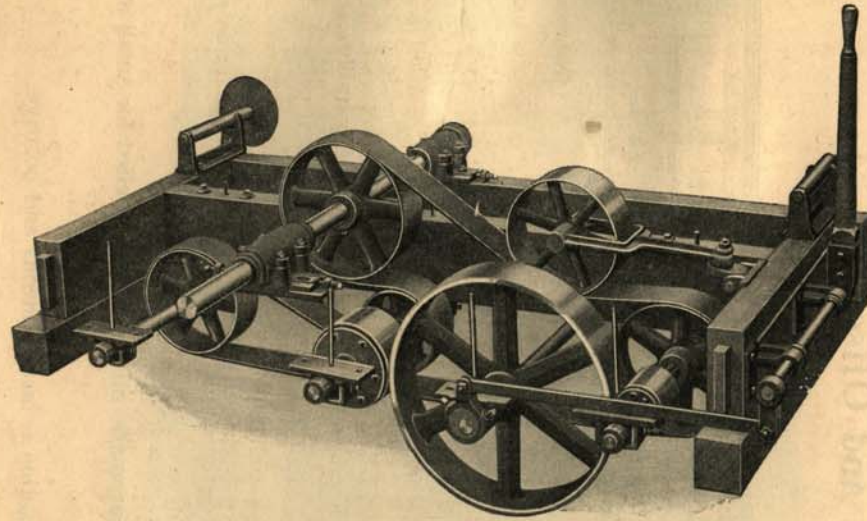


American "Hercules" Saw Mill Feed



This cut shows very clearly the details of our "Hercules" Saw Mill Feed. It is very powerful and the only reliable and satisfactory friction feed for large, heavy mills. It is used on all our "Hercules" Feed Mills.

The feed and gig-back frictions are continuously driven in opposite directions by an endless belt direct from the mandrel, the slack of the belt being automatically taken up by an idler. A single lever operates the feed and gig-back by shifting the bull wheel from one friction to the other, the wire cable drum being driven by a pinion on opposite end of bull wheel shaft.

A Complete Feed consists of the frictions and pulleys with shafts and boxes, bull wheel with shaft and boxes, feed lever with connections, and the idler. Belt, mandrel and boxes, board-roll, spreader-wheel and wood parts are not included, but can be furnished at extra cost, if desired.

The American "Hercules" Feed can be fitted to any make of mill. It is made in four sizes, as follows:

Width of Face of Feed Pulleys..	5"	6"	8"	10"
Weight complete in lbs.....	750	1200	1600	2000
Code Names.....	Belfry	Belton	Belix	Beloy

NOTE.—When ordering one of these feeds, always give exact size of saw mandrel.

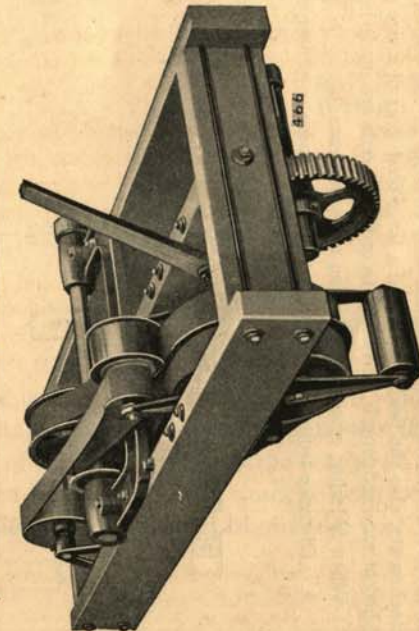
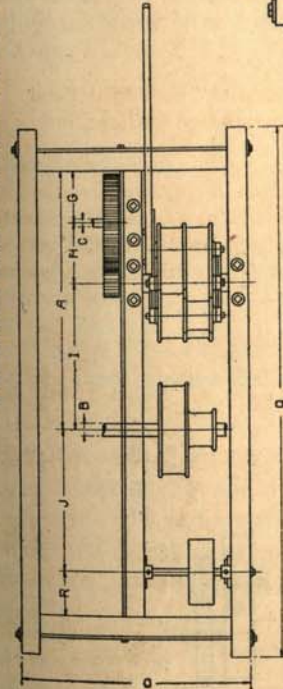
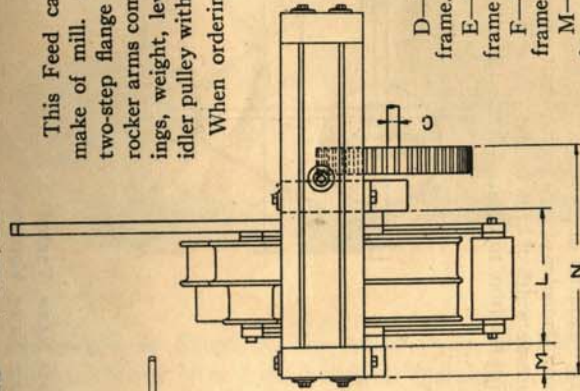
American "Heacock" Variable Belt Feed

This Feed can be attached to almost any make of mill. A complete feed consists of a two-step flange pulley for mandrel; 1 pair of rocker arms complete with shafts, pulleys, bearings, weight, lever and pinion; 1 large gear, 1 idler pulley with shaft, collars and brackets.

When ordering give the following measurements:

- A—Distance from inside front end of husk frame to center of mandrel.
- B—Diameter of mandrel.
- C—Diameter of rack pinion shaft.
- D—The outside width of husk frame.
- E—The distance from top of husk frame to center of rack shaft.
- F—The width of sides of husk frame.
- M—The thickness of sides of husk frame.

Is your carriage driven by rack and pinion?
Is your carriage driven by wire cable?
State make of your saw mill.



Feeds are made in two sizes, as follows:

4" Belt No. 1.....	Domestic Shipping Weight	440 lbs.	Export Weight	600 lbs.	Cubic Feet	10
--------------------	--------------------------	----------	---------------	----------	------------	----

6" Belt No. 3.....	Domestic Shipping Weight	850 lbs.	Export Weight	1100 lbs.	Cubic Feet	16 1/2
--------------------	--------------------------	----------	---------------	-----------	------------	--------

Code Name
Herman

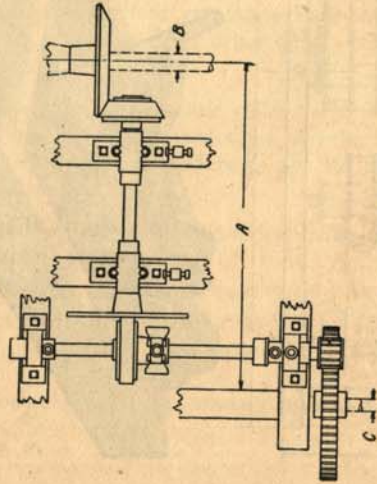
Code Name
Heritage

American Variable Friction Feed

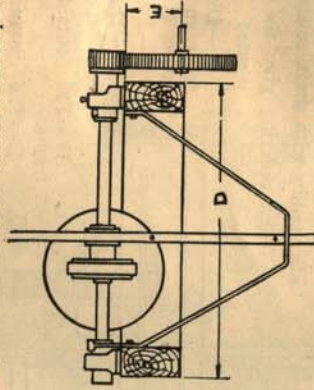
The American Variable Friction Feed can be attached to almost any make of portable mill. There are no complicated parts to wear out or to give trouble. A complete feed consists of the two sets of frictions, with the necessary shafts, boxes, collars, sawyer's lever and attachments, also the feed pinion and a large feed gear of a size suitable for the mill to which the feed is to be attached. Shafts are furnished of required length, according to order. Feeds are made in four standard sizes, suitable for mills using 6 to 40 H. P.

When ordering, give the following measurements:

- A. Distance from inside front end of husk frame to center of mandrel.
- B. Exact diameter of mandrel.
- C. Exact diameter of rack pinion shaft.
- D. Outside width of husk frame.
- E. Distance from top of husk frame to center of rack pinion shaft.



Top View

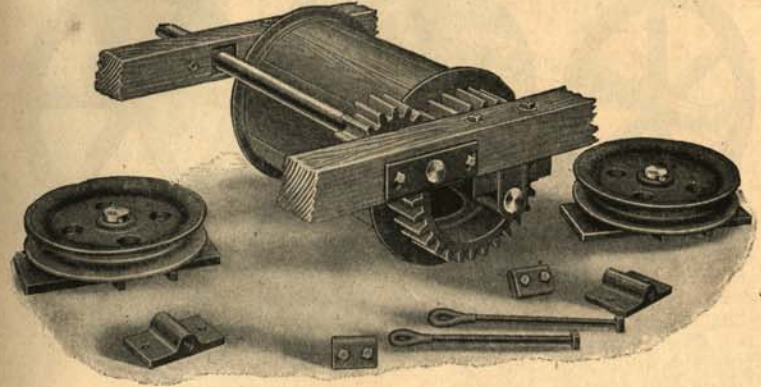


End View

Size	Code Name, Varied	Shipping Weight
No. 1, same as used on No. 1 Mill*	300 lbs.
No. 2, same as used on No. 2 Mill	425 lbs.
No. 3, same as used on No. 3 Mill	460 lbs.
* No. 1 feed has flat face friction instead of bevel.		

Wire Cable Drive

Style "B" with EXTERNAL Gear. Plain Drum and Horizontal Sheaves



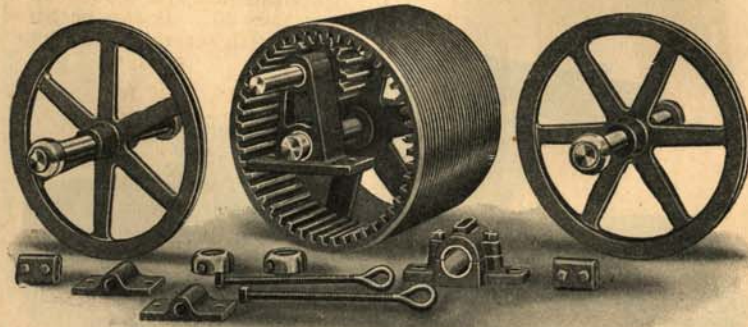
This style is fitted to the track way timbers and is regularly furnished with our Nos. 1, 2, 3 and 4 Variable Friction and "Hercules" Feed Mills.

	Style B Wiring	
Code Name (state size)		
Size	11 inch	14 inch
Dimensions of Drum	11" x 14"	14" x 20"
Suitable for Mills Nos.	1 and 2	3 and 4
Diameter of Gear	10"	12"
Diameter of Pinion	4"	6"
Diameter of Sheaves	10"	12"
Weight complete without Cable	175	300
Size of Wire Cable recommended	3/8"	1/2"

Sheaves should be placed not less than 20 feet apart. The travel of the carriage equals the distance between sheaves plus the length of the carriage. To find length of rope required—to the length of carriage add twice the distance between sheaves and five times the circumference of the drum (15 times the diameter), also add about five feet for connections.

Wire Cable Drive

Style "A" with INTERNAL Gear. Grooved Drum, Vertical Sheaves



Furnished regularly with our Nos. 6, 6½, 7½ and 8 Mills. The sheaves are intended to revolve on the axles and have some lateral play, hence boxes are not required.

We recommend **Wire Cable Drives** for all saw mills. They impart a powerful but quiet and easy motion to the carriage and can be stopped and reversed quickly. A shorter carriage can also be used than with rack and pinion drive, and timber much longer than the carriage can be cut. By having long track, the carriage can be run out any desired distance to receive logs and deliver lumber.

Code Name (state size)	Style A			
	Wirer			
Size	12 inch	18 inch	24 inch	30 inch
Dimensions of Drum	12" x 11"	18" x 14"	24" x 16"	30" x 16"
Suitable for Mills Nos.	1 and 2	3 to 6½	7½	8
Diameter of Gear	11"	16"	21"	27"
Diameter of Pinion	4"	5"	7"	7"
Diameter of Sheaves	12"	18"	24"	30"
Weight complete without Cable.	150	350	500	1600
Size of Wire Cable recommended	¾"	½"	⅝"	¾"

NOTE—Sheaves should not be less than 20 feet apart. The cable passes three or four times around the drum, then around the sheaves to opposite ends of the carriage, thus giving it a travel of more than double its length and permitting the use of any length of carriage and track within the winding capacity of the drum.

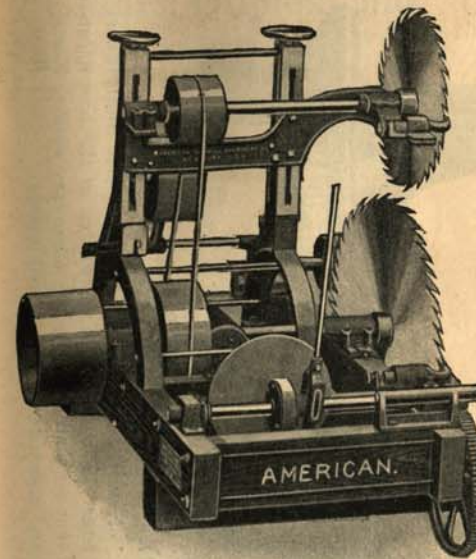
Top Saw Rig

Code name of Top Rig only, Topaz

With this Rig a 60' Lower Saw and 40' Top Saw can be used. Minimum space between arbors 37". It can be fitted with reverse drive when desired.

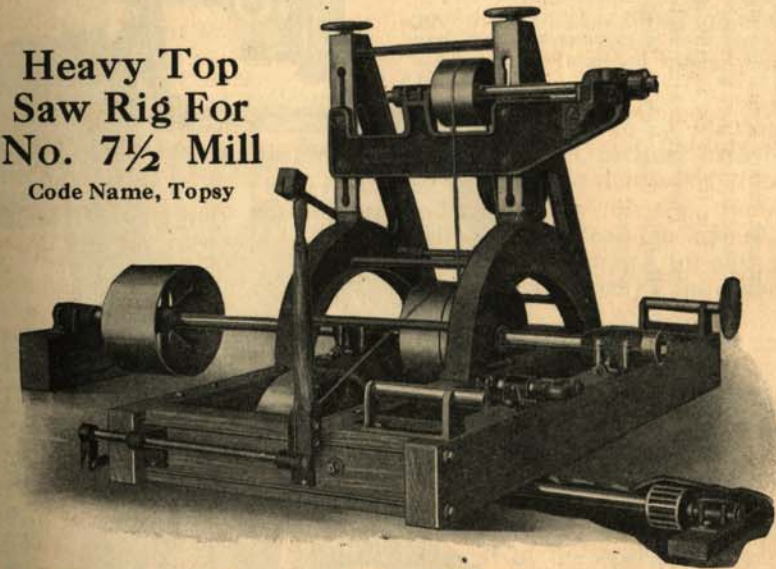
The Top Saw Rig shown is the style used on our Nos. 3, 4, 6 and 6½ Mills to convert them into Double Mills.

The Top Saw Mandrel (1½") is driven from a pulley on bottom mandrel. It has chain-oiling bearings and 5" collar, which is fitted for saw with 2" hole and two ⅝" pin holes on 3" circle. The cross rail carries our No. 1 Universal Saw Guide and is raised and lowered by hand wheels and screws and provided with clamping bolts. A belt tightener with adjustable weight is provided. Weight 1075 to 1200 lbs.



Heavy Top Saw Rig For No. 7½ Mill

Code Name, Topsy

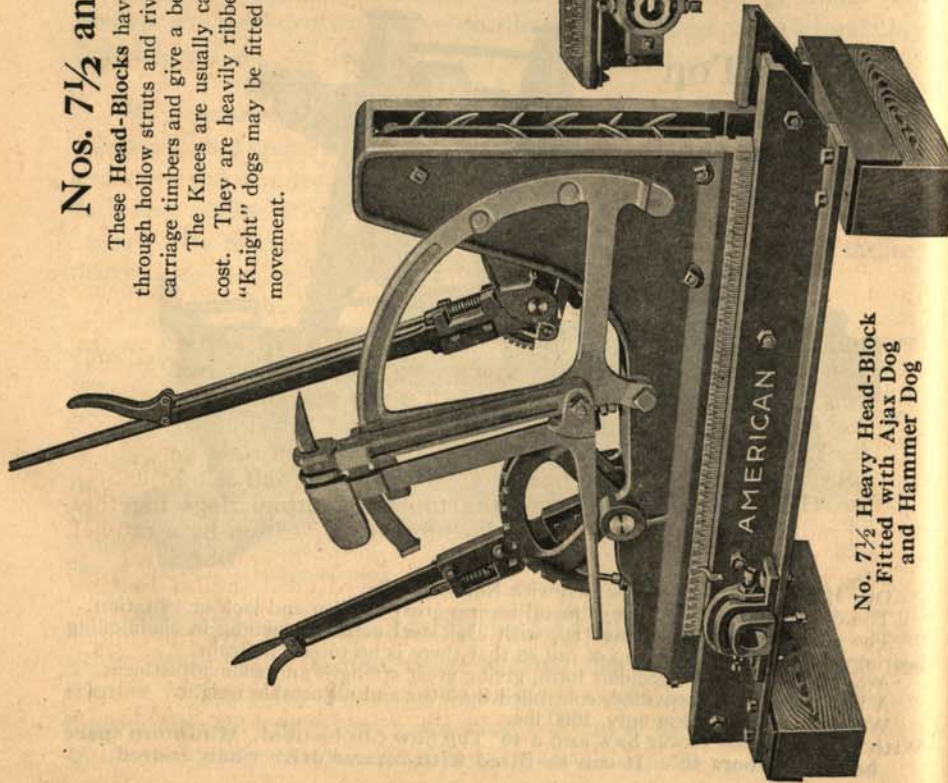


Our Heavy Top Saw Rig is used with No. 7½ Mill. The design and distribution of metal insures great rigidity and lack of vibration. The cross rail is very substantial, with 2½" steel mandrel running in chain-oiling bearings, placed directly on top of rail so that there is no torsional strain. Arm and guide are of peculiar form, giving great strength and wide adjustment. A belt tightener is provided, controlled by lever and adjustable weight. Weight of Top Saw Rig only, 1600 lbs. With this Rig a 66' Lower Saw and a 40' Top Saw can be used. Minimum space between arbors 40". It can be fitted with reverse drive when desired.

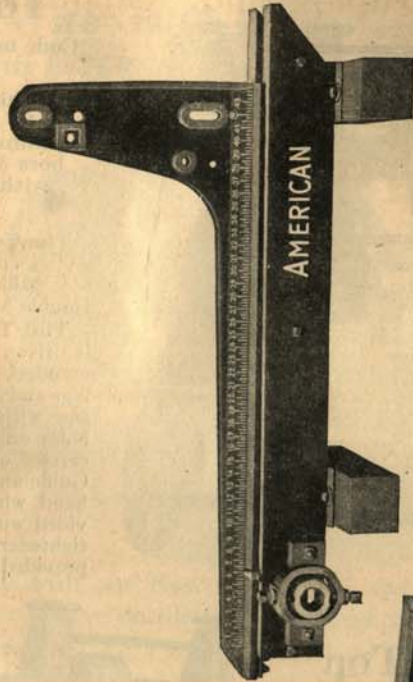
Nos. 7½ and 8 American Head-Blocks

These **Head-Blocks** have the bases made of heavy 6" Steel Z Bars, bolted together through hollow struts and riveted at each end to 6" x 3" steel angles, which overlap the carriage timbers and give a bearing 20" long thereon.

The **Knees** are usually cast iron, but may be made of steel when so desired, at extra cost. They are heavily ribbed and cast hollow to receive our "Ajax" double tooth dog. "Knight" dogs may be fitted also when desired. No. 7½ has 5" and No. 8 has 6" taper movement.

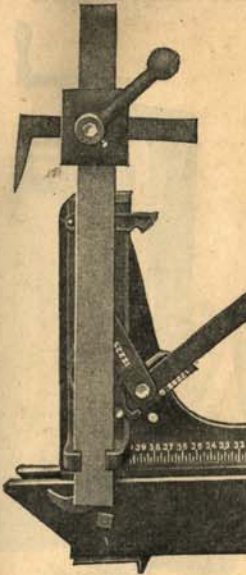


No. 7½ Heavy Head-Block
Fitted with Ajax Dog
and Hammer Dog



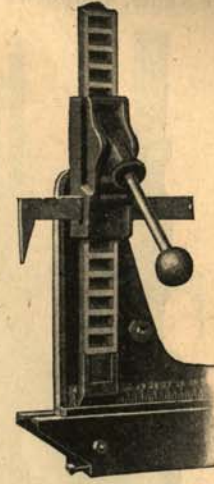
Showing the **Steel Base Head-Blocks** used on all our Nos. 1, 2, 3 and 4 Mills.

Note the adjustable, self-aligning **Set Shaft Bearings**. They keep lost motion out of the **Knees**, prevent set shaft from binding, make easy working **Knees**, and insure **accurately** sawed lumber.



Giant Dog

No. 1, weight 70 lbs. Code Name, **Dogit**
No. 2, weight 90 lbs. Code Name, **Dogged**



Champion Dog

Weight 40 lbs. Code Name, **Doggy**

The "**Champion**" is an all-around good dog, very strong and rapid in action, and, by many sawyers, is preferred to any other. It is furnished regularly on our No. 1 Mill.

In our new "**Giant**" Saw Mill Dog we believe we are offering the saw mill man one of the **Strongest, Simplest, Quickest and Most Effective Dogs** that has yet been produced—one that will fully meet every demand made upon it.

The Main Frame is one piece, bolted to the head-block knee.

The Slide Bar is secured to the main frame, has an up and down movement and carries the top dog socket, and is moved by the operating lever.

The Top Dog Socket is adjustable to any desired position on the slide bar and carries the dog bit, which is adjustable in or out.

The socket and bit are readily secured in any position in one motion by a heavy screw with ball lever handle.

The Lower Dog moves independently of the main slide bar, but is controlled by same operating lever. It is automatic and self-adjusting.

The Operating Lever moves the top and bottom dogs together by one motion. When set they are held firmly in position by a ratchet which acts automatically by the movement of the operating lever.

In Operating the top dog socket is lowered until the bit touches the log and is fastened to the slide bar by the screw lever. Then by pressing down the operating lever the top dog is forced into the timber and the lower dog rises automatically by same motion.

Can be used on any make of mill and is easily attached by simply bolting the main frame to the side of the head-block knee. Made in two sizes suitable for any size mill.

"Giant" Duplex and "Champion" Mill Dogs

"Simplicity" Dog

Code Name, Simplicity



Simplicity Dog—This is something entirely new and novel and fully meets the demand for a quick acting, light drop dog that will "Bite Hard" and "Hold Fast."

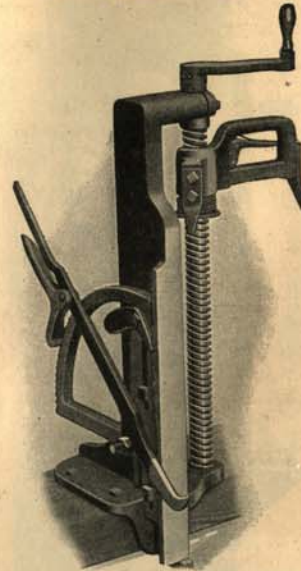
The dog consists of an upright steel bar to be attached to the head-block knee, a frame is fitted to this bar to slide freely on it, and a dog socket with a short movement up and down on this frame. A short movement of the clamp handle clamps the frame and socket at any position on the upright bar. If the weight of the dog dropping on the log does not give sufficient hold, the dog socket is used as a hammer to drive bit into the log. On releasing the dog it is used as a hammer to drive the dog out of the log. The dog bit is held by means of a spring and notches in such manner that when in the log it cannot pull out. This dog is easy to attach to other makes of saw mills. Weight, 40 lbs.

Screw Dog—The principle of the American "Screw" Dog is clearly indicated by the illustration herewith. It is especially recommended for mills cutting tropical or other extremely hard woods. It is furnished with a lower dog bit which can be raised or lowered and swings out to support and hold lower side of the log. The top dog is arranged with a spring to hold the long bit away from the saw when not in use.

Weight with lower dog, 130 lbs. Weight without lower dog, 115 lbs.

"Screw" Dog

Code Name, Doggerel

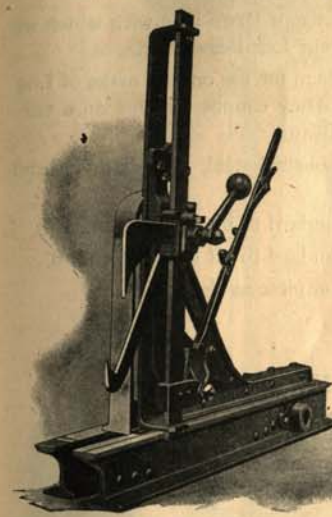


For Log Beam Saw Mills

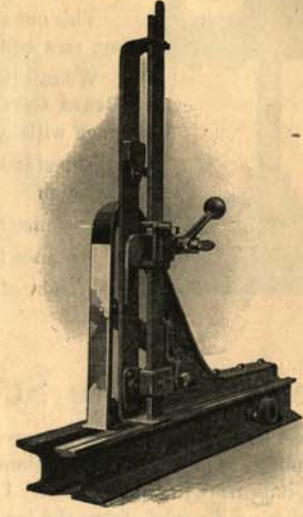
The "Knight" New Ideal Saw Mill Dog

Code Name, Dognite

(Give style and size)



Duplex



Single

When desired, we can fit our carriages with the "Knight" Ideal Saw Mill Dogs, either **Single or Duplex**, as shown in the cuts. These are very strong and easy to adjust. The "Duplex" are especially adapted to quarter sawing.

They are made right and left hand. For a right hand mill a right hand dog is used on the front head-block, and a left hand on the rear block. On a left hand mill, a left hand dog is used on the front head-block, and a right hand on the rear.

No. 1 for Pony Mills; No. 2 for Medium Mills; No. 3 for Heavy Mills; No. 3 Special for Steam Feed Mills; No. 4 Extra Heavy, for Steam Feed Mills.

The American "Ajax" Double Tooth Mill Dog

Code Name, Dogmatic

The American "Ajax" Double Tooth Mill Dog is the most desirable dog for heavy mills. It has bits on both sides of the frame. On one side they work down as shown, on the other they move up, hence they will firmly grip a log of any size and hold it securely and will not turn it or push it away from the knees.

The Main Frame is cast steel, the bits are drop forged tool steel and sharpened to a point. All other parts are steel, the pins are large and all wearing surfaces are ample. The action of the levers is direct and very powerful. The bolt holes are in the same positions as on other dogs of this type and they can be fitted to almost any heavy head-block.

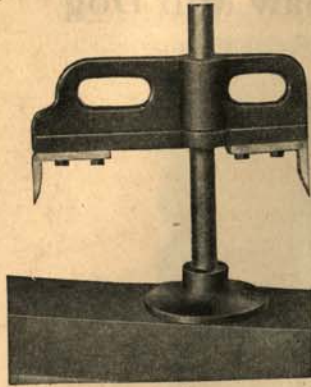
They are made right and left hand and regularly furnished with our Nos. 6½, 7½ and 8 Carriages.

Weight complete as shown, 90 lbs.



American "Drop Dog"

Code Name, Dogma



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 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

All graduations are in plain view of sawyer. The first column consists of a standard scale in 1/4" graduations. There are eight additional columns, indicating the number of 1", 1 1/4", 1 1/2", 1 3/4", 2", 2 1/2", 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, 8 1/2".

Shipping weight, 65 lbs.; export weight, 90 lbs. Cubic contents, 2 1/2 c. f.



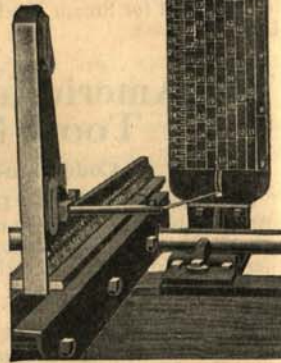
Parallel Bar or False Knee

Code Name, Parable

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

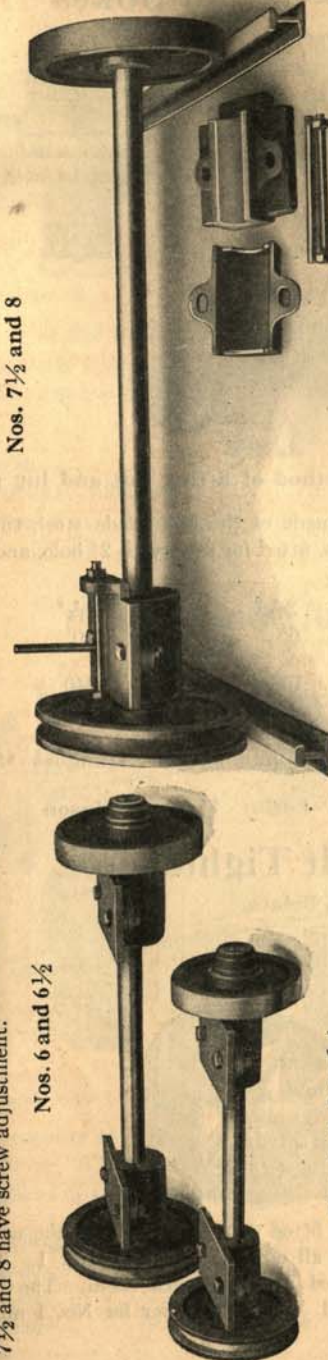


Made in two sizes, the smaller for use on our Nos. 1, 2, and 3 Mills; the larger for use on Nos. 4 and 6 Mills.



Carriage Trucks

Our Carriage Trucks are made in eight regular sizes with polished steel axles. Boxes have large oil and waste pockets. The Nos. 7 1/2 and 8



Number or size.....	1	2	3	4	6	7 1/2	8
Size of Axles, inches.....	1 1/8	1 1/4	1 7/16	1 1/2	1 1/2	1 1/2	2 1/4
Size of Wheels, inches.....	6	7	8	10	10	12	14
Weight with Boxes, lbs.....	30	43	75	110	120	167	270

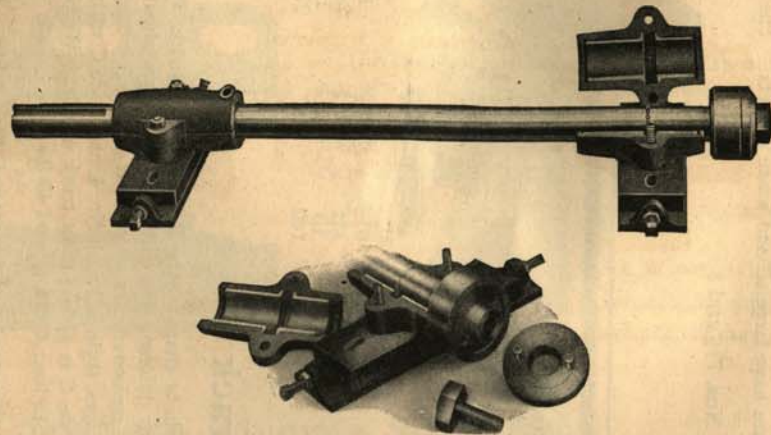
Rolled Steel Carriage Track

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, 6 1/2, 7 1/2 and 8. Style C is planned to fit truck wheels. Weight per yard, lbs.: A, 8 lbs.; B-2, 12 lbs.; C, 16, 20 and 40 lbs.



Code Names: A, Traction; B-2, Tractor; C, Tractable.

Saw Mill Mandrels and Boxes



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

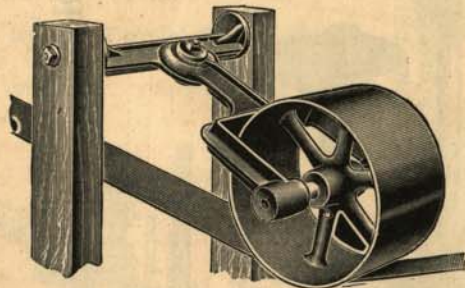
Our Standard Saw Mill Mandrels are made of the best grade steel, turned and ground perfectly true, with solid steel collars, fitted for saws with 2" hole, and two 5/8" pin holes on 3" circle.

Diameter.....	2 3/8"	2 5/8"	2 7/8"	2 11/8"	3 1/8"	3 1/4"
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 Name complete, with boxes.....	Mandible	Mandolin	Mange	Mangle	Mangoes	Mangrove
Code Name, without boxes.....	Knox	Lake	Logan	Macon	Mason	Maxim

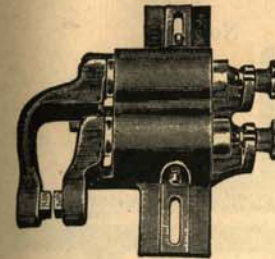
American Belt Tightener

Code Name, Belate.



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.

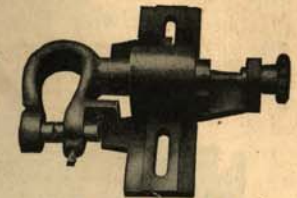
American Universal Saw Guides



No. 3

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

These guides will fit either right or left hand mills equally well and can be used on mills of any make. The yoke is

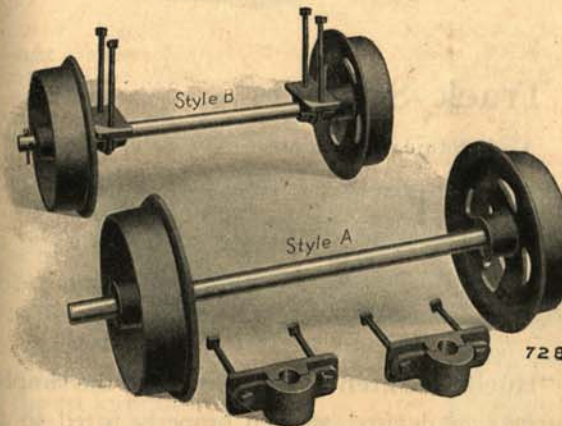


Nos. 1 and 2

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 6 1/2	7 1/2
Code Name.....	Sawlike	Sawbill	Sawpit

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 26 1/2" gauge and 2 1/2" tread. Wider gauge furnished at extra cost.

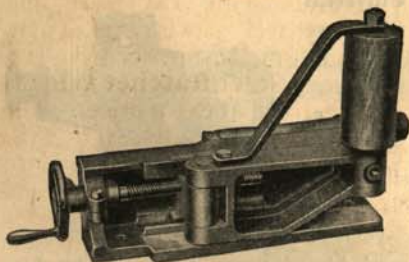
The Log Trucks are of similar patterns but heavier and may have clamp boxes and stirrups, or babbitted boxes with oil cellars.

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 1/8"	1 1/4"	1 1/2"	1 3/4"	1 7/8"
Weight Lbs.....	110	138	158	262	400
Code Name.....	Truce	Truant	Trudge	Tread	Treadle

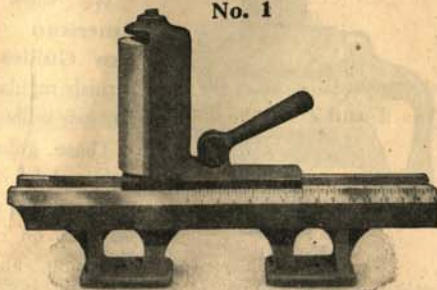
Gauge Rollers

No. 2



Code Name, Gauging.

No. 1



Code Name, Gauger.

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 Name, Trackless.

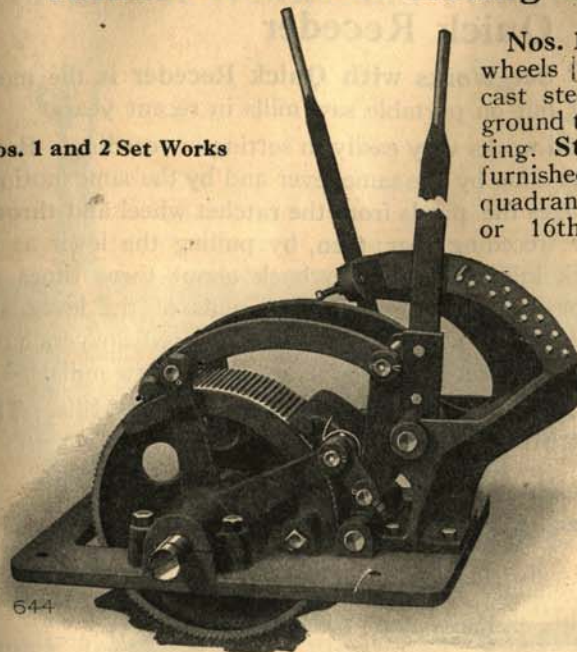


This cut shows our "Hueber" Patent Track Scraper, the simplest and most effective scraper ever devised. When properly fitted to the carriage, it will clean the track and wheels at the same time and automatically reverses with the carriage, scraping the track both ways. It will not catch on the end of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

American Double Acting Set Works

Nos. 1 and 2 Set Works



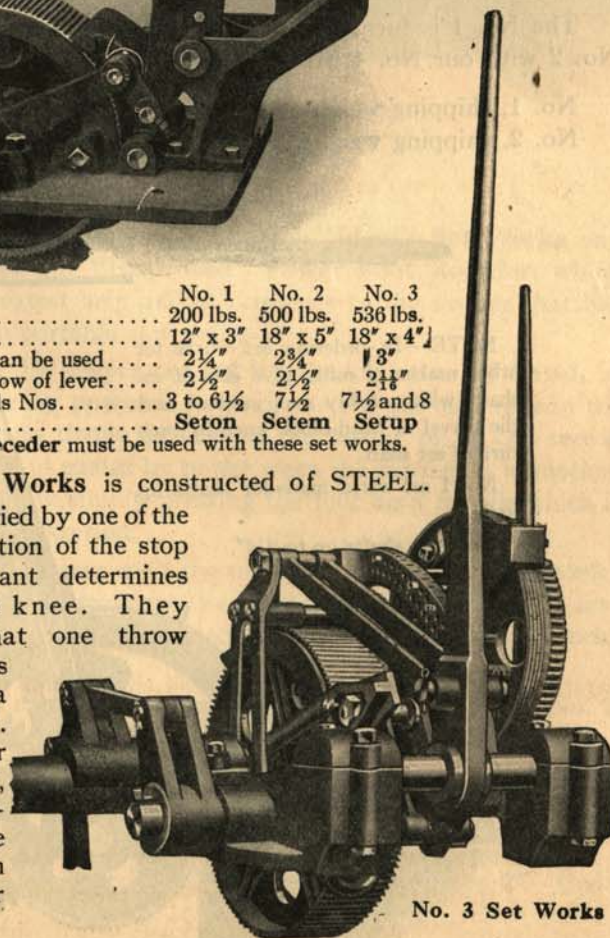
Nos. 1 and 2 have ratchet wheels with cut teeth and cast steel pawls carefully ground to insure accurate setting. Steel Ratchet Wheels furnished at extra price. The quadrant is graduated by 8ths or 16ths, and fitted with adjustable stop and an adjusting screw to provide for setting scant or full.

644

Size	No. 1	No. 2	No. 3
Weight complete.....	200 lbs.	500 lbs.	536 lbs.
Size of Ratchet Wheel.....	12" x 3"	18" x 5"	18" x 4"
Largest Set Shaft that can be used.....	2 1/4"	2 3/4"	1 3"
Will set with double throw of lever.....	2 1/2"	2 1/2"	2 1/8"
Can be used on our Mills Nos.....	3 to 6 1/2	7 1/2	7 1/2 and 8
Code Name.....	Seton	Setem	Setup

Spring or Power Receder must be used with these 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 these 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.



No. 3 Set Works

American "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 the same lever and by the same motion. A straight pull disengages 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 Name, **Setter**.

No. 2, shipping weight, 210 lbs. Code Name, **Settle**.

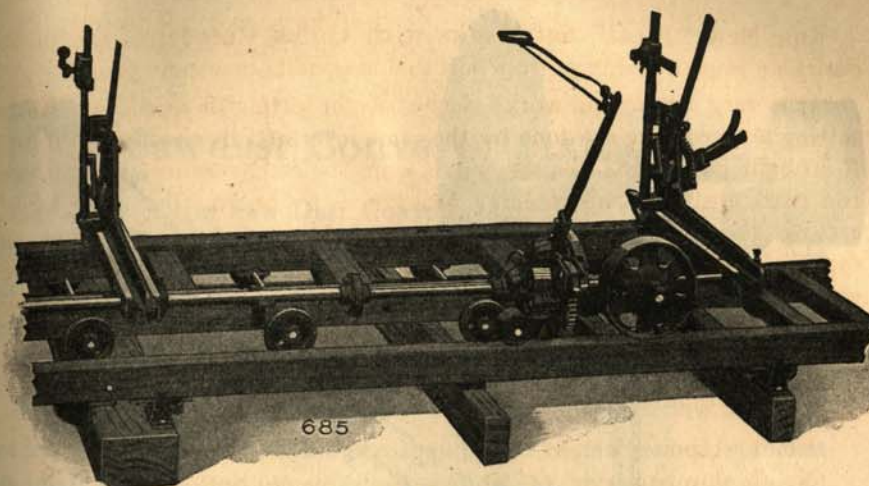


NOTE.—In ordering set works for other makes of mills, give size of set shaft, width of key seat in shaft and the travel of head-block knee to each turn of set shaft.

No. 1 set works made for shafts up to 2".

No. 2 for shafts up to 2¼".

"Ideal" Set Works and Power Foot Receder



Patent Applied for

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.

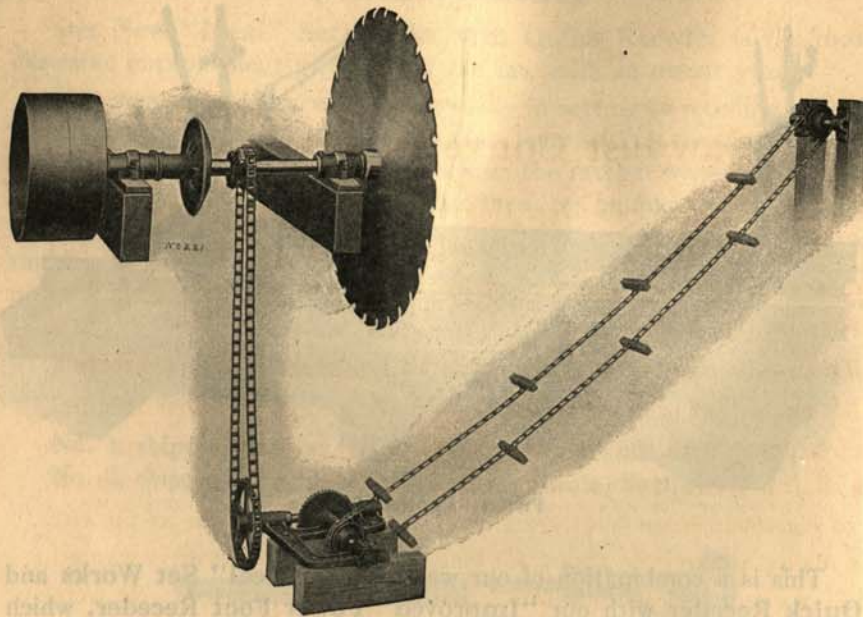
This combination can be applied to any of our saw mills from No. 1 up to No. 4 at small extra cost. It can be fitted to mills of other make.

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 2". Code Name, **Settling**.

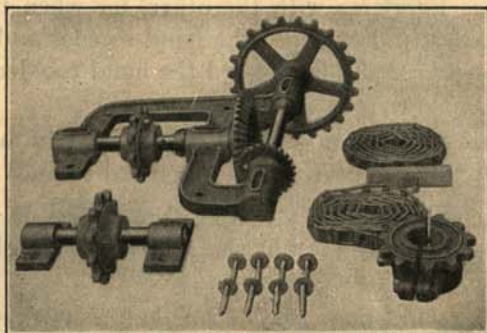
No. 2, for shafts up to 2¼". Code Name, **Settlers**.

American Sawdust Conveyor Fixtures



This cut shows how the conveyor appears when set up.

For those who prefer a belt driven conveyor, we will leave off the drive sprockets and furnish instead a pulley 12", 14" or 16" diameter, 4" face.



This cut shows a complete set of Fixtures

Sawdust Conveyor Fixtures

Our Chain Drive 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.

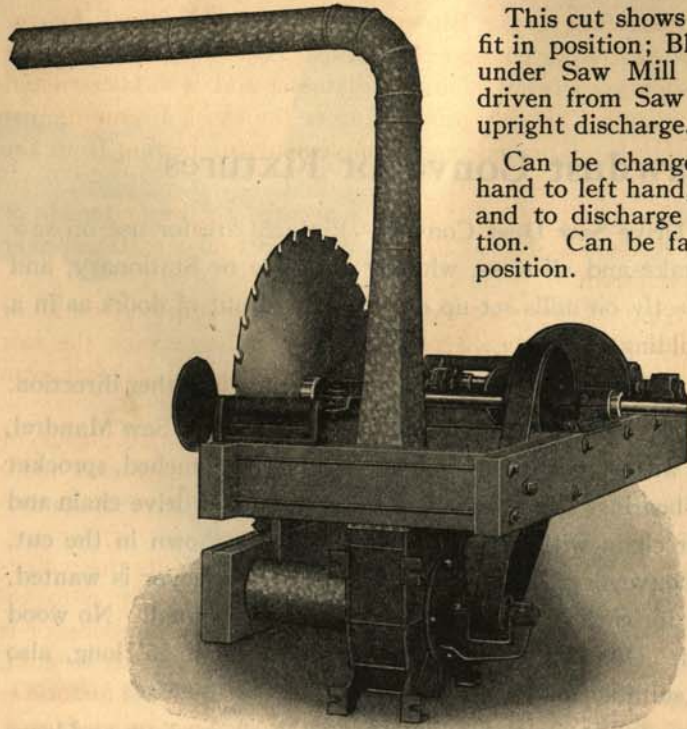
A standard set of fixtures consists of Split Sprocket for Saw Mandrel, cast iron frame with sprocket wheels, shafts and gears attached, sprocket with shaft and bearings for outer end of conveyor, 10' of drive chain and 50' of conveyor chain with attachment links, all as shown in the cut. This makes a conveyor about 25' long. If longer conveyor is wanted, add 2' of chain for each additional foot of conveyor wanted. No wood parts furnished. Our No. 4 conveyor has drive chain 15' long, also take-up boxes suitable for long runs.

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 Name.....	Mercer	Monroe	Morgan	Perry
Weight, boxed.....	180	195	290	430
Weight, without Chains.....	145	145	160	225
Longest Conveyor recommended.	40'	60'	80'	150'

Additional drive and carrier chain furnished at extra cost.

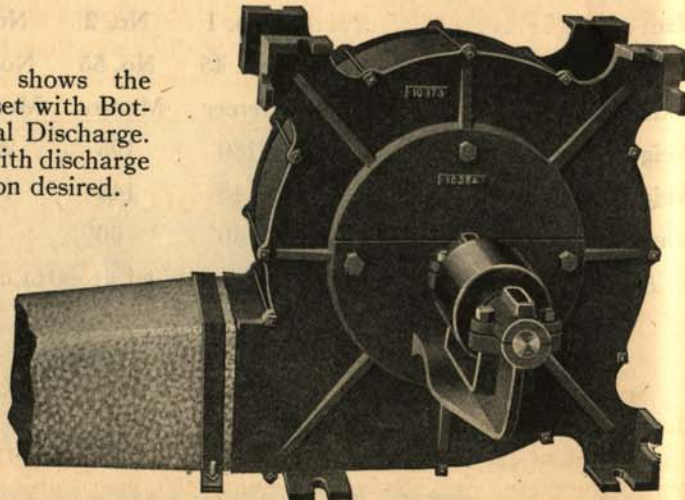
American Sawdust Blower



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.



American 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 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 placed 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:

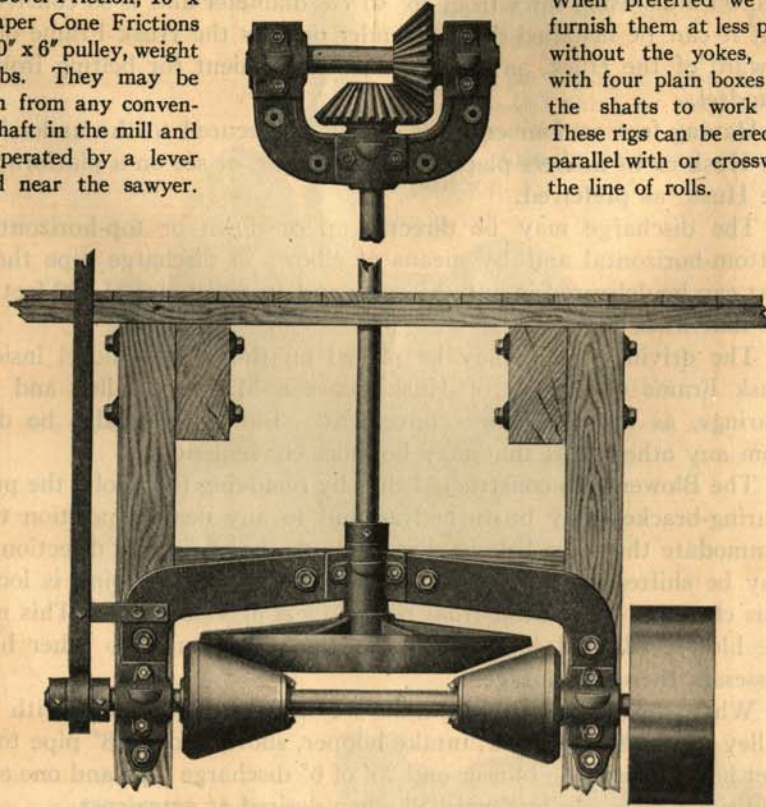
Diameter of Blower.....	22"
Diameter of Inlet.....	8"
Diameter of Outlet.....	8"
Pulley on Blower.....	5" x 4"

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 name, **Blowup**. Weight of outfit complete, packed for shipment, 450 lbs.; cubic measurement, 35 cu. ft. Code name, **Blowoff**.

American 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" x 5" Iron Bevel Friction, 8" x 5" Paper Cone frictions and 12" x 6" pulley, weight 500 lbs. No. 2 with 30" x 6" Iron Bevel Friction, 10" x 6" Paper Cone Frictions and 20" x 6" 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.

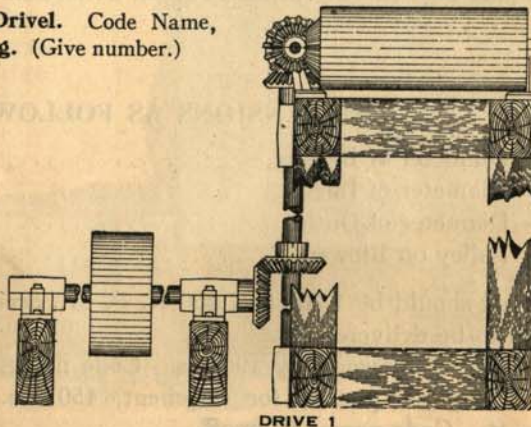


When preferred we can furnish them at less price without the yokes, but with four plain boxes for the shafts to work in. These rigs can be erected parallel with or crosswise the line of rolls.

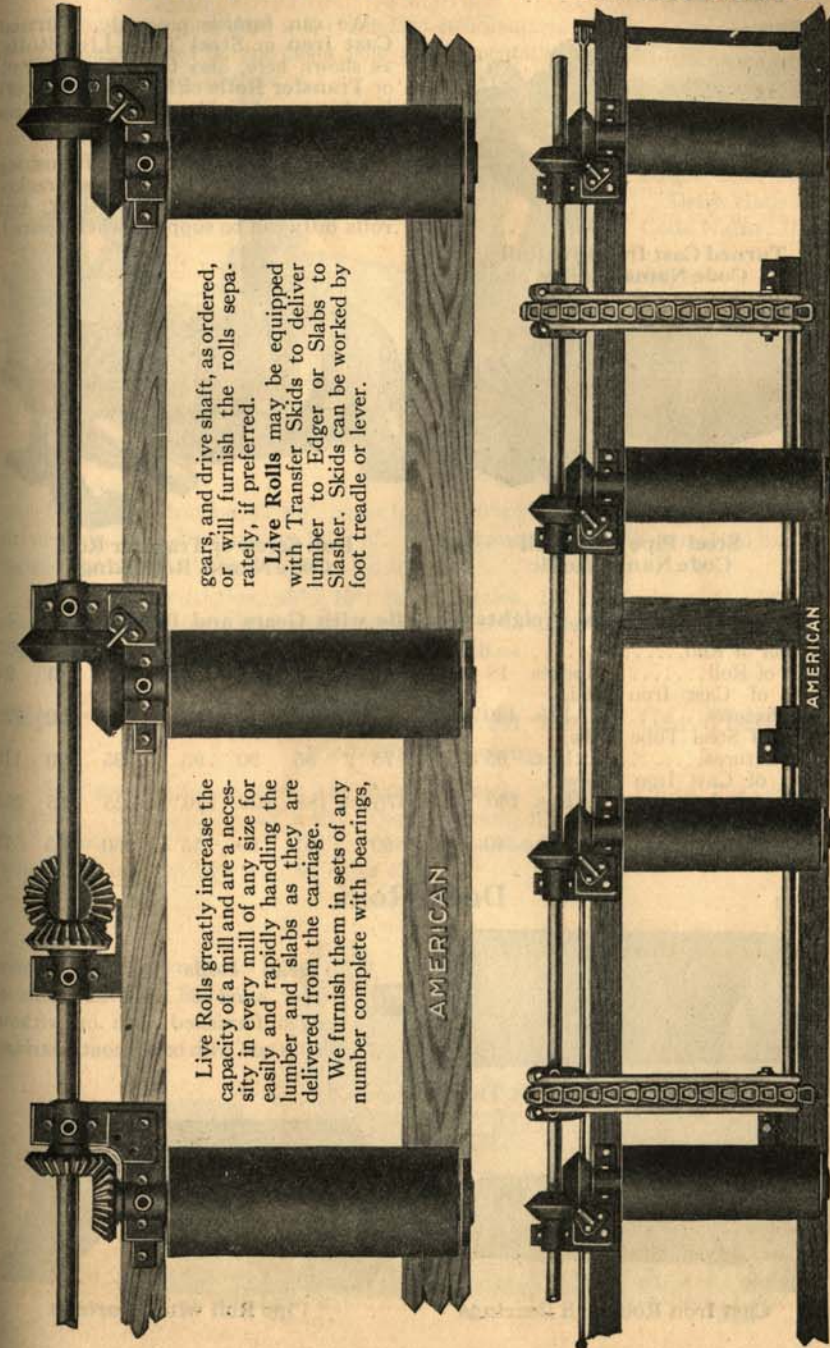
Code Name, as shown, **Drivel**. Code Name, without yoke, **Driveling**. (Give number.)

No. 3. Code Name, Driveler

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.



American Live Rolls and Transfer Skids



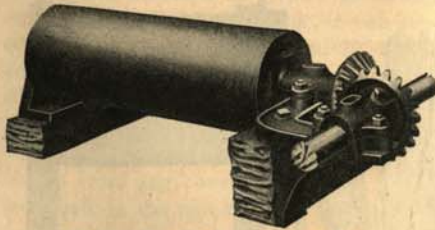
gears, and drive shaft, as ordered, or will furnish the rolls separately, if preferred.

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.

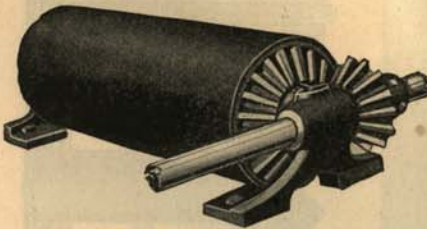
Live Rolls greatly increase the capacity of a mill and are a necessity in every mill of any size for easily and rapidly handling the lumber and slabs as they are delivered from the carriage.

We furnish them in sets of any number complete with bearings,

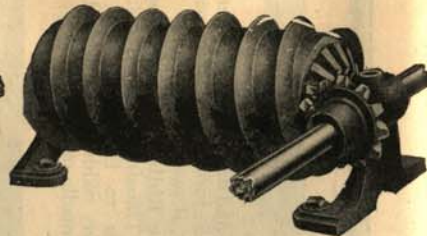
American Live Rolls and Dead Rolls



Turned Cast Iron Live Roll
Code Name, Rolley



Steel Pipe Live Roll
Code Name, Rollic



Iron Screw or Transfer Roll
Code Name, Rollicking

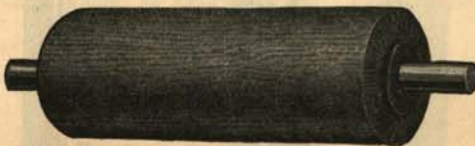
We can furnish promptly, Turned Cast Iron or Steel Tube Live Rolls, as shown here, also Cast Iron Screw or Transfer Rolls either Right or Left hand in any desired number and in sizes as given below.

The prices are based on furnishing each roll complete with gears, bracket bearings and 4 1/2' of drive shaft; but rolls only can be supplied when desired.

Dimensions and Weights of Rolls with Gears and Bearings

Diameter of Roll.....	— 6 Inches —			— 8 Inches —			— 10 Inches —		
	18	20	24	18	20	24	18	20	24
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.



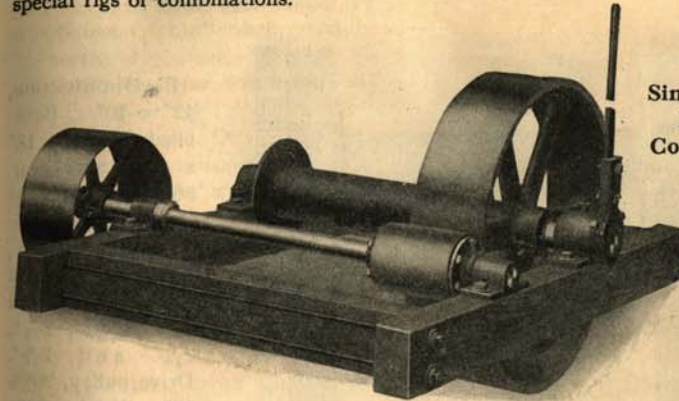
Cast Iron Roll with Bearings



Pipe Roll with Bearings

American 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 Name, Hauler

No. 1. Spur friction, 32" x 8"; paper friction, 6" x 8"; drum, 6" x 24"; drum shaft, 2 1/8"; drive shaft, 1 1/8"; drive pulley, 16" x 8". Code name, Loger. Weight, 1175 lbs. Gross weight for export, 1475 lbs., 26 cubic feet.

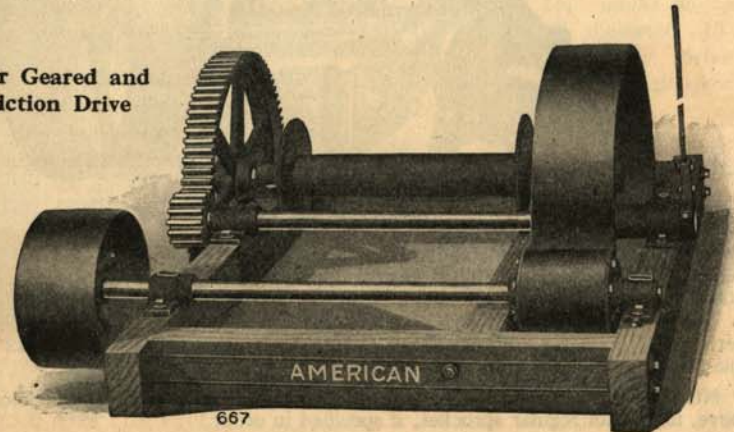
No. 2. Spur friction, 48" x 10"; paper friction, 10" x 10"; drum, 6" x 36"; drum shaft, 2 7/8"; drive shaft, 2 3/8"; drive pulley, 20" x 10". Code name, Logy. Weight, 1500 lbs. Gross weight for export, 1900 lbs., 52 cubic feet.

Spur Geared and Spur Friction Drive Car Haul-Up

Code Name, Spurup

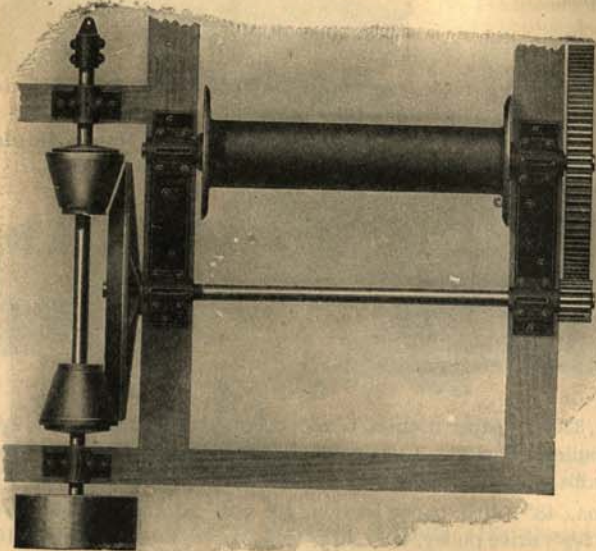
Spur gear, 36.23" diameter; 1 3/4" pitch; 65 teeth; 5" face. Pinion, 7.24" diameter; 13 teeth. Spur friction, 48" x 10". Paper friction, 10" x 10". Shafts, 2 1/8", 2 7/8" and 2 3/8" diameter. Pulley, 20" x 10". Code Name, Lodge. Weight, 1900 lbs. Gross weight for export, 2485 lbs., 66 cubic feet.

Spur Geared and Friction Drive



Spur Geared Bevel Friction Driven Car Haul-Up

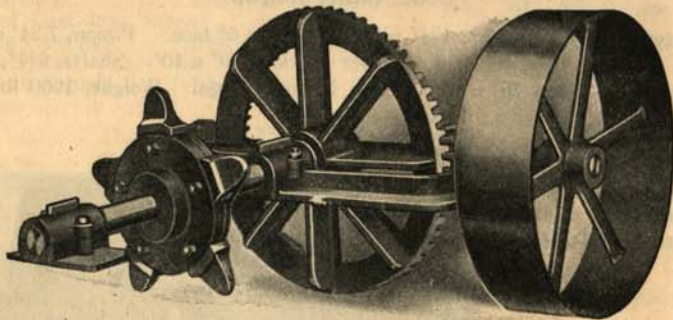
Code Name, Loin



Bevel iron friction, 42" x 10". Bevel filled frictions, 13" x 10". Spur gear, 36.23" diameter; 65 teeth; 1 $\frac{3}{4}$ " pitch; 5" face. Pinion, 7.24" diameter; 13 teeth. Drum, 6" x 36". Shafts, 2 $\frac{7}{16}$ ", 2 $\frac{7}{16}$ " and 2 $\frac{3}{16}$ ". Drive pulley, 20" x 10". Weight, 2000 lbs. Gross weight for export, 2,500 lbs., 66 cubic feet.

Single Bevel Geared Log Jackers

Code Name, Jackal



Bevel Geared Jacker

No. 1. Bevel gear, 48.39" diameter; 101 teeth; 4 $\frac{1}{2}$ " face; 1 $\frac{1}{2}$ " pitch. Pinion, 15 teeth; 7.21" diameter. Shafts, 2 $\frac{1}{8}$ " and 2 $\frac{1}{4}$ " diameter. Pulley, 48" x 8". Adjustable 6-tooth sprocket for $\frac{5}{8}$ " x 5" chain.

No. 2. Bevel gear 53.40" diameter; 84 teeth; 5 $\frac{1}{2}$ " face; 2" pitch. Pinion, 13 teeth; 8.36" diameter. Shafts, 3 $\frac{1}{8}$ " and 2 $\frac{1}{8}$ " diameter. Pulley, 48" x 12". Adjustable 5-tooth sprocket for $\frac{7}{8}$ " x 7" chain.

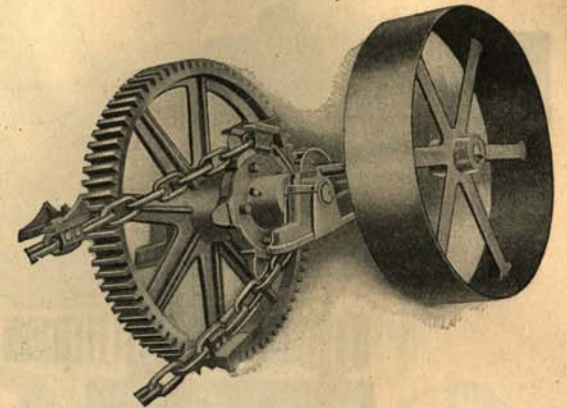
NOTE.—Sprocket for $\frac{3}{4}$ " x 6 chain will be furnished with any of the Jackers described above, instead of regular sprocket, if specified in order.

Single Spur Geared Jacker

Code Name, Jacket

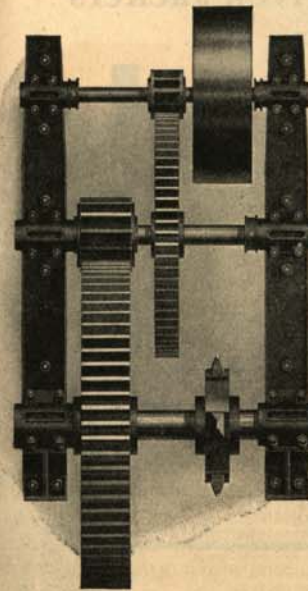
No. 1. Spur gear 47.76" diameter; 1 $\frac{1}{2}$ " pitch; 100 teeth; 4 $\frac{1}{2}$ " face. Pinion, 7.22" diameter; 15 teeth. Main shaft 2 $\frac{1}{8}$ "; drive shaft, 2 $\frac{7}{16}$ " diameter. Drive pulley, 48" x 8". Adjustable 6-tooth sprocket for $\frac{5}{8}$ " x 5" chain.

No. 2. Spur gear, 48.41" diameter; 2" pitch; 76 teeth; 6" face. Pinion, 7.73" diameter; 12 teeth. Main shaft, 3 $\frac{1}{8}$ " diameter. Drive shaft, 2 $\frac{1}{8}$ ". Drive pulley, 48" x 12". Adjustable 5-tooth sprocket for $\frac{7}{8}$ " x 7" chain.



Double Spur Geared Log Jackers

Code Name, Janitor

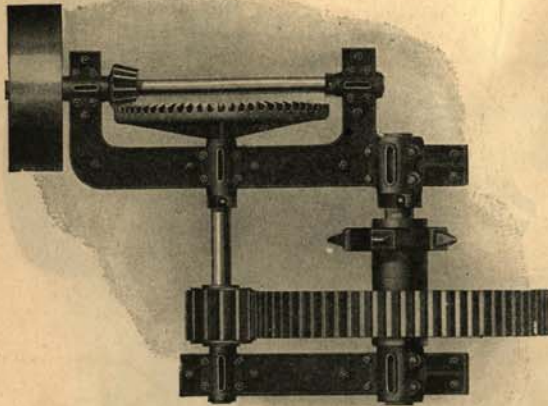


No. 1. Spur gear, 48.41" diameter; 2" pitch; 76 teeth; 6" face. Pinion, 7.73" diameter; 12 teeth. Intermediate spur gear, 36.23" diameter; 1 $\frac{3}{4}$ " pitch; 65 teeth; 5" face. Pinion, 7.31" diameter; 13 teeth. Shafts, 3 $\frac{1}{8}$ ", 2 $\frac{1}{8}$ " and 2 $\frac{1}{8}$ ". Drive pulley 24" x 12". Adjustable 5-tooth sprocket for $\frac{7}{8}$ " x 7" chain.

No. 2. Spur gear, 48" diameter; 2 $\frac{1}{4}$ " pitch; 67 teeth; 7" face. Pinion, 10.11" diameter; 14 teeth. Intermediate spur gear, 36.23" diameter; 65 teeth; 1 $\frac{3}{4}$ " pitch; 5" face. Pinion, 7.31" diameter; 13 teeth. Shafts, 4 $\frac{1}{16}$ ", 3 $\frac{1}{16}$ " and 2 $\frac{1}{8}$ ". Drive pulley, 24" x 12". Adjustable 5-tooth sprocket for 1 $\frac{1}{8}$ " x 8" chain.

Spur and Bevel Geared Jackers

Code Name, Jail



This type of Jacker is used largely in band mills or when main shaft runs lengthwise of mill. Furnished with 5-tooth adjustable sprockets.

No. 1. Spur gear, 48.41" diameter; 2" pitch; 6" face; 76 teeth. Pinion, 7.73" diameter; 12 teeth. Bevel gear, 42.36" diameter; 1 3/4" pitch; 5" face; 76 teeth. Pinion 8.42" diameter; 15 teeth. Shafts, 3 1/8", 2 1/8" and 2 1/8". Pulley, 24" x 12". Sprocket 5-tooth for 1/8" x 7" chain.

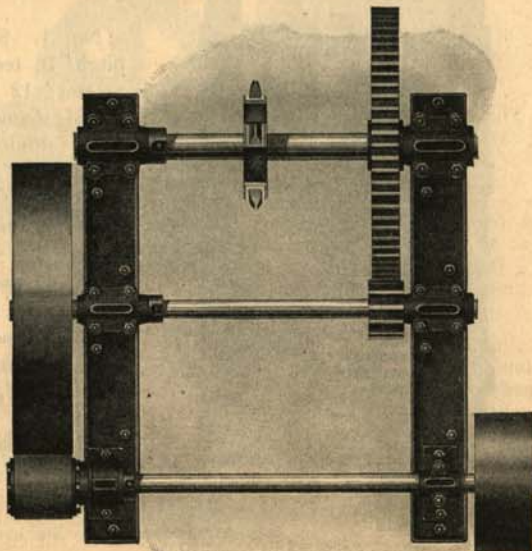
No. 2. Spur gear, 48" diameter; 2 1/4" pitch; 7" face; 67 teeth. Pinion, 10.11" diameter; 14 teeth. Bevel gear 42.36" diameter; 1 3/4" pitch; 5" face; 76 teeth. Pinion 8.42" diameter; 15 teeth. Shafts 4 1/8", 3 1/8" and 2 1/8" diameter. Pulley 24" x 12". 5-tooth sprocket for 1 1/8" x 8" chain.

Spur Gear Friction Driven Jackers

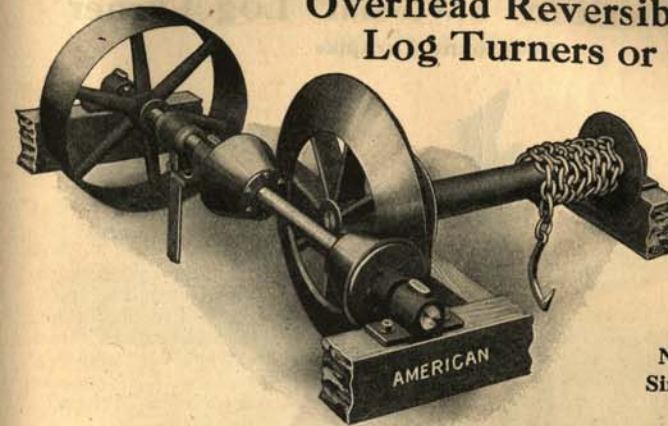
Code Name, Jalap

No. 1. Spur gear, 48.41" diameter; 2" pitch; 6" face; 76 teeth. Pinion, 7.73" diameter; 12 teeth. Spur friction, 36" x 8". Paper friction, 8" x 8". Shafts, 3 1/8", 2 1/8" and 2 1/8" diameter. 5-tooth sprocket for 1/8" x 7" chain.

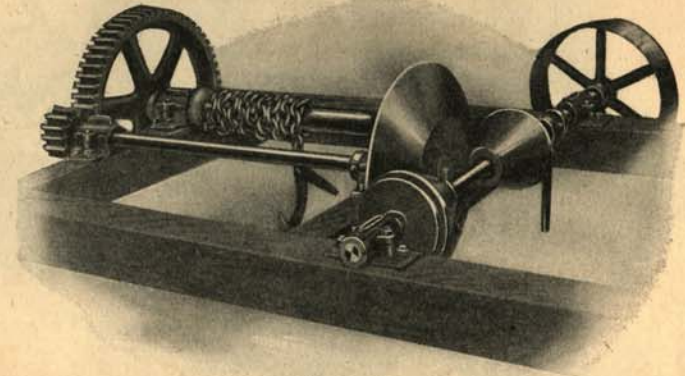
No. 2. Spur gear, 48" diameter; 2 1/4" pitch; 7" face; 67 teeth. Pinion, 10.11" diameter; 14 teeth. Spur friction, 48" x 10". Paper friction, 10" x 10". Shafts, 4 1/8", 3 1/8" and 2 1/8" diameter. Adjustable 5-tooth sprocket for 1 1/8" x 8" chain. Pulley, 24" x 12".



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.

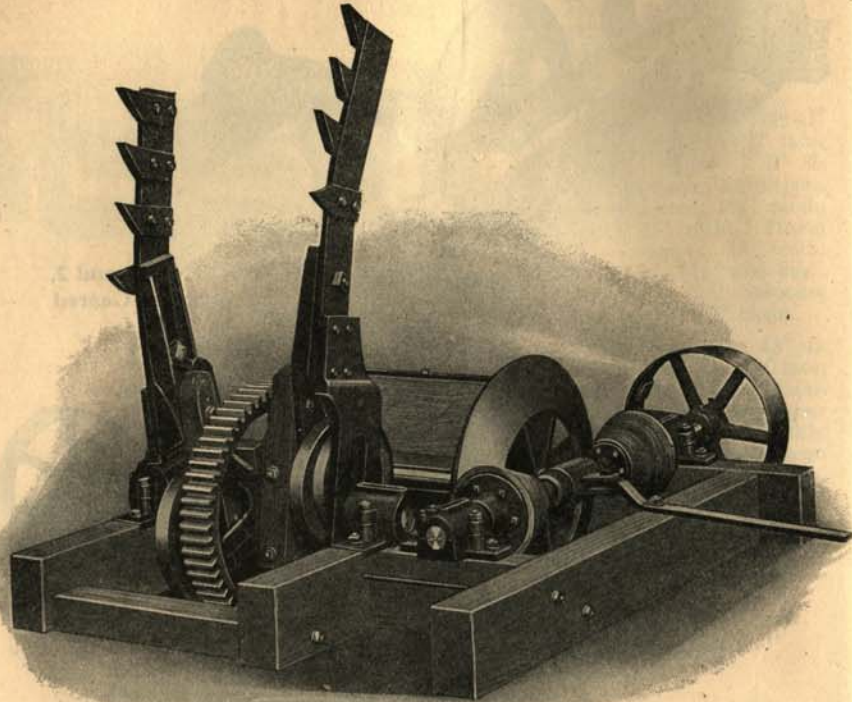
The driving shaft can be driven from any convenient line shaft or direct from the saw mandrel if desired. The chain is raised or lowered by bringing the small paper cone frictions alternately into contact with the large iron bevel friction by the movement of a lever which is in convenient reach of the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

Fifteen feet of 1/2" 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 1/8"	2 1/8"	2 1/8"
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 Name.....	Logging	Logos	Logroll

The American "Two-Bar" Log Turner

Code Name, Turnpike



The American "Two-Bar" Log Turner is an almost indispensable adjunct to any portable, semi-portable or ground floor saw mill. By its use the backbreaking labor of turning logs by hand is almost entirely done away with, and the capacity of the mill is so increased that the machine will soon pay for itself.

The machine consists principally of two short tooth bars, operated by cams, gears and frictions in such a manner that one of the two bars is always in contact with the log in turning. When not in use, the bars lie back on the bumper skid, shown in the cut, and located under the skids of the log deck, out of the way of the log.

Power is applied to the iron bevel friction through one of the bevel paper frictions. This causes the bars to move up and down, and, at the same time, by means of the auxiliary wooden friction blocks attached to the sides of bars and clamping on to main shaft, causes the bars to rise into position shown in cut, ready to crowd against the log and turn it into any desired position.

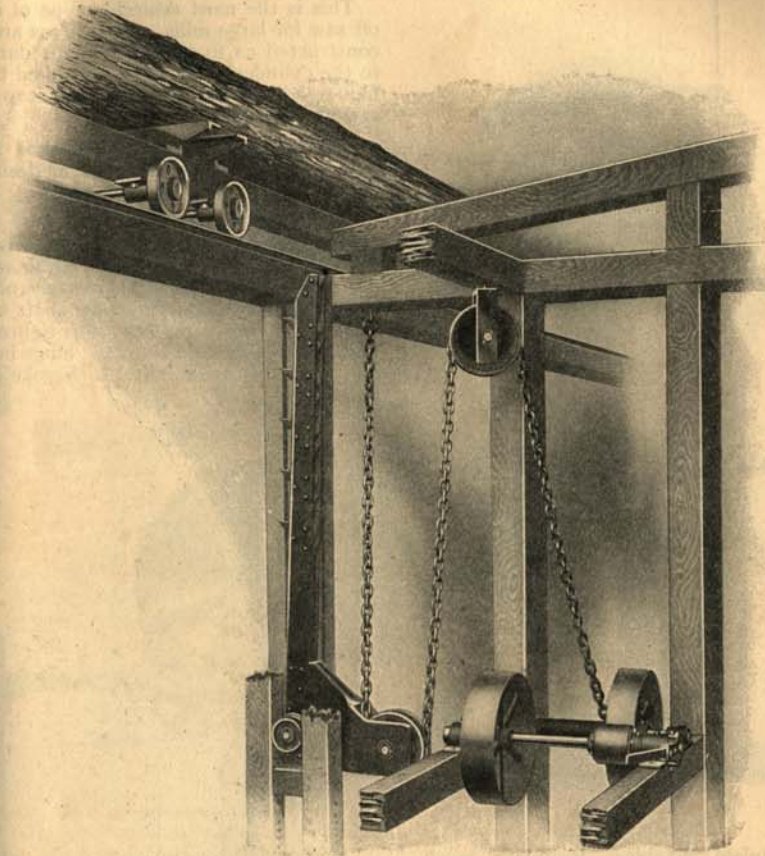
Applying the other paper friction causes the bars to drop down on bumper skids out of the way, until the next log is to be turned. Its action is simplicity itself.

All parts are made heavy and durable to withstand the roughest usage.

The machine is usually belted from an overhanging pulley on the main mandrel, but can be belted from any convenient counter-shaft. It is built in one size only for logs scaling up to 800 feet. Net weight, 1,050 lbs.; for export, gross weight, 1,285 lbs.; measurement, 50 cubic feet. Pulley, 12" x 6" speed, 500 R. P. M.

American Friction Nigger

Code Name, Nigger



This illustration shows quite clearly how it is erected in the mill directly under the log deck. When arranged as shown, it is powerful enough to readily turn any size logs and is almost equal to a steam nigger.

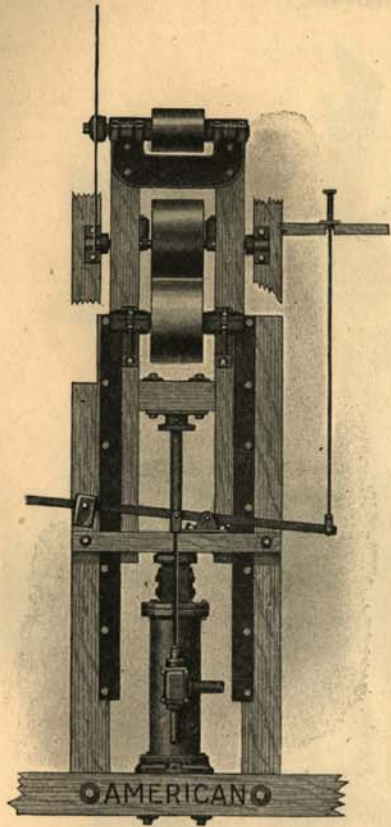
The tooth bar is raised by the winding of the chain on the drum, which is accomplished by elevating the lever, thus bringing the friction in contact with the bull wheel on end of the drum. When friction is released the weight of the bar causes it to return to its normal position. On each side of the base of the bar are flanged rollers which work between wood guides.

SPECIFICATIONS

Tooth bar, made of two pieces, $\frac{3}{4}$ " x 5" steel, spaced $2\frac{1}{8}$ " apart.
 Teeth, 2" x 2" steel, made to collapse on down stroke.
 Sheaves, 10" diameter.
 Chain, 24' of $\frac{5}{8}$ " heavy coil chain.
 Drum, 4" diameter.
 Bull wheel, 32" x 6"; friction, 7" x 6"; driving pulley, 24" x 6"; speed, 400 to 450 R. P. M. Weight, complete, 1,400 lbs.

American Steam Jump Saw

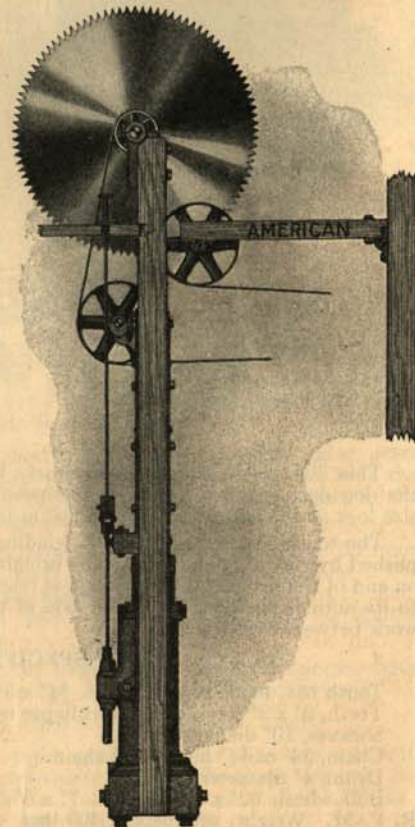
Code Name, No. 1, Jumper; No. 2, Jumping



This is the most desirable type of cut-off saw for large mills. The valves are so constructed as to avoid all jar or danger to the cylinder. They are controlled by a foot treadle and the operator can stop the saw at any point.

The mandrels are heavily yoked and made either right or left hand, as desired. Saws should revolve away from the operator.

Iron parts only are furnished and comprise the steam cylinder with combination spanker and piston plate; valve mechanism, four steel guide plates; one idler shaft with pulley and bearings; one belt tightener pulley with shaft and bearings; hinge bearings, and one saw mandrel with yoke and pulley.



Complete machine, including wood-parts, built on special order only.

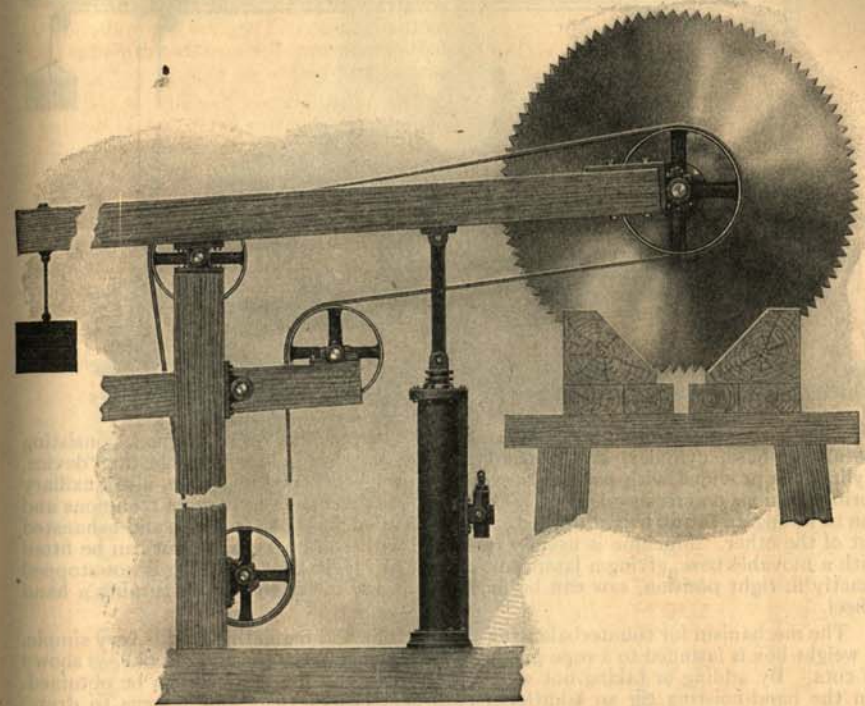
Made in two sizes, specifications as follows:

SPECIFICATIONS

	No. 1	No. 2
Diameter of cylinder.	6"	8"
Size of mandrel.....	2 $\frac{3}{8}$ "	2 $\frac{1}{2}$ "
Will carry saws up to.	48"	60"
Size saw hole (std. pin holes).....	2"	2"
Mandrel pulley.....	8"x10"	12"x14"
Idler pulleys.....	16"x10"	20"x14"
Shipping weight (irons only)	1,300 lbs.	1,900 lbs.
Gross weight for export.....	1,600 lbs.	2,300 lbs.
Cubic feet.....	24	32

Steam Circular Cut-off Saw

Code Name, Palisade

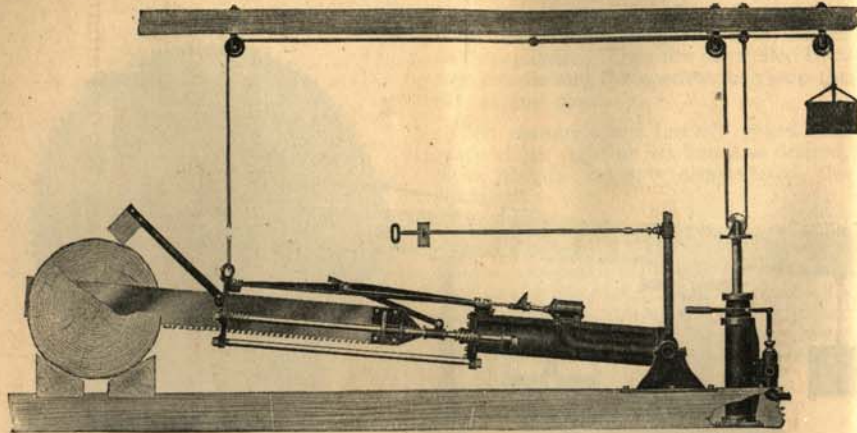


We are prepared to furnish the necessary mandrel, pulleys, shafting, boxes, steam cylinder, etc., for the construction of these machines, in two sizes: No. 1, suitable for saws up to 48" diameter, and No. 2 for larger saws. The No. 1 outfit has 2 $\frac{3}{8}$ " mandrel, and pulleys are 10" face. The mandrel of No. 2 is 2 $\frac{1}{2}$ " diameter and pulleys 14" face. Steam cylinder is 6" diameter and suitable length for machine furnished. We can also furnish power driven concave rolls suitable for log conveyor.

American Direct-Acting Steam Drag Saw

7" Bore. 36" Stroke

Code Name, Dragging

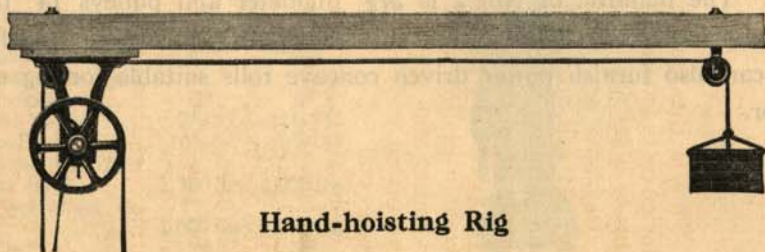


This is the most simple and powerful drag saw machine ever designed, consisting mainly of base, cylinder, heads, piston, ways, crosshead, saw and hoisting device. Cylinder is provided with positive steam cushion at each end of stroke, also auxiliary spring cushions on crosshead ways. The whole machine rests in base on trunnions and can be swung up to any height desired. Steam is taken in at one trunnion and exhausted out of the other. Machine is usually furnished with stationary base, but can be fitted with a movable base, giving a lateral movement of 24", so that if the log is not stopped exactly in right position, saw can be moved to proper place by simply turning a hand wheel.

The mechanism for counterbalancing the machine and regulating feed is very simple. A weight box is fastened to a rope passing over the sheaves to the end of yoke, as shown in cuts. By adding or taking out weight from box, any desired feed can be obtained. On the hand-hoisting rig an additional rope attaches to yoke and fastens to drum. Several coils of rope are wound around the rope wheel and a slight pull on the hanging end causes the drum to revolve, winding up the rope and raising saw. A ratchet is provided for holding saw in any position wanted.

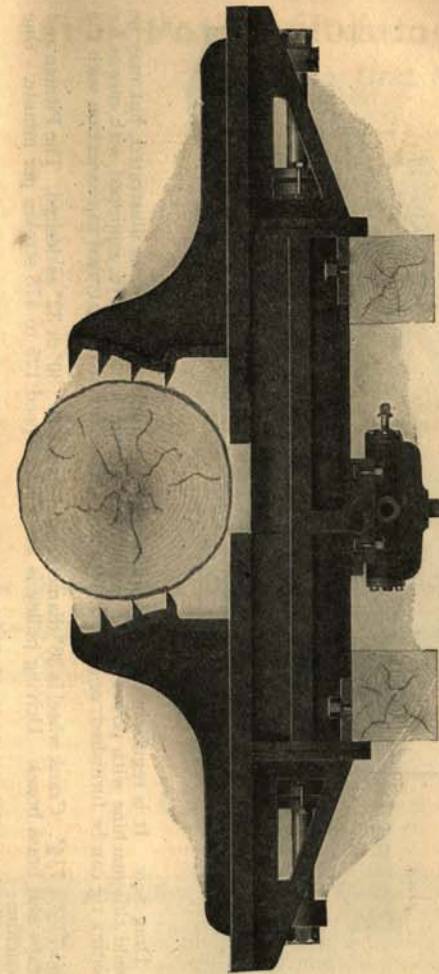
The steam hoist is counterbalanced in the same manner and rope is attached as shown in the cut. Giving steam on top of the cylinder pulls the rope and raises the saw. Giving steam on the bottom permits saw to drop and start feeding through log. As the cylinder only handles weight of the feed, saw is under perfect control of the operator.

	Net	Gross	Cubic Feet
Weight with hand-hoisting rig.....	1900 lbs.	2600 lbs.	85
Weight with steam-hoisting rig.....	2450 lbs.	3250 lbs.	100
Movable base adds to weight.....	700 lbs.	775 lbs.	8



Hand-hoisting Rig

American Steam Log Dog



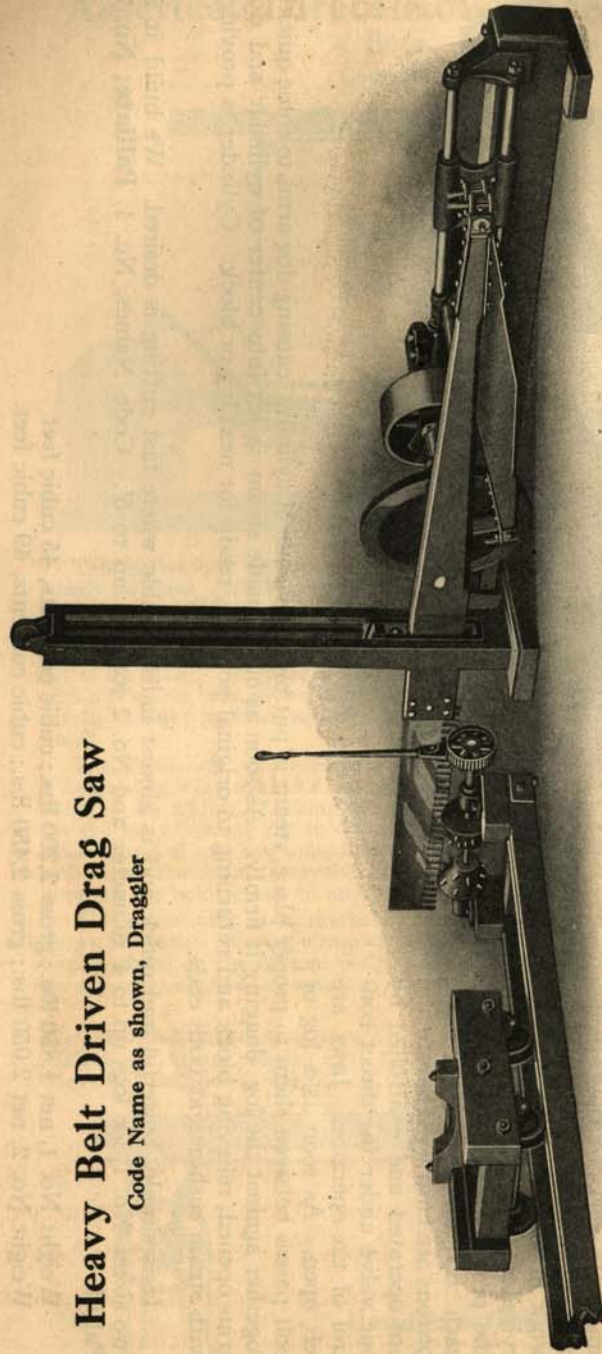
This is the fastest and best device on the market for dogging logs or bolts while being cut by a drag saw or circular cut-off rig. It will dog a log instantly and firmly, whether large or small. It works on the principle of a vise. The two heavy jaws work in planed ways on top of cylinder and attach direct to the piston rods extending from each end of cylinder. These pistons are entirely separate and are operated and controlled by one valve under the direct control of the operator. Jaws are left open. As soon as a log or bolt passes between them to proper place, steam is put on outer ends of cylinder, causing dog arms to come quickly together against the log, dogging it firmly. As soon as cut is made steam is let into center of cylinder and dog arms opened, relieving block and returning to original position, ready for next log or block. Cylinder is provided with steam cushions at both ends.

It is simple, powerful and quick and is almost indispensable where fast cutting is desired. We build it in two sizes: No. 1, for logs up to 4' diameter and No. 2 for logs up to 5'. Code Names, No. 1. Palliate; No. 2, Pallid.

Weight No. 1, net 1,850 lbs.; gross 2,200 lbs.; cubic contents, 45 cubic feet.
Weight No. 2, net 2,050 lbs.; gross 2,450 lbs.; cubic contents, 49 cubic feet.

Heavy Belt Driven Drag Saw

Code Name as shown, Draggler



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; or a hand elevating device similar to that used in connection with the steam drag.

Main frame is yellow pine or hard wood $7\frac{1}{2}'' \times 7\frac{1}{2}''$. 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 $24'' \times 8''$. Speed 125 to 175 strokes per minute. One drag saw $6\frac{1}{2}'' \times 10''$ furnished with each machine.

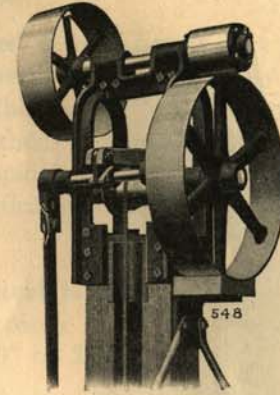
Weight as illustrated, 2660 lbs. Export shipping weight, 3180 lbs. Cubic contents, 75 cubic feet.

Deduct for hedgehog, truck and track, 650 lbs.

Power feed for hedgehog adds to weight, 200 lbs.

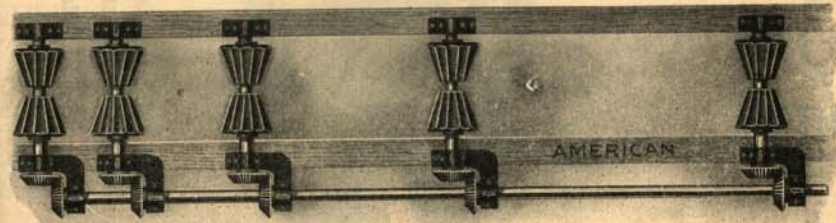
Friction drive adds to weight, 520 lbs.

Power Hoisting Rig For Heavy Drag Saw



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.

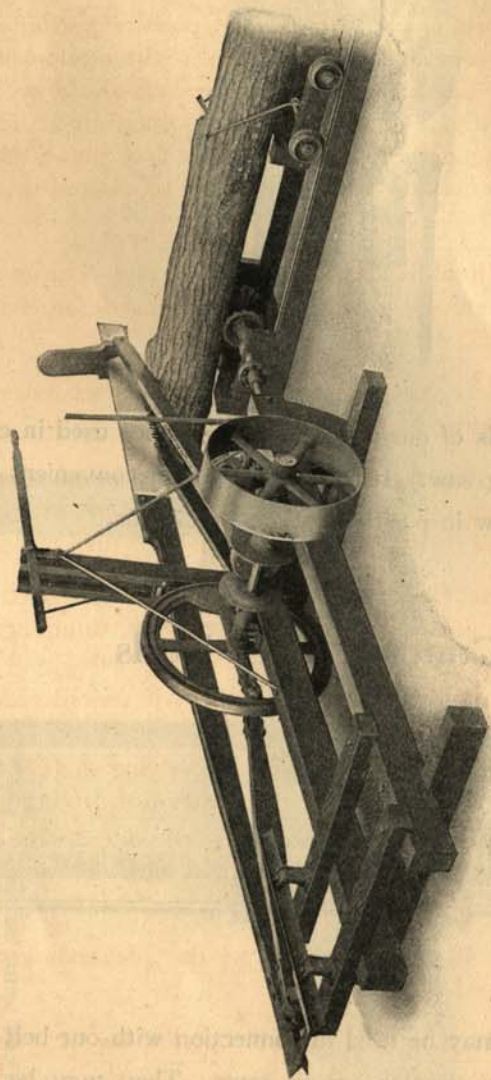
Concave Live Rolls



These live rolls may be used in connection with our belt driven or steam drag saws or circular cut-off saws. 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.

American "Champion" Friction-Feed Drag Saw

Code Name, Dragon



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" x 5½" 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" x 4" 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" x 6" 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 price.

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.

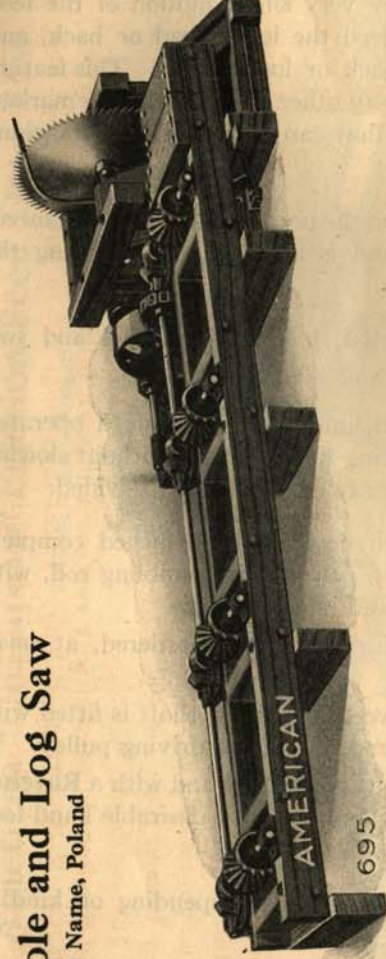
Power Required: 3 to 4 H. P. will operate machine to good advantage.

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

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

Circular Pole and Log Saw

Code Name, Poland



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" x 7½".

Rolls are set 4' centres.

Receiving pulley on countershaft, 16" x 8". Speed,

400 R. P. M.

Drive pulley on countershaft, 12" x 8".

Mandrel pulley, 6" x 8".

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.

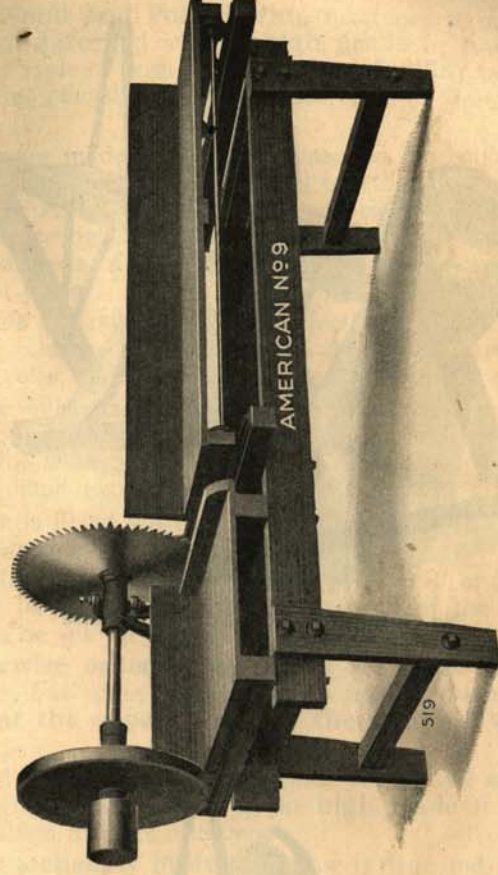
Shipping weight, 3,150 lbs.

Weight each extra live roll with 4' of ways, 200 lbs.

Weight each extra dead roll with 4' of ways, 150 lbs.

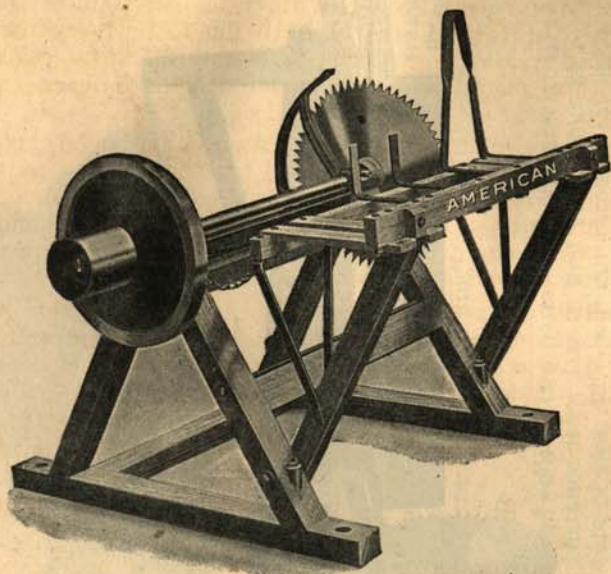
No. 9 Rolling Table Wood and Pole Saw

Code Name, Cordate

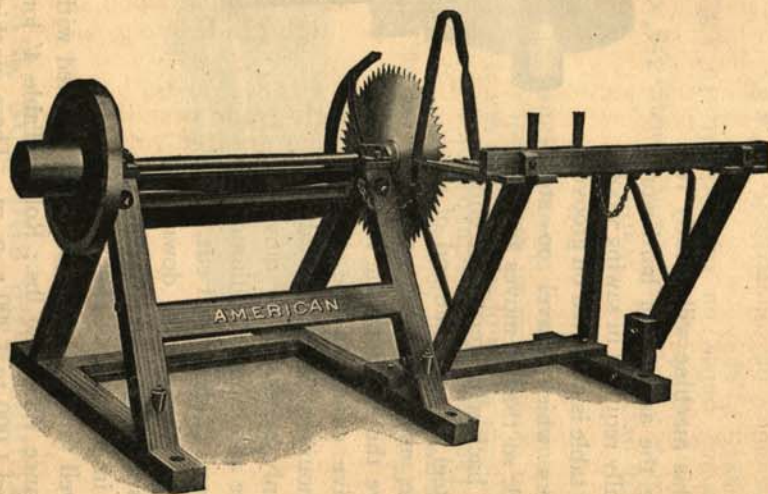


This machine will greatly reduce the amount of hard work usually required in sawing wood. The table is mounted on grooved rollers which travel on steel track so that it moves forward and back with very little effort. A steel roller at the end of the table makes it very easy to move the log along for 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" x 1½"; Pulley 6" x 6"; 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.

"Clipper" Wood and Pole Saws



No. 3 Cord Wood Saw Right Hand



No. 4 Wood or Pole Saw Right Hand

"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 alongside the girts and passing through from one side of the frame to 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" x 6". Speed, 1,000 to 1,200, 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.

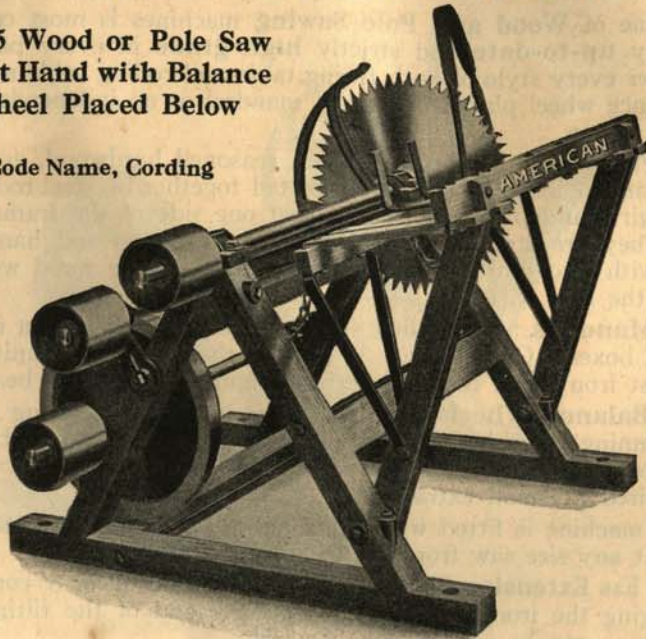
These machines are regularly shipped knocked down. Shipped set up if so ordered, without extra charge.

For Ripping Table Attachment, see page 95.

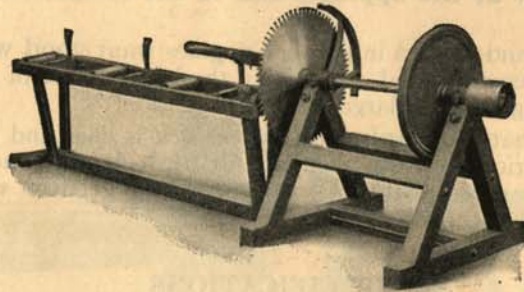
Clipper Wood and Pole Saws

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

Code Name, Cording



No. 8 Heavy Wood and Pole Saw
Code Name, Cordially



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" x 3½" 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 and has a coil spring counter-balance. The mandrel is 1½" 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" x 6". The adjustable guard will admit saws up to 30". Weight, 420 lbs. Speed, 1,000 to 1,200 R. P. M.

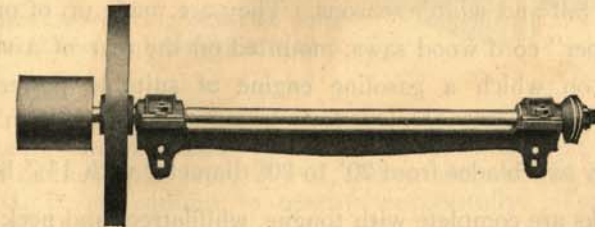
Ripping Table Attachment

Code Name, Ripper



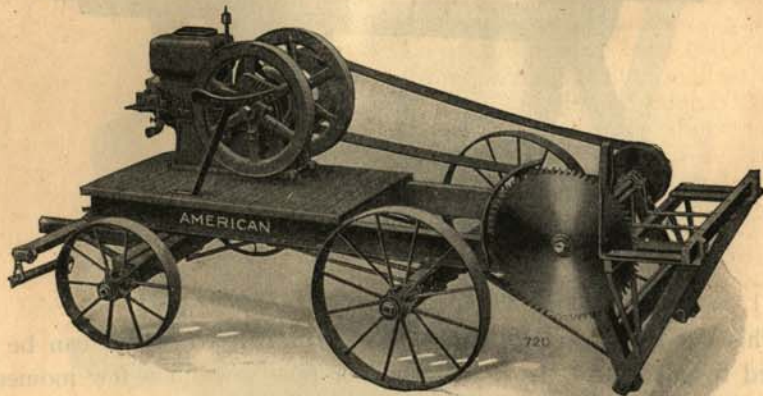
This cut shows a Ripping Table Attachment which can be attached to our No. 3, 4, 5 or 8 wood or pole saws in a few moments. It has an adjustable guide and is very handy for ripping boards, sawing pickets, laths, crate slats, or for squaring fence posts, shingle blocks and other work. Furnished at slight 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'.

American "Portable" Wood Sawing Outfit



Our Mounted, or "Portable" Wood Sawing rigs are very substantial and complete, and on account of being so easily moved from one job to another, are very popular with those who make a business of sawing wood in the fall and winter seasons. They are made up of our regular No. 3 "Clipper" cord wood saws, mounted on the rear of a substantial steel truck on which a gasoline engine of suitable power may be mounted.

Will carry saw blades from 20" to 30" diameter with $1\frac{3}{8}$ " hole.

The trucks are complete with tongue, whiffletrees and neck yoke.

Can be made with countershaft and balance wheel underneath at additional cost.

Weight, without power, 1,200 lbs.

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" x 6" 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.

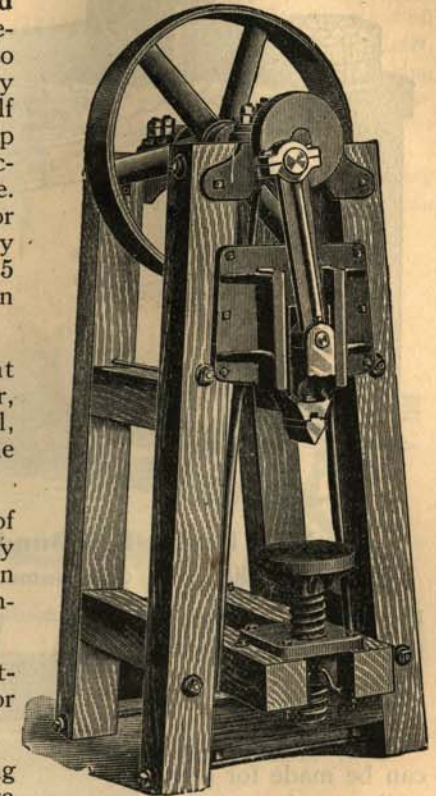
The Crank Shaft is made of steel and runs in babbitted boxes. The driving pulley weighs about 250 lbs. and has heavy rim, so as to give plenty of momentum. It is 32" x 6", and should run 150 R. P. M. One to two H. P. is required to operate successfully. Total height of machine, 7' $1\frac{1}{2}$ ".

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

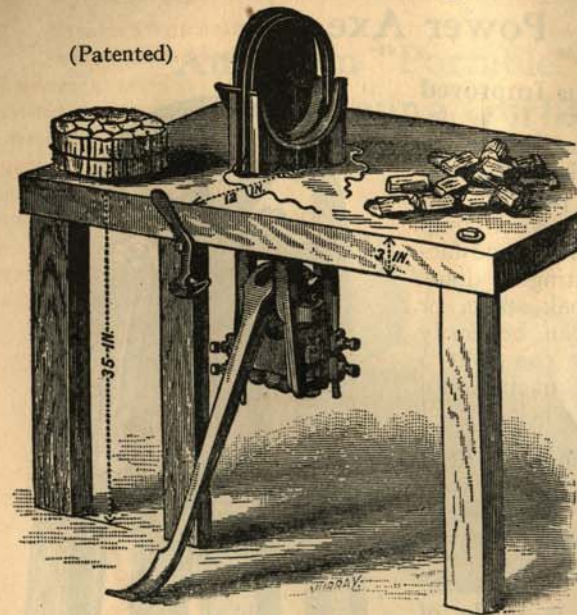
Code Name, **Splits**.

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

Code Name, **Splitting**.



American Kindling Wood Bundlers



(Patented)

No. 5 Double-Bow Bundler

Weight, 130 lbs. Code Name, Kindest

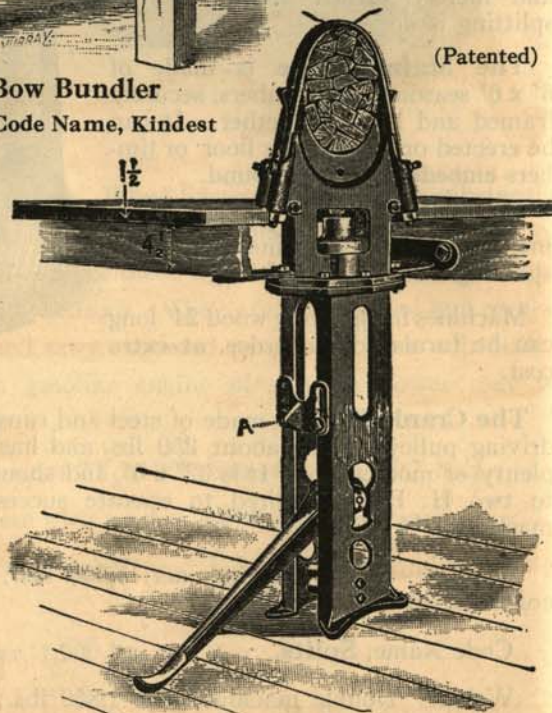
the bundle is compressed the ends are brought together on top and tied.

The No. 6 machine can be made for any ordinary size, shape or length of bundle, at slight additional price.

Presses are furnished complete as shown without the wood tables.

We are also prepared to furnish Elevators and Conveyors for handling the wood, when desired.

These cuts show two small presses or bundlers, for bundling kindling wood. While they are strong and powerful and compress the wood into a tight bundle, yet they are simple and easy to work, and may be operated by a boy. The string or wire with which the bundle is to be secured is laid down between the bows so that when

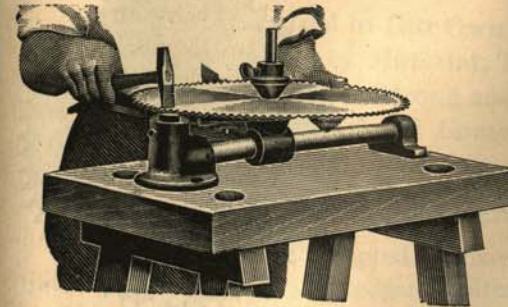


(Patented)

No. 6 Compound Toggle Bundler

Weight, 185 lbs. Code Name, Kindler

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.

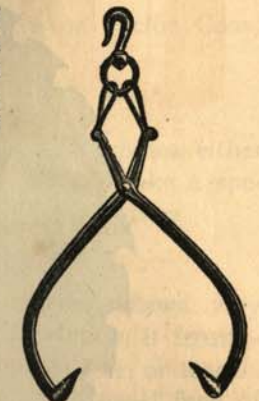


Side File

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

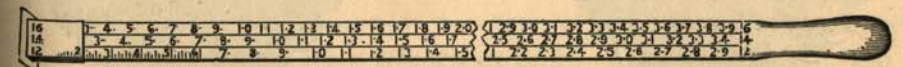
- No. 0—For Saws 5 to 7 gauge.
- No. 1—For Saws 8 to 12 gauge.
- No. 2—For Saws 12 to 15 gauge.
- No. 3—For Saws 15 to 20 gauge.



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

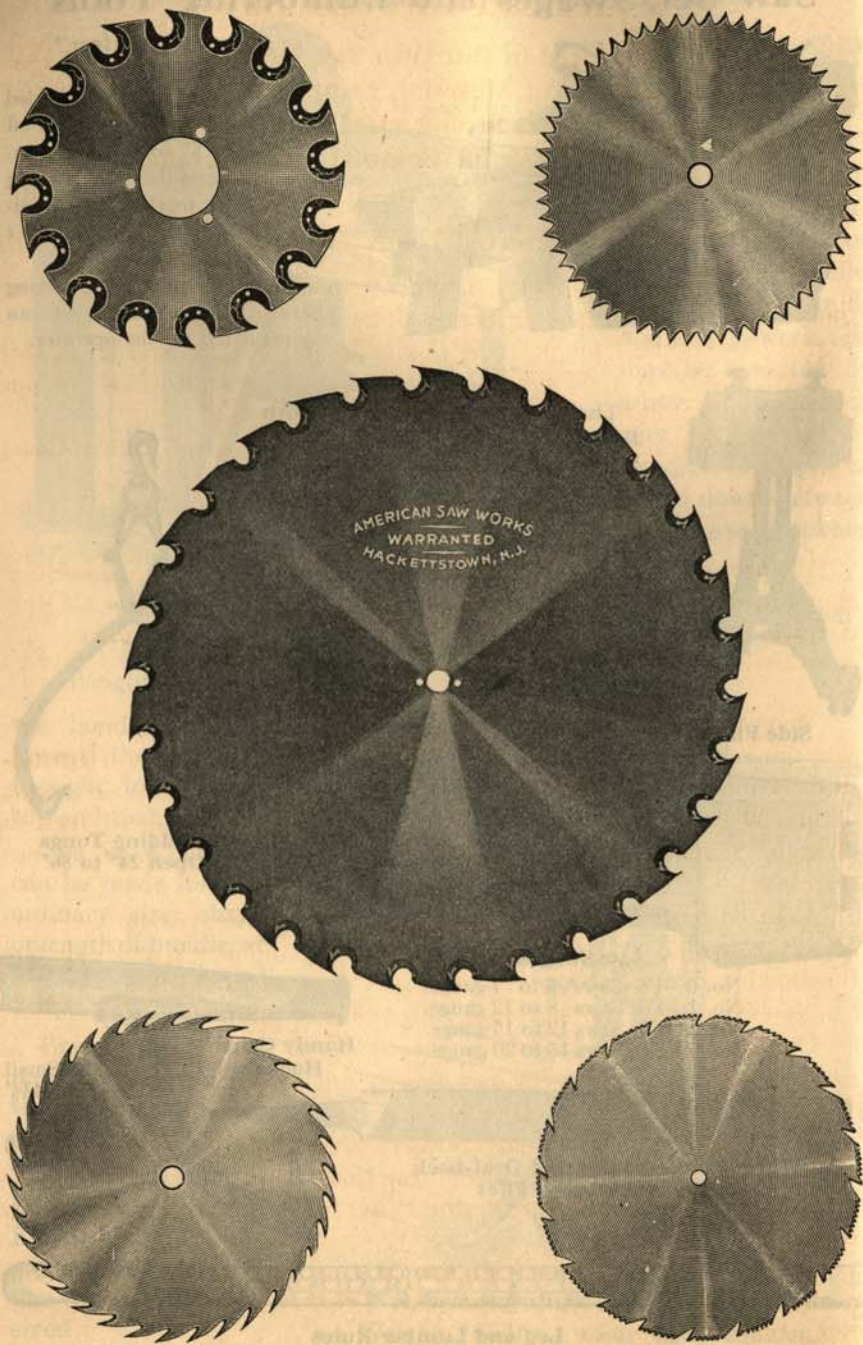
Handy Cant
Hooks

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



Log and Lumber Rules

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.