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Ellis
Keystone
Agricultural
Works,
POTTSTOWN,
PENNA.

TO THE PUBLIC.

THE ELLIS THRESHING MACHINES are not a new thing. They have been tried and are fully established in public confidence wherever known. Our experience in building these machines has not been time lost. The wants of the farmer have been carefully studied; whatever defects the machines may have ever had have been removed; whatever possible improvements time and experience may have suggested, have been adopted; and to-day we offer in confidence a machine as nearly perfection as it is possible for human skill to devise. That what we say is the opinion of those who have fairly tried our machine, will be seen by the testimonials herein printed.

With very little advertising, upon its own intrinsic merits, **The Ellis Champion Thresher** may be seen not only around home, but as far north as the Province of Quebec in Canada, away down in Alabama, beyond the Rocky Mountains, in California and on the Pacific slope, and even across the Atlantic on Erin's green isle. And wherever grain grows and threshing needs to be done, the ELLIS requires but a trial to show its superiority over all others and to give it a firm hold upon the affection of the true nobility—the tillers of the soil.

Thanking our patrons for past favors, and assuring them that it shall ever be our aim to make the best machine in the market, we modestly, though earnestly, solicit a continuance of the confidence and favors so freely extended to us in the past.

We remain yours most respectfully,

The Ellis Keystone Agricultural Works.

OUR OFFER.

The experience we have in sending our Threshing Machines out "on trial" in all sections of the country warrants us *in continuing our offer* in localities where we have no agents, or where the merits of the machine are not known, as follows:

We Will Ship a Machine to Any Responsible Party,

unacquainted with its workings, in the country, who will pay freight and test in good faith. If it performs as herein represented, keep the machine and pay for it as per agreement. If it fails to give satisfaction as to practical utility and economy, *we or our agents must be notified at once*, when, if we do not make it work properly; the freight will be refunded, and we receive the machine at nearest shipping point, *free of cost to you*, except such expense as may be incurred by the trial while in your possession. We have sent out many machines to various parts of the country on the above conditions, and in every instance, after *fair* trial, they have given SATISFACTION.

WARRANTY.

We warrant our machines to be of good material and workmanship, and to give satisfaction on all kinds of grain, if judiciously used. If, on starting the machine, it should in any way prove defective, or not work properly, the purchaser should give prompt notice to the agent of whom he purchased it, and allow time for the defective part to be made good, or instructions be sent. If it cannot then be made to fill the warranty, the machine will be taken back and the payment, if made, refunded. Not over two or three days' use will be allowed for trial. *Keeping the machine thirty days*, whether used or not, without giving notice as above, shall be deemed conclusive evidence that the machine fills the warranty.

DIRECTIONS

For Setting Up and Running the Keystone Power and Ellis Champion Cleaner.



FIRST set the power in the position you intend. The grade must be given to suit the condition of the straw, and the weight of the horse. See that the power is perfectly level. To remove the tread blocks or track wheels, take off the guard rails on one side only. The governor is controlled by the spiral springs. If *too much* power is taken, *tighten* the springs; if *not enough*, loosen them by a thumb-nut at top of spring. While threshing, the governor ought not to work until above threshing speed. For cutting feed, shelling corn, sawing wood, or cleaning the floor, the governor can be set to regulate the speed. When running a full day, oil track wheel journals twice, shaft journals oftener; use good oil. To stretch the track, loosen bolts and draw circles back, in which slotted holes are provided. Now set the thresher in position, that the belt on band wheel and pulley runs true. Hold thresher in place by strips at rear and belt side. Draw up cleaner and hook to thresher, and turn down eccentric. If the floor is not level, block up until the thresher and cleaner stand parallel. The connecting rod is put on the wooden spring in a lateral direction, turn to right and it will go on shaft journal; be careful to have the burrs tight, that there can be no lost motion. Be careful to have shaker wheel well screwed on shaft by set screw. Place the sieves as marked, chaff, wheat, oats and screen. For wheat the wooden riddle marked chaff; the wire sieve marked wheat and screen as marked. For oats use the *wide meshed* wooden riddle only; and the blank in place of screen. Riddles can all be raised or lowered to suit the different kinds of grain. To prevent grain being blown in chaff, raise tailings board. If desired to save the chaff, hook dividing board on rear of cleaner. The grain sprouts go in either side of cleaner; concave is reversible. For tough grain, use all the spikes; for dry, two rows are sufficient; for rye, buckwheat or seed clover, use the short teeth, raise or lower concave by thumb-screws. Be very careful in changing concave to have spikes in cylinder and concave to centre. That will save much grain being broken. The end motion of cylinder can be prevented by moving the boxes on shaft; use the best oil; keep the machinery clean. Your success depends upon how well you follow directions.

THE ELLIS

Champion Thresher and Cleaner.

PATENTED May 20, 1884, is entirely different in its construction from other machines, and for handling and storing is very convenient, separating so that the Thresher can be put in one place and the Cleaner in another.

The fan is placed at a point below the sieves, so that the blast comes up through them, lifting the chaff out of the way of the grain, so that it passes through very rapidly, having a greater capacity than a larger sieve when the blast is not at so low a point as we place it.

For threshing or cleaning anything damp and heavy, such as buckwheat, it is a complete machine. It cannot be clogged if proper speed be given, and for threshing seed-clover it is just the thing. The straw and chaff can be kept separate, so that farmers can use the chaff for feed if they wish, or let it go with the straw.

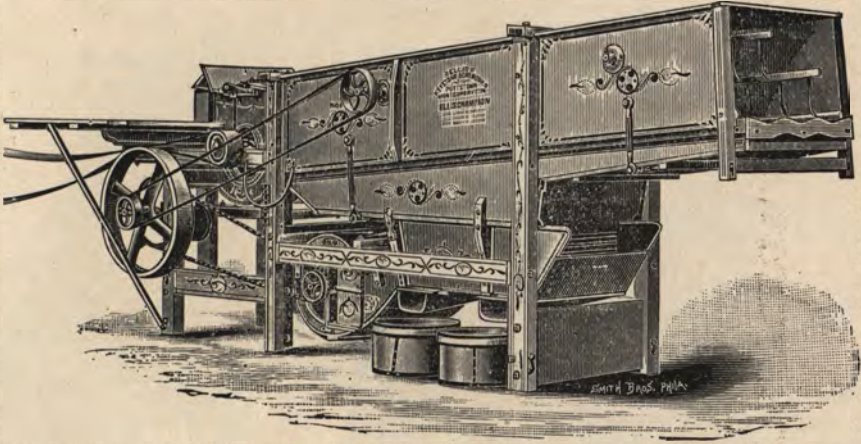
Having materially enlarged the hopper and widened the riddles, the capacity of our cleaner is greatly improved, giving the grain and chaff room to spread and not to clog or choke. The capacity of our One-Horse Cleaner is from 10 to 20 bushels of wheat, and from 30 to 60 bushels of oats per hour; and of the Two-Horse from 20 to 30 bushels of wheat, and from 60 to 90 bushels of oats, per hour—guaranteed to be cleaned and screened fit for seed or market, if properly handled.

As we make a specialty of these machines, we are able to do the work thoroughly and cheaply, and by this also truer to principle, and, of course, more perfect in their operation, as each successive machine is a perfect duplicate of its predecessor in principle, style and finish, and working qualities, which is not the case in shops where a variety of work is carried on.

In keeping with the progress of the age, and especially labor-saving agricultural machinery, we feel free to invite a trial with any other make of threshers and cleaners to prove the superiority of our machines. The experience we have at this business, with but one object in view (that of giving to the farmer a machine just suited to his wants), warrants us in saying that to-day the ELLIS CHAMPION is found at the head of its class. And as the time advances, and farms are divided and subdivided, the farmer will want more implements and machinery to do his work alone. The great steamers will give way to the nimble little endless chain tread-power, and its whirl and song will be heard in every land and clime.

CHAMPION NO. 1 Thresher and Cleaner.

20-inch Cylinder. 27-inch Trunk.
22-inch Riddles. Weight 850 lbs.



OUR No. 1 Thresher and Cleaner is the most popular size, as it is run very successfully with our Double-Geared Level-Tread One-Horse Power, or Two or Four-Horse Lever Power. We guarantee this Cleaner to run light and to clean all kinds of grain ready for the drill or flour mill, and make the cleanest chaff, as there is no long straw in it if proper speed is given, and less grain in straw or chaff than any style we have heretofore built. In fact it is just what every farmer needs who intends to do his own threshing. Ever ready to put his horse on power, and do little or much threshing with his own help.

Pea-Nut Thresher and Cleaner.

THREE SIZES.

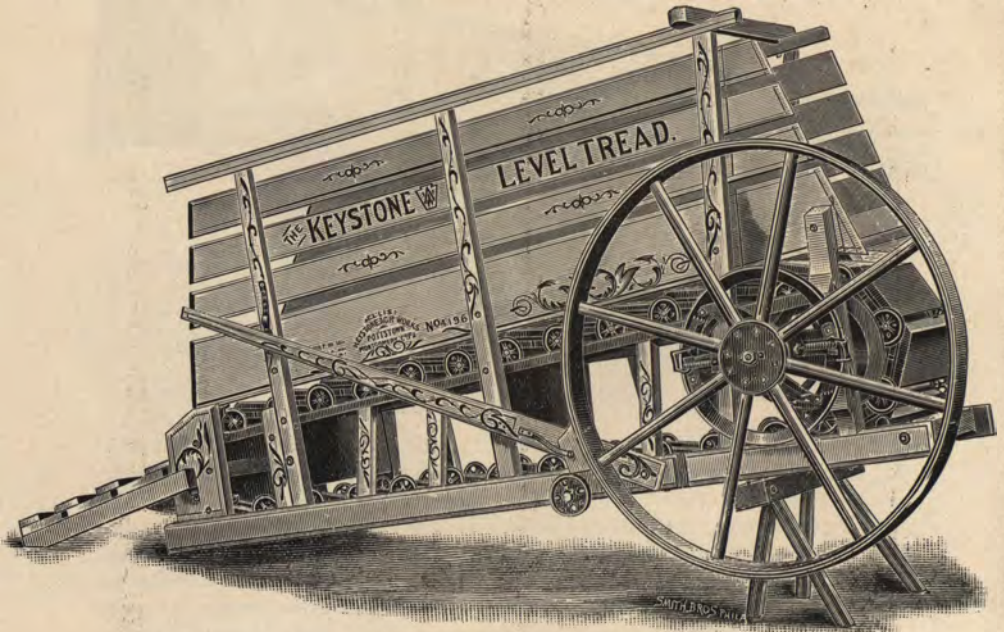
THE Keystone Pea-Nut Thresher and Cleaner made a lasting impression on all who saw it work last season by the superior manner in which it removed the nuts from the vines, separated the broken nuts from the whole ones and deposited each in separate vessels. No grower of pea-nuts can afford to be without one.

LEVEL TREAD ONE-HORSE Double Geared Power

WEIGHT 1,050 POUNDS.

THE ONLY SAFE TRACK.

Our track wheels are $4\frac{1}{2}$ inches high. Some manufacturers of tread-powers tell you a 6 or $6\frac{1}{2}$ inch track wheel is the best. We respectfully ask you to investigate that yourself. It will pay you.



THIS power is longer and wider than the "Ellis Centennial." We use the same patented link in this as in the Two-Horse Power, which forms the *level tread*, and also places the rod *under* the rear side of the forward lag or tread board, and not between them. It has the same governor as the Two-Horse Power, also our **Patent Bridge** for stretching Power, an illustration of which is given on page 15. For grinding feed with *our farm grist mill*, shelling corn, cutting feed, sawing wood, churning butter, pumping water, and running light wood-working machinery, it is a complete success. With this power the farmer is always ready for the above work with one horse.

By special order we extend main shaft on left side of power, which gives slower motion, for the purpose of running **Cream Separators** and **Grindstones**; can run churn from band wheel on right side. For these purposes this power is a complete success on account of steady motion retained by its governor.

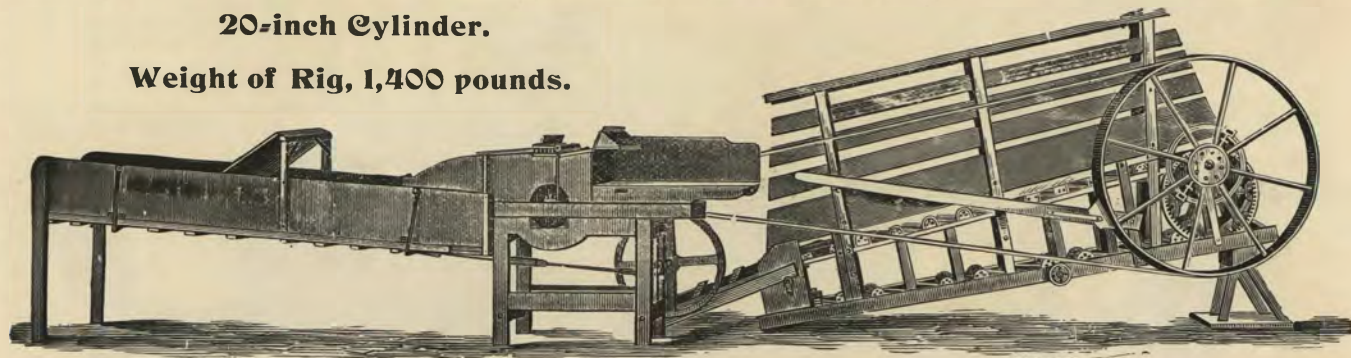
Sills are 10 ft. 2 in. long, and Treads are of maple 1 ft. 6 in. long, 8 in. wide and $2\frac{1}{2}$ inches thick.

One-Horse Power Thresher AND Shaker

NO DANGER OF BENDING RODS IN THIS POWER.

20-inch Cylinder.

Weight of Rig, 1,400 pounds.



One-Horse Double Geared Power Thresher and Shaker.

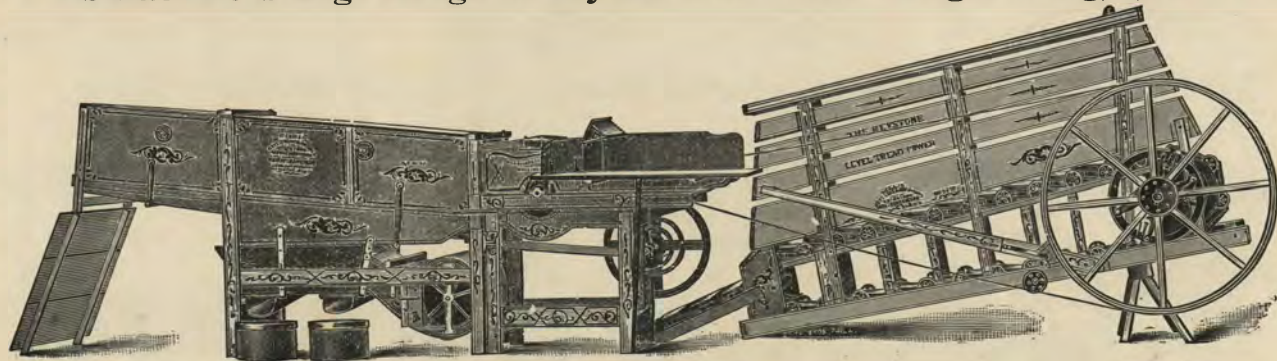
THIS machine finds favor with the farmers who do not have much threshing to do, from the fact that it costs less money than the One-Horse Power Thresher and *Cleaner* combined, and are not compelled to hire a thresherman to do the small jobs.

This thresher has the same concave and dustless cylinder as in the threshers and cleaners, and will *thresh* just as clean, but will need a fanning mill to clean the grain. Therefore, we can accommodate both large and small farmers, now that you not only have an excellent thresher and shaker, but our latest level-tread double-geared power with governor, with which you can cut your cornfodder, hay or straw, run wood saw, corn sheller, cream separators, churn and farm grist mill.

Level Tread One-Horse Double Geared Power Thresher and Cleaner

By 30 years' experience we find a medium-sized track wheel the best.

This Machine is large enough for any 150 Acre Farm. Weight of Rig, 1,850 lbs.



THE above cut represents our small machine for threshing and cleaning all kinds of grain. It combines all the improvements of the larger machine. As the large farms are cut up and divided into smaller ones, and as the prudent farmer keeps a more accurate account of the cost of having his crop threshed with the large steam thresher, he will be convinced that he can save money by owning a small machine and doing it himself. Not only will he be doing his work much cheaper, but at a time when it best suits him. He will not then have to wait until it is convenient for the thresherman to come and do his threshing, and when he does come have hurry, bustle and confusion, not only in the barn, but in the house, too, in preparing meals for 12 or 15 men, whether it suits or not. With a small machine like this, two-thirds of the farmers can, and will do the work with their own hands. On any stormy or disagreeable day in the Fall or Winter the farmer will say. "Come, boys, we will go and thresh some grain." The day is well spent, and with pride he looks at the *cleaned* grain in the garner, the straw in the mow, and chaff in the bin. Then when you are done threshing you have a power to cut feed, shell corn, saw wood, churn butter, or do any other work where only light power is required. The governor we illustrate on another page is supplied with every power turned out.

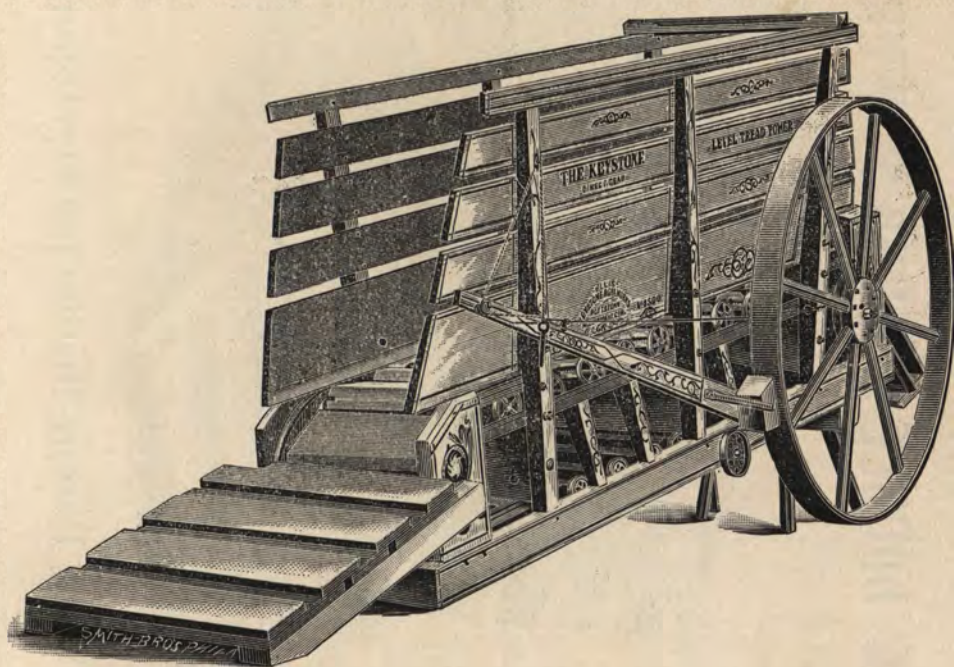
We say, in *good faith*, order one and you *will* be pleased with your purchase. This machine has attained great popularity, as is evidenced by the large number we sold, and the many inquiries we received from good, reliable agents with regard to the sale of them after they saw them at work.

THE KEYSTONE

DIRECT GEARED

LEVEL TREAD POWER

WEIGHT 1050 POUNDS.



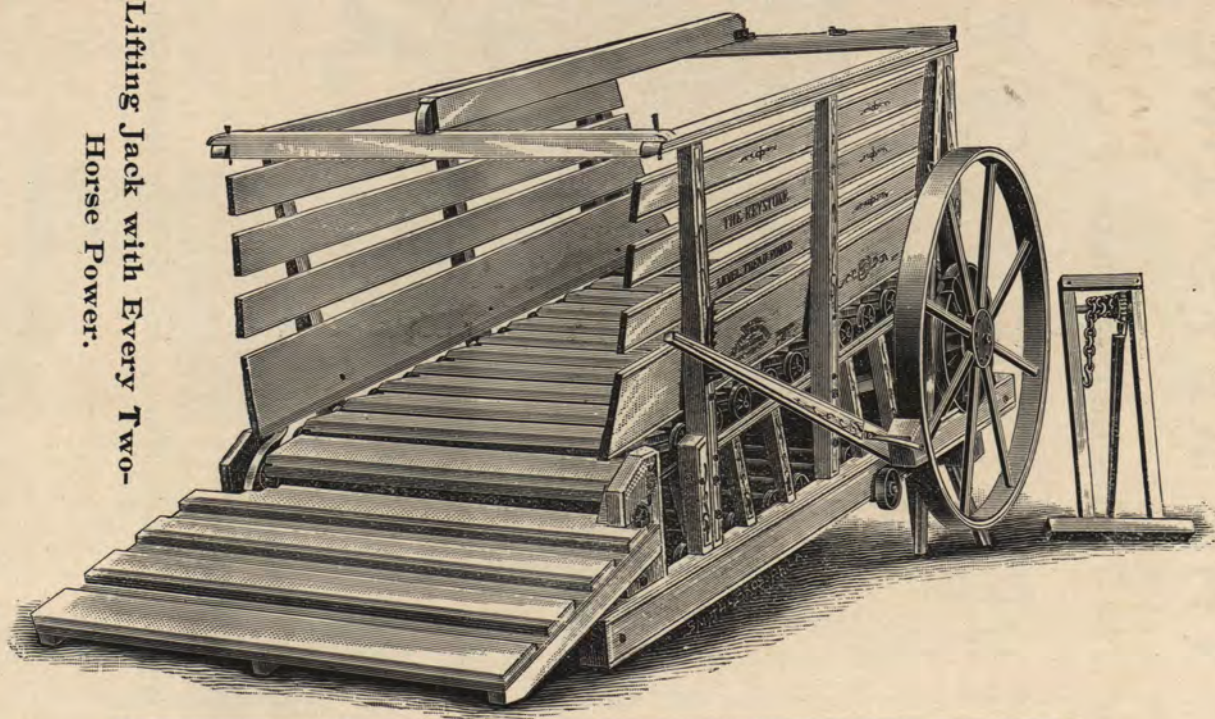
It is Well Made, Cheap, and Gives Satisfaction.

The band-wheel is on same shaft as pinions, which gear into cogs on links. The level tread is formed by the link the same as in the Double Gear. The Pusey Governor is used with this power, which applies the rubber brake to circumference of band-wheel.

TWO-HORSE DOUBLE-GEARED POWER, with our Improved Level Tread Weight 2,200 pounds.

BEST WEARING AND SMOOTHTEST

8



Lifting Jack with Every Two-
Horse Power.

RUNNING POWER EVER BUILT.

With Patent Bridge for Stretching Track.

Level Tread Two-Horse DOUBLE GEARED POWER

TO the *casual observer* there does not appear to be any marked difference of construction in this power from that of others, but when examined there are found features never before thought of—claims that, when understood, are found invaluable. First—we claim the *combination* of gear wheel and sprocket is stronger, less liable to break as the power is transmitted from *circumference* to pinion, which drives the band wheel, and having an *internal gear* which meshes into a pinion on band-wheel shaft—therefore impossible to slip gear or jump cogs; while in all other sprocket wheels the power is applied to the centre, thence to the circumference, which would be difficult to have hub, set screw or key, strong enough to hold. Do not *overlook this principle*, for it is worthy of attention. Possessing this gear, we walk the horses slower, and yet retain the same power as that of the direct or single gear. We support the shaft on which the band wheel is placed by an iron bracket, which holds it securely, and runs truer than when placed on a long shaft. The *patented link* forming the *level tread* is another *grand feature*, and should not be overlooked. An explanation of it is found under cut of Sectional Part of Power.

The Sills are 11 feet long ; Treads of Maple 4 feet long, 8 inches wide and 2½ inches thick.

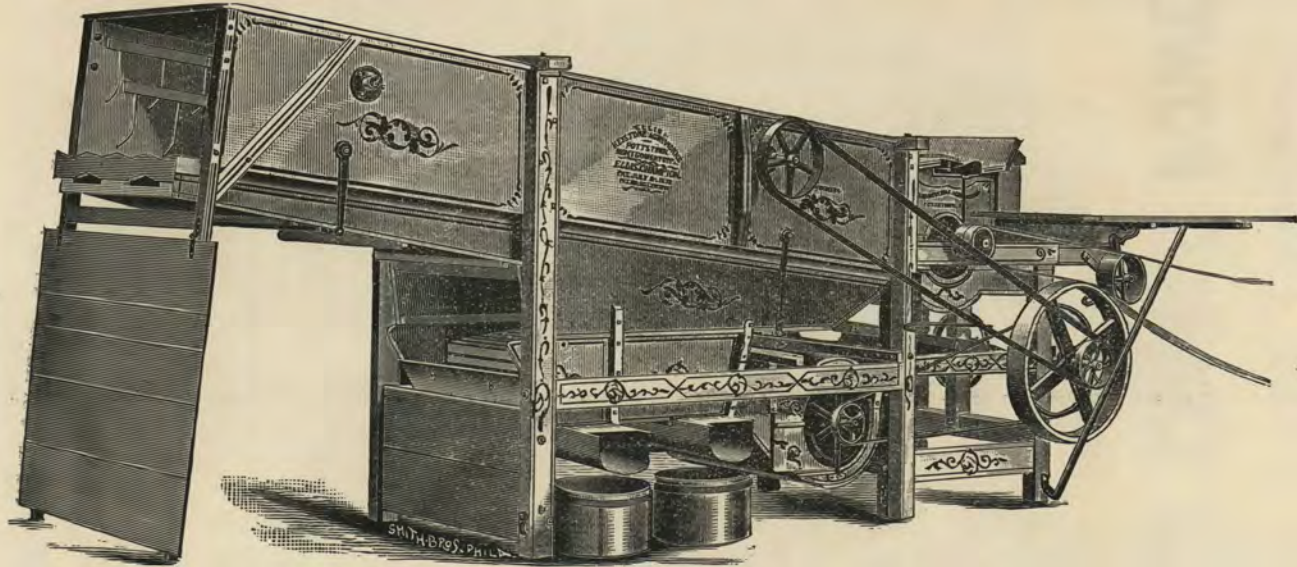
PATENT BRIDGE.

Our Patented Bridge, covering the opening between the main track and back circle, when the Power is stretched for the purpose of tightening the chain, is the only perfect arrangement of the kind in use. No matter how often or how much the power is stretched, the track remains continuous and complete, allowing the wheels to run down its smooth surface without a jar, the same as when the Power was new. This avoids the fearful wear and strain caused by the wheels jolting over the necessary break in the track, and which brings so many powers of other makes to an early end. Look well into it.

This Power *wears longer*, is *less noisy*, walks the horses *slower* than any we ever manufactured. Have had them running from July until September, *threshing more grain* than one average farmer would raise in *twenty years*, and very little sign of wear could be seen on the gear. The thresherman handled them *carefully* and used *good oil* and *often*—which advice we give to all, and by obeying you will be successful,

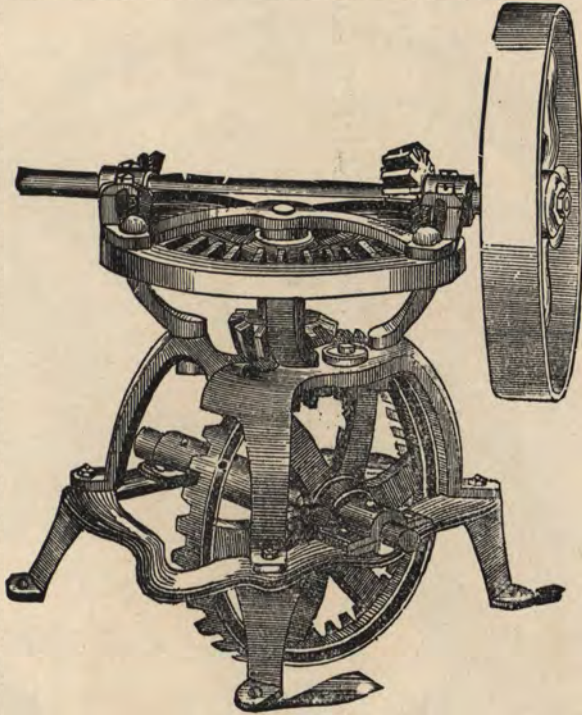
CHAMPION NO. 2.

24-inch Cylinder. 34-inch Trunk.
29-inch Riddles. Weight, 1,100 pounds.

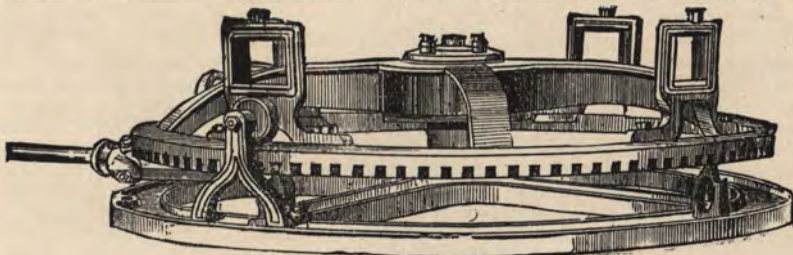


THE above cut represents our No. 2 Thresher and Cleaner, which has the same patent shaker that is in the No. 3 or larger machine, which does not allow the straw to clog on bottom, even if it is cut fine by the cylinder teeth. Can thresh long rye straw without it lodging behind cylinder, as we have rakes that take it away as fast as threshed and delivered on floor or on stacker. Therefore, this device is far superior to *any* revolving apron, and you will find it so by actual test. We put nine bars in cylinder and five rows of spikes in concave. Riddles are 29 inches wide, trunk 34 inches wide, giving ample room for separation; in fact, there is less grain wasted, either in the straw or chaff, than any heretofore built by us. This machine can be, and is, run very successfully by four-horse lever power or two-horse tread power. If you have a good team, straw in nice condition and well filled, you can thresh from 250 to 300 bushels of wheat in a day and double that amount of oats. The chaff this machine makes is free from straw. We hear you say, "That is what we want."

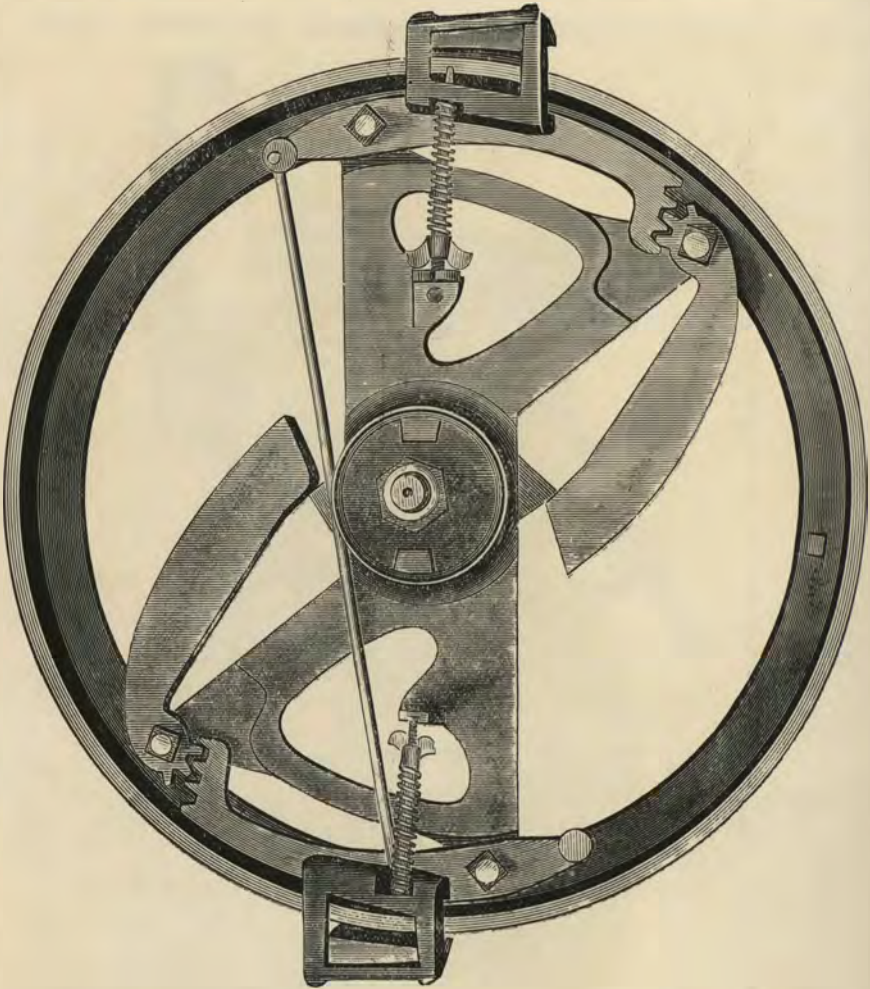
WISSLER UNIVERSAL HORSE POWER JACK



THIS JACK is one of the most obedient instruments for its purpose at the present time in use, which every one must and does acknowledge after examination. for it supersedes anything in its line ever brought to light. The boxes of the horizontal top shaft, with band wheel and pinion attached, are supported by a stationery ring around the upper bevel or crown wheel meshing into pinion of the top shaft, thus communicating motion to the band wheel. Said boxes are movable on said ring to any desired position. Thus you are enabled to set your band wheel in any position you may wish, and reverse its motion by twisting or untwisting the belt. This Jack is admirably adapted to localities where the ordinary Jack is entirely unavailable

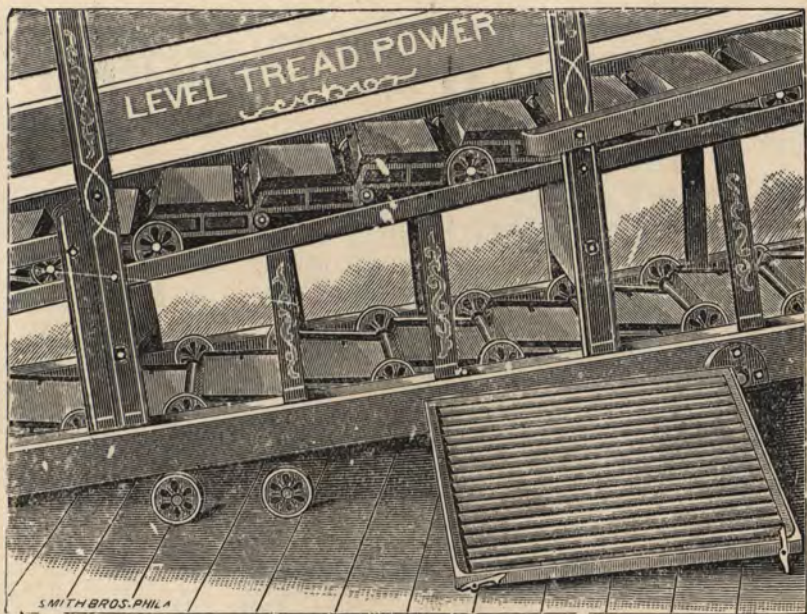


LEVER POWER.



OUR NEW GOVERNOR Has No Superior

ABOVE you see a true picture of our **Governor**, invented by Mr. N. Hoffman, which is used on all our *double-geared* powers. Much time and money have been spent to perfect it, and to make it a *governor* in the *true* sense of the word, which most assuredly has been accomplished. We call your special attention to the levers, and the manner in which their power is exerted on the rubbers. All tread-power governors heretofore invented have but *one lever* or ball on each side of shaft. We differ in that particular, having *two* on each side. The fulcrum on the outer level being close to the cogs where they join, exerts great power (while in motion) on the rubber bracket or lever, and will retain a *steady motion* even when the belt runs off. The power or force of these levers or balls is controlled by spiral springs which in a moment can be tightened or relaxed by a thumb-nut. The Governor is independent of band-wheel. CREAM SEPARATORS require *steady* motion. This Governor will give it. It is on all our Powers,



Sectional View of Our LEVEL TREAD POWER

Don't Forget the Question of Medium or High Track Wheel.

THE above cut was made for the express purpose of showing more clearly the design of our *link* that forms the *level* or *horizontal* foot-board in horse-powers invented by us, for which *letters-patent* have been obtained, a copy of which we give below; an examination of it and that of *any other* will at once demonstrate the device to be *entirely different* from them, and that you will have the *very latest* and *best*, not only in the *level tread*, but in the other points, described under cut of power complete. We here give you a copy of the claims:

"Patent, No. 298,971. May 20, 1884."

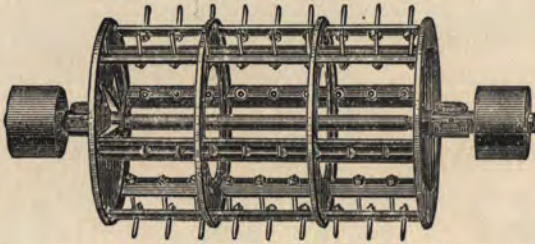
"First.—The link having the rear eye **d** below and in advance of the rear edge of the body, whereby the connecting rod **f** is covered and protected by a lag **F** as set forth.

"Second.—The link having a front eye **b** in line with the body, and the rear eye **d** below and in advance of the rear edge of the body, as set forth."

Steel and Iron Cylinder

NINE BARS OR BEATERS IN NO. 2 AND NO. 3 THRESHERS

The only Cylinder that takes all the dust from Feeder. So truly balanced that there is no motion perceptible on machine while running at a speed of 1,000 revolutions to the minute.



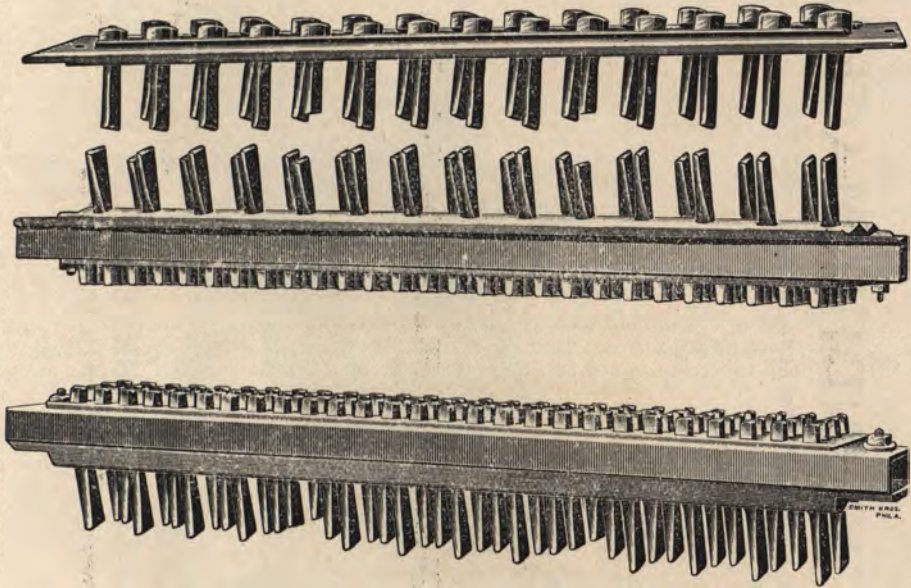
YOU have in the above cut a representation of our **new** open Iron Cylinder, which for strength and other points of excellence has no equal.

The bars, or beaters, are of the best steel. The teeth, or spikes, and the shafts are **steel**. The ends and centre heads are of cast iron, with **refined** wrought-iron bands, making a safe cylinder to stand before. The bars are of peculiar construction (which we have patented), by which we obtain a draught of air in the direction of the motion of the cylinder, thereby taking all the dust from the man who feeds the machine. The spikes in the **cylinder** and **concave** are steel and exactly the same size and shapes and, being straight, are reversible, so that when one edge is worn the cylinder teeth are put in **concave**, and the concave teeth in **cylinder**. The shank is tapering, with no shoulder (which is the true principle), therefore the nut draws the spike securely and is prevented from turning by a lug or projection on the side, with a corresponding slot in bar to secure it. In the machines of other makes, where the **greatest strength** is required, and where other spikes with shoulders are the **weakest**, ours are the **strongest**. You will find this to be the pleasantest cylinder to feed you have **ever stood before**; so say all who have tried them.

We make this assertion, which is the conviction of all who have seen our Steel and Iron Cylinder in operation.

CONCAVE IN SECTIONS

More Threshing Capacity than Any Other in Use.



THE above cut represents our Concave, which we put in all our machines, and it deserves mention, which we describe as follows :

It is made in two sections ; these sections are reversible, so that either side can be placed facing the cylinder ; one side has the spike that is common to all concaves ; the opposite side is provided with a cast plate, which has cast-iron **spuds** or **short teeth**, corresponding with the long spike in position, the object of which is to present this surface of the concave to the work when not much is required on the straw to thresh the grain out, thereby letting the straw pass much more rapidly than if driven through the long spikes ; either section can be loosened, turned and fastened in less than *five minutes*.

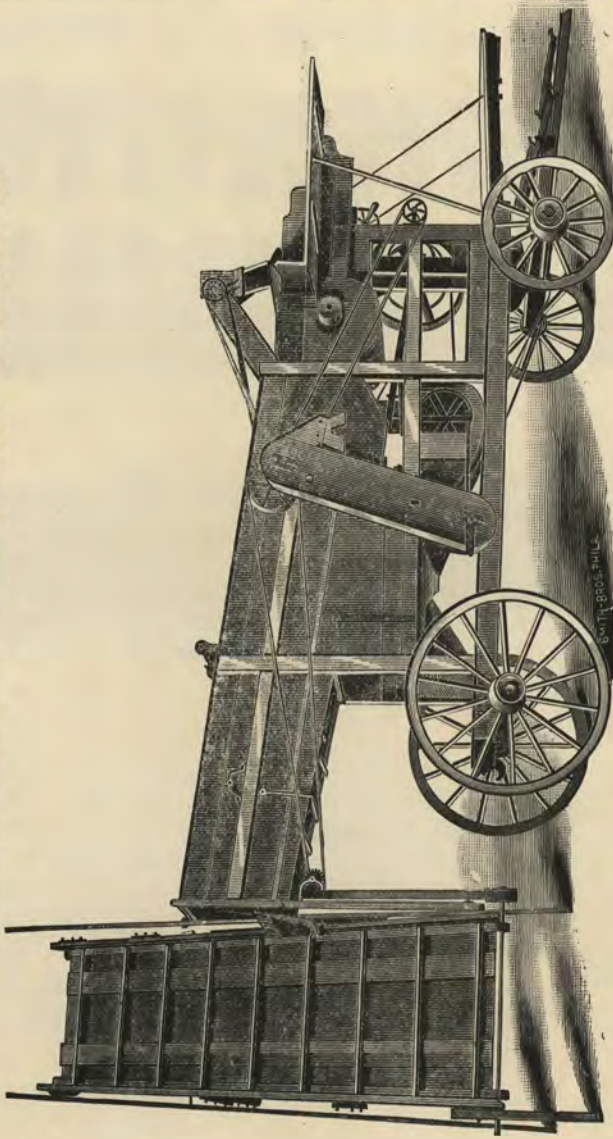
Another new and important feature is the manner in which it is connected with the thresher. It is fastened on a pivot at side next the feeder, and free to fly up at opposite side, so that if anything should happen to pass into the cylinder *other* than *straw*, its hinged lid-like principle allows it to fly up and let the article pass through, doing little or no damage to cylinder or concave.

The side free to rise is furnished with a thumb-screw at each end, by which it can be set close to the cylinder, or raised up and held there, just as the operator finds necessary to do good work. The arrangement has saved large bills of repairs.

For Gasoline, Steam or Horse Power.

OUR 28-INCH CYLINDER MACHINE

Riddles 33 inches wide. Trunk 36 inches. Weight 1900 lbs.



NO. 3 THRESHER AND CLEANER, MOUNTED WITH STACKER.

Tailings Elevator and Grain Bagger.

Threshermen like this size, because it is easy and convenient to go from farm to farm.

No. 3 Thresher and Cleaner

FOR STEAM OR HORSE POWER.

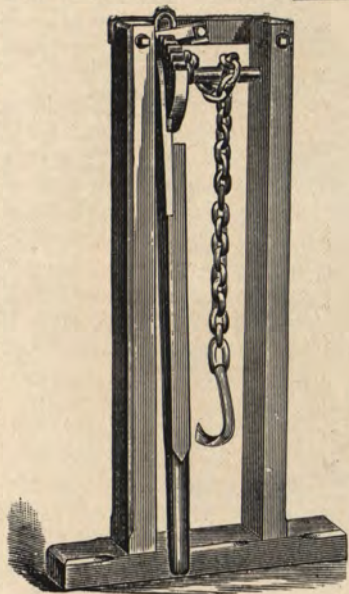
THE cut on opposite page clearly represents our largest Thresher and Cleaner, with Straw Stacker. The **Stacker, Tailings Elevator** and **Grain Bagger** are extra, and furnished only when ordered. The cylinder is twenty-eight inches long, with a corresponding wide trunk or shaker. The pulleys, shaker wheel, table, grain spouts, concave and spikes are reversible. The fan is placed at forward end of wind box, and driven by a belt from shaker-shaft pulley. The direction of the blast is the same as in former machines, coming up under and lifting the chaff upward and outward, which is the true principle for cleaning grain. This machine we build more especially for LEVER, STEAM and WATER POWER; yet it is run very successfully with our Two-Horse Tread Power. Its capacity is greater than many machines of even larger size, on account of its simplicity of construction and the true principle of its PATENT WOODEN RIDDLES.

The quantity threshed in a given time will depend altogether on how well it is operated, how steadily it is run, how large the straw, and how well the grain yields. All things being favorable, it will handle 500 bushels of wheat in ten hours, and all other grain in proportion.

This machine has the same dustless cylinder as the smaller ones, by which the dust is drawn from the feeder, and blown out with the straw.

For strength, durability, workmanship and finish, it is excelled by none.

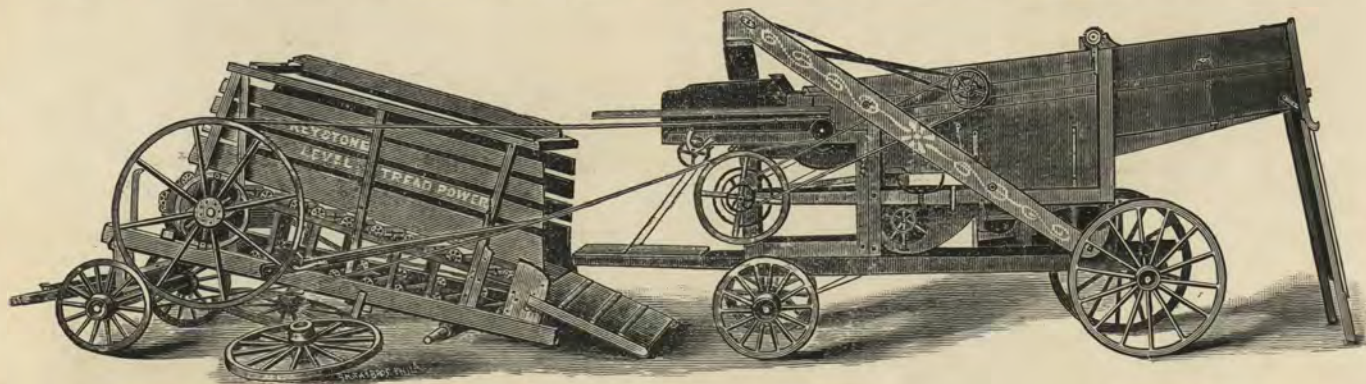
These machines are being run by four to eight-horse engines, with good results.



POWER JACK.

THIS is the great labor-saving implement for the thresherman. With one hand he can raise or lower the power. The safety latch falls in the ratchet wheel at every downward stroke of the lever, and holds the weight until another raise of the lever is made. The ratchet hook on handle and latch on top requires no adjustment with the hand, but works automatically at every stroke. It differs from all others by having a heavy cross-piece at bottom of posts, for the purpose of preventing them sinking in the ground when the weight is applied, and to avoid swaying to one side. We now put on a very strong chain made of refined iron.

TWO-HORSE KEYSTONE LEVEL TREAD POWER



Two-Horse Double-Geared Power Thresher and Cleaner, Mounted WITH TAILINGS ELEVATOR.

The above cut represents our No. 2 Threshing Outfit. 24-inch Cylinder, 34-inch Trunk, Riddles 29 inches. Weight, 4,100 pounds. Mounted on (Warner patent) Wooden Wheels.

TWO-HORSE

Double-Geared Power

THRESHER AND CLEANER

MOUNTED.

THE cut on opposite page represents our Two-Horse Power Thresher and Cleaner **mounted**, and set in position for use.

We claim many **advantages** in this machine that are **not** found in any other make, as we have them secured by **patents**, and are the sole inventors. Among our strongest claims are the following: **The gear in the power**, by which we walk the horse slower, have less friction, are smooth and quiet running, and wear much longer. **The link**, by which we form the horizontal or level tread, and place the cross rods **under** the tread block entirely out of the way of the horses' feet, effectually preventing damage to the power and accidents to the horses. **The governor**, by which the power is controlled while cleaning up the floor, cutting feed, sawing wood and shelling corn. **The direction of the blast**, which lifts the chaff upward and outward. **The patented riddles**, by which a perfect separation is effected, and no clogging of heads on wire riddle. All these improvements are explained singly in other parts of the Catalogue. This machine has gained for itself a popularity amongst threshermen by light running, fast threshing, and good, clean work, that is certainly gratifying to the farmer and the manufacturer. In some instances the thresherman has bought two machines, not being able to accommodate with one machine the numerous customers that called for his services.

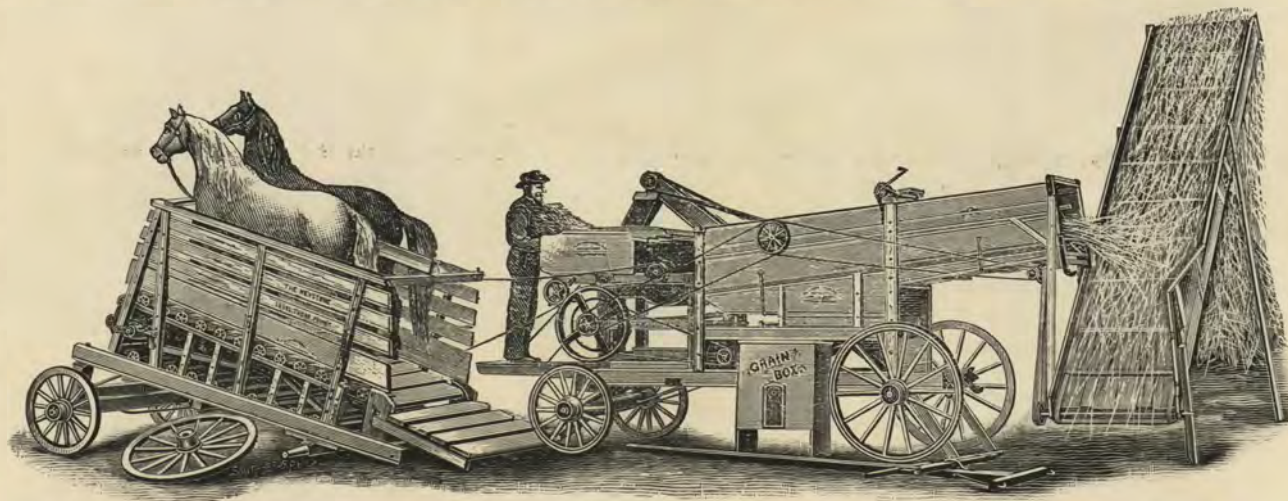
The desire of the farmer to have work done with this class of machine is increasing every year, from the fact that it takes less hands to prepare it, and they can take better care of the straw and chaff. With the improvements in this machine, and the wishes of the farmers to have their threshing done with it, you can order, feeling confident that it will be money well appropriated, and having our guarantee that the machine will do what we say (if properly operated), you can run no risk in your purchase. Our track wheels are $4\frac{1}{2}$ inches high, and we know we are right. We challenge any manufacturer to intelligently prove to the contrary.

TWO-HORSE LEVEL TREAD POWER

—AND—

No. 3 Thresher and Cleaner Mounted

With STRAW STACKER and TAILINGS ELEVATOR.



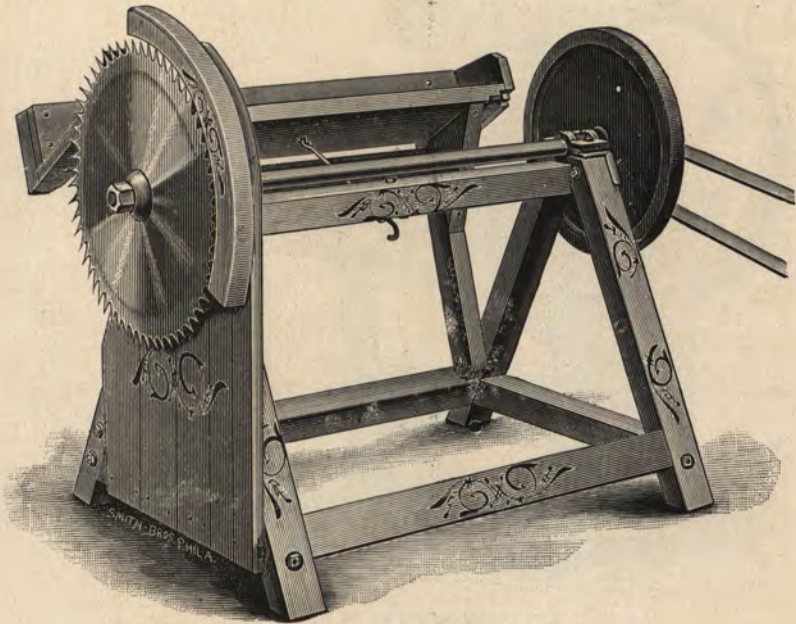
23

The above cut represents our No. 3 Threshing Outfit. 28-inch Cylinder, 36-inch Trunk, Riddles 33 inches. Weight, 4,500 pounds. Mounted on (Warner patent) Wooden Wheels. See description page 19.

CIRCULAR SAW

WITH SWINGING TABLE.

Weight 200 Pounds.



THE above cut gives you an idea of the machine, and the manner it is operated. It will be found very convenient as well as profitable to have one on the farm. Can be run by a one-horse power and do a great amount of work in a day.

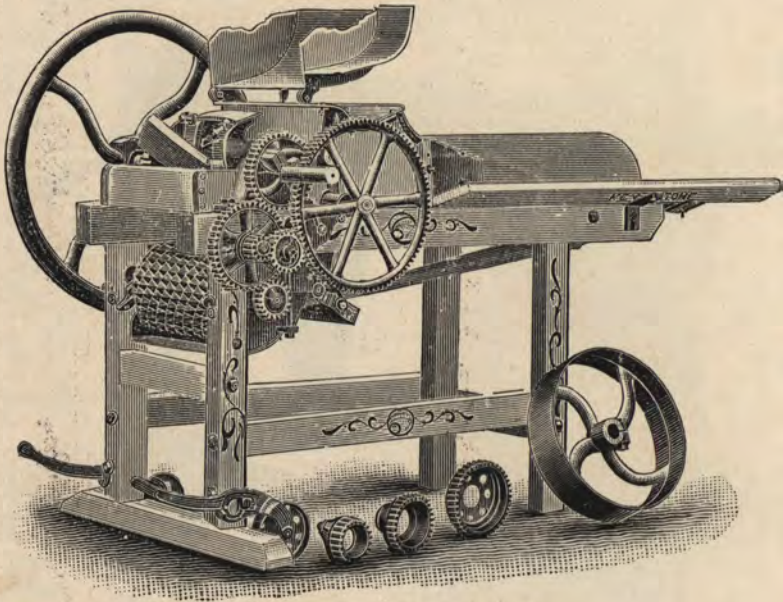
This machine is made strong and durable; has on it a large fly wheel which is important for steady running. Twenty-inch saw is most generally used, but will put on any size ordered, at a higher or lower price, according to size of saw. Any length of poles can be cut with this saw, by placing them on the table at end next to saw.

Feed Economizer of the Age.

Keystone Fodder Cutter

WITH CRUSHER ATTACHMENT.

No Sore Mouth for Cattle where this Crusher is Used



KEYSTONE NO. 13.

THE KEYSTONE FODDER CUTTER, with Crusher attached, has the same safety fly-wheel, band-pulley, stop feed controller, malleable knife-heads and other improvements that make our Food and Ensilage Cutter so popular.

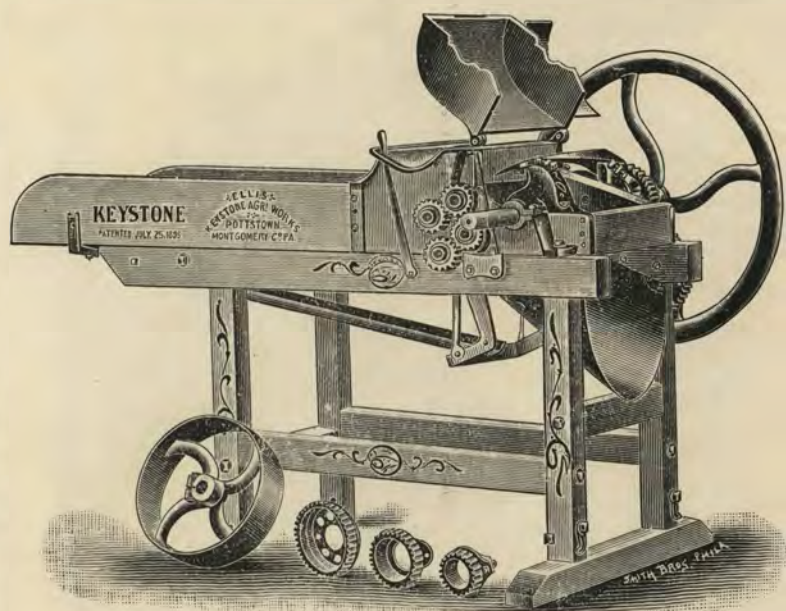
For preparing food from dry fodder it has no equal. It has four knives, cutting the fodder $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ or 1 inch, as desired, which then passes through the crusher, making it soft and pliable, so that horses and cattle eat it all up with a relish and are not troubled with sore gums, so common among cattle when cut fodder is fed without crushing it.

To cut feed without crushing it, remove the nut from long bolt on each side that holds the crusher up, drop crusher and place slide board over cylinder, and feed will be thrown out just as it is cut.

Keystone Fodder Cutter, No. 13.



**Either side of Table can be lowered same as shown
in other cuts. Interchangeable Fly Wheel
and Band Pulley.**



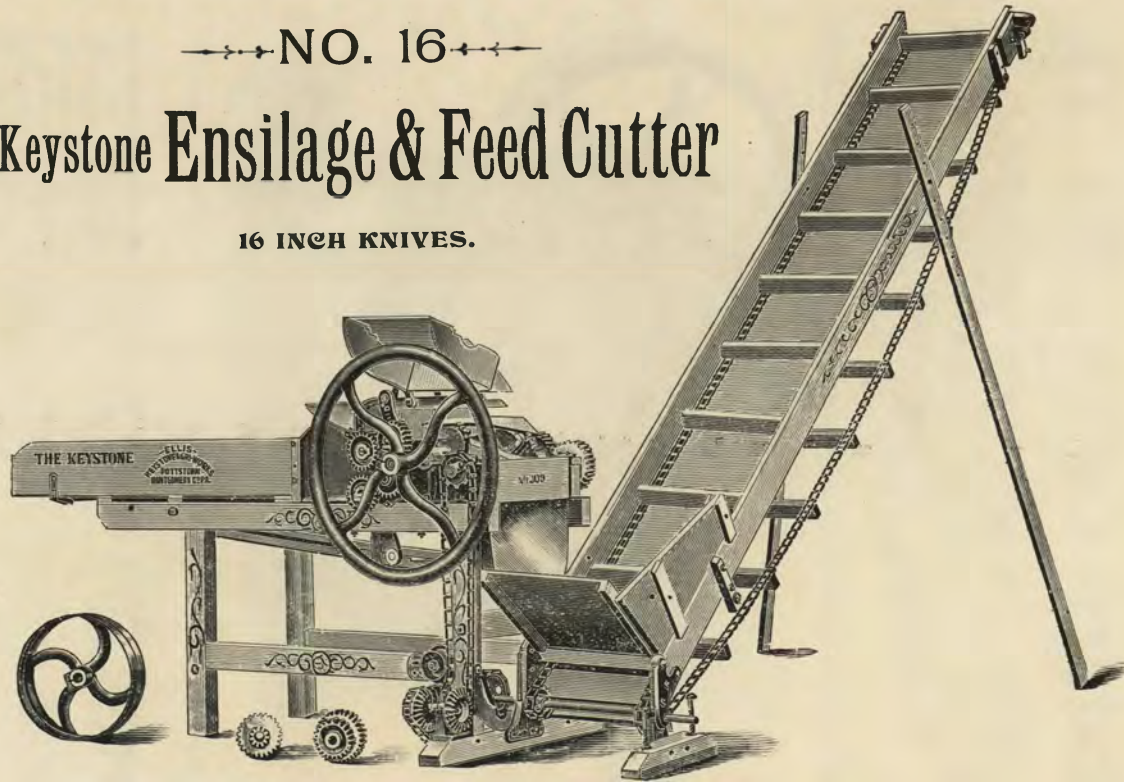
Length of cut, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch. With two knives the cut can be still varied

POINTS : The Hood is of iron, with guard extending over Gearing. Knives of the best steel, well tempered, securely bolted to knife-head and readily adjusted with set screws. Bevel is on outer edge of knives, preventing useless friction and also making them more easily sharpened, either by filing or grinding. Malleable knife-heads of herculean strength. Breast plate is of hardened steel with four edges. Feed rollers will allow any size ears of corn to pass through. Either of the upright sides to the table can be lowered to an angle of 30 degrees, making it a most desirable table to feed from, as it gives the operator room to handle the fodder, and the slope of the side prevents it from sliding off on the floor. The frame is carefully made of seasonable hard wood and is very strong.

—→→→ NO. 16 ←←←

Keystone Ensilage & Feed Cutter

16 INCH KNIVES.



This is our popular size for general power work. It is substantially constructed, with sufficient capacity for silos and it will cut dry corn fodder or hay very rapidly.

KEYSTONE Ensilage and Fodder Cutter

No. 20,

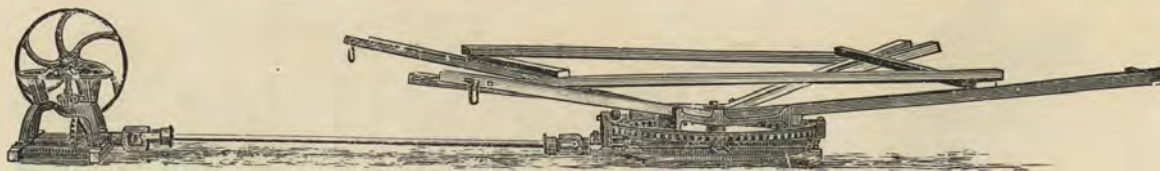
WITH REVERSIBLE CARRIER.

Delivers right, left or straight.

20-inch Knives.



The Keystone No. 20 has all the improvements of our No. 13 and No. 16, and is built much heavier in frame, gears and castings, and is designed for heavy work.

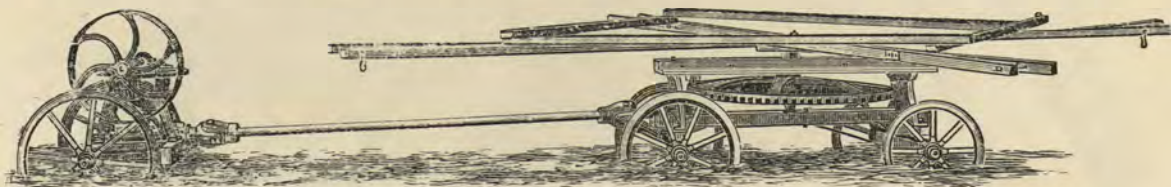
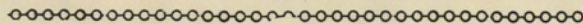


IRON FRAME LEVER POWER

WITH UNIVERSAL JACK.

It is only a few years that this power has been introduced to the farming public, and it has already won its laurels, and the farmers who have them in use are highly pleased with them. It is built of iron with the exception of the levers, braces and springs, and is strongly built, durable and light running, simple in construction, only one large cog wheel and pinion being used, and either the Common or Universal Jack can be used at the same ; can be run with four, six or eight horses, according to size of machine used.

25



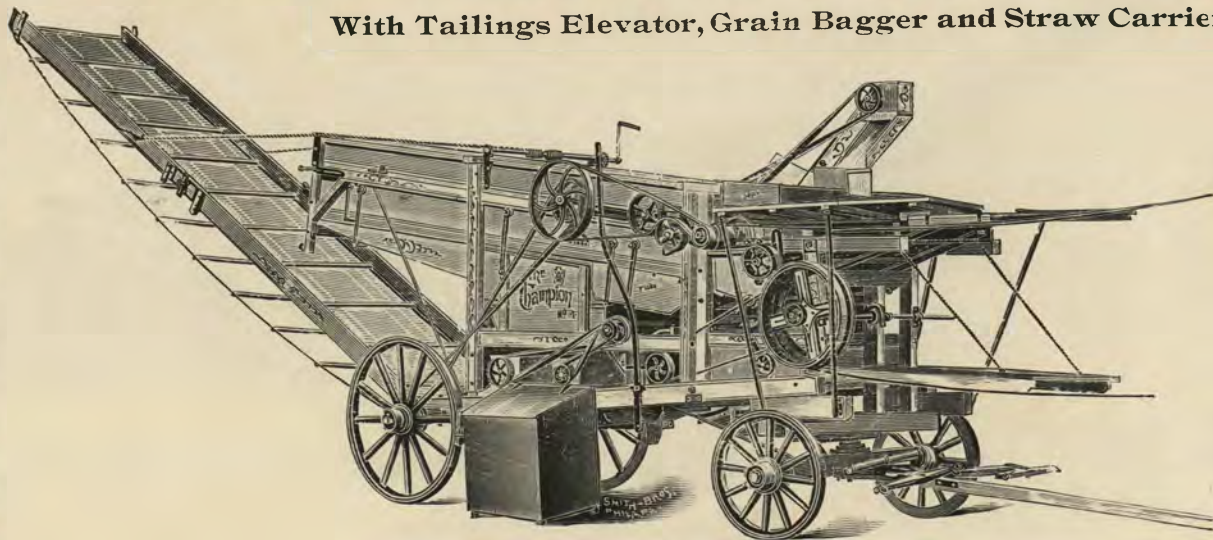
MOUNTED LEVER POWER

WITH UNIVERSAL JACK, SET READY FOR USE.

For Steam or Gasoline Power.

Champion No. 4 Thresher and Cleaner MOUNTED.

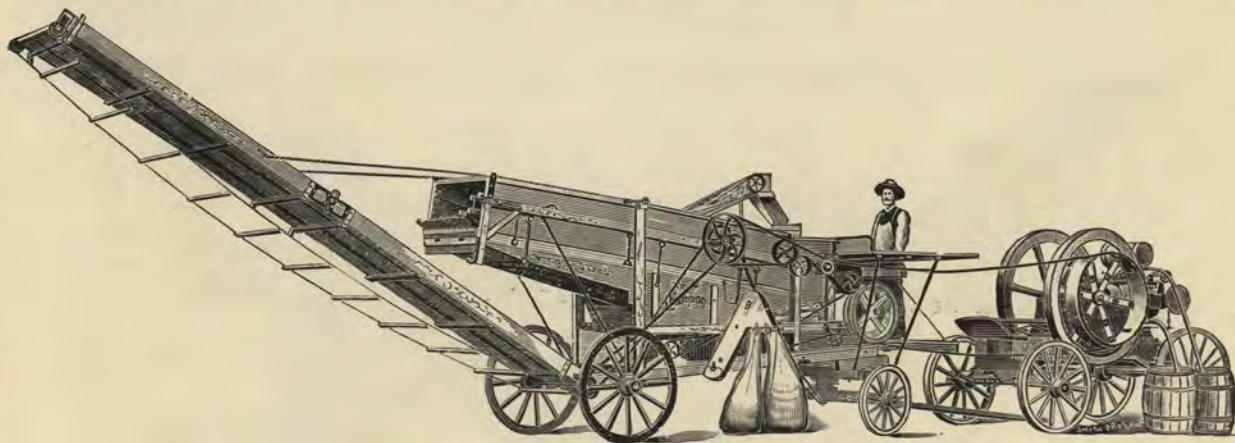
With Tailings Elevator, Grain Bagger and Straw Carrier



32-inch Cylinder (undershot). Truck, 42 inches. Riddles, 39½ inches.

This Separator is built upon the same principle as our smaller machines, and sold under our warranty.

GASOLINE ENGINE AND NO. 4 THRESHER



28

No. 4 Thresher and Cleaner attached to 15 H. P.
Gasoline Engine.

A GREAT SUCCESS.

Thresher and Cleaner described on Page 27.

REPAIR PRICE LIST.

POWERS.

Band Wheel.....	\$ 6.00
“ “ Hub outside No. 25	1.00
“ “ “ inside No. 26.....	.50
Blocks for One-Horse Power (old style) S. G., each.....	.20
“ “ “ “ (new style) L. T., each.....	.22
“ “ “ “ (old style) S. G., per set.....	5.00
“ “ “ “ (new style) L. T., per set.....	6.00
“ “ Two-Horse “ (old style) each.....	.35
“ “ “ “ (new style) L. T., each.....	.45
“ “ “ “ S. G., Even Track, each.....	.45
“ “ “ “ S. G., per set.....	12.00
“ “ “ “ D. G., per set.....	13.00
BELT GUM, 4 in., 3-ply, per ft.....	.16
“ “ 3½ in., 2-ply, “.....	.13
“ “ 3 in., 2-ply, “.....	.11
“ “ 2 in., 3-ply, “.....	.09
“ “ 1½ in., 3-ply, “.....	.07
“ Leather Round ½ in., per ft.....	.16
“ Coupling for ½ in., R. Belt, each.....	.22
BRACKET One-Horse Power (new style No. 23)	2.50
“ “ D. G., (old style).....	2.50
Two-Horse “ “.....	2.75
“ “ (new style) No. 38.....	2.75
Break Catch or Rack for Power Break, each, Nos. 32 and 33.....	.25
Band Wheel Break, iron, (old style).....	.25
Babbitted Boxes for Power, S. G.....	2.00
Bridge Hook No. 30 and Bridge Support No. 37, each.....	.30
Caps for Bracket, Nos. 24, 25 and 26, One-Horse, each.....	.50
“ “ “ 39, 40 and 41, Two “.....	.50
CIRCLES—Front Circles for 2-Horse Power, each R. H. No. 11 L. & No. 12.....	1.25
“ Quarter “ “ One “ “ “ Nos. 9½ and 10½.....	.35
“ Back “ “ Two “ “ “ Inside Nos. 20 R. & 21 L.....	1.25
“ Front “ “ One “ “ “ 9 R. and 10 L., each....	1.00
“ Semi-Circles “ “ “ “ 15 R. and 16 L., “.....	1.00
“ “ “ “ Two “ “ 18 R. and 19 L., “.....	1.25
“ Semi-Circle & Circle, 1895 Comb. 1-Horse, 19½ R. & 19 L., each.....	1.50
“ “ “ “ Two “ “ 20½ R. & 21½ L., “.....	1.75
DRIVER—Power Driver finished, 2-H. No. 23 and 1-H. No. 3, each....	.75
“ “ including Governor Driver No. 22.....	1 25
Guard over Pinion (single).....	.35
“ Lining (single).....	.35
GOVERNOR LEVER No. 87 and Governor Balls No. 27, each.....	.50
“ Double Lever Governor complete.....	7 00
“ Pusey Portable Governor with Breaker and Attachments ..	5 00
“ Ball.....	.30
“ Circle No. 24.....	1.50
“ Springs and Bolts, each.....	.30
PINIONS—Pair Pinions for One-Horse Power.....	2.00
“ “ “ Two “.....	2.25
“ Pinion and Shaft, One-Horse Power, No. 13½.....	2.25
“ “ “ Two “ “ “ 13.....	2.50

Rods—Steel, One-horse Power, per set	\$ 5.00
" " Two " "	10.00
" Rod, One-horse Power, each	.20
" " Two " "	.35
SEGMENTS—Segment for One-horse Power (malleable) each	.20
" " Two " "	.30
Set " " " " "	10.00
Set " " Two " "	13.00
TRACKS—Main Track One-horse Power, S. G.	1.50
" " Two " " S. G.	1.75
" " One " " D. G.	1.50
" " Two " " D. G.	1.75
Lower " " " " D. G., front end Curve No. 17 R.	.75
" " with Ear on 13 R., One-horse	.50
" " " " 12 L., " "	.50
" " " " No. 14, " "	.50
" " Two-horse No. 17½ L. with Curve	.75
" " " " No. 75 R. with Ear on	.60
" " " " No. 16 L. " "	.60
WHEELS—Wheel for One-horse Power, cast	.12
" " Two " "	.16
Set Wheels for One-horse Power, cast	6.00
" " Two " "	9.00
One-horse Power Sprocket Wheel No. 8	1.25
Two " " "	1.50
One " " Gear and Sprocket Wheel D. G. No. 5	3.00
Two " " " " " " 36	3.25
Truck Wheels under Power, Two-horse, each, No. 28	.35
" " " " One " " 20	.25
Trunnion " " Two " " 29	.35
" " " " One " " 21	.25
Mall Clip to raise Power No. 5	.30
Left Hand Main Shaft Box No. 6	.60
" " " Cap No. 2	.40
" " Bracket No. 42	2.50
" " Front Circles 9 X R.	1.00
" " " " 10 X L.	1.00
Churn Wheel with Pin and Clip No. 1	7.00
Clamps for Knocked-down Power No. 100	.40

THRESHERS AND CLEANERS.

BOXES—Cylinder Boxes each (Babbitted) Nos. 5 and 6.....	\$	1.00
Shaker “ “ One-horse Machine, Nos. 1 and 2.....		.40
“ “ Two “ “ “ 14 15.....		.50
Yoke “ “ finished, Nos. 46, 47, 44, 45.....		.25
Rake Boxes for Nos. 1 and 2 Machines, each, 42 and R. 3....		.50
“ “ No. 3 “ “ Nos. 14 and 44		.60
Bag Holder complete, Nos 36-99.....		.40
BOTTOMS—Grain Bottom Yoke, Nos. 1-2-3.....	\$	1.50
Cleaner Shaker Bottom for No. 1 Machine.....		2.75
“ “ “ “ “ 2 “ 		3.25
“ “ “ “ “ 3 “ 		3.75
One-horse Shaker Bottom (Plain)		2.75
Grain Bottom Hangers (Malleable) Nos. 47 and 48		.30
“ “ Stud		.25
BUTTONS—Shaker Buttons, each, plain.....		.15
CHEEKS—Thresher, each, 3 R. and 4 L		2.50

CONCAVES—Concave Hinges, Nos. 1, 2 and 3 Machines, each.....	\$.75
Concave " for Plain Thresher & Fan Blow, R. 5 & 6 L., each	.60
Cast Concave, One-horse, each, with Spuds, No. 10	1.00
Cast Concave, Two-horse, each, with Spuds, No. 20.....	1.25
Concave Spike, each, without nut	.07
" " for One-horse (Iron) complete	8.00
" " Two " " 24-in. Cylinder, complete ..	10.00
" " " " " 28-in. " " " "	12.00
CYLINDERS—Cylinder Spike, with nut.....	.08
" " Heads, each, No. 1½, (6-Barr)	1.25
Iron Cylinder for One-horse (6 Barrs)	10.00
" " " Two " 6 " 24-in.....	12.00
" " " " " 9 " 24-in.....	15.00
" " " " " 9 " 28-in.....	20.00
Cylinder Pulley (finished) One-horse, 6 in., No. 7.....	1.50
" " Driver Pin, 11½	.45
Centre Heads, each, No. 3½, 9-Barr.....	1.00
Cylinder Head, 2½, 9-Barr.....	1.50
" " Pulleys, One-horse, 5-in., No. 8.....	1.50
FANS—Upper Fan Casings, each	.75
Lower " " "	1.50
Fan Support, each, Nos. 29 and 29½	.75
One-horse Fans, each.....	1.75
Two " " "	2.00
Fan Spider, No. 31	.50
FORK IN CLEANER, complete.....	1.50
RAKES—Box No. 42, One-horse.....	.50
One-horse Rake Crank, each.....	2.50
No. 2 Rake Crank, each.....	3.50
" 3 " "	3.75
Rakes with Lines, One-horse, each, with W boxes.....	1.25
" " " Two " " " " " "	1.50
HANGERS—Shoe, No. 32.....	.25
Hangers for Cleaner, old-style, each.....	.50
Shaker Hanger, each, plain.....	.20
MALLEABLE IRON CLIPS—Small.....	.35
Large and Eccentric, each	.50
PULLEY FALLS—Each.....	.05
PULLEYS—No. 14, 6-inch.....	.50
" 49, 7-inch.....	.55
" 48, 10½ inch.....	.60
BELT SHIVES—Largest, No. 34.....	.60
Double, No. 90.....	.60
SHAKERS—One-horse Shaker.....	15.00
Two- " " 12 ft.....	25.00
Shaker Shaft, old style, Nos. 2 and 3.....	4.00
Cleaner Shaker Shaft, One-horse, new style.....	2.00
" " " Nos. 2 and 3 Machines.....	2.50
Shaker Shaft, plain	1.50
" " Trunnions, plain, each.....	.20
" " Wheels, with Shive, finished.....	3.00
" " Hub, finished, Nos. 4 and 12, each.....	.50
One-horse Spouts, each	.50
Two " " "	.75
TIN AIR TUBES, each.....	1.00
THUMB SCREWS FOR CONCAVES, each.....	.10
TRUCKS FOR THRESHER AND CLEANER, each.....	.60
WRENCHES—Small Malleable Iron Wrench	.15
Large " " "	.25
WOOD SPRING on Connecting Rod, (small)	.25
" " " " " (large)	.50

SIEVES AND SCREENS—One-Horse		
Sieve (wooden).....	\$	1.75
“ “ Wheat Sieve (wire).....		.75
“ “ “ Screen		.75
“ “ Oats Sieve (wooden)		1.50
“ “ Oats Blank.....		.50
“ “ Buckwheat (wire).....		.75
No. 2 Chaffing Sieve (wooden)		2.00
“ Wheat Sieve (wire)		1.00
“ Wheat Screen (wire).....		1.00
“ Oats Sieve (wooden)		1.75
“ Buckwheat (wire).....		1.00
“ Oats Blank		.75
“ 3 Chaffing Sieve (wooden).....		2.25
“ Oats Sieve (wooden)		2.00
“ Wheat Sieve (wire)		1.25
“ Buckwheat “		1.25
“ Oats Blank		1.00
“ Wheat Screen (wire)		1.25
TRUCK WHEELS FOR THRESHER, per pair.....		1.20

BAGGER and TAILINGS ELEVATOR CASTINGS.

Box Nos. 1 and 2	\$	1.00	Bottom Box No. 7	\$	.25
Bottom Boot No. 4.....		.75	Hanger, No. 8½.....		.40
Hangers, No. 8		.40	Cast Sprocket and Shaft, No. 3		.50
Slotted Box No. 6.....		.30	Eccentric, No. 10		.15
Shaft and Sprocket		.60	5-in. Pulley, No. 2½, Long Hub		.50
5-inch Pulley, No. 2		.40	Button Box, No. 5½		.50

STRAW CARRIER.

Flanged Pulley, No. 1½.....	\$	.40	Windlass Support, No. 9 R. and		
Front Box, Nos. 3 and 4, each		.50	10 L., each	\$	.50
Rear Box, No. 5.....		.30	Catch No. 11		.25
Hooks for Stacker Rests, No. 6			Box No. 12 R. and 13 L., each		.35
R. & 6 L., each.....		.50	Roller Box, No. 14.....		.30
Windlass Racket, No. 8.....		.40	Windlass Hook for Rope, No. 94		.25

POWER SAW.

24-inch Saw (Disston & Sons).....	\$	9.00	Boxes, each.....	\$	.75
22-inch “ “ “ ..		8.00	Collars, large, (with pin).....		.75
20-inch “ “ “ ..		7.00	Collars, small, “ “		.50
Steel Shaft, finished.....		5.00	Table Hook Eye, No. 103		.20
Balance Wheel, No. 1.....		3.50	Box Cap, No. 130.....		.50
Pulley, No. 8		1.50	Steel Guard		.50
Pulley Driver, No. 11½.....		.40			

16-INCH CUTTER and CRUSHER, 1897.

Hood, No. 112	\$	1.50	Crusher Case, A3.....	\$	1.75
Roll Cover, No. 113		1.00	Concave, A5.....		1.00
Feed Slide, xxxxx		.40	Feed Rollers, each.....		2.00
Breast, No. 105		1.75	Crusher Cylinder		3.50
Press Lever, A2		.90			

OLD CUTTER.

Cutter Sides, D. & E., each..\$	1.75	Gear Wheel, No. 11.....\$	1.25
Cutter Heads, F. & G., " ..	1.25	Cutter Head, each 10 R, and	
Bonnet Sides, H. & J., " ..	.50	12 L.....	1.25
Internal Gear Wheel, N.....	1.25	Shaft Boxes, each.....	1.00
Shut Wheel, O.....	.90	Press L, Bracket No. 7.....	.25
Main Shaft Cog Wheel, P....	.75	Press Lever	1.00
Breast Pin K.	1.25	Lever Ball, No. 9.....	.75
Shur Trunnion, Y.....	.40	Small Pinion for Main Shaft..	.75
Stop for Lever, &.....	.20	Finger Wheels, each.....	.50
Angle, No. 21.....	.20	Knife Cover Check, each....	.50
Knees, each.....	.25	Knife Knee, finished.....	.25

13-INCH CUTTER, NEW, 1897.

Balance Wheel, A16	\$ 4.00	Shifter, A13.....	\$.50
Belt Wheel, 12, 14 and 16 in.,		Breast, 104	1.25
each.....	2.25	Angle, 114.....	.20
Hood for Cutter, No. 110....	1.25	Pinion Stand, A12.....	.50
Feed Roll Cover, 111	.75	Upright Support, 115	.25
Cutter Sides, A16 and A17, each	2.00	Press Lever, L.....	.75
Feed Sides, xxxxx.....	.30	Main Box Cap Babbitted, M..	.50
Sieve Cog Wheel, A6	.50	Flange Pulley, Q.....	.60
" " " A9	.75	Slide, each T. and U.....	.35
" " " A11	.65	Lever for Chain, V.....	.50
Gear and Pinion Wheel, A10..	1.00	Lever Stop Rolls, X.....	.60
Steel Cog Wheel, No. 106		Sprocket, each No. 52 and 53	.40
place of A8.....	1.00	Top and Bottom Rolls, each..	1.75
Cog Wheel, A7.....	.40	Mall. Cutter Head, A1 and A2,	
Gear " A15	1.25	each.....	1.25

13-INCH CRUSHER, NEW, 1897.

Pinion, I	\$.60	Concave, O.....	\$.75
Cap, R.....	.50	Cylinder for Crusher.....	3.00
Side Casting, W. & X.....	.35	Thumb Buttons, each No. 11	.10
Crusher Case, L.....	1.50		



