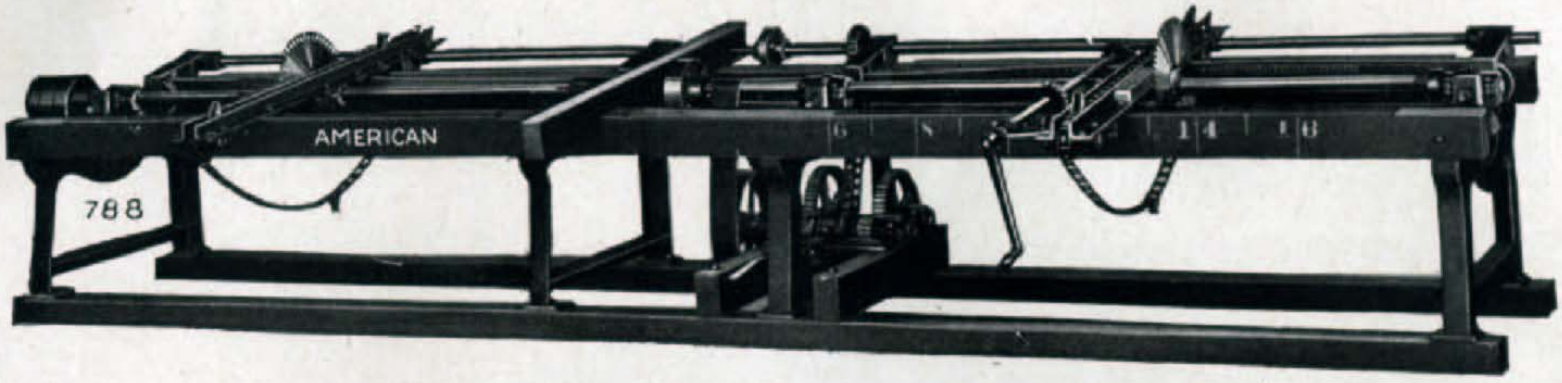
Both pressure rolls swing with the lumber as it feeds in, and are self-adjusting.

Large tubular steel idle rolls on extensions. A machine easy to handle.

SPECIFICATIONS

Mandrel, $2\frac{1}{16}$"; with pulley, 10"x10".
Saws, 16". Speed, 1500 to 1800 R. P. M.
Works stock up to 4" thick.
Width inside of end frames, 46".
Greatest opening between saws: 3-saw machine, 34"; 4-saw machine, 30".
Feed belt needed, 10' 7" of 4".
Shipping weight, 2700 lbs. Gross weight, 3350 lbs. Boxed for export 90 cubic feet.
Floor space, 22'x6'6".
3-saw Machine, Code Word, **Wofus.**
4-saw Machine, Code Word, **Wogaj.**
Without saws, Code Word, **Wofty.**
With solid saws, Code Word, **Wofub.**
With Inserted-tooth saws, Code Word, **Wofuc.**
(Two Code words necessary)

Junior Lumber Trimmer



Nos. 5, 6, 7 and 8

A one man machine for mills up to 30,000 feet per day capacity

ALL IRON AND STEEL, EXCEPT BOTTOM SKIDS

The Junior Lumber Trimmer is a handy, convenient machine built with all the exactness and dependability of our larger machines.

The mandrel is 1 1/16" diameter keywayed on opposite sides and extended beyond the frame at both ends for pulley.

Mandrel boxes are mounted on the iron legs. They are of self-oiling type with large oil reservoirs providing a constant supply of oil free from grit and require only occasional filling. By removing two bolts end boxes may be removed for taking off saws.

Transfer blocks are of steel construction 5 ft. long carried on iron tracks and guided by the saw mandrel and feed shaft. One block is shifted by means of rack and pinion and the other simultaneously in either direction by cable. The crank and setting scale are both convenient to operator. Each transfer block is provided with a felt-oiling babbitted bearing 7½ ins. long to support shaft at cutting point, thus providing six mandrel bearings in all.

A two-speed geared feed is provided with convenient lever for changing the feed and stopping or starting without stopping saws. Feed belt required 3" wide, 5' 9" long.

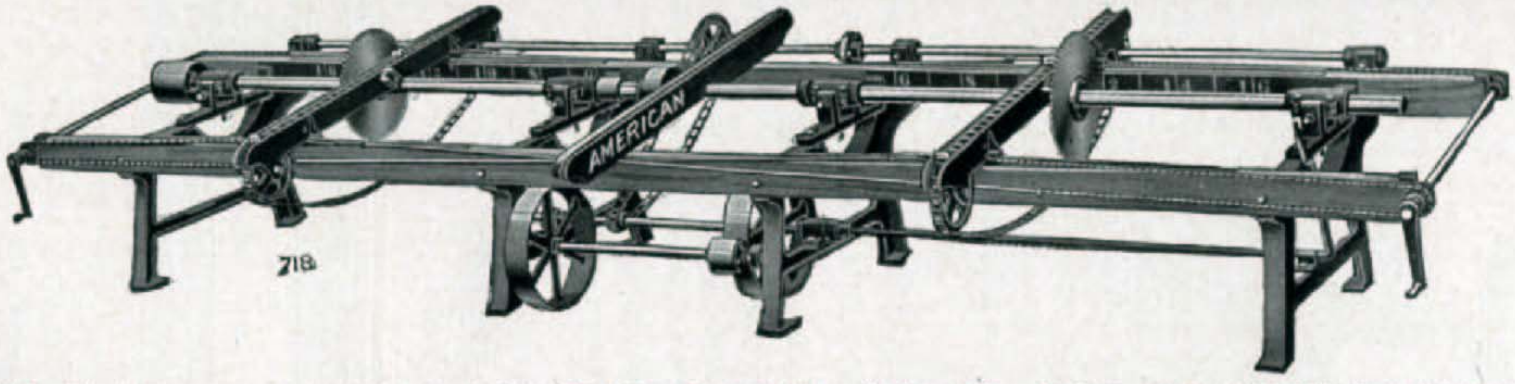
Each machine is equipped with two 18" special trimmer saws which extend 5" above Transfer Block.

The mandrel pulley is 8" by 8" and the speed should be 1,000 to 1,200 R. P. M.

Size	Trims	Floor Space	Shipping Weight	Export Weight	Cu. Ft.	Code Word
No. 5	6' to 16'	19'x5'	2,200 lbs.	2,500 lbs.	58	Wogak
No. 6	6' to 18'	21'x5'	2,300 lbs.	2,600 lbs.	59	Wogan
No. 7	6' to 20'	23'x5'	2,400 lbs.	2,700 lbs.	60	Wogar
No. 8	6' to 24'	27'x5'	2,600 lbs.	2,850 lbs.	62	Wogat

Two-Saw Lumber Trimmer

For Mills Cutting from 20,000 to 50,000 Feet per Day



With this trimmer, one man can easily handle the entire output of the mill. It has many valuable improvements not found in any other trimmer and the materials and workmanship are the highest grade. Four heavy cast iron leg frames carry the mandrel boxes and the timber on which the steel track rests.

The Mandrel is $2\frac{7}{16}$" steel, keywayed on both sides, perfectly balanced and extended on both ends to receive driving pulley.

There are four **Mandrel Boxes,** chain-oiling and adjustable vertically and laterally so that the mandrel can be kept in perfect alignment. The end boxes are easily removed for taking off saws.

Mandrel Pulley, 8" by 8", can be placed on either end or in center of the mandrel.

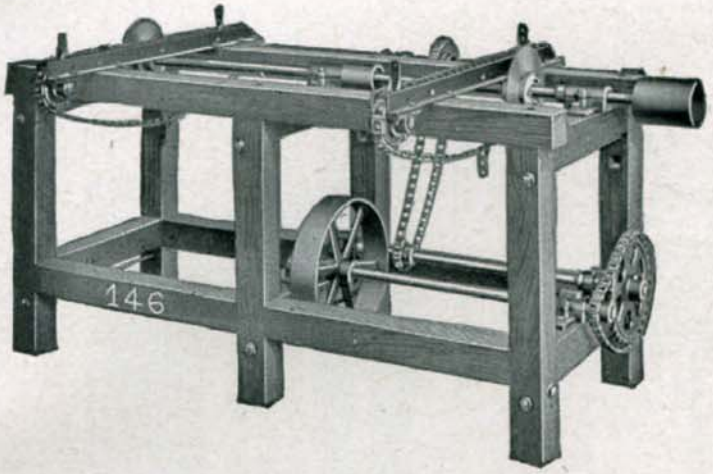
Transfer Blocks are 6' long and slide on steel V track with an easy, rapid motion 1' each to one turn of shifting crank. The sprockets are 12" and carrier chains are heavy and strong. Saw collars are fitted to the mandrel with feather keys and slide with the transfer blocks. The shifting is done by crank as shown in cut. Feed belt required 4" wide, 8' 4" long.

The Friction Feed is powerful, can be stopped or started at will, and can be arranged to operate from either end or in center.

Each machine furnished with two 20" saws and is capable of cutting 5" thick. Speed 1000 to 1200 R. P. M.

Machines are knocked down and crated for shipment. Other lengths built to order.

		Trims	Floor Space	Net Wt.	Shipping	Export	Code Word
No. 1	6 to 16'	21' x 6'	2400	2650	2800	61	Wogav
No. 2	6 to 18'	23' x 6'	2500	2750	2950	64	Wogax
No. 3	8 to 20'	25' x 6'	2600	2850	3100	67	Wogaz
No. 4	8 to 24'	29' x 6'	2850	3110	3400	73	Wogby



"Baby" Lumber Trimmer

Code Word, Wogca

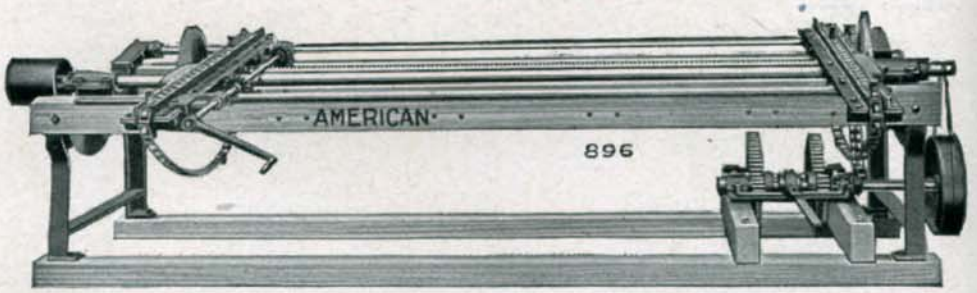
This illustrates a small, light but amply strong Trimmer for trimming or equalizing the ends of staves for tobacco hogsheads, also boards and other light material up to 6' long. The transfer blocks and saws are adjustable to any desired position, allowing a minimum space of 18" between the saws and a maximum space of 6' between the saws. We can make these machines of various lengths up to 10' and furnish additional transfer blocks and saws as may be required.

SPECIFICATIONS OF STANDARD 6' MACHINE

Floor space, 8' 4"x3' 8"; mandrel pulley, 5"x6"; speed 2,000 R. P. M.; length of mandrel, 8' 2"; diameter, $1\frac{7}{16}$"; rate of feed, 80' per minute. Two saws furnished, 12" diameter with $1\frac{7}{16}$" hole. Saws have three ½" pin holes on 3" circle. 12" saws extend 2¼" above transfer blocks. Belt required, 6' 2" of 4" wide. (Not furnished unless ordered extra.) Shipping weight, 760 lbs. Weight, boxed for export, 850 lbs.; cubic measurement, 13 cu. ft.

No. 896 SHORT TRIMMER

Code Word, Wogci

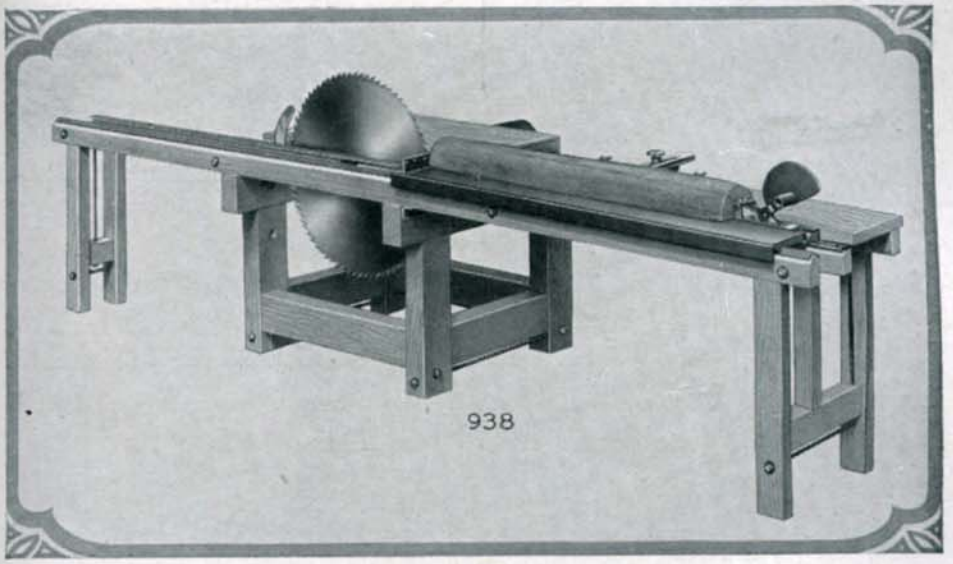


The general construction of this machine is like that of our "Junior" trimmer, except that one saw is movable and the other stationary. The machine is made to trim from 2 ft. to 10 ft., or any length not exceeding 10 ft. Extreme length 13 ft.

Weight, 1400 lbs. Export weight, 1650 lbs. Cubic contents, 40 cu. ft.

Hand Table Bolter

Code Word, Wogde



A handy, easily operated hand bolter for small logs, cants or slabs with an effective dogging device.

The carriage or table is made entirely of iron and steel. It travels on a V track and V guides and is, therefore, accurate in its movement.

The dogging device is unique and effective. The dog block slides in a slot in the table. A pawl engages the rack and when the operating handle is pressed downward the dog is forced into the end of the log. When the handle is raised the pawl is disengaged and the dog block may be pulled back. The dog block slides freely in the slot and may be instantly adjusted for any length of log from 12″ to 50″.

The operating handle is provided with a large shield effectively guarding the operator's hand at the end of the stroke.

At the forward end of the carriage a stop is provided against which the end of the log is pressed in dogging.

The gauge can be quickly adjusted to saw material of any width between saw and gauge up to 9″. This gauge is provided with a hinged fence which may be thrown back in taking off a slab.

Logs up to 10″ diameter may be split through the middle with a 30″ saw.

The mandrel is fitted with a pulley 6″ diameter and 6″ face. Larger diameter pulley may be used.

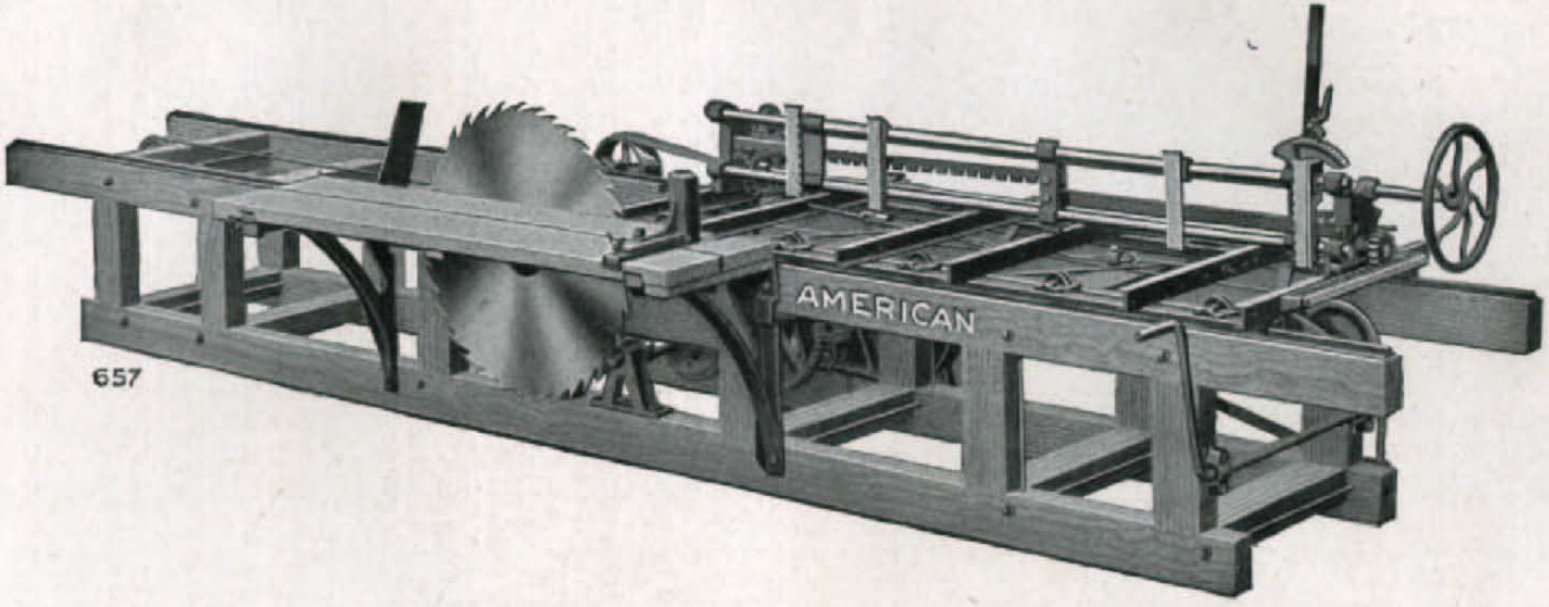
Saws up to 30″ diameter may be used and one 30″ saw is furnished with each machine.

A Splitter is placed behind the saw to prevent finished material from riding the saw.

The capacity necessarily depends upon the character of the work and the skill of the operator, but on account of the light carriage, the operator can move quickly and without tiring.

There are many uses to which a machine of this type is adapted; bolting lath material; flattening mine ties; sawing squares for handle or chair stock, or for reducing slabs or small logs to any of the various salable by-products. It will pay for itself quickly on any mill job.

"Empire" Bolting Machine or Short Log Saw



As you no doubt know, we use this machine exclusively in the manufacture of red cedar lumber. We have tried several kinds of mills and after careful test concluded that the (Empire) bolter is more suitable than any other mill, giving us a larger average production and more accurately sawed lumber.

Our average production in ten hours, taking all mills into consideration, is about 3500 feet of 4-4 lumber to the mill. One mill, located at Huntsville, Ala., on January 25, 1921, sawed 8074 feet of 4-4 lumber. On January 27 it sawed 5725 feet of 4-4 and 4237 feet of squares, 3x4 and 4x4.

GEORGE C. BROWN & CO., Memphis, Tenn.

Handy

Rapid

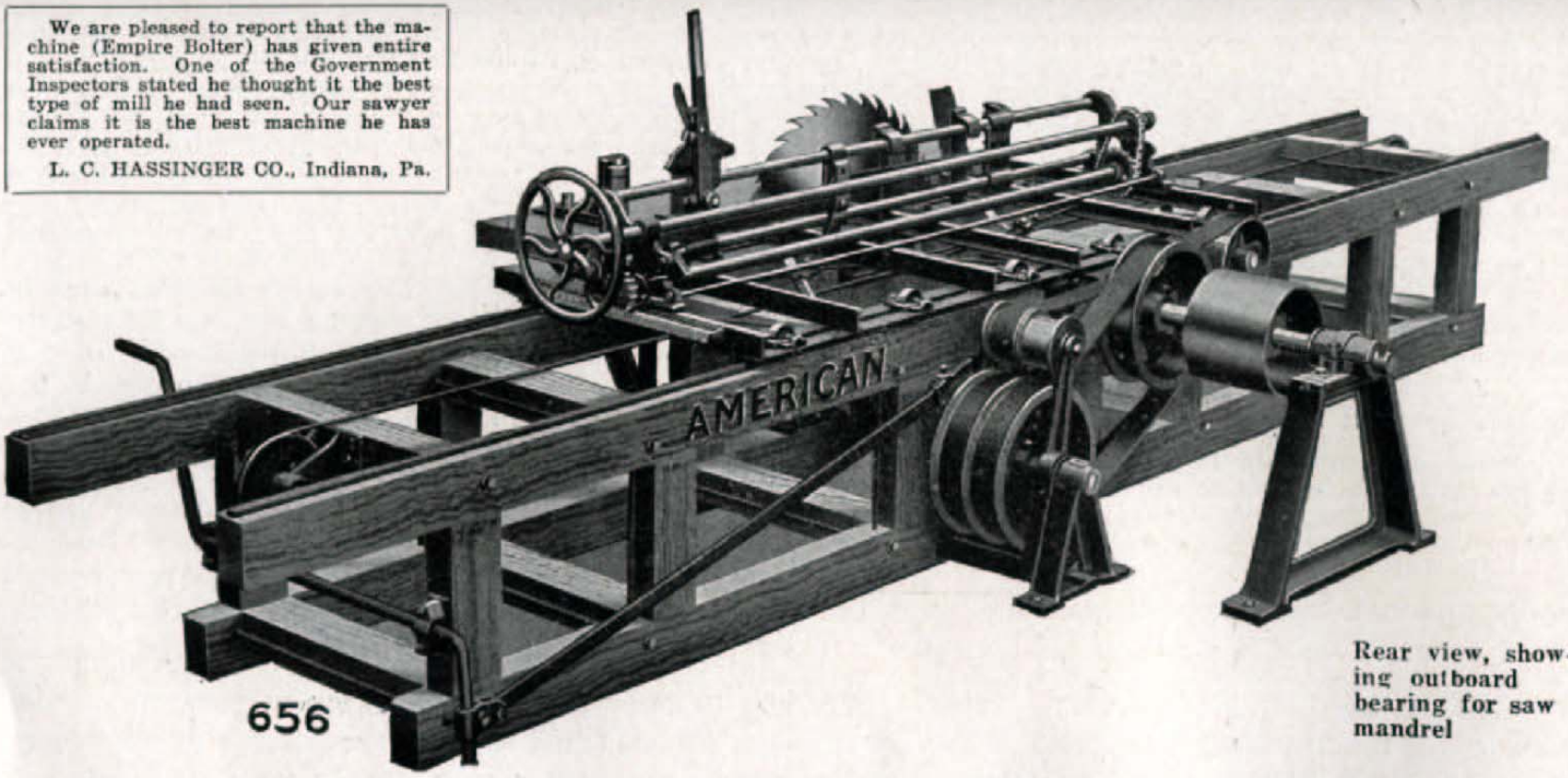
Compact

Self-Contained

"Empire" Bolting Machine

We are pleased to report that the machine (Empire Bolter) has given entire satisfaction. One of the Government Inspectors stated he thought it the best type of mill he had seen. Our sawyer claims it is the best machine he has ever operated.

L. C. HASSINGER CO., Indiana, Pa.



Rear view, showing outboard bearing for saw mandrel

We are pleased to advise that your plant, consisting of Bolter, Trimmer and Edger with saws, has been satisfactory. The Bolter is easily the best we have seen.

W. H. LIGON'S SONS, Pamplin, Va.

"Empire" Bolting Machine

A "Rapid Fire" Cutter

This machine is intended for all kinds of Bolting or Short Log Sawing, working up slabs, veneer cores, sawing out stock for Spokes, Staves, Lath, Handles, Bobbins, Chairs, etc.; making Box Boards, Pickets, Crate Slats or any dimension stock which can be manufactured from small logs, slabs, etc. It is also being successfully used in the manufacture of Railroad Ties and lumber. Recommended for logs up to about 18″ diameter.

THE FRAME is constructed of selected timbers, accurately framed and strongly bolted together.

THE CARRIAGE is made four, six, eight or ten feet long, as ordered and is very substantial, being constructed throughout of steel. It runs on grooved and flat wheels with steel axles, the grooved wheels being accurately fitted to the guide track, which is of rolled steel.

HEAD BLOCKS have steel bases and open 24″ from the saw. The number of head blocks depends on the length of carriage.

THE SET WORKS are Rack and Pinion type, fitted with ratchet wheel and pawls, and operated by hand wheel at end of carriage. An accurate setting scale is fitted to the forward Head Block.

DOGS are of the end-grip type, mounted on two parallel shafts carried by the head blocks. The front dog is operated by the sawyer and can be instantly adjusted for varying lengths of logs. It is forced into the log by means of a hand lever—no clamping is necessary. The position of the rear dog can be quickly changed, being held by a notched bar.

THE GAUGE ROLLER is provided with a graduated base and can be quickly adjusted and clamped in position for sawing any thickness of material. This provides for rapid setting and accurate sawing. The roller may be swung aside for taking off the first slab.

THE FEED is an adaptation of our well-known "HEACOCK" VARIABLE BELT FEED, the belts being driven continuously in opposite directions and at different speeds, direct from the saw mandrel. It is very sensitive, responding instantly to slight pressure on the sawyer's lever. The forward movement of the carriage can be varied to suit the power, and the gig-back is positive and rapid. The operator has control of the feed, set works and dogs without changing his position.

NINETY-FIVE AMERICAN EMPIRE BOLTERS
Made Good in France

Glen H. Holloway, First Lieutenant 28th Company, Twentieth Engineers (Forestry) writes in the Southern Lumberman of Dec. 21, 1918, as follows:

"The American Saw Mill Machinery Company furnished the bolter or tie mill, which is answering its purpose admirably. We only have to face these ties on two sides, so if you get the right sized poles and don't stop to cut any side plank it is possible to cut 30,000 feet in ten hours, once in a while, but the average is nearer 15,000 feet for a ten-hour shift."