

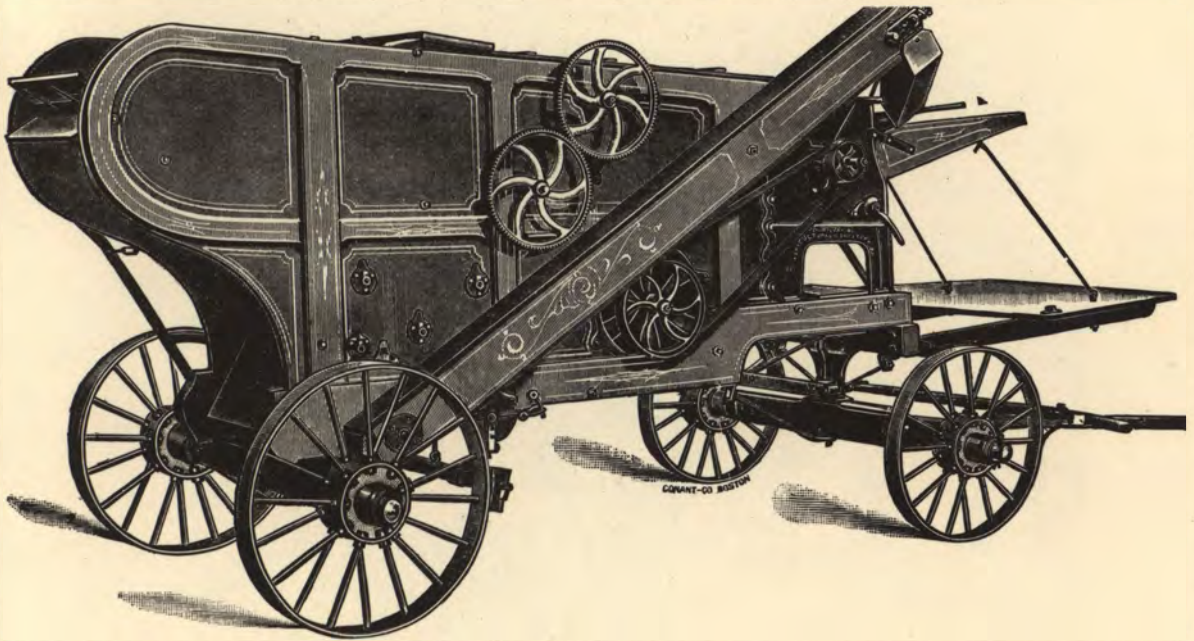
1899.

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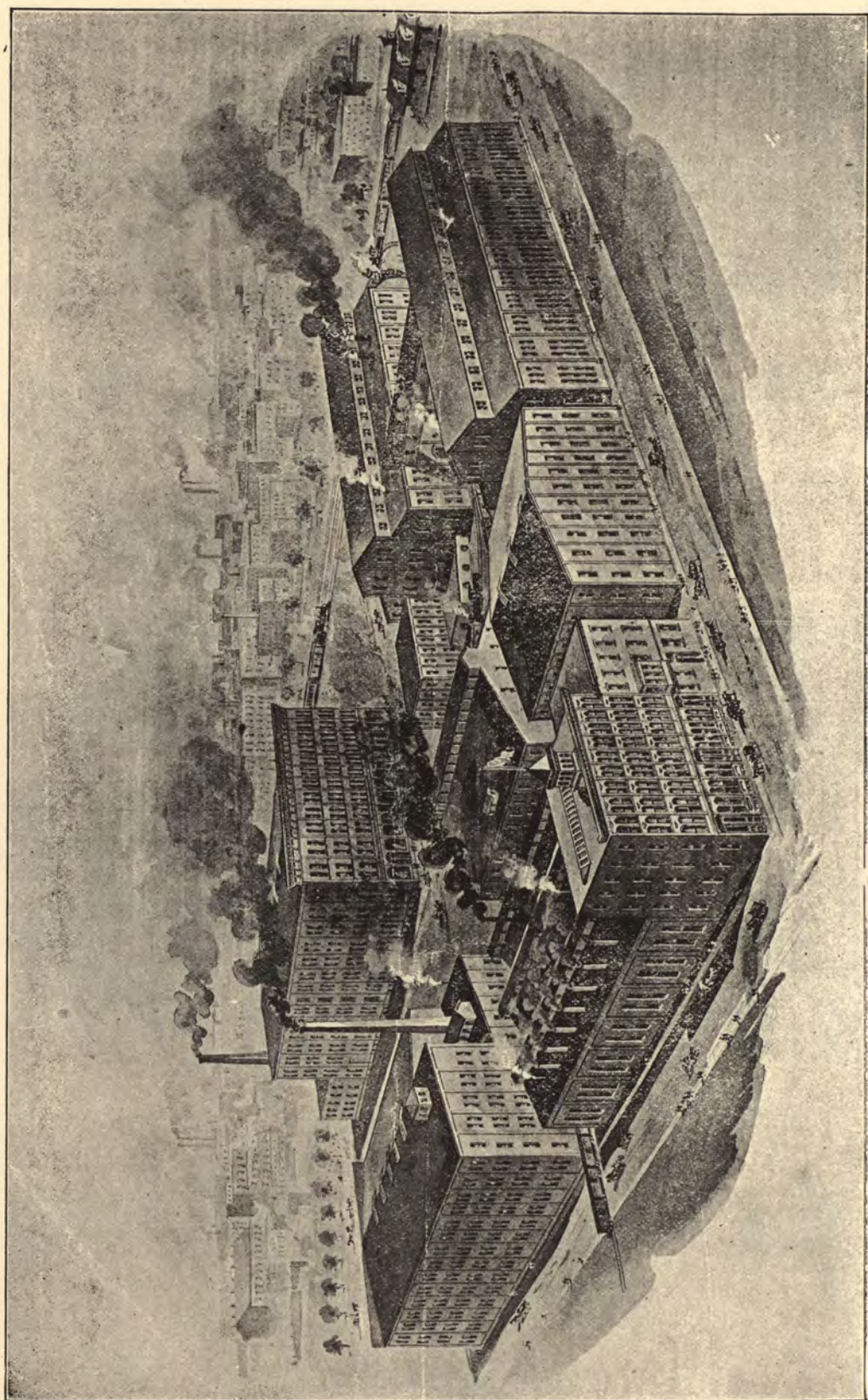
All Former Catalogues of Threshing Machines Are Hereby Annulled

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Engines, —  
Threshing Machines,  
— Horse Powers.



A. B. FARQUHAR CO., Limited,  
YORK, PENN'A.



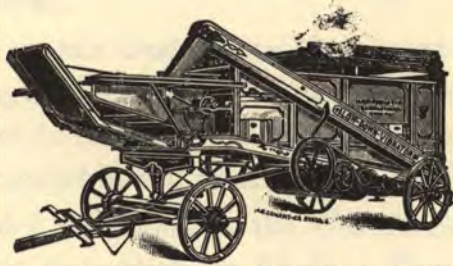
1899.

All Former Catalogues of Threshing Machines Are Hereby Annulled

Illustrated and Descriptive Catalogue

...OF...

Threshing Engines,  
Threshing Machines,  
Horse Powers.



A. B. FARQUHAR CO., LIMITED,

YORK, PENN'A.

# INTRODUCTION.



**W**E take pleasure in offering our friends and patrons our Threshing Machine and Threshing Engine Catalogue for 1899. Our Vibrator Separators, Rake Separators and Engines have been so near perfect it has been difficult to make any improvements, but we have made some slight changes in the 1899 machines that assure their standing at the head of the list, for capacity, cleaning power, lightness of running and durability.

The large number of testimonials we can furnish prove our claim.

Every season large amounts are invested in additional buildings and machinery, which we find necessary to keep up with our ever-increasing trade. We make the most approved agricultural implements and machines, and always endeavor to keep up with the times, making it a rule never to put any implement upon the market until WE KNOW it is the best.

Every article bearing our brand is fully warranted, and our trademark will protect from imposition and insure repairs free of charge in case of unforeseen defect.

We have built up our business to its present status without employing traveling agents, preferring to give our customers the advantage of what is spent in that way by other manufacturers in increased quality of our workmanship and materials.

We were awarded premiums at the World's Fair, as well as at the Centennial and Paris Exposition, on Engines, Threshing Machines and Saw Mills.

We will endeavor in the future, as in the past, to merit your liberal patronage, and thanking you for your past favors,

We remain, respectfully,

**A. B. FARQUHAR CO., Limited.**

**ORDERS.** A hearty welcome is extended our customers who may desire to call in person,—but we adhere strictly to our rule to do just as well by those who order by mail. To insure prompt shipments, orders from strangers should be accompanied by cash or satisfactory reference.

Full shipping directions should be sent with order, but when choice is left with us, we always attend personally to selecting the route and obtaining best rates of freight (either by New York, Philadelphia or Baltimore).

Goods shipped by water will be insured when so directed, and premium charged in bill, or will accompany freight charges. No charge is made for packing or drayage, except where goods are knocked down for export shipment requiring extra labor. All goods will be delivered free on board cars, at our factory, and in all cases must be at purchaser's risk—after shipment—the carrier alone being held responsible, if loss or delay occurs.

Careful attention given to contract work for special purpose. Competent draughtsmen constantly employed to make drawings and estimates.

**TERMS.** Our terms are 30 days, in current funds. Orders from parties unknown to us must be accompanied by the cash or satisfactory references. We do not consign or send out goods unsold. Remittances may be made by Check, Draft (New York preferred), Postal Order, or by Express, prepaid.

We have found the cash system, or part cash and good security for balance, indispensable, in order to avoid taxing responsible customers for what is lost by the irresponsible, and to enable us to keep down the price of our goods while keeping up the quality to the highest standard.

**WARRANTEE.** All articles manufactured by us are warranted to be well made and of good material—and in no instance will be taken back, except in case of imperfection which we fail to correct. A fair trial, say one week, is allowed after receipt of property, and any dissatisfaction upon the part of lessee or purchaser must be made known to us, or our agent, within that time, and opportunity be given to make it as represented; in case of failure the property will be replaced, or if returned payments will be refunded.

Our facilities for manufacturing are such that we can usually promptly execute all orders for machinery, whether of wood, iron, or steel. All inquiries will be answered to the best of our ability.

Respectfully,

A. B. FARQUHAR CO., LIMITED.

# Farquhar's Improved PATENT THRESHING MACHINES.

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**WARRANTED EQUAL TO ANY IN USE.**

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No machine is of greater importance to the farmer than that which saves his grain crop. It will always pay him to get the best. For over forty years we have made the manufacture of threshing engines a specialty ; indeed, we have the reputation of being the oldest living manufacturers in that line, and having expended thousands of dollars in experimenting and perfecting them, we are now able to offer an outfit that we will warrant equal, or superior, to any on the market in durability, light draft, simplicity, perfect operation, mechanical construction and general efficiency.

We make many different kinds and sizes, as shown by engravings in this catalogue, but all of them belonging to one family, and may be designated by the following characteristics. The cylinders are made of steel and the teeth of extra quality steel, fastened in by screws and nuts. Side plates and all parts liable to wear or break are iron and steel. Shafts and pinions are steel. Boxes are genuine anti-friction metal and self-oiling. Machines can be arranged either for belt or gear. All of them have our patent device for preventing dust, which feeders will appreciate, and the concaves of all are adjustable. In short our machines possess many special features of merit besides combining the advantages of others and are very durable with fair usage.



**THE FARQUHAR SEPARATOR AHEAD!**

At the Centennial Field Trials, held July 18th to 22d, 1876,  
at Schenck's Station, Pa.

# THE FARQUHAR SEPARATOR,

Exhibited at the Centennial, received the medal and highest award of merit as shown by the following report of the Judges:

## INTERNATIONAL EXHIBITION.

PHILADELPHIA, 1876.

The undersigned having examined the Farquhar Separator, respectfully recommend the same to the United States Centennial Commission for award for the following reasons, viz.:

For great strength, simplicity of construction, efficiency, and for the following specialties:

Peculiar form of threshing drum and concaves, the teeth being so shaped as to avoid breaking the grain. For vibrating carrier, composed of ribbed sheet iron with projecting notches, with open spaces for the passage of the grain to conveyer. For the agitators which shake the grain from the straw. For the adjustable self regulating fan, and for the measuring hopper.

JOHN COLEMAN, *Judge.*

Approval of Group of Judges.

JOHN P. REYNOLDS,  
JAMES BRUCE,  
EKEDA KENZO,  
E. OLDERDORFF.

A true copy of the record.

FRANCIS A. WALKER.

Given by authority of the United States Centennial Commission.

A. T. GOSHORN,  
*Director-General.*

J. L. CAMPBELL,  
*Secretary.*

J. R. HAWLEY,  
*President.*

The following are the only machines that developed a high rate of threshing:

|                  | Size.   | Size Cylinder of Thresher. | Weight of Sheaf Wheat Threshed. | Time.       |
|------------------|---------|----------------------------|---------------------------------|-------------|
| Farquhar . . . . | 6 horse | 30 inch                    | 2000 lb.                        | 14½ minutes |
| Geiser . . . . . | 10 "    | 34 inch                    | 2000 "                          | 16 "        |
| Westinghouse . . | 10 "    | 36 inch                    | 2000 "                          | 15½ "       |

It will be seen that the two machines with which we were in closest competition, were each two sizes larger and were driven by 66 *per cent.* more power than the "*Farquhar*," but, with these odds against us, we beat the time of one by 7, and the other by 10 per cent.

## THE FARQUHAR SEPARATOR

Took the highest prize awarded Separators—The Silver Medal—at the Paris Exposition; and drew the highest prize at the Field Trial, on account of its lightness of draft, rapidity, and economy of work. *The machine was sold on the ground.*



### THE FARQUHAR SEPARATORS

Are fast taking precedence, and they are acknowledged the leading machines wherever they have been introduced.

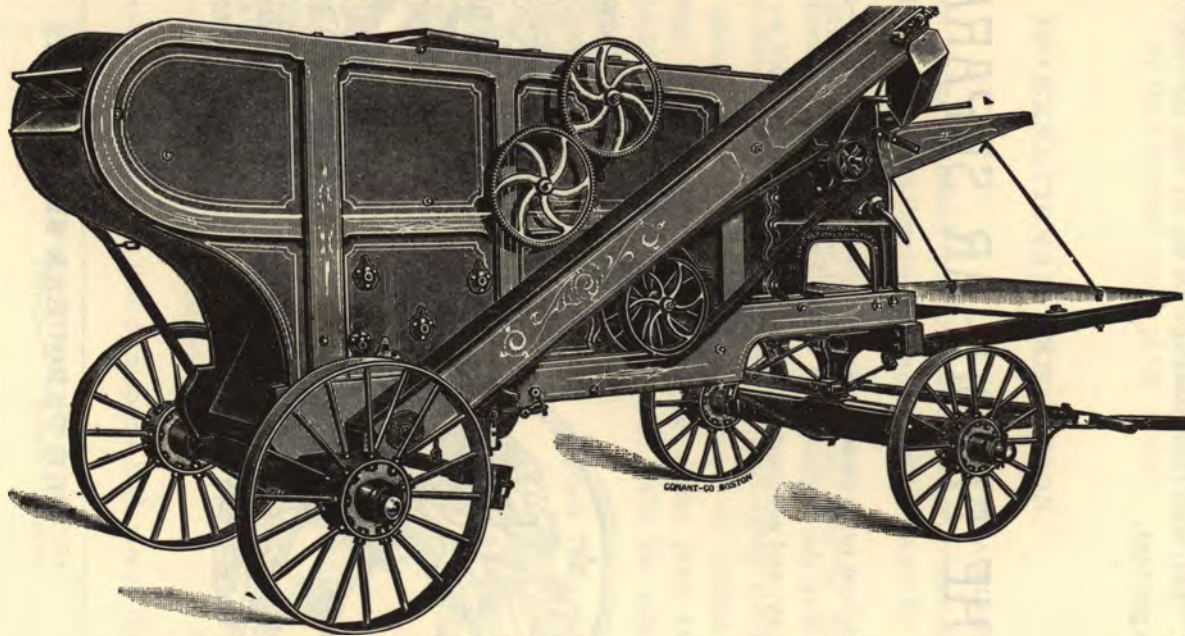
They are now being sold throughout Europe, Australia and South America, as well as in all parts of the United States.

Shall be pleased to send a copy of testimonials upon application.

# FARQUHAR'S Rake Separator or Thresher and Cleaner

WAS AWARDED THE MEDAL AND HIGHEST DIPLOMA AT THE CENTENNIAL AND WORLD'S FAIR.

WARRANTED ONE OF THE MOST DURABLE, LIGHTEST OF DRAFT AND MOST EFFICIENT IN THE WORLD.



Separators furnished with Reversible Straw Stackers to mow or stack the straw on either side of the machine, when desired. It Threshes, Separates, Cleans and Bags ready for market. Wastes less grain, runs lighter, is stronger, more complete and durable, and less liable to get out of order than any other. Chain is now used instead of belts, being more durable and giving less trouble. The cranks are made of malleable iron or steel and cannot be broken.

## DESCRIPTION OF Farquhar Rake Separator.

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The Thresher and Cleaner, or Separator as its name indicates, is designed to complete the process of saving the grain; first threshing it, then separating from the straw, then cleaning it, and lastly, bagging it ready for market.

Farmers want a machine that will thoroughly thresh, separate and clean all kinds of grain, no matter what its condition. We have spent many thousands of dollars and a vast amount of brain labor before the present perfect machine was produced. Our next effort was directed to lessening the complications of parts and divesting the machine of all superfluous attachments, and in this we have been eminently successful.

Our Rake Separator has few belts and little gearing, consequently is remarkable for its durability, simplicity and light draft. They are all, except the smallest size, arranged so that the front wheels pass under the machines, enabling them to turn around in a short space. The wheat is delivered from spout in the most convenient place near the centre of machine, and comparatively every grain that passes through the cylinder is caught in the bag or measure, no waste anywhere.

The thresher cylinders are made of the best steel. The steel teeth are all threaded and fastened with nuts. The shaft is steel and runs in self-oiling anti-friction metal boxes, and suited to either gearing or belt.

The concaves are made of steel like cylinder bars and are arranged with blanks, suiting all kinds of grain. Spikes are all interchangeable and screwed with nuts. They are adjustable to the cylinder by a self-sustaining cam and can be moved up or down without stopping machine.

The combs and rollers can be regulated and adjusted by a small lever on the left side of machine. The cranks are now made of malleable iron or steel, and cannot be broken. The advantage of this will be recognized by all threshermen.

No dust is thrown in face of feeder by this machine. The construction of the cylinder cover, (peculiar to our thresher, and patented,) sends the dust back with the chaff, where it belongs.

The separating parts are counterbalanced, allowing machine to rest perfectly steady, and the straw is so thoroughly shaken up, it is impossible for grain to pass over.

The Tailings Elevator is simple, durable and cannot be choked, the working parts are made of malleable scrapers and chain. There is a screen in the bottom of elevator which sifts out the cockle, chess-dirt and other impurities.

The stacker will carry away the straw, and if desired, both the chaff and straw. It is of approved pattern.

**Stackers are not sent with our Rake Separators unless specially ordered.**

Our machines are constructed upon scientific principles and of the best material, and no pains are spared in workmanship. Both wood and steel are well protected by the best paint.

When horse-power is used, the geared machine, (i. e., connected with horse-power by gear,) possesses many advantages, among which are the following: All the power of the team is directed upon thresher, and there can be no loss by slipping, as with belt, consequently the machine will do more work or run easier, doing the same work. Where parties use horse-power we would recommend gearing, and where a horse-power outfit is ordered we always send geared machine unless belt is specified.

The capacity of our Rake Separator is very great and much larger than we claim, as can easily be demonstrated by the numerous testimonials we can furnish upon application.

All our Rake Separators are framed on sills and may be used with or without wagon or trucks, but we recommend their always being mounted on wagons.

Front wheels of our wagon, except No. 4, pass under the machines and are provided with thimble skeins.

We have again largely increased our capacity for manufacturing, and feel confident all orders we are favored with can be promptly filled.

Cylinders of Rake Separators should be run from 1300 to 1350 revolutions per minute.

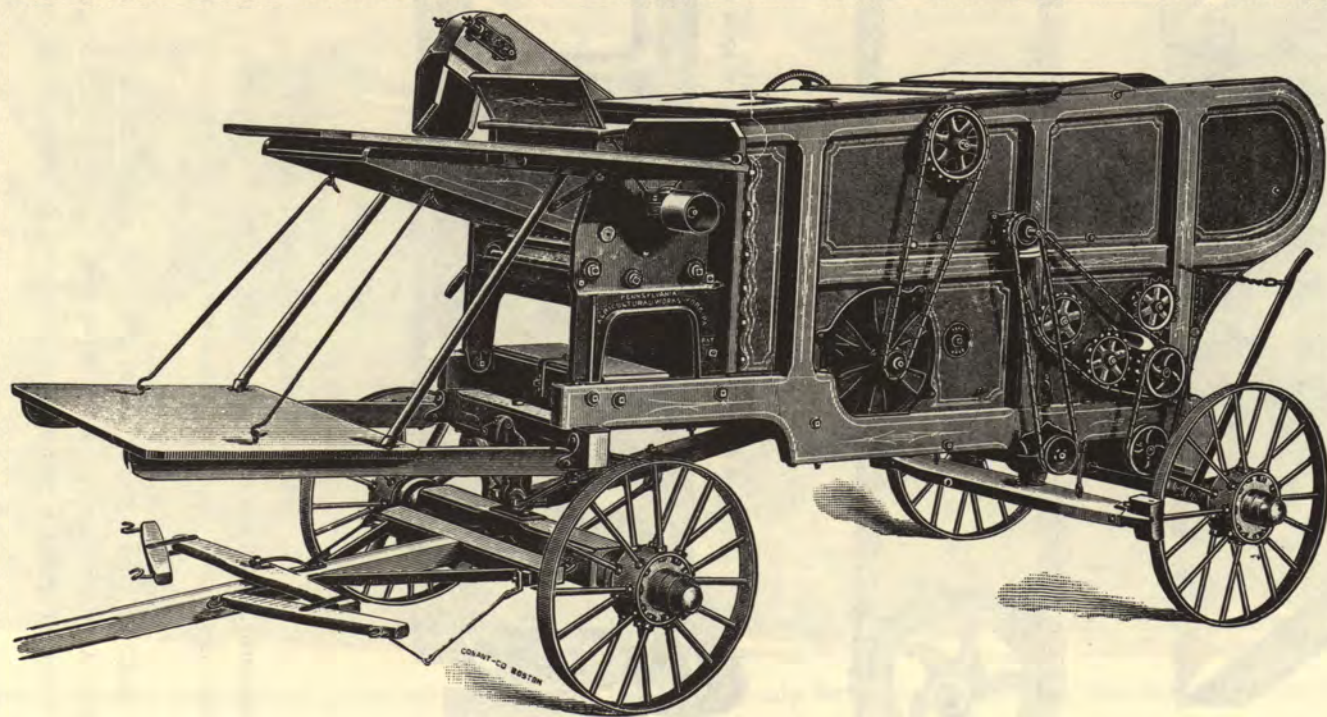
Following are the different sizes:

No. 2—Rake Separator, 30-inch cylinder for 6-horse power, capacity 50 to 75 bushels of wheat or 75 to 125 bushels of oats per hour; estimate weight 2900 pounds.

No. 3—Rake Separator, 26-inch cylinder for 4 to 6-horse power, capacity 30 to 50 bushels of wheat or 40 to 100 bushels of oats per hour; estimate weight 2700 pounds.

No. 4—Rake Separator, 22-inch cylinder, 4 to 6-horse power, capacity 20 to 40 bushels of wheat or 30 to 60 bushels of oats per hour, estimate weight 2050 pounds.

# FARQUHAR Rake Separator Threshing Machine.



FOR HORSE POWER OR ENGINE.

# CHAIN BELTS.

Our Malleable Iron Chain Belts have been found a great improvement upon the cog gearing or leather or gum belts, running more quietly and less apt to break than the former, while they are more durable and efficient than the latter.

The chain belt cannot slip and will not wear or break in ordinary use, but in case of accident a new link can be substituted in a moment, as illustrated in engraving below. Extra links are sent with the machine.

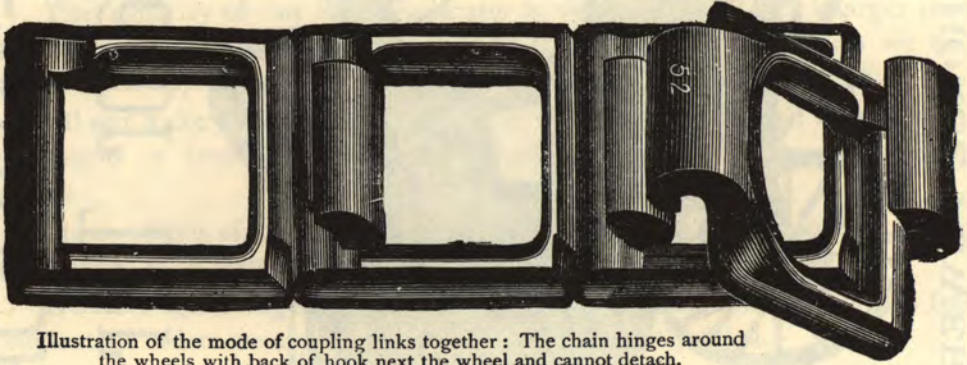
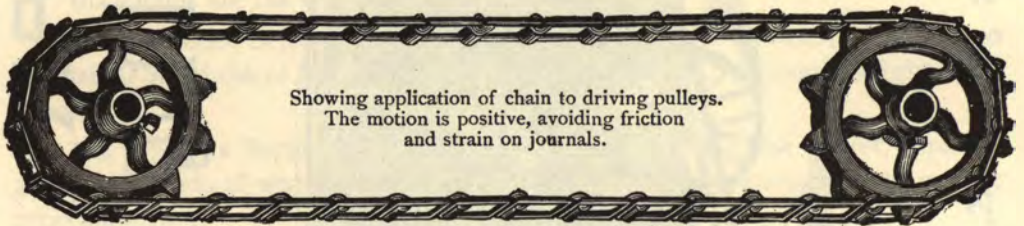
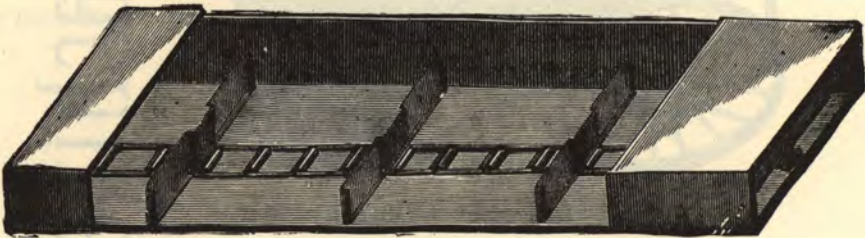


Illustration of the mode of coupling links together : The chain hinges around the wheels with back of hook next the wheel and cannot detach.



Showing application of chain to driving pulleys.  
The motion is positive, avoiding friction  
and strain on journals.



Tailings Elevator and Scraper Attachment.

## FARQUHAR'S RAKE SEPARATOR OR THRESHER AND CLEANER WITH MOUNTED HORSE POWER COMPLETE.

Was awarded the Medal and Highest Diploma at the Centennial, and also at Paris Exposition.

Warranted one of the most Durable, Lightest of Draft, and most Efficient in the World.



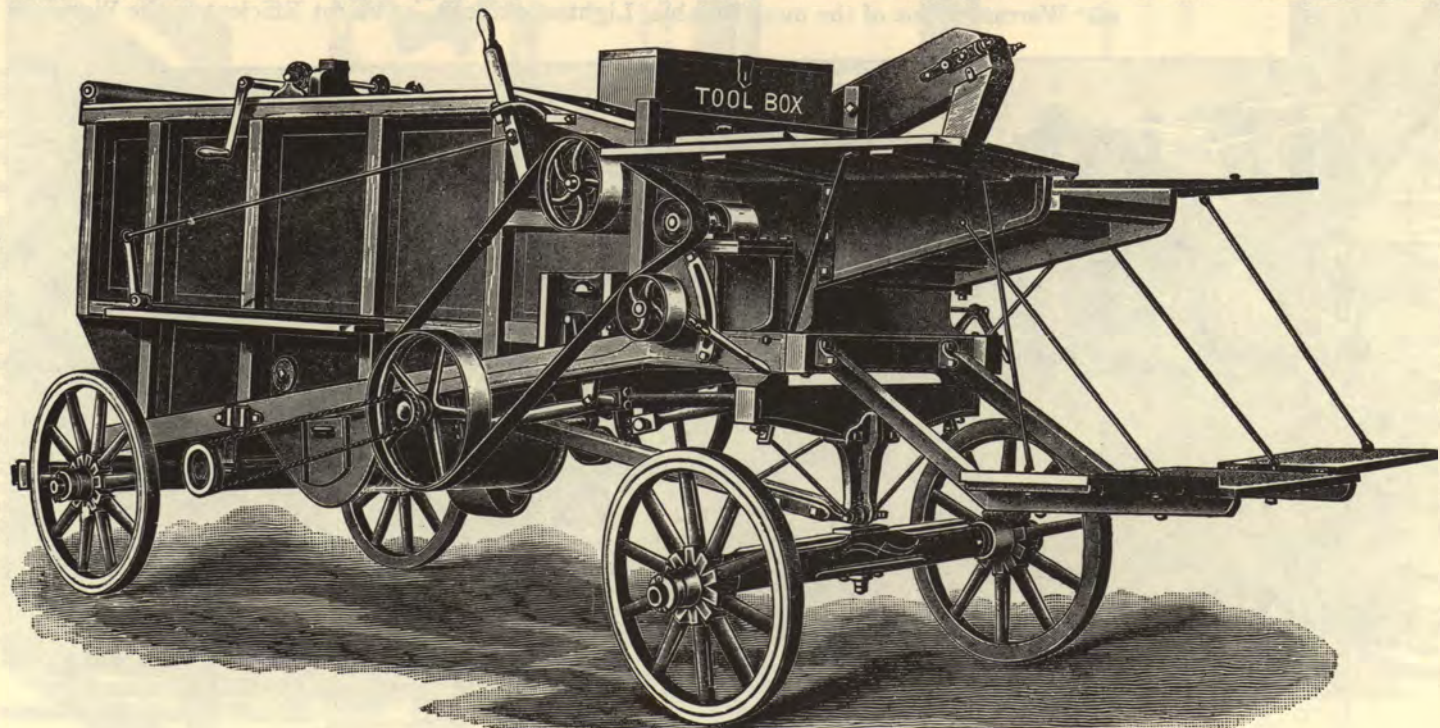
The above cut shows the machine geared with the Climax Power and ready for work, with Tailing Elevator and Straw Stacker.

A Shute Attachment furnished in place of Stacker, when desired.

It Threshes, Separates, Cleans and Bags ready for market ; wastes no grain ; is strong, light and durable.

# Farquhar Low-Down Vibrator Separator.

Furnished with Steel or Wood Wheels, as ordered.



LEFT SIDE.

Separators furnished with Reversible Straw Stackers to mow or stack the straw on either side of the machine, when desired.

## DESCRIPTION OF FARQUHAR Low-Down Vibrator Separator.

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For threshing upon an extensive scale, we claim the Farquhar Vibrator has no superior. Testimonials in its favor are so strong that some of them seem incredible. It is acknowledged to thresh more rapidly, saving all kinds of grain and delivering it in better condition, than most of the machines offered. It threshes all kinds of grain in the most perfect manner, cracking and wasting none. Combined with the Ajax Portable Threshing Engine, "Pennsylvania" Traction Engine or Farquhar Dingee Horse-power—the best Horse-power made for threshing) a perfect rig is the result.

The front wheels pass under the sills, thus admitting short turn. Concaves are raised and lowered by a lever and ratchet device, and they should be run as low as possible to thresh grain out of head. Three concaves fitted with teeth 3 inches long and two special blanks are furnished with each machine, and the toughest grain can be threshed by using all the concaves, but when grain is dry and in best condition to thresh, it can be done by two special blanks and one row of teeth in the third concave, cylinder will then require less power. Blank concaves are specially designed with regard to separation of grain at the cylinder. A winged beater is so situated as to effectually stop all flying grain. The straw passes from the beater evenly over an open slat worked bottom so arranged as to thoroughly shake out every grain. The separation of the grain commences at front of concaves, and continues to the extreme end of the machine.

The separating attachment is constructed on the vibrator principle, which has been demonstrated to be the best. The vibrating parts are so supported upon swinging hangers as to give the easiest, and at the same time, the most efficient movement for the purpose of separating the grain from the straw. The movement of the vibrating parts is so adjusted that they balance each other, allowing machine to set steady. This part of the machine, which is generally so complicated as to give endless trouble, is in our Separators perfectly simple.

Main belt from Engine to cylinder pulley can be easily taken off without unlacing, by loosening two bolts. The grain is delivered to the fan by an iron conveyor which extends back under the concave to the shoe of the fan, the outer end being provided with a coarse sieve, which prevents rough stuff and straw falling on the riddles of the fan.

The machine is counterbalanced and stands firm without bracing. The cylinder has twelve bars with spikes 3 inches long. The separating capacity is very large and the machine cannot be crowded; it will take care of all the grain that can be put through the cylinder.

The Tailings Elevator is furnished with malleable scrapers and chain. The tailings are conveyed from the rear of the shoe to the elevator by a steel screw. Spikes and shafts are made of steel and all parts of the machine fitted up and finished in the best possible manner.

Baggers are furnished when ordered and can be used on either side of machine, having a double discharge from the top. One bag can be put on while the other is filling. It has a cut-off to change the grain to either spout.

The wheels are made of steel or wood as desired. The folding feed tables are arranged on both sides. The feeder's platform is low to the ground, enabling feeder to get up and down easily and quickly. It is much lower than any of the old styles on the market. This low height all practical threshermen recognize to be an immense advantage in moving from one place to another, especially in hilly countries; there is much less labor pitching bundles to the table than if cylinder was 7 feet high, as is often the case, more work can be done by the same men.

Where necessary, belt tighteners are used, thus avoiding slipping of belts and insuring regular power. Vibrators with cylinders over 24 inches wide can be driven from either side.

Uncle Tom's Wind Stackers are furnished with machine when ordered at established prices.

Cylinder of Vibrator Separators should be run 1,125 revolutions per minute.

We build Vibrator Separators in seven different sizes, and with the machines are sent 18 or 20 feet hinged stacker and hoisting rig, tailings elevator with feeder's platform, side tables, all belts except main belt from Engine to cylinder, sieves for wheat, oats, barley and cheat screen; wrenches, oil can and usual extras; whiffle-trees and neck yoke.

Following are the different sizes:

No. 16 Vibrator—Cylinder 40 inches by 22 ½ inches, over spikes; separator 58 inches wide, estimate weight 5,800 pounds.

No. 14 Vibrator—Cylinder 36 inches by 22 ½ inches, over spikes; separator 52 inches wide, estimate weight 4,700 pounds.

No. 12 Vibrator—Cylinder 33 inches by 22 ½ inches, over spikes; separator 49 inches wide, estimate weight 4,400 pounds.

No. 10½ Vibrator—Cylinder 30 inches by 22 ½ inches, over spikes; separator 45 inches wide, estimate weight 4,300 pounds.

No. 10 Vibrator—Cylinder 27 inches by 22 ½ inches, over spikes; separator 41 inches wide, estimate weight 4,100 pounds.

No. 8 Vibrator—Cylinder 24 inches by 22 ½ inches, over spikes; separator 35 inches wide, estimate weight 3,600 pounds.

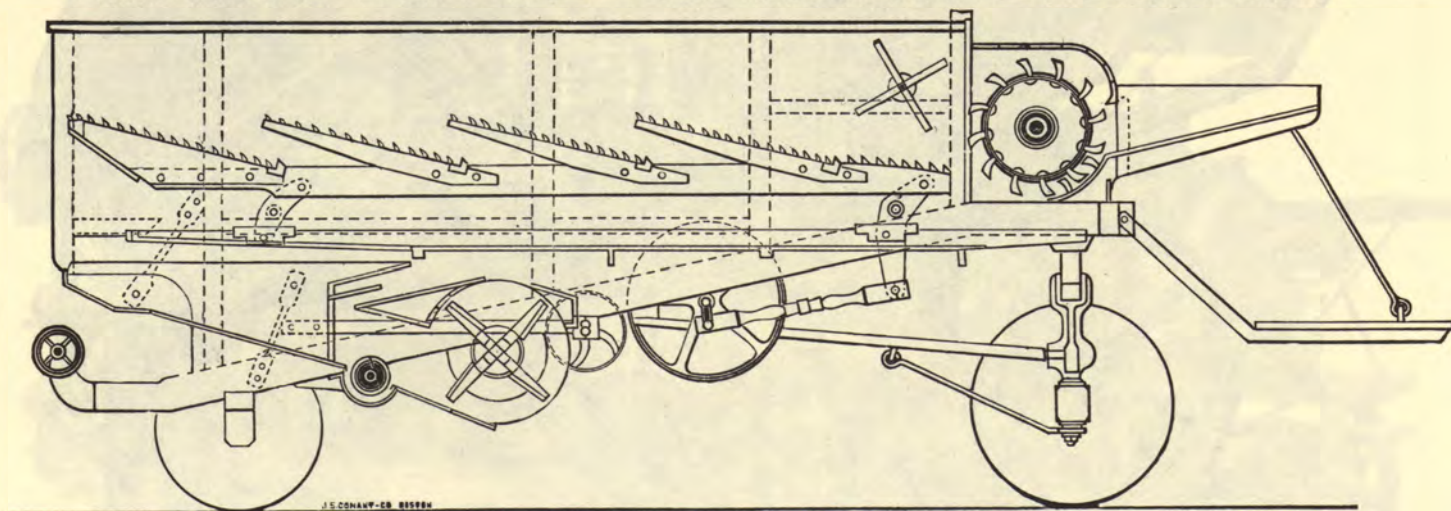
No. 6 Vibrator—Cylinder 20 inches by 22 ½ inches, over spikes; separator 31 inches wide, estimate weight 3,200 pounds.

At a slight additional cost we can furnish a Clover Huller Attachment for our Vibrators, which has been thoroughly tried and proved to be a success for hulling small crops.

# SKELETON VIEW

...OF...

## FARQUHAR LOW-DOWN VIBRATOR.



Showing Position of Shaker or Straw Agitators, also Cylinder, Grain Table, Fan, and various other working parts,

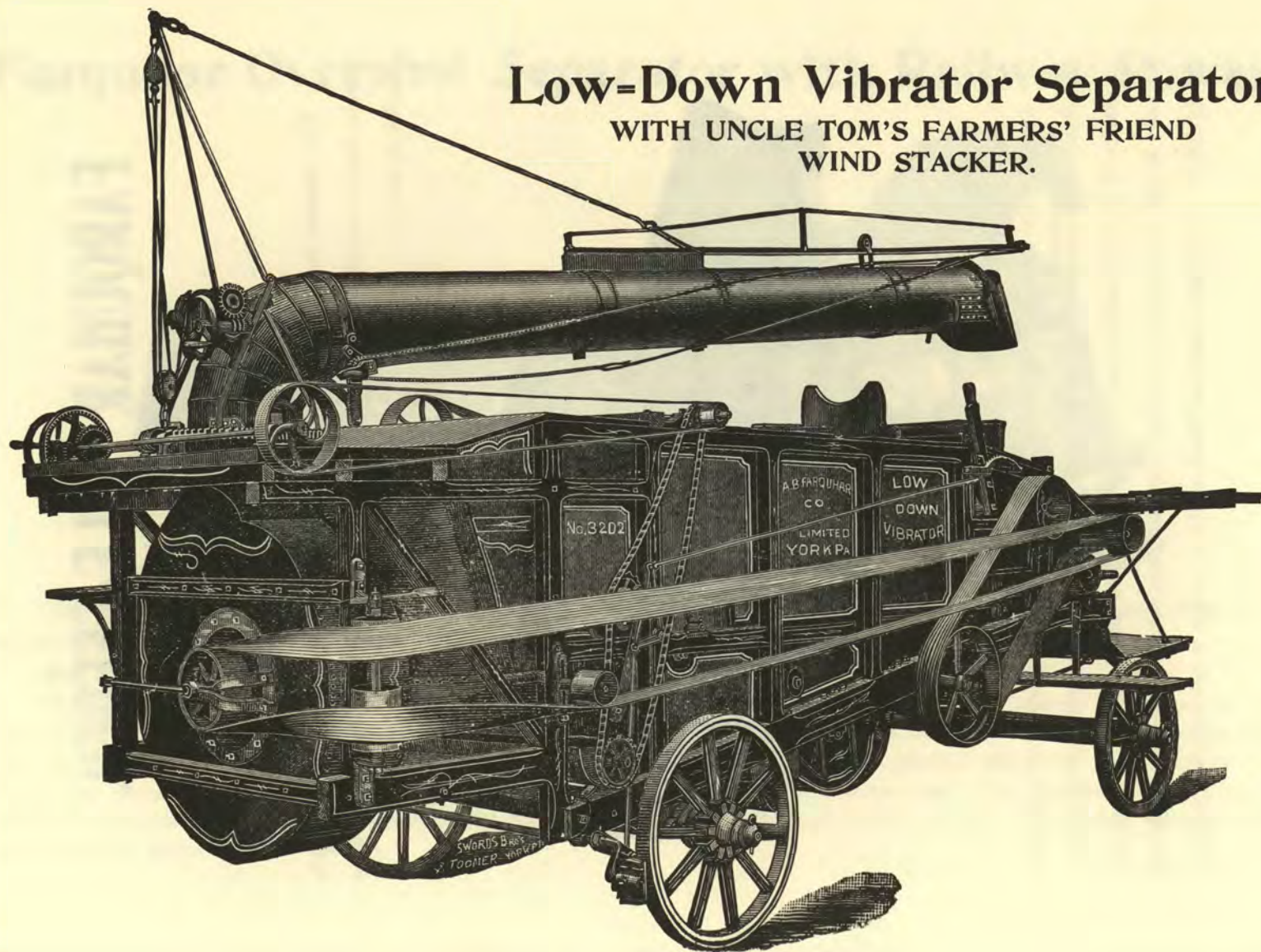


FARQUHAR LOW-DOWN VIBRATOR SEPARATOR, Right Side, Showing Bagger.

Our Bagger is as simple and perfect in operation as any in use. As with Self-Feeder, it is only furnished upon order as an extra.

# Low-Down Vibrator Separator

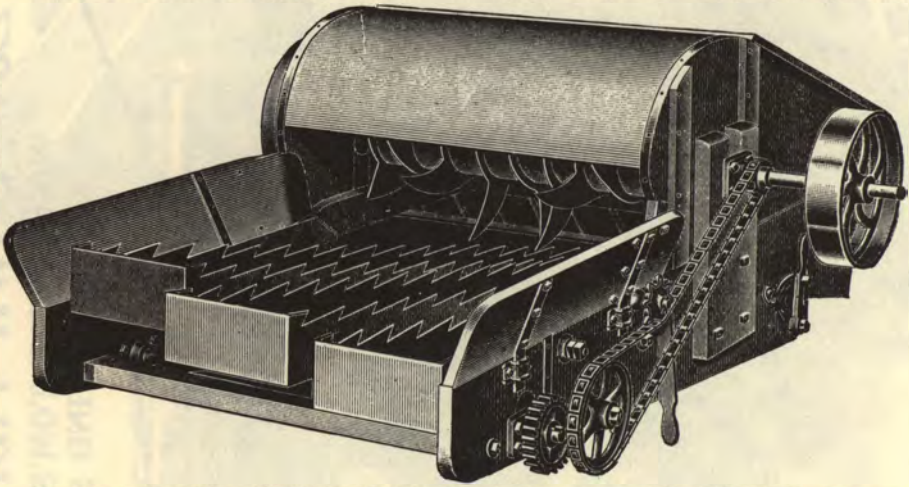
WITH UNCLE TOM'S FARMERS' FRIEND  
WIND STACKER.



# FARQUHAR SELF=FEEDER.

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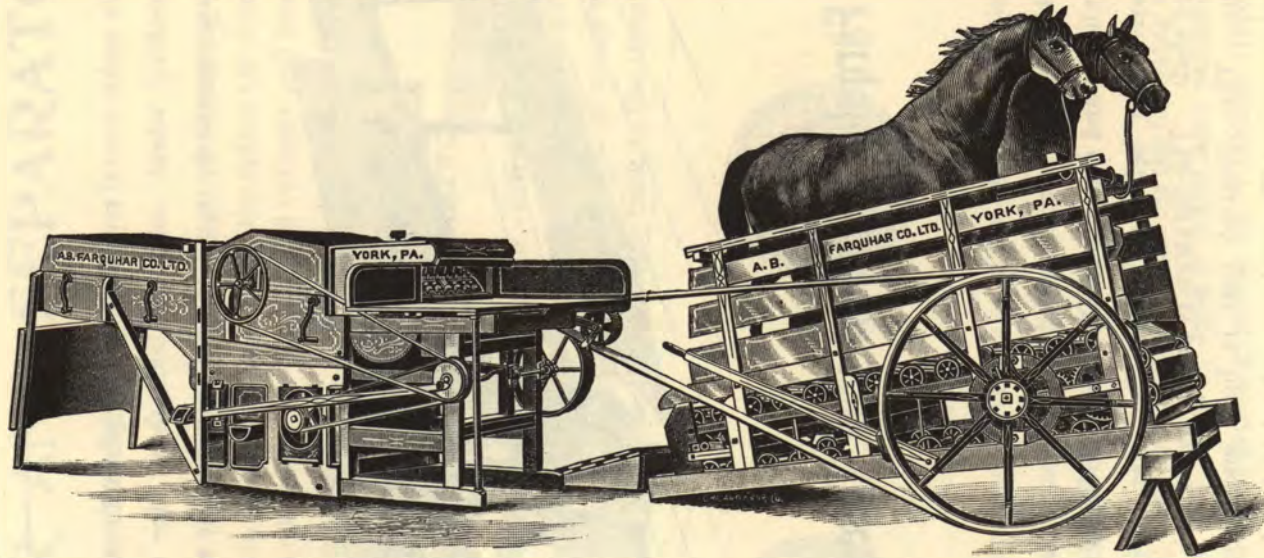
The demand for a Self Feeder is steadily increasing among threshermen, and to meet it we claim to have the simplest and most satisfactory Automatic Feeder in use.



Our Feeders have had the most thorough test both in this country, Mexico and South America, and has proved itself unrivalled in rapidity of operation, regularity of feed, durability and light draft. The Band Cutter is arranged not only to cut the bands but to distribute the unthreshed grain evenly across the cylinder. It is easily removed from machine and it is satisfactory in every way

# Farquhar Overshot Separator with Railway Power.

A. B. FARQUHAR CO., LIMITED, YORK, PA.



We furnish Overshot Separators either mounted on wagons or on sills, as shown in cut, and the Railway Horse Powers on sills or mounted on two or four wheel wagons.

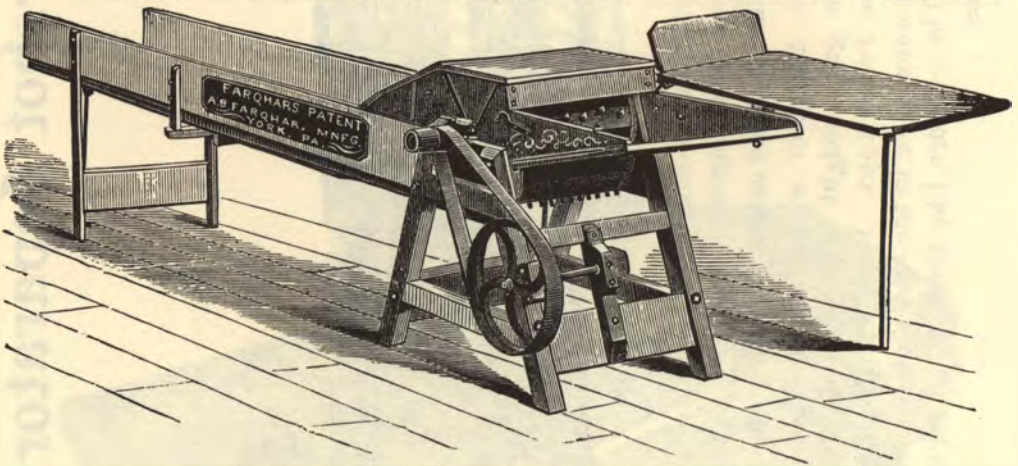
☞ Threshermen usually buy the mounted outfits, since they are more convenient to move about.

The capacity of our Overshot Separator with two horse power, is from 150 to 300 bushels of wheat a day, depending on the condition of the grain, weight of horses, etc. The weight of the outfit as shown in cut is about 3200 lbs., the Separator 1250, the Horse Power 1950. For simplicity, light draft, and general efficiency and durability we claim the Farquhar Overshot Separator to be in the lead of all of the machines in its class. The concave is easily adjusted while the machine is in motion. The cylinder, like those of all our machines, is made of steel. The fan is self-regulating and cleans the grain ready for market,

# PLAIN THRESHERS.

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We make several styles of open or plain Threshers, which are unsurpassed for threshing wheat, oats, rye, buckwheat, rice or any other kind of grain. They are extensively in use and are very popular where known.



## Farquhar's Patent Iron Threshing Machine.

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The Thresher is constructed precisely as in the Separator with iron sides steel cylinder and concave bars backed with wood and spikes of the finest steel. They are either belted or geared, the latter having STEEL PINIONS on the cylinder shaft. The SHAKER is driven by a crank secured to the frame of the machine. The vibrating part is light and strong and separates in a very thorough manner. The shaker can be detached from the machine in a moment and folds up in shipping.

# THE COMBINED THRESHER AND SEPARATOR

OR CLEANER FOR RICE,

Is in general appearance like the machine for threshing and separating wheat, but is built stronger to sustain the greater strain, and the spikes are differently shaped. There is more space between the concave and cylinder and less speed of cylinder, to avoid cracking the kernels; it is ample, however, to thoroughly thresh out the grain from the straw.

## THE SEPARATING AND CLEANING

is done in the same manner as in the wheat machine, delivering the rice perfectly clean ready for the hulling mill. It is in every respect a first-class machine, and gives perfect satisfaction. Every machine is provided with an improved Elevator to carry all unthreshed heads, etc., back to the thresher.



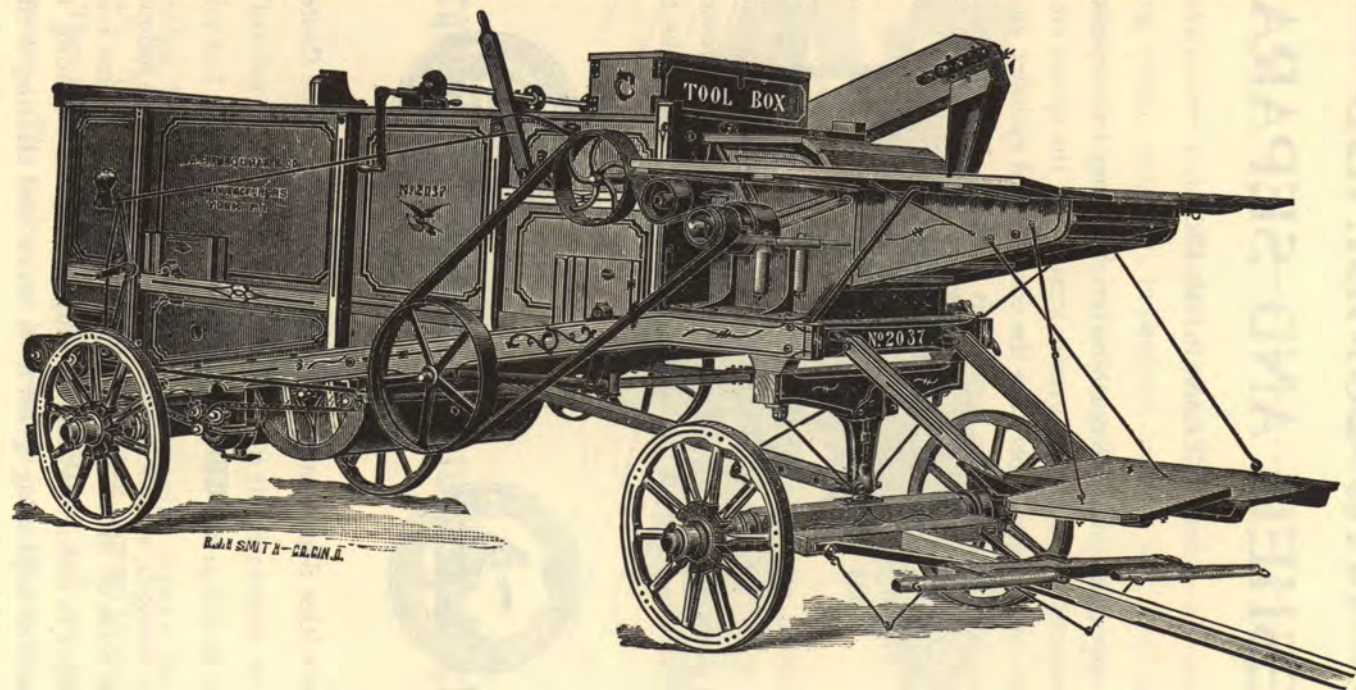
Farquhar's Rice Separator was awarded the Medal at the Centennial.

## REPORT OF JUDGES.

For great strength, simplicity, and efficiency, and for the following specialties: Peculiar form of drum and concave, *teeth of which have rounded backs and beveled edges* in order to avoid breaking grain; for vibrating ribbed iron carrier and mode of separating grain from straw and clearing it effectually of all impurities ready for the mill.

# Farquhar Vibrator Rice Separator

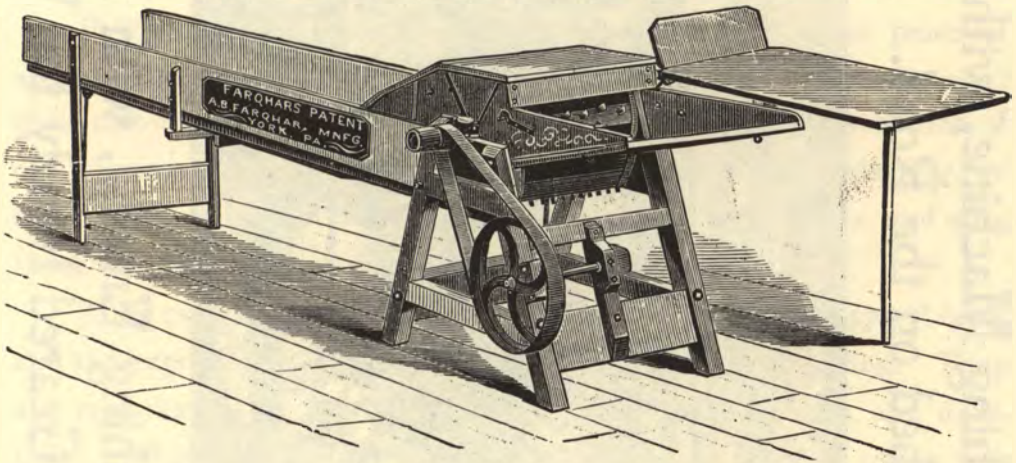
Is Recommended as the Best Rice Thresher in Use.



DOES NOT CRACK THE GRAIN, THRESHES CLEAN FROM THE STRAW, AND DELIVERS WITHOUT WASTE, CLEAN OF ALL FILTH, READY FOR THE MILL.

The Farquhar No. 3 Rake Separator is a first-class machine for small crops, and somewhat cheaper than the Vibrator.

# PLAIN THRESHER, FOR RICE, WITH PATENT SHAKER TO SEPARATE STRAW AND GRAIN.



## A STRONG WROUGHT-IRON CYLINDER THRESHER.

Made like the threshing part of the Separator. The Shaker, as its name signifies, shakes up the straw and permits the grain to descend through perforations in the bottom, but it does not clean out the chaff.

We also furnish these Threshers without the shaker to those who desire them so. But we recommend all to use the shaker, as it saves the labor of at least two hands. To induce purchasers to take the machine complete, we put the shaker and attachments at about cost.

We have long made the manufacture of Rice Threshing Machines a specialty, and claim that the Farquhar Rice Separators and Threshers will do better work than any other in the market.

Farquhar Vibrator Threshing Machine, with Traction Engine  
Attached on the Road.

58

A. B. FARQUHAR CO., LIMITED, YORK, PA.



Farquhar Vibrator Threshing Engine, with Farquhar Dingee  
Horse Power Geared Ready for Work.

# HORSE POWERS.

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The Horse Power is one of the most important implements, and most difficult to keep in order; too much care, therefore, cannot be used in selecting the very best.

Few persons can have had greater experience or closer practical acquaintance with Horse Powers than we have had. We commenced their manufacture over forty years ago, and have given this branch of our business the closest attention ever since, and, without boasting, we assert that we know what constitutes a good horse power, and offer those described in the following pages as the very best.

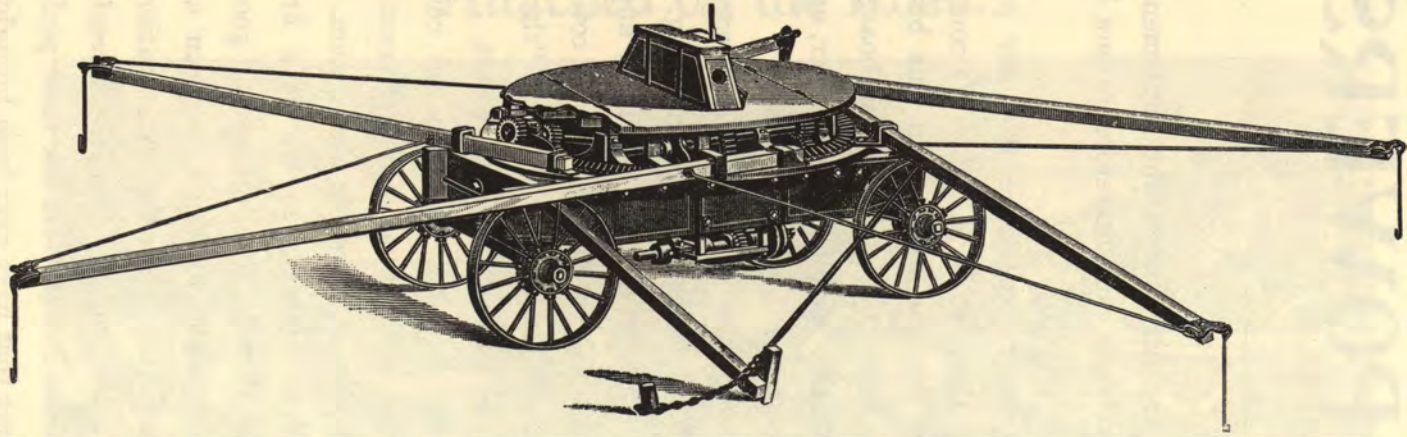
They rank among the best, being the result of many years' labor and the expenditure of thousands of dollars in experimenting. They are remarkable for light draft, simplicity, great strength, and durability. They are fitted up with as much care as a piece of cotton machinery or steam engine, and will last as long. The rule "the best is the cheapest," applies with special force to Horse Powers. By one breakage, a farmer frequently loses as much as the power costs. A cheap power is short-lived and but a continual source of vexation, besides requiring one or two extra horses to overcome the friction.

We have placed the price of our Powers as low as a first-class Power can be made, and have faith that the intelligence and good sense of the American farmers will enable them to decide between a really excellent and an inferior article. After a careful examination of the leading Horse Powers in use, we claim, without fear of successful contradiction, that "The Farquhar Horse Powers" are the most perfect machines for the transmission of power that have ever been brought before the public.

# FARQUHAR-DINGEE HORSE POWER

60

A. B. FARQUHAR CO., LIMITED, YORK, PA.



The Dingee-Woodberry Power is well known throughout the world, and has the reputation of being the best horse power in use.

The Power is double-gearred, thus reducing the strain and friction on the Bull or Master Wheel to a minimum.

It is remarkable for durability, ease of draft, and freedom from breakage. It is claimed as the lightest draft power in existence and is so simple that any boy can manage it. It is adapted to from six to twelve horses, and may be arranged to run any required speed. The Power is speeded about one hundred, unless otherwise ordered. It is warranted the best made in this country. Thousands of them are in use.

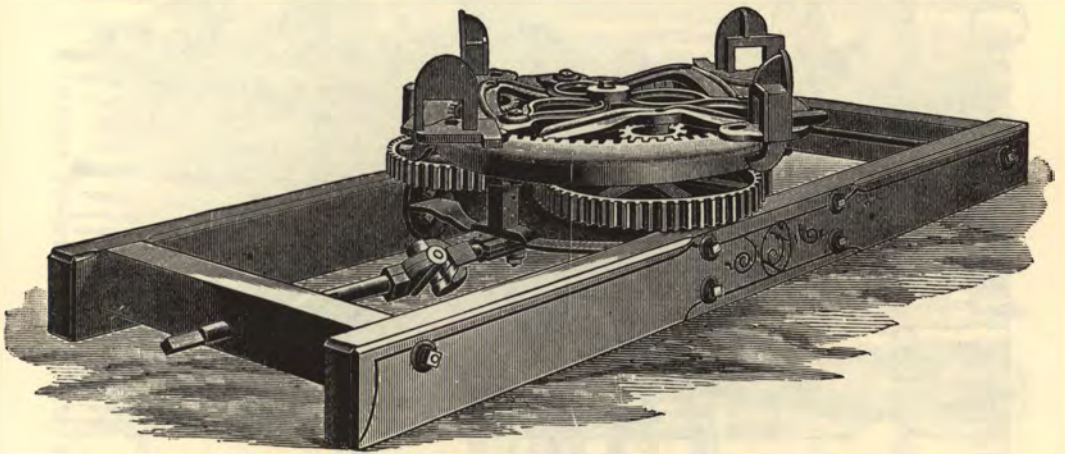
## FARQUHAR-DINGEE POWERS MADE IN THREE SIZES.

8-Horse Power on Four Wheels, complete.

10-Horse Power on Four Wheels, complete.

12-Horse Power on Four Wheels, complete.

## Farquhar's Patent Climax Triple-Geared Powers.



The Farquhar Climax Horse Power for threshing, ginning, and general farm use, ranks among the best, being the result of many years' labor and the expenditure of thousands of dollars in experimenting. It is remarkable for its light draft, simplicity, great strength, and durability. It is fitted up with as much care as a piece of cotton machinery or steam engine, and will last as long. The rule "the best is the cheapest," applies with special force to Horse Powers. By one breakage, a farmer frequently loses as much as the power costs. A cheap power is short lived, and but a continual source of vexation, besides requiring one or two extra horses to overcome the friction.

We have placed the price of our "Climax" as low as a first-class Power can be made, and have faith that the intelligence and good sense of the American farmers will enable them to decide between a really excellent and inferior article. After a careful examination of the leading Horse Powers in use, *we claim, without fear of successful contradiction, that "The Farquhar Horse Powers" are the most perfect machines for the transmission of power that have ever been brought before the public.*

The Climax power is Triple-geared, the strain being divided so as to prevent breakage or wear. The gearing is all connected by one strong iron frame, and there can be no derangement or decay.

The levers are so arranged that the strain of the team is thrown upon the iron stay-rods or braces, and can be taken off or put on in a moment, without loosening a bolt.

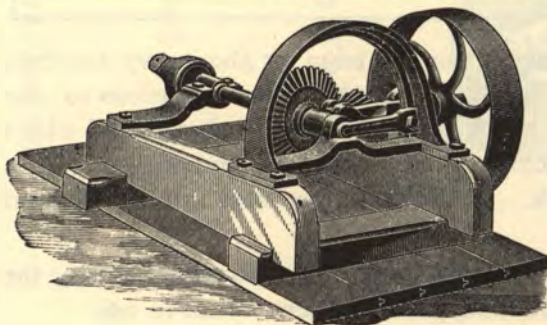
All of the boxes are self-oiling, and the whole machine is constructed with the precision of clock-work.

It is strictly portable, it may be moved and set ready for use in fifteen minutes by ordinary farm laborers.

The pinions are large and made of steel to prevent wear or friction. As steel pinions do not wear, these Powers always run smooth and light.

Medals and Diplomas of Merit were awarded A. B. Farquhar at the Centennial for Horse Power.

## HORSE POWER JACKS.



We do not recommend the use of Jack when it can be avoided, for the reason that a direct connection between the power and the machine, either by belt or rod, is the most economical in power. But where it is necessary, owing to the situation of the Power and to save digging pits for the large hand wheel, the Jack answers an admirable purpose.

### FARQUHAR'S UNIVERSAL JACK.

We recommend this as the best Jack in use, as the wheel may be set in any position, right or left, vertical or horizontal.



## CLIMAX HORSE POWERS MOUNTED ON WAGON.

Wheels do not have to be taken off to use—levers pass over. Can be set up in twenty minutes, ready for work. Powers mounted on wagon have a driver's seat, with place to carry levers, braces, shaft, pulley block, and everything belonging to the Power, and are furnished with single and double trees and neck yoke—a complete outfit. They are *quickly set* for use, requiring no lifting.

### LIST OF FARQUHAR'S PATENT CLIMAX TRIPLE-GEARED HORSE POWERS.

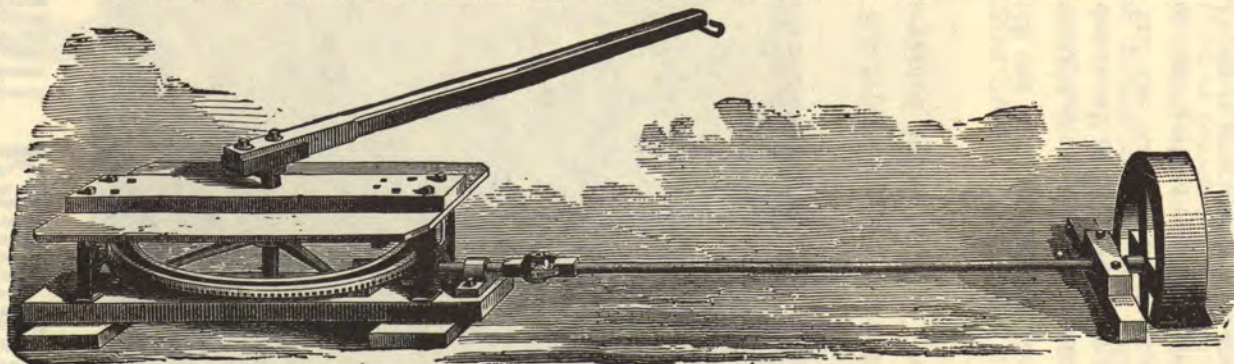
| No. of Power. | No. Horses suited for. | No. of Levers. | Down Powers, weight in lbs. | Weight on Wagon. |
|---------------|------------------------|----------------|-----------------------------|------------------|
| A 1           | 10                     | 5              | 2000                        | 2400 *           |
| A 2           | 8 to 10                | 4              | 2000                        | 2400             |
| A 3           | 6 " 8                  | 4              | 1900                        | 2200             |
| A 4           | 4 " 6                  | 4              | 1650                        | 1850             |
| A 5           | 3 " 4                  | 4              | 1400                        | 1600             |
| A 6           | 2 " 3                  | 2              | 1200                        | 1400             |

The shaft makes ninety revolutions to one of team, or about two hundred per minute, in all of these powers, except A 5 and A 6—72 revolutions to one of team in these two powers. Each power is furnished with shaft, band wheel and pulley block, or if for geared machine three extra shafts and connections in place of band wheel and pulley block. When Jack is ordered in place of band wheel \$5.00 extra will be charged.

Farquhar's Patent Climax Triple-Geared Powers are warranted among the best, strongest, *lightest draft*, most durable, and most economical in use.

# One and Two Horse Sweep Power,

FOR PUMPING WATER, CHURNING and OTHER LIGHT WORK REQUIRING SLOW MOTION



WE MAKE A LIGHT-RUNNING SWEEP POWER FOR ONE AND TWO HORSES,  
WITH STEEL PINION.

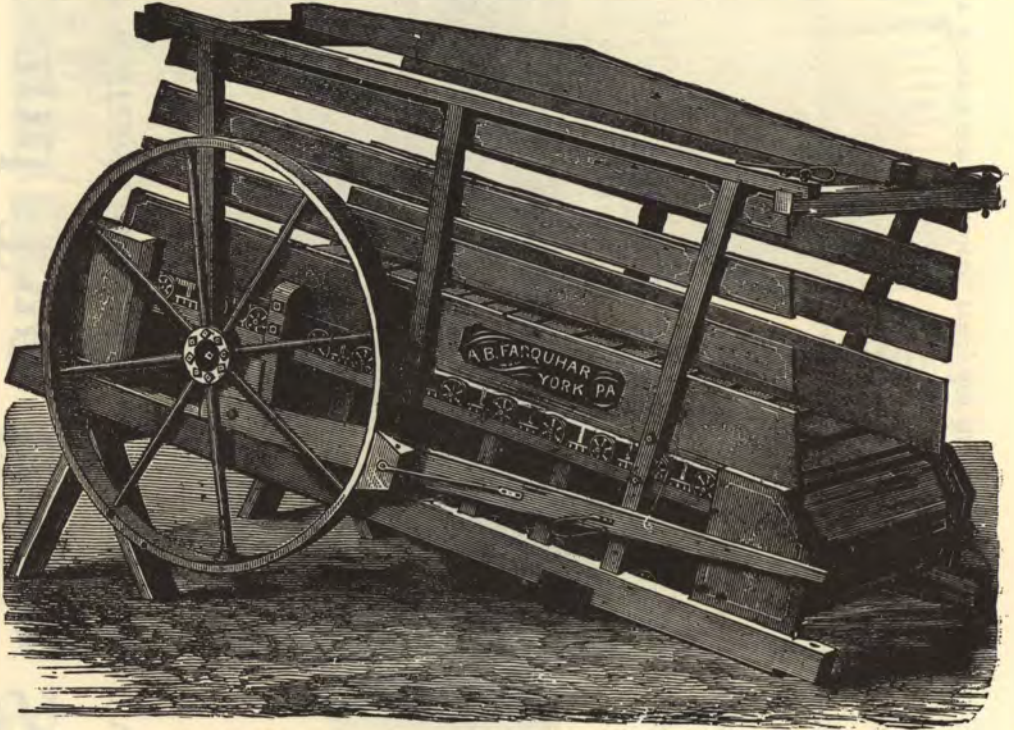
One-horse, 11 revolutions of shaft for one of horse.

Two-horse, 7 revolutions of shaft for one of horse.

Two-horse (large), 13 revolutions of shaft for one of horse.

Above Powers are complete, ready for use, with tumbling rod and band-wheel, 36 inch diameter.

## FARQUHAR'S DOUBLE-GEARED Steel Shaft Railway Horse Power.

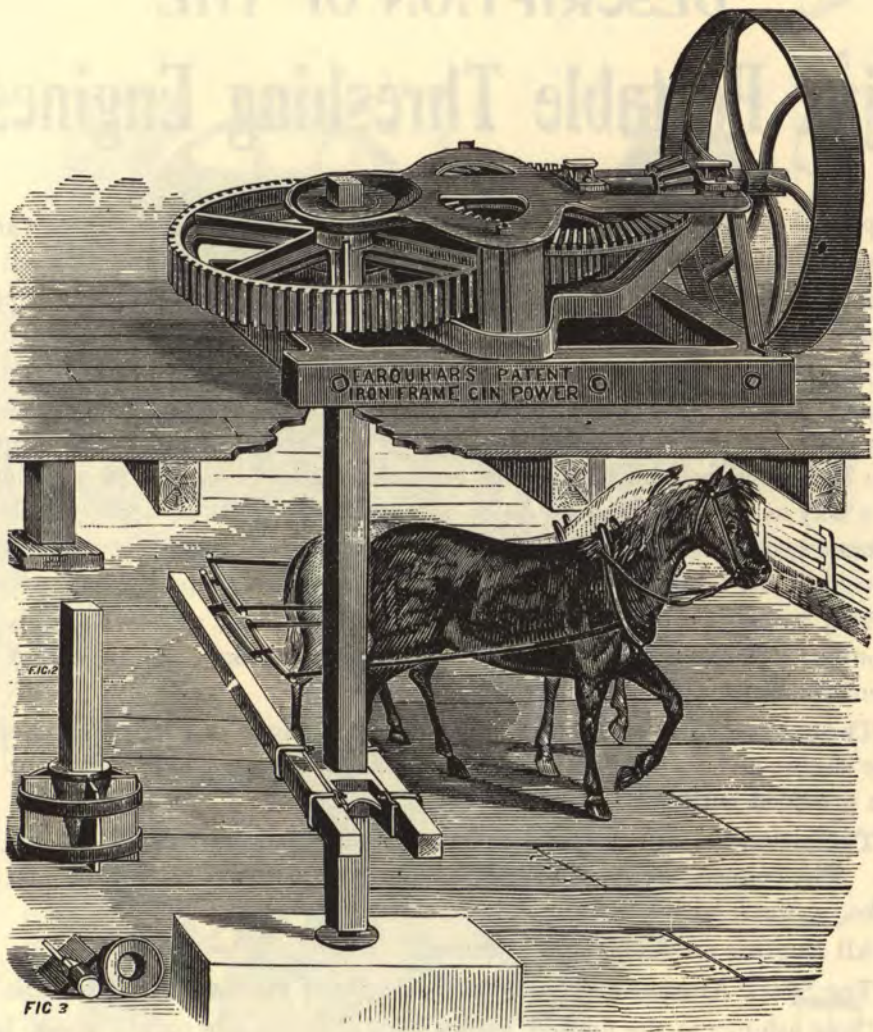


The above cut represents the Farquhar Railway Horse Power.  
Warranted equal to any Tread Power in use.

We make both one and two horse of the same general description. The platform either straight or in steps, as desired by our customers. The shafts are all steel and woodwork of the best. Where a farmer wants a power for his own use, he will find the Railway the most economical, since two horses in a tread power will do the work of three or four in lever power, and they require no driver. The Power is provided with a speed regulator—there is no danger to the team in case of belt flying off. In short, there is no better Railway Power made than the Farquhar.

The Powers are furnished on sills as shown in cut; two wheel or four wheel wagons as desired.

# The Farquhar Patent Iron King Gin Power



## WITH IRON FRAME AND STEEL KING-POSTS.

The above cut represents our Improved Patent Horse Power, made especially for driving Cotton Gins. It is the only power in use that is not deranged by any amount of sagging of floor upon which it rests; and the gearing, being set in an iron frame, is not damaged by the weather.

This Power runs light for two horses, and cannot be broken with eight. When ordered with steel king-post, a mechanic is not needed to put it up. The frame work rests upon the floor of the gin house, as shown in the engraving, or when there is not space to spare in the ginning rooms, it is just as well to bolt it up against the under side of the floor timbers, a portion of the band-wheel only coming through the floor.

The levers are attached to the king-post by means of a socket. The lower end of the post rests in a step box (or ink, as it is sometimes called). Would recommend the Iron King Power as the best and most economical Gin Power in use.

## DESCRIPTION OF THE Ajax Portable Threshing Engines.

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Parties purchasing Engines from us may be positive that the most careful attention is given to every detail of manufacture, especially to the material and workmanship of the Boiler, on which so much depends. We can only speak here of a few essential features.

The Boiler is made of the best grade of boiler steel, tensile strength 55,000 to 65,000 pounds, with steel fire-boxes strongly riveted and tested at double the strain that ever will be required to use. There is no record of a Farquhar Boiler ever having exploded. The engine cylinder is secured to bed plate in such a way as to insure engine to be always in line. It is accurately bored, and has a spring-packed double-ring piston fitted to it, which experience has shown to be the most serviceable and economical when properly constructed.

The valve is of the most approved pattern, it can never raise to permit grit or dirt to lodge under it, causing cutting or breaking, nor can it stick and prevent starting, as is sometimes the case.

The governor has a balanced valve and is arranged to give different speeds to the engine and will perfectly control its movements. Engines do not race when provided with our governors.

The piston-rod, valve rod, crank and cross-head pins are all of the best steel. The connecting rod is of the locomotive style with strap ends and keys to take up wear, with best bronze boxes.

All Engines are fitted with injectors.

The Spark Arrester and exhaust nozzle are of most approved pattern.

Close ash-pan at the fire-box makes Engine a safe one to use about barns. A blower serves to increase draft when necessary.

Engines are mounted on stout steel axles with steel wheels. These wheels are very strong and durable. Front axle has a ball and socket fifth wheel, which always gives a free movement and cannot break by the twisting incident of bad roads.

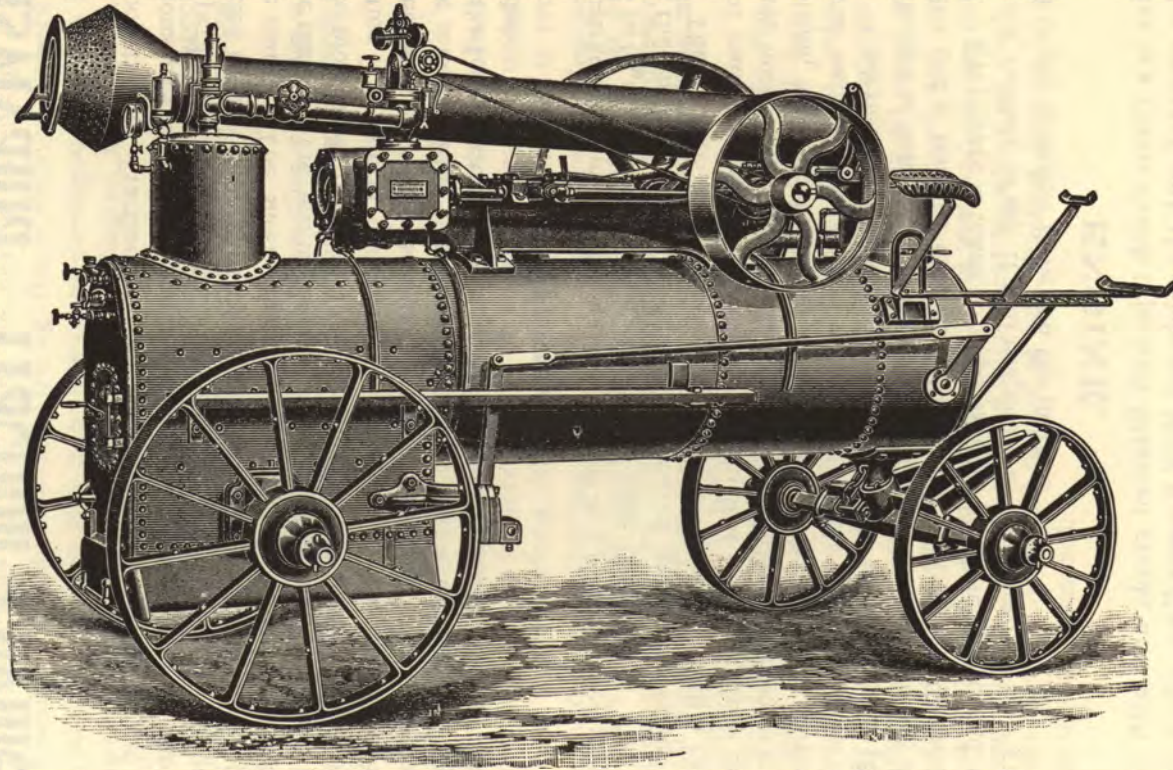
The engine is set very low on the Boiler, thus preventing the tendency to over-turn.

As shown in cut, the Ajax Threshing Engine is Centre Crank, with two pulleys, and gives a steady and regular power.

Driver's seats and foot brakes are put on all Ajax Threshing Engines.

 For specifications see price list.

# “IMPROVED” AJAX THRESHING ENGINE.



Furnished with Straw Burning Fire Box when ordered, making a first-class Straw Burning Engine.

## DESCRIPTION OF "Pennsylvania" Traction Engine.

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The introduction of Traction Engines has become so general, and the many and various uses to which they are and can be applied are so well known, it would be superfluous to mention them in this brief description. The questions to be settled by one contemplating the purchase of machinery or any other commodity are many. The most important, particularly where a Traction Engine is to be the machine wanted is, first, where is the most reliable, best constructed and most easily operated Traction Engine to be found. The object of this description is to inform our friends and patrons of the construction of our Engines and Boilers and the necessary mechanism, which combined makes the Traction or self-propelling Engine, and we hope after a careful reading no one will have the least hesitation in deciding that the "Pennsylvania" Traction is the leader.

### BOILER.

In the construction of our boilers nothing but the best material is employed, steel of 55,000 to 65,000 pounds tensile strength is used throughout. We use the best tubes the market affords, and latest improved spark arrester and exhaust nozzle. The DOME is unusually high and is provided with a baffle-plate to prevent water from entering steam pipe, which it will often do if extra provision is not made to prevent. Fire-box is the regular Locomotive style, open at the bottom, with hand-holes in each water leg for cleaning purposes. We do not advise water bottom Boilers, as they are simply a receptacle for mud and sediment. Underneath fire-box we place an ash-pan made of steel plate. This ash-pan is open at both ends, provided with hinged doors, enabling draft to enter at either end as may be desired. Wood, coal or straw can be used for fuel as desired. Every care is taken to make Boilers absolutely safe and durable. We do not hesitate to say it will evaporate as much water with a given amount of fuel as any Traction Boiler on the market.

### ENGINE.

The Engine is a Centre Crank type with balanced crank, and with plain "D." slide valve provided with the celebrated Wolf Reverse Gear, which is the simplest arrangement known for the quick reverse of an engine, only one eccentric being used. No sliding surfaces to wear and no pins to become loose. The GOVERNOR is new and designed especially for Traction and Saw-Mill Engines. It has an approved stop and sawyer's lever attachment. The Engine throughout is of the best material and workmanship.

## MOUNTING.

The engine and all gearing is mounted independent of the Boiler, on a steel beam and boiler plate frame. The Boiler also is carried on this frame, but is not connected with the gearing of Engine in any way, except the cylinder end of engine frame rests on the boiler. By this arrangement all strain and jar is taken from the boiler and the heat of boiler kept from the engine and gearing. The steel beams forming frame running forward to the front axle, as plainly shown in cuts, form a complete wagon on which Boiler can be removed without disturbing Engine or the Engine may be removed without disturbing Boiler.

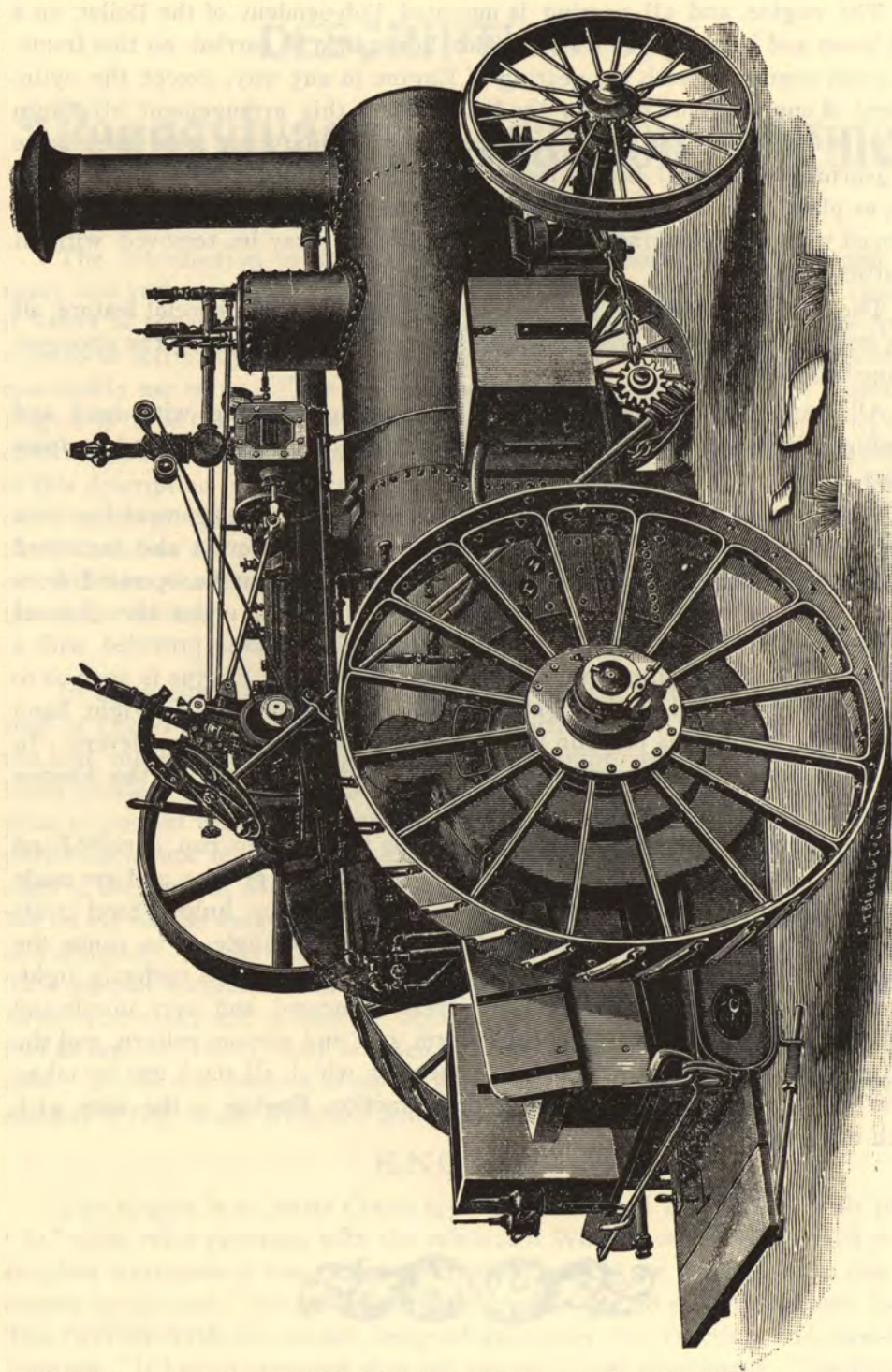
The driving wheels of our Improved Traction are a special feature, all have steel rims, and flat braced spokes securely riveted, forming the strongest driving wheel made.

All gearing is completely encased, preventing clogging with mud and allowing it to be well lubricated, thereby insuring long life and freedom from repairs.

Each Engine is supplied with two Injectors, which arrangement has been found to give best results. An Ejector, or steam water lifter, is also furnished for lifting water from streams, wells, etc. All of these can be operated from the rear platform by engineer. The water-tank is carried under the channel bars back under platform, which is made of steel plate, and is provided with a large hand-hole for cleaning out. The arrangement of Engine is such as to permit the steering rod on the right-hand side, so engineer has his right hand for steering. From this position he can operate throttle and reverse levers. In fact all the parts that are necessary for the successful working of the Engine are controlled from this point.

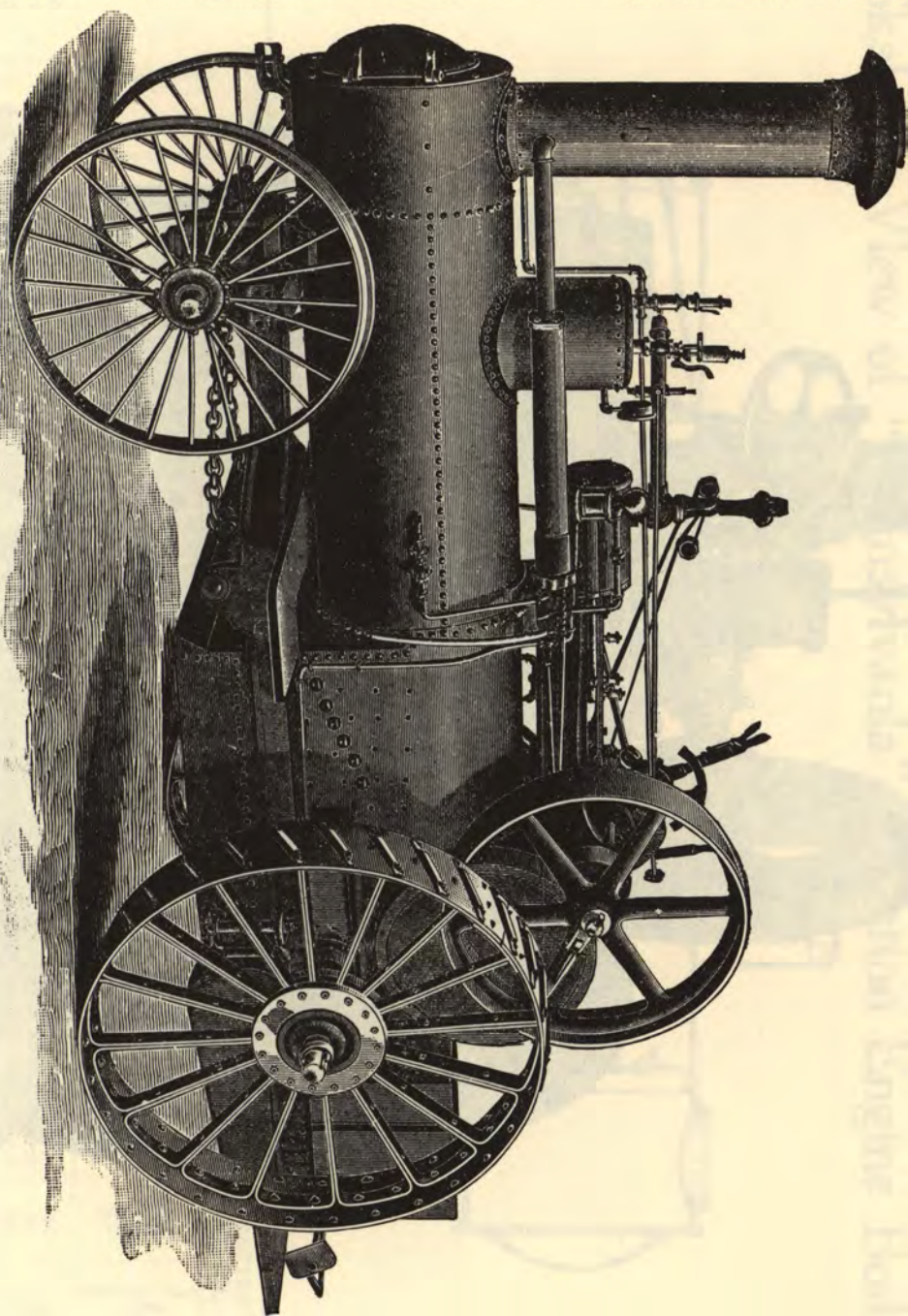
The Driving Pulley of our latest Engine is arranged to run a right-hand Saw Mill. Main driving wheels are large and broad of face and are made entirely of steel with the exception of the heavy cast iron hubs. Steel cleats are riveted diagonally across face of wheels at such an angle as to cause the driving pressure to force towards Boiler, thus keeping all joints perfectly tight. The compensating gear for turning curves is encased and very simple and effective. Steering apparatus is of the worm gear and pinion pattern, and the steering chain is provided with an adjustment by which all slack can be taken up very easily. A special feature of our Traction Engine is the ease with which it may be steered.

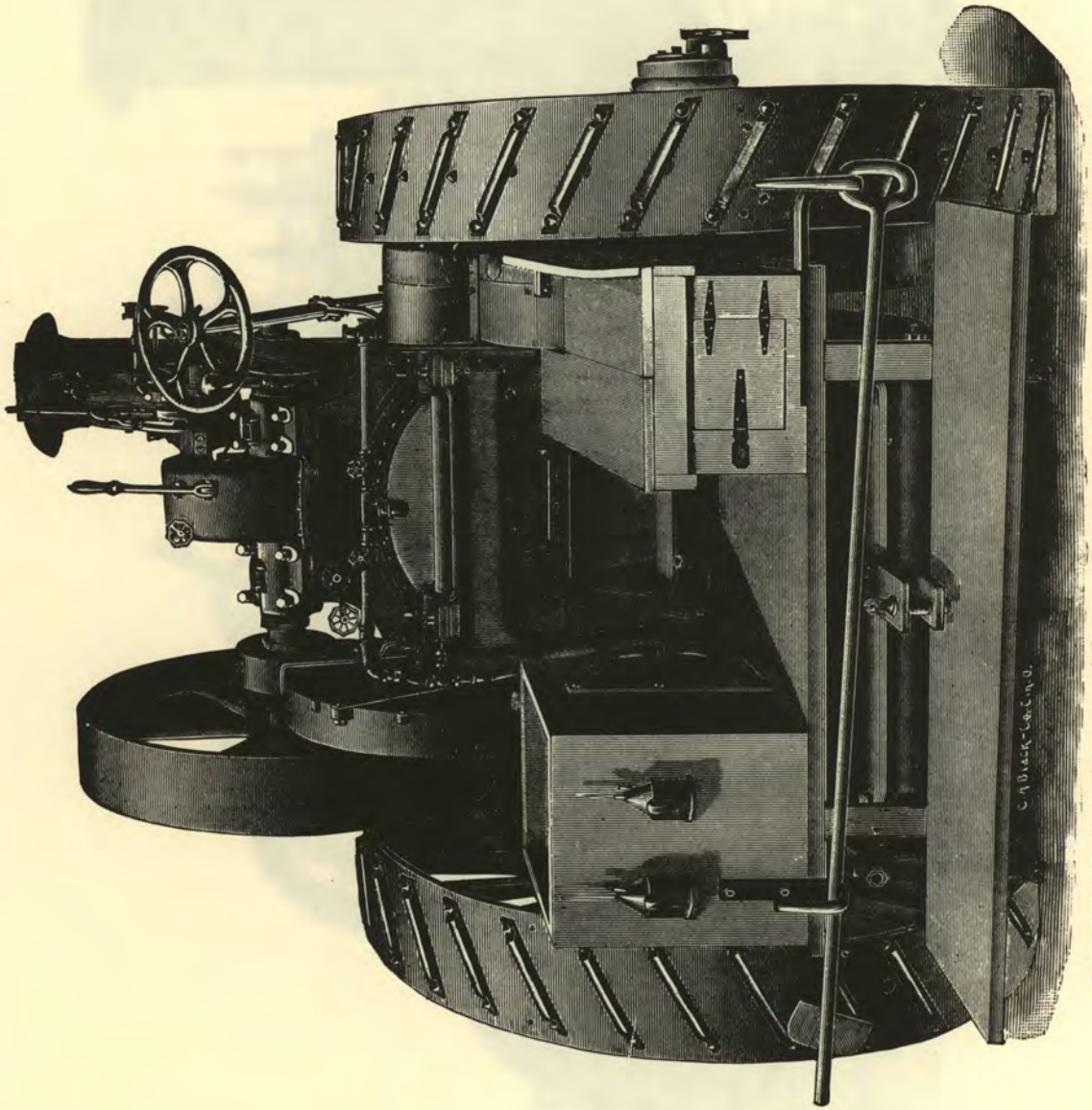




"PENNSYLVANIA" TRACTION ENGINE—RIGHT SIDE.

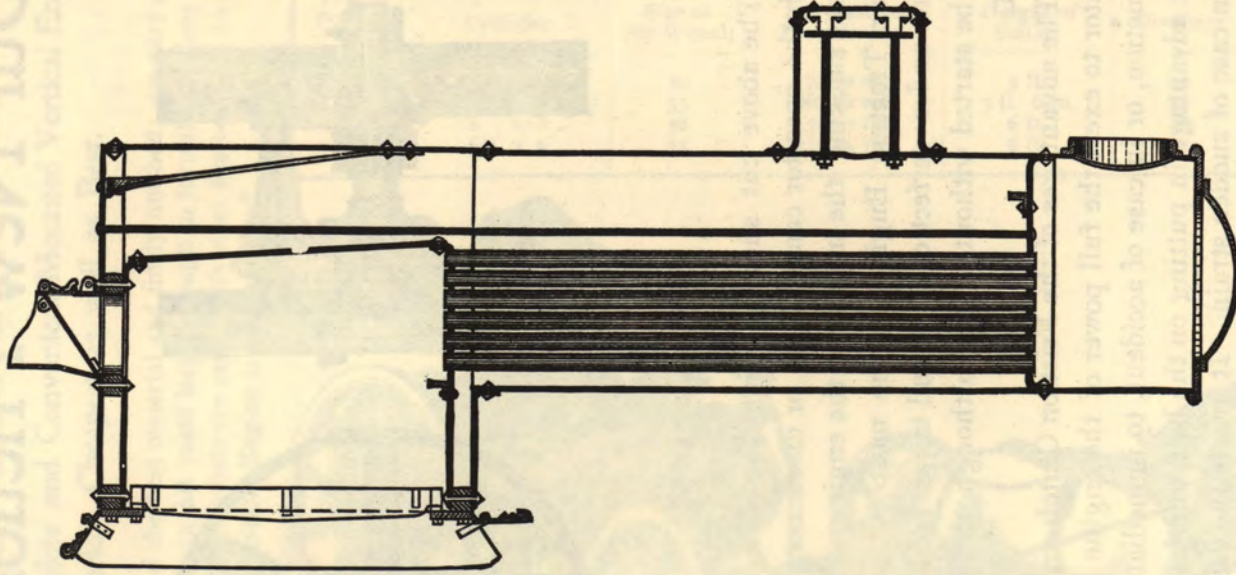
"PENNSYLVANIA" TRACTION ENGINE—LEFT SIDE.





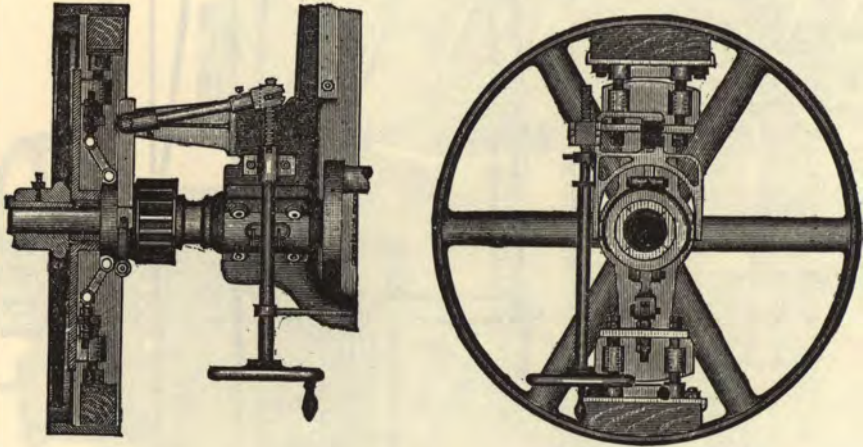
"PENNSYLVANIA" TRACTION ENGINE—END VIEW.

# Skeleton View of "Pennsylvania" Traction Engine Boiler.



| HORSE POWER. | CYLINDER.        |                |                 | BOILER.        |               |                |                |         |                  | SMOKE STACK.     |              | FLY WHEEL.       |                       | REVOLUTIONS. | TRACTION WHEEL.  |                       | Estimated Weight. |
|--------------|------------------|----------------|-----------------|----------------|---------------|----------------|----------------|---------|------------------|------------------|--------------|------------------|-----------------------|--------------|------------------|-----------------------|-------------------|
|              | Diameter Inches. | Stroke Inches. | Waist Diameter. | FIRE BOX.      |               |                | TUBES.         |         |                  | Diameter Inches. | Length Feet. | Diameter Inches. | Width of Face Inches. |              | Diameter Inches. | Width of Face Inches. |                   |
|              |                  |                |                 | Length Inches. | Width Inches. | Height Inches. | Length Inches. | Number. | Diameter Inches. |                  |              |                  |                       |              |                  |                       |                   |
| 8 to 10      | 6¼               | 8              | 26 in.          | 36             | 21            | 30             | 54             | 34      | 2                | 10               | 4            | 36               | 6                     | 235          | 54               | 9                     | 10000             |
| 10 to 12     | 7                | 10             | 26 in.          | 36             | 21            | 31             | 66             | 34      | 2                | 10               | 4            | 40               | 6½                    | 225          | 60               | 10                    | 12000             |
| 12 to 15     | 7¾               | 10             | 29 in.          | 40             | 24            | 32             | 66             | 45      | 2                | 12               | 4            | 44               | 7½                    | 215          | 64               | 12                    | 14000             |
| 15 to 18     | 8½               | 11             | 29 in.          | 40             | 24            | 34             | 72             | 48      | 2                | 12               | 4            | 48               | 8½                    | 190          | 66               | 14                    | 15000             |
| 18 to 20     | 9                | 11             | 32 in.          | 40             | 28            | 34             | 84             | 54      | 2                | 15               | 4            | 48               | 8½                    | 180          | 72               | 16                    | 17000             |

# Our New Friction Clutch.



The above cut shows our improved Friction Clutch, by means of which the operator can connect or disconnect the gearing at pleasure, without slacking the motion of the engine. The Friction Clutch used on our Traction Engines is the most perfect in use. It keeps the engine under perfect control, and takes hold so gradually that a load may be started without a jerk, although the engine is running at full speed.

The advantages of the Friction Clutch are obvious. It enables the operator to exert the full power of the engine instantly to overcome an obstruction, or in case of accident, to immediately disconnect it. It is a great advantage in putting on the belt, and lessens the danger of breakage in case of sudden strain. It avoids the use of bars or pries to assist the engine over obstructions, and delay in coupling and uncoupling. Our Friction Clutch is simple and durable, nothing about it to get out of order, and we have put the price down to cost as an inducement to all purchasers of Traction Engines to order it.

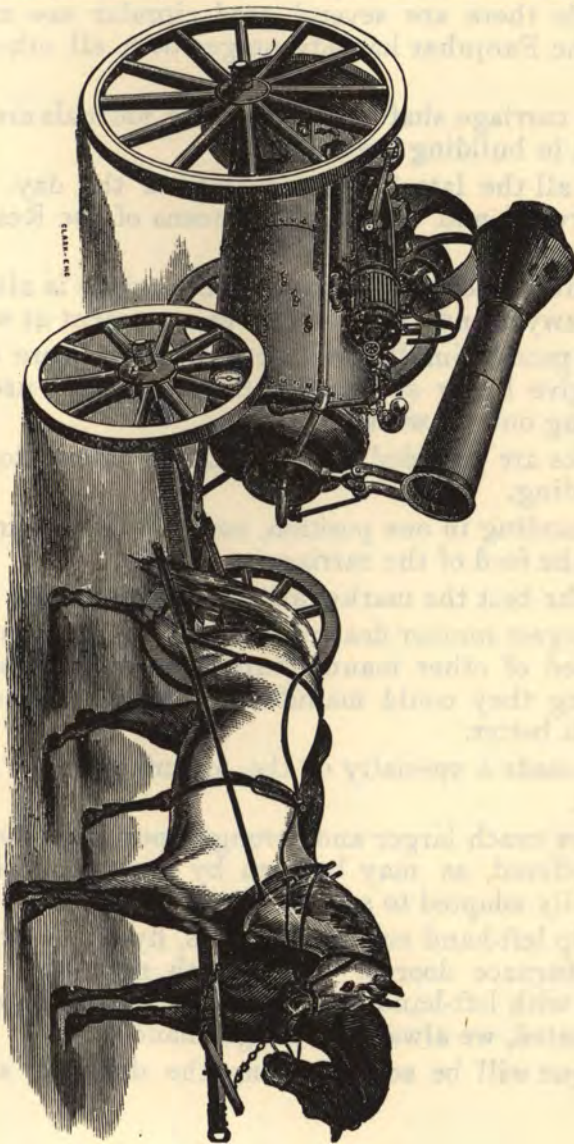
# Mounted Vertical Engines

## A SPECIALTY.

The Most Perfect, Complete and Convenient Mounted Vertical Engines in the World. Cheapest as well as Best.

These engines are made of the best material and finely finished; are very strong and durable. The Boilers are in all cases large enough to furnish sufficient steam without over-firing. All Vertical Boilers are made with steel fire-boxes. In short, every objection to a Mounted Vertical Engine is here removed.

Engines are complete, with hinged smoke-stack, spark arrester, governor, steam and water gauges, suction hose—everything, in short, that a Portable Engine should have to be ready for work. In use this engine stands vertical. We do not furnish the front wheels, except to order. The fore truck of any farm wagon will answer. Front wheels and tongue supplied at extra price. Engines are furnished with injector.



### DIMENSIONS.

| HORSE POWER. | ENGINE.   |                    |                         | BOILER.           |           |                           |
|--------------|-----------|--------------------|-------------------------|-------------------|-----------|---------------------------|
|              | Cylinder. | Size of Fly Wheel. | Revolutions Per Minute. | Height of Boiler. | Diameter. | Number and Size of Tubes. |
| 5            | 4½ × 7    | 30                 | 75 to 220               | 5 ft.             | 26        | 30—2 in.                  |
| 6            | 5 × 8     | 33                 | 150 to 200              | 5 ft. 6 in.       | 28        | 36—2 in.                  |
| 8            | 6 × 8     | 36                 | 150 to 180              | 6 ft.             | 28        | 44—2 in.                  |
| 10           | 6½ × 9    | 42                 | 130 to 160              | 6 ft.             | 32        | 50—2 in.                  |



## CIRCULAR SAW MILLS.

The circular saw mill is now used almost exclusively for sawing all kinds of lumber. A circular mill will do ten times the work of the old-fashioned muley and crank saws, and have about driven them out of the field. While there are several good circular saw mills in the market, we claim the Farquhar has advantages over all others, for the following reasons:

The mandrels, carriage shafts, set shafts and journals are steel, and no pains are spared in building the mill.

They combine all the latest improvements of the day. The carriage is moved forward and backward by means of the Reamy patent feed and backing device.

By means of this device the motion of the carriage is always under the control of the sawyer and can be varied in a moment at will.

The Farquhar patent simultaneous set works are more convenient and accurate and give better satisfaction than any other used. Dockage is saved by using our set works.

The head blocks are provided with the Little patent dog, and are practically self-receding.

The sawyer, standing in one position, controls the engine, sets the log, and regulates the feed of the carriage.

Our saws are the best the market affords and are fully warranted.

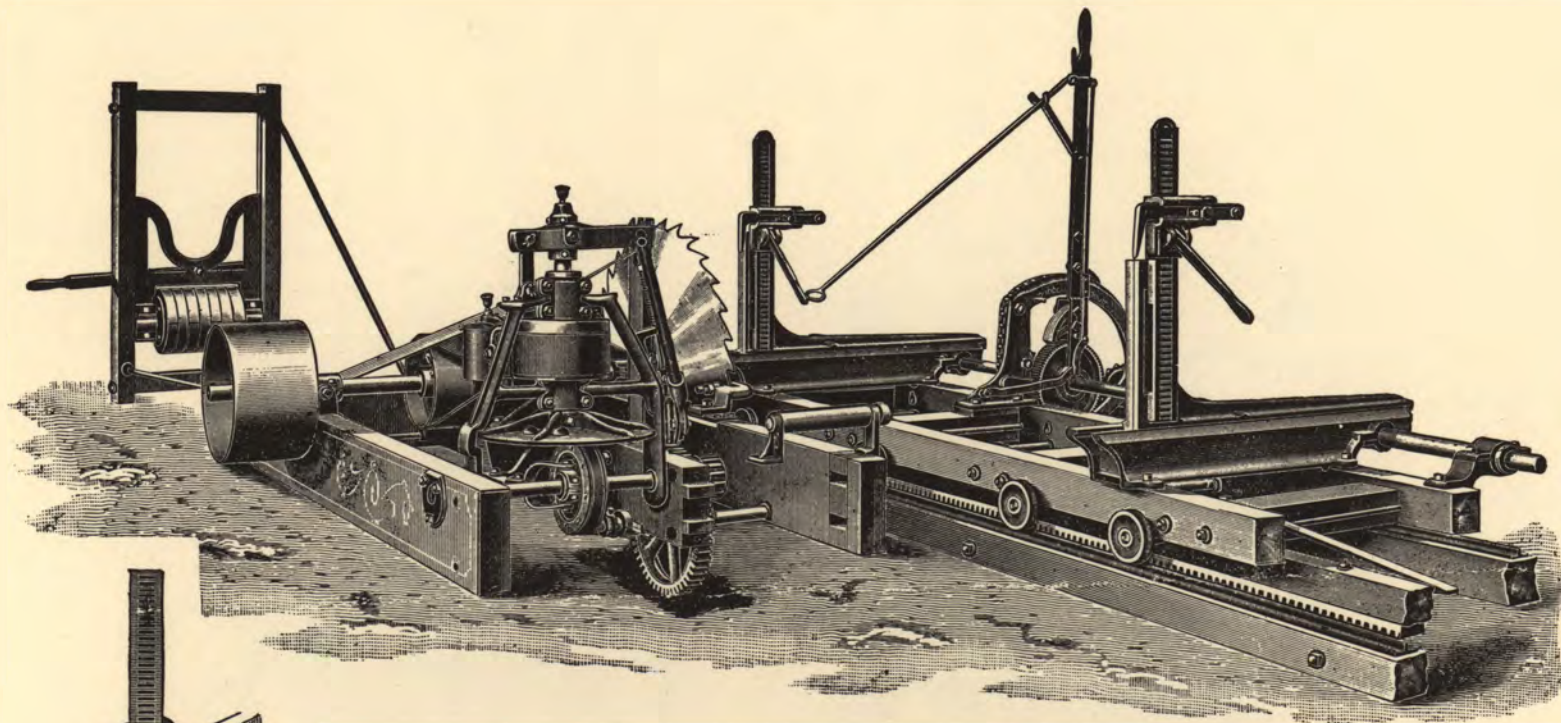
Some of our largest lumber dealers have found it economy to lay aside mills purchased of other manufacturers and to use the Farquhar exclusively, claiming they could manufacture more lumber with the same labor and do it better.

We have long made a specialty of the manufacture of saw mills, engines and boilers.

Our engines are much larger and stronger per rated horse power than any others offered, as may be seen by comparing sizes in the tables,—are especially adapted to saw mills.

We always ship left-hand engines (that is, fly-wheel on left-hand side, standing at furnace door of boiler) with right-hand mills, and right-hand engines with left-hand mills. Where parties do not specify the kind of mill wanted, we always ship right-hand.

Special catalogue will be sent, showing the different sizes, when desired.

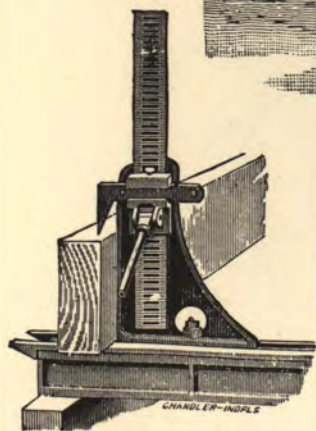


### FARQUHAR SAW MILL (RIGHT HAND).

The above cut is a fair representation of the Farquhar Patent Saw Mill, showing patent feed, patent dogs and set works, making the most complete mill in the market.

Although the Farquhar Mills are being continually improved by the purchase of valuable patents and the addition of every device that experience and mechanical skill can suggest, we have maintained our previous popular scale of prices without change, thereby rendering the Farquhar Saw Mill the most convenient, durable, perfect in operation and cheapest first-class mill in the market.

The Farquhar Patent Set Works are the most convenient and accurate that we have yet seen, and have given universal satisfaction.



### FARQUHAR'S MONITOR SAW MILL DOG.

We have still further improved our saw mills by the purchase of Little's Celebrated Dog Patent, the Monitor, a cut of which may be seen herewith. This dog will be used on all our mills. It is cheap, simple and durable; free from all objectionable features, and in efficiency second to none. It has been thoroughly tested by the largest lumbermen of the Northwest and pronounced the best in use. The old style dog is inconvenient and unreliable, particularly when the lumber is hard or frozen. Every mill is fully warranted.

