



THE JOHNSTON

HARVESTER
COMPANY,

BATAVIA,
NEW YORK,
U.S.A.

1907.

Johnston Home Office and Factory.



Johnston Binder in New York.

COMPETITION

Is of just as much interest to the farmer as to any other man in any other business. If it were not for competition, he would get less for everything he sells and pay more for everything he buys. Without independent manufacturers, of whom will you buy and where and when and how? Will you ever get improved machinery? Will you ever get deliveries on time? We will suppose you have ordered a binder for delivery on a certain date. If not delivered and there is but one manufacturer, you can not very well say, "I'll buy elsewhere." If he charges the extreme price, you can not say "I'll look around first." You will pay what he asks or go without. This fight for independence is not a matter of dollars and cents only, but self-preservation.

JOHNSTON machines are manufactured by an independent company. Your interests are our interests. We believe in competition. We believe in you, in your integrity, your intelligence, your ability to do your work. We believe, because of our past experience with you. We

want you to believe in us for the same reason.

We have kept our promises, proved our sincerity, justified our position. We have lived up to our reputation in every way. We have given you each year quality, quantity, service, satisfaction. We, as independent manufacturers and active competitors of every other manufacturer of harvesting machines, have "an ax to grind" with the farmer.

Here is the point of the whole matter. As competitors, we must give our customers the best possible or go without the business.

Without your support, the trust can not live. With your support, the independent manufacturer will live.

It is for you to decide. We thank our friends for their magnificent support in 1906.

THE JOHNSTON HARVESTER COMPANY, Batavia, N.Y., U.S.A.

OFFICERS

E. W. ATWATER - President and Treasurer
G. A. FARRALL - Vice-President and Supt.
L. D. COLLINS - - - - - Secretary

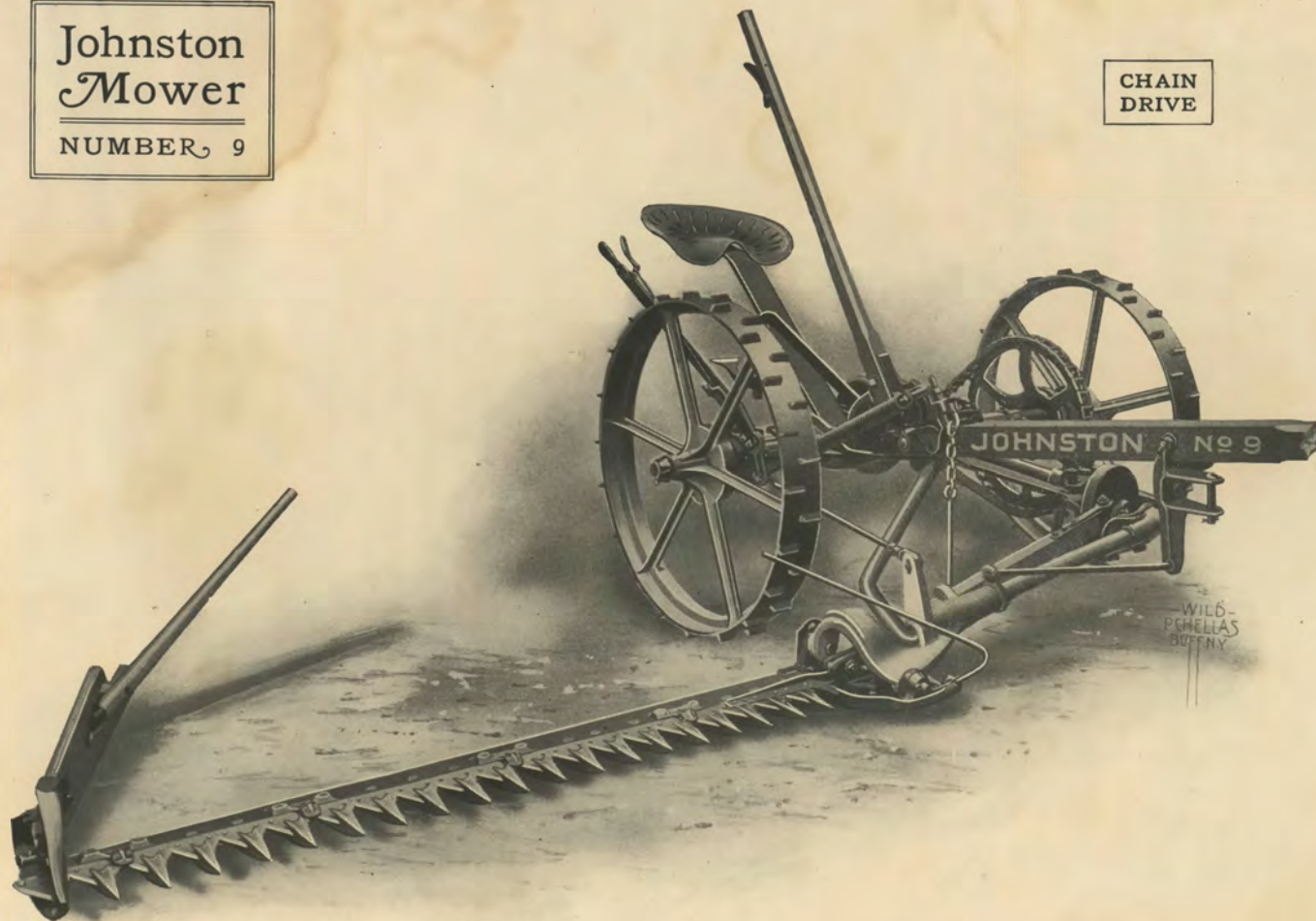
WE are not in the trust, of the trust, for the trust, by the trust; no stockholder in the trust holds any stock in The Johnston Harvester Co. and no stockholder in The Johnston Harvester Co. holds any stock in any other harvesting machine company; nor have we any agreement, verbal or otherwise, or stand in any position which in any way tends to compromise our independence. 🌾 🌾 🌾



Johnston Mower

NUMBER 9

CHAIN
DRIVE



WILD-
PHEASANT
BUFFY

SIZES—4 feet 6 inches, 5 feet, 6 feet.

Johnston Mowers

NOS. 9 AND 10

THEY ARE built to please the FARMER.

They are built for strength, wearing qualities, working qualities. They are built to save and not to make more expense. Easy on horses, easy to operate. Will cut any kind of grass that grows. Will work in level fields or on side hills, in each case doing

their work well.

Take your choice of chain-drive or gear-drive. We furnish either.

They are built alike, except the driving machinery.

On the No. 9 we use steel Locke Belt, the links of which are detachable and yet never come apart in operation. This chain is a very strong and entirely

is provided with three pawls.

They compel continuous, even motion without unnecessary jar to the knife and waste of power.

Chain and gearing are well shielded.

The small sprocket on the No. 9 and small pinion on the No. 10 are easily detached in case of wear.

The main frame is in one piece, cast iron, a sure bearing for the shafting and gearing, so that they will always be in perfect line and run with even

motion and without unnecessary wear. Both main axle and intermediate shaft at the rear have two sets of roller bearings, reducing the draft. The bearings are cold-rolled steel, with steel washers at each end to keep them in line, and keep out the dust.

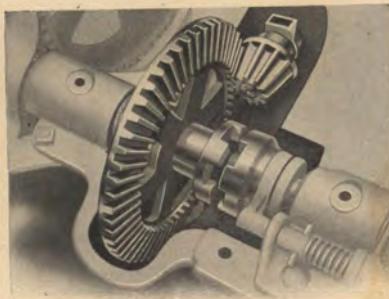
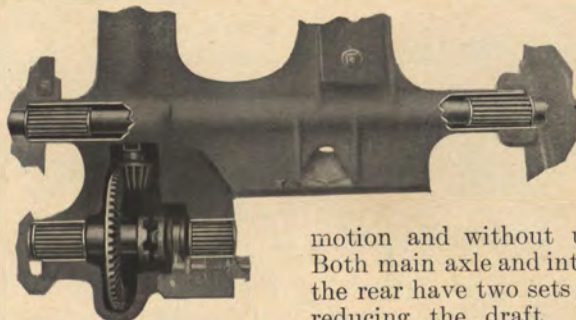
The crank-shaft on each machine runs in horizontal position under the main axle; retains oil and does not wear. The shaft is heavy and runs without vibration.

Separate boxes at each end hold the shaft in line.

They are easily and cheaply replaced when worn.

The gearing is back of the main axle, giving balance to the machine.

It is always in perfect mesh, and a lever, in easy reach of the operator on the seat, throws the machine in or out of gear. Note, also, provision for oiling all bearings.



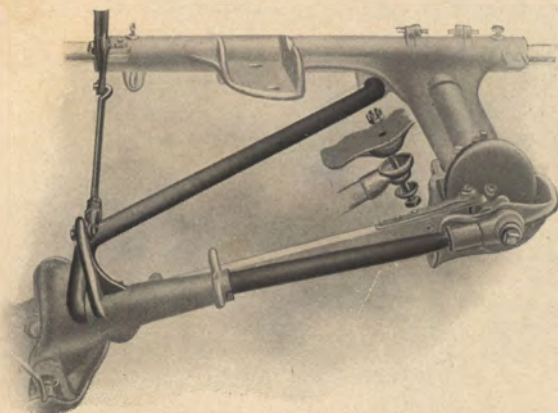
satisfactory way of transmitting power. An adjustable tightener is used. On the No. 10 Mower we have a small driving-pinion on separate shaft at the rear, and a heavy, powerful gear on the main axle, driving the machinery with sure force.

High drive-wheels furnish the necessary power. Each wheel

Johnston Mowers

NOS. 9 AND 10

machine are properly divided each side of the pole and draft-rod. This is the only way to prevent side draft, to get



even draft. In these mowers the draft is evenly divided between the pole drawing the truck and the draft-rod pulling the cutting apparatus.

Wide-cut machines have frame extension to widen the truck and make draft even. Another thing that tends to

lessen the draft is that the whiffletrees draw from the under side of the pole, and the draft-rod, attached to

evener-iron under the whiffletrees, pulls in a direct line from the push-bar. Steel chafing-plates make whiffletrees and eveners work easily and prevent wear. The whiffletree-hooks are set in the ends



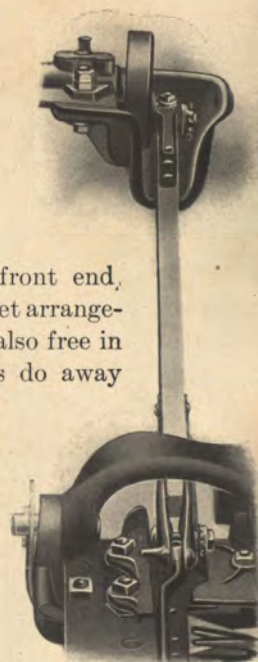
and will not pull out. The steel push-bar is in one piece. The rear end is attached under the frame at a point nearly in line with the front end, which has a ball-and-socket arrangement. The push-bar is also free in the joint. These points do away entirely with binding in the joints, when the bar is raised. The push-bar joint is wide and attached by steel pins to the shoe at two points. This reduces the wear, and the bar and knife are easily kept in line with the pitman.

The pitman is made of selected hardwood, with heavy malleable connections at each end. The pitman-box is cast iron, lined with babbitt metal to make a



perfect bearing and prevent heating. Oil feeds to the bearing surface from a separate part

of the box. The pitman is attached to knife and crank-wheel by bolts having ratchet-nuts, which are held in place by steel lock-springs. Makes an easy adjustment and always stays in place. The box slips over a steel wrist-pin, riveted to the crank-wheel, and is held there by malleable washer with flange that keeps out the dirt. The pitman is very nearly three feet long and has a direct push and pull on the knife. This reduces friction to the least possible amount.



THE cutting apparatus must be absolutely right. The Johnston bar is cold-rolled steel, with a bead on the under side for strength. It is always rigid. The malleable guards are fitted with serrated steel plates that give

Johnston Mowers

NOS. 9 AND 10

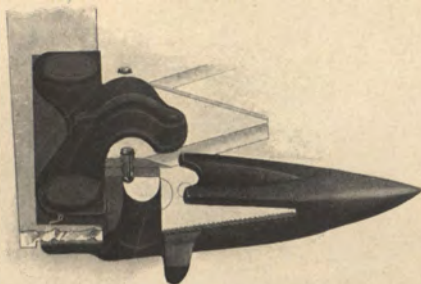
the knife a perfectly shear cut. The guards are fastened to the bar with countersunk head-bolts,

points at which the knife will cut. The tilting-lever connection has a take-up to further control the cutting angle, if necessary. A simple twist of the wrist does it.

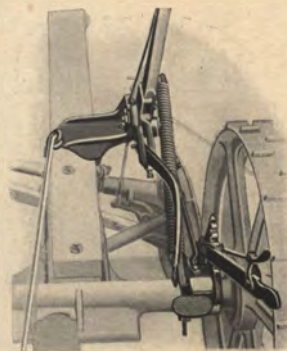
with nuts on under side. This leaves the bar smooth on top, with nothing to catch the loose grass. We make our own knives, using the best grade of section steel. The sections are fastened with rivets that have oval heads, top and bottom. These take out the grass through the openings between the guards.

The sections extend over the knife back and bear on hardened steel wear-plates, keeping the knife in perfect line. These plates may be adjusted to take up the wear. The outer shoe is fitted with a steel sub-sole or sole-plate. It is adjustable to suit any height of stubble.

The tilting lever gives a wide range of adjustment to the bar as to its cutting angle. The cut shows inner shoe at its normal height, and the dotted lines indicate the highest and lowest



We show a rear view of the tilting and raising levers, the foot-lever and the carrying-spring. Note convenient location and clearance

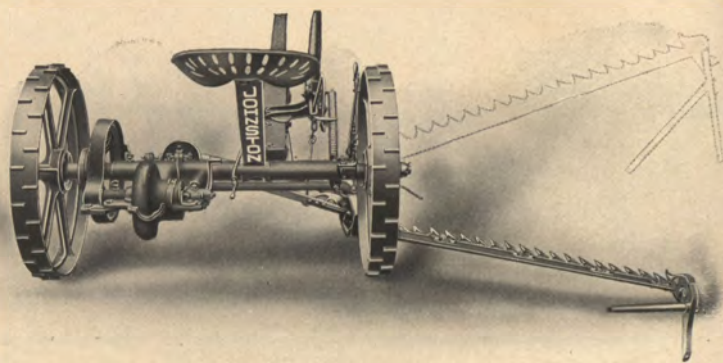


between levers. In separate cut, note raising gag and its bearing on the inner shoe. When raising-lever is drawn back, the gag acts instantly on the shoe and forces the bar to rise.



Johnston Mowers

NOS. 9 AND 10



WE show above a rear view of mower with bar in two positions; also a side view of levers, spring-lever connections, push-bar, draft-rod and evener-plate. The operator has absolute and easy control of the bar at all times. All levers are in easy reach from the seat.

Adjusting hooks regulate the tension of the raising-spring and take up the wear in the chain. The spring carries the weight of push-bar and cutting bar and relieves the jar when the bar returns to the ground.

Release of the raising-lever drops the bar quickly or gradually, as the operator wishes.



Note direct pull of draft-rod. For transportation, the cutting-bar can be raised to vertical position and securely

held there by the bar-support (which is always attached to the machine).

The support passes through hole in the bar and is quickly fastened by a crank-nut.

After all, the real test is "what do the farmers think of it?"

From letters received from all parts of the country we quote the following:

"A good mower for hilly country," "cut fifty acres without a bit of trouble," "light draft, no neck weight, no side

draft," "a smooth, even cutter," "can cut any kind of grass that grows," "bought my Johnston machine twenty-seven years ago; have cut from fifteen to thirty acres each year without a cent of expense except for sections."

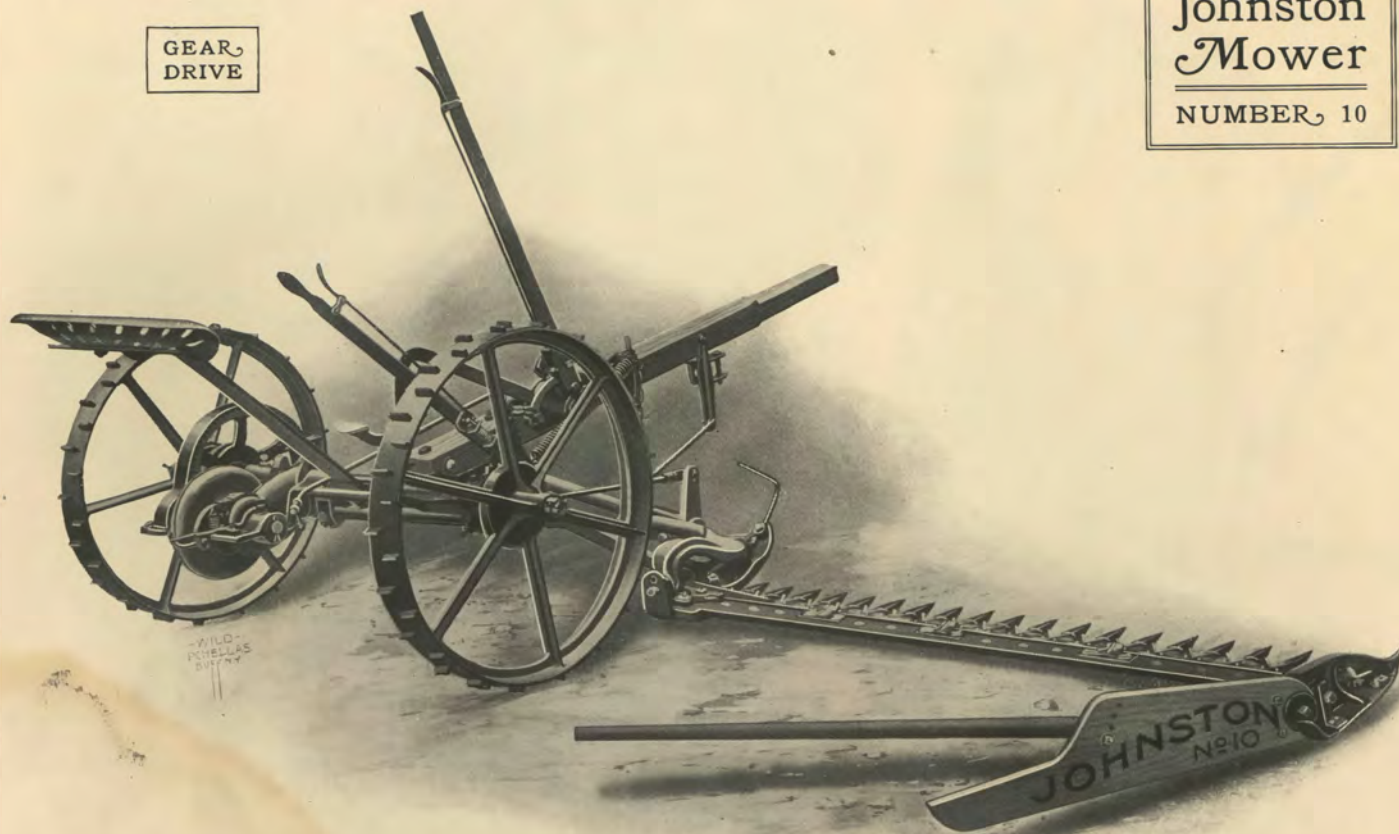
Do not these opinions confirm our claims? These men know what they are talking about, and we would not have the right to claim anything if our customers were not satisfied.

Lack of space prevents printing here the entire letter in each case, but you can have them by writing us to that effect.

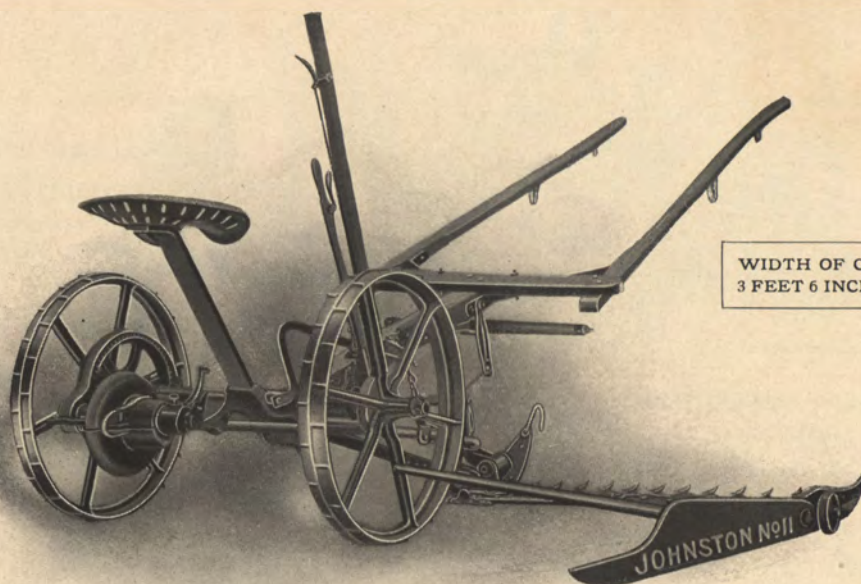
GEAR
DRIVE

Johnston
Mower

NUMBER 10

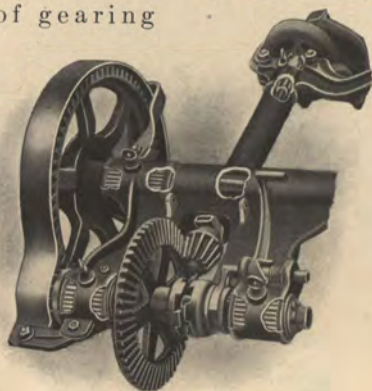


A powerful cutter. Does smooth, even work. Light draft. No side draft. No neckweight. Easy to operate. Wears well.



THIS is our third season with this machine. It has been very successful, and the demand for one-horse mowers is growing rapidly. They are a necessity in parks, on extensive lawns, in orchards, on small farms. The No. 11 is built on same general lines as the No. 10 Mower. Has a perfect system of gearing placed at the rear of the main axle, horizontal crank-shaft with separate boxes (the front one of brass), long wood pitman, roller bearings for main axle and bevel wheel-shaft, three pawls in each wheel, convenient levers. The bevel-gear shield, on under side of the frame, and the crank-wheel

Johnston
ONE-HORSE
Mower
NUMBER 11



shield, in front, are detachable. They are easily and cheaply replaced, in case of accident.

The thills are well made, of good stock and thoroughly braced. The singletree draws from under side of the stub tongue. The draft is light and the machine an economy in every way.

While we have not manufactured this particular mower very long, we have made one-horse mowers for twenty years and we know what is necessary as to draft and close cutting.

We build to meet the conditions under which a one-horse machine is operated. It has power and capacity and wears well.

JOHNSTON Hay Fields

GENESEE COUNTRY.
THE GARDEN SPOT OF AMERICA.



**"COULD NOT CLOG IT." "MADE OF
GOOD STUFF"**

IRENE, ILL., June 12, 1906.

Lindsay Bros., Milwaukee, Wis.:

GENTLEMEN,— I have to-day started the 5-foot Johnston mower purchased from Houdeshell & Son, your agents at this place, and I am pleased with it in every particular. I cut in very heavy marsh hay where there was a heavy growth of dead grass left from last year and I could not clog the machine. I also cut in timothy and very light June grass, and for easy draft and quiet, steady motion and clean cutting, it beats any mower I ever saw. I took the neckyoke off to see if it had any side draft, and I cut one round without the mower turning in to the grass once. I like the build of this machine and am pleased with the tilting device, and the foot and hand lift appear to be perfect. I cut into some wire that was left along the fence and also cut into a one-half inch bolt which made the wheels slide, but it did not injure the guards and only took a small piece out of one of the sections, which are certainly made of good stuff. I am fully satisfied with the Johnston mower.

Yours truly,

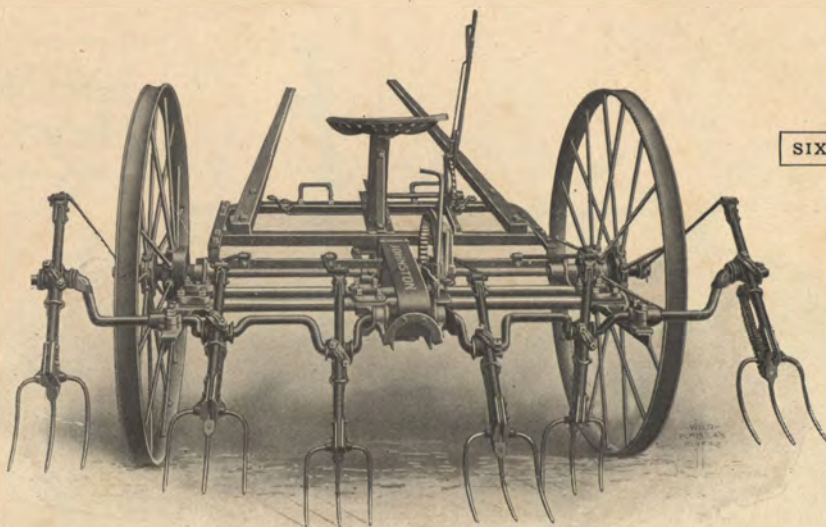
R. A. BURTON.



Field of Cow Peas



Johnston in Italy



SIX-FORK

THE more you put into a crop, the higher the satisfaction and the greater the profit you will get out of it. On the harvest side of the question, we know we are right when we say that it is a sin to cut your grass and let it lay for the sun to

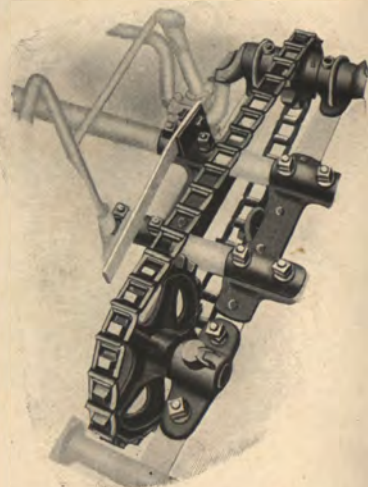
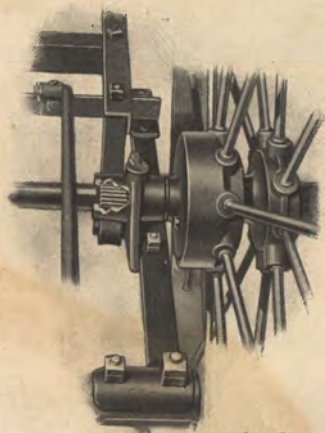
Johnston Steel Hay Tedder

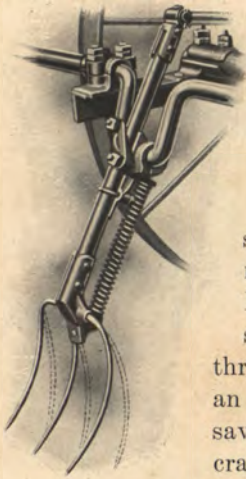
cure one side only. Put a little more labor and a little more expense into the curing. Buy and use a hay tedder. Shake up the crop and turn it over. Earn and get the highest market price. Feed your stock the best there is

in the crop. The curing will be well done if you use a Johnston Tedder. The thills are the only wood parts in this machine. The main frame is steel angle and steel pipe construction, making a rigid frame to support the forks when working.

This is the most important part of the machine. The frame is in two parts with the front section separate, but hinged and pivoted at

the main axle. The front frame carries the weight of the driver. The frame brackets, that hold the pipe at the rear, are securely fastened to the frame supports by rivets and the steel pipes bolted in the sockets. Double nuts are used. The steel wheels have double hubs, staggered spokes, and wide, channel-steel tires. The tires have the concave side out, giving increased traction power. The steel main axle has three sets of roller bearings. They reduce the draft. The machine drives from the center by steel Lock Belt chain. Power is applied from both wheels at once. This makes even draft. A steel shield protects the chain.





OUR ted-
der
forks
are the sim-
plest in con-
struction and the
most durable.
Made of crucible

steel, spring-tempered, have three tines in one piece, and an effective spring-trip that saves breakage. The fork-cranks are so arranged that no two forks strike the ground at the same time. Outside forks stir the hay that the wheels pass over. The cranks run in boxes, made in two parts, and so constructed that when bolted with the crank to the frame, they can not shift. They hold the cranks in perfect line.

A tilting-lever adjusts the level of the frame and controls the height at which the forks work. The tilting-spring in front carries the weight. The tilting and

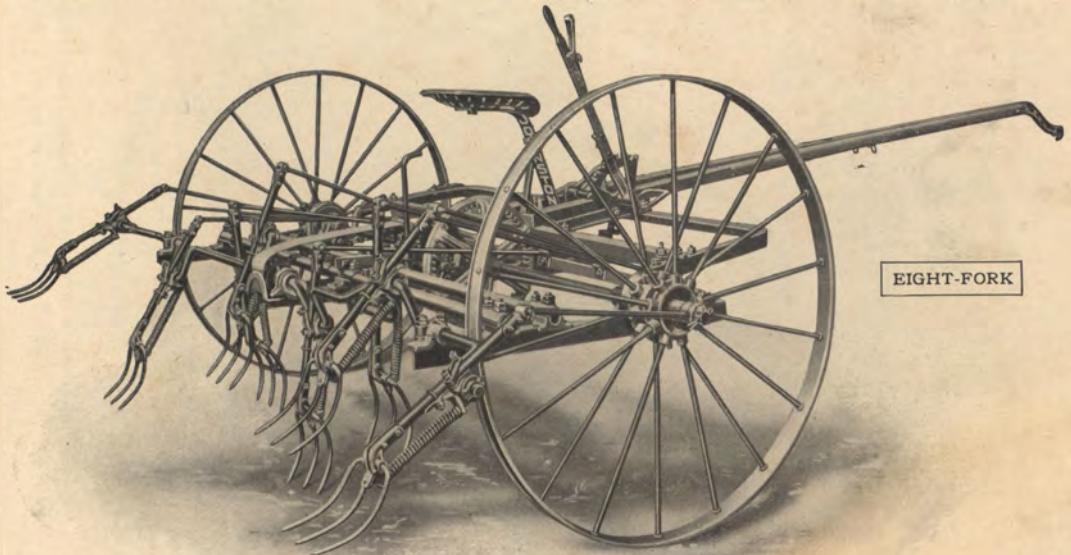
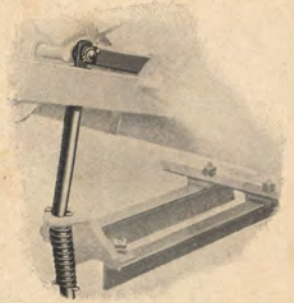
Johnston Steel Hay Tedder

clutch levers are close to the driver's seat.

On the eight-fork machine the same frame construction holds the cranks in perfect line in spite of the greater strain. Nevertheless, we use a steel

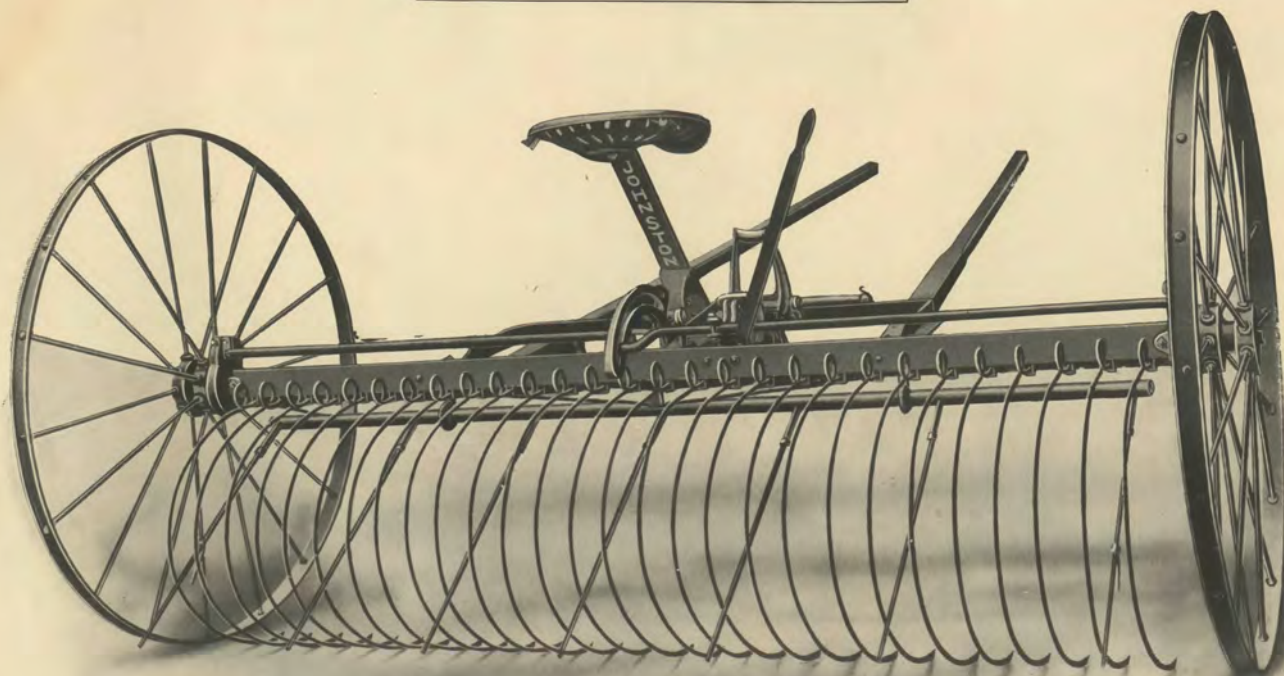
truss, fastened with patent clips on the front bar of the rear frame, to prevent sagging in the middle, and also cushion-springs at each side to save frame and operator.

With each tedder, we furnish a combination pole and thills, easily set up, for one or two horses. No whiffletrees are furnished with machine, but they can be shipped at slight additional expense, when ordered.



EIGHT-FORK

Johnston Steel Rake



Perfectly constructed. Rakes clean. Draws evenly. Is comfortable, easy to operate, economical. Wears well.

SIZES — 8 feet, with 24 teeth; 9 feet, with 22 or 28 teeth; 10½ feet, with 32 teeth; 12 feet, with 38 teeth.



JOHNSTON Steel Rake



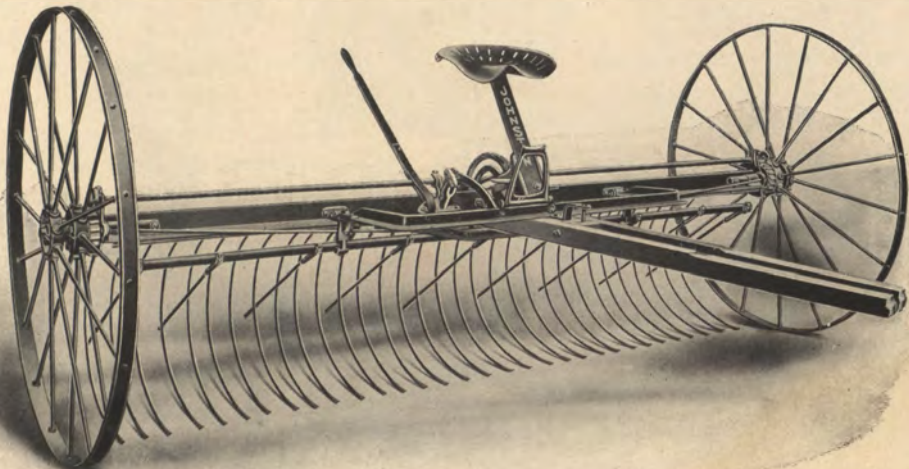
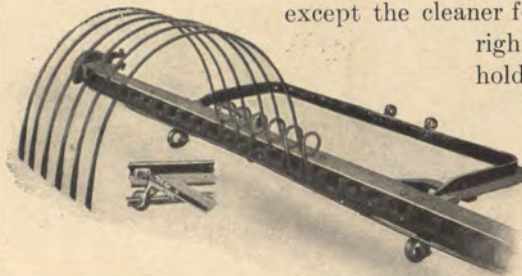
ALIGHT, durable, self-dump, steel machine. Works well on rough ground; cleans the field. Has steel wheels, with double hubs, staggered spokes and channel-steel tires. The tires have the concave side out, giving more traction. The rake-head and main frame are made of angle steel, both steel-trussed and securely hinged. The steel teeth are long, flat-pointed, interchangeable. They have free action, hang low, and lift high when dumping. They are fastened to the

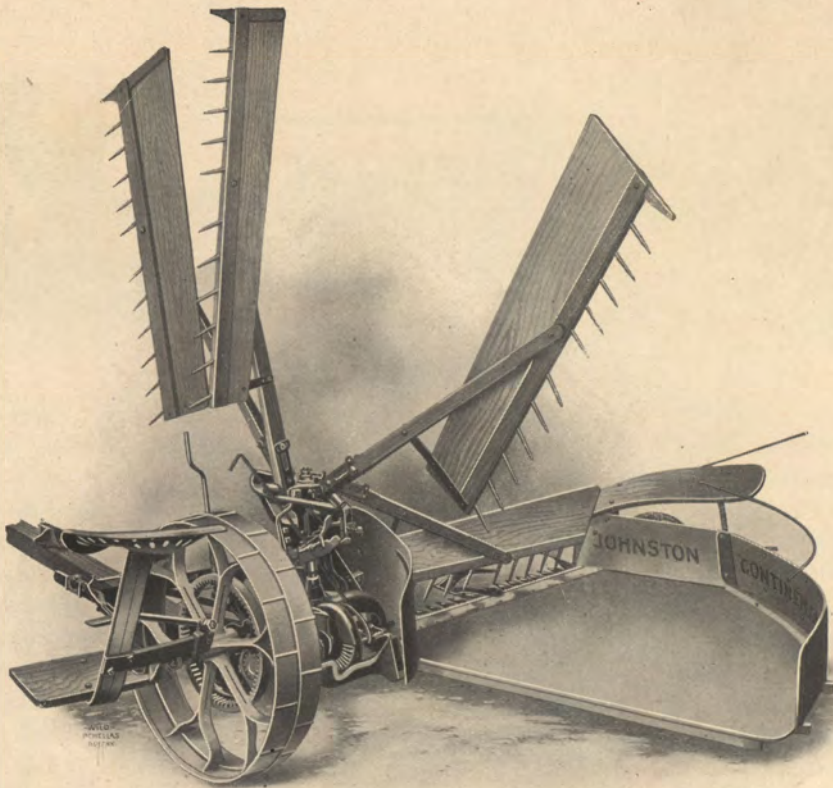
axle or rake-head by detachable tooth-holders, which cost little to replace. Steel cleaners pack the hay and prevent it from rolling.

The Johnston dumps with a one-piece rod, from both wheels at once. All levers except the cleaner foot lever are on the right-hand side. Both hold-down lever and trip-link are adjustable.

The rake-head is well balanced, so that the weight of the driver assists in working the machine.

Combination pole and thills, for one or two horses, furnished with each rake.

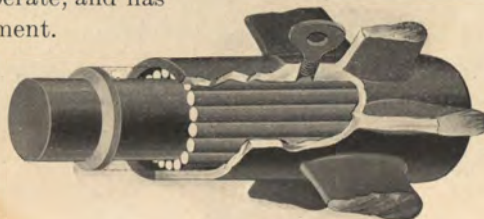




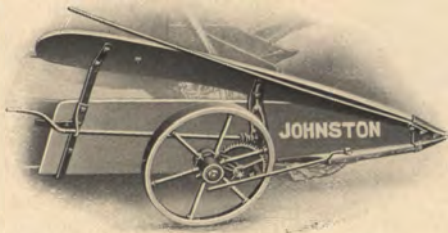
Johnstone "Continental" Reaper

THE "Continental" is now in its twenty-ninth year, and during all of that time we have maintained its quality and place as the best and lightest draft reaper manufactured. It is durable, easy to operate, and has wide range of adjustment.

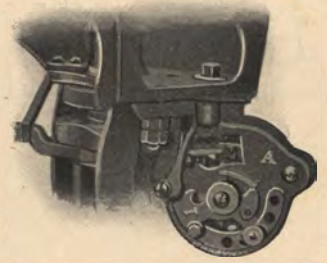
The strong cast frame makes a rigid bearing for the gearing.



The shaft-boxes are separate from the frame, but securely fastened to it by heavy staples and double nuts. Boxes cost less to replace than do heavy frames. We use cold-rolled shafting, and the gearing is always in mesh. Proper care is given, also, to oiling these important parts. Shields keep out the dirt and straw. The main drive-wheel is cast iron and has a wide rim with cast lugs, giving great traction power. Roller bearings are used in the hub of the wheel, reducing the friction. The bearings are dust-proof.



Johnstone "Continental" Reapers



THE grain-wheel and outer divider are light but strong.

Each end of the platform is raised and lowered independently, the inner end by a raising-screw and the grain-wheel end by crank and worm.

The levers are in easy reach of the operator from the seat.

They work quickly and give you every convenient adjustment necessary to properly harvest the crop.

A balance-spring carries the weight of the machine in tilting.

The rake-standard is high and well shielded, and the rake-blades are solid instead of open.

Thus we avoid winding of straw about the rakes.

The rakes are

parallel with the finger-bar its entire length, and so discharge the gavel squarely, in the best shape for binding.

The cam is adjustable, forward and back, on the standard, for long or short grain.

Our automatic

the operator to set the rakes to trip as he pleases. They can be set to rake off every second, third, fourth, fifth or sixth rake.

The operator can prevent the delivery of a gavel at any time in turning corners or in the grain.

The platform is well constructed, of selected materials, and steel-trussed to prevent sagging. It can be folded securely for transportation.

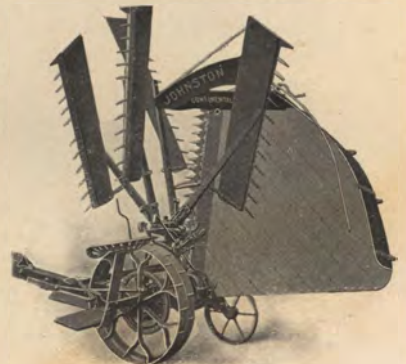
We use now a steel pipe which serves

both as axle for grain-wheel and a strong support for main frame and platform. Steel braces hold the platform in posi-

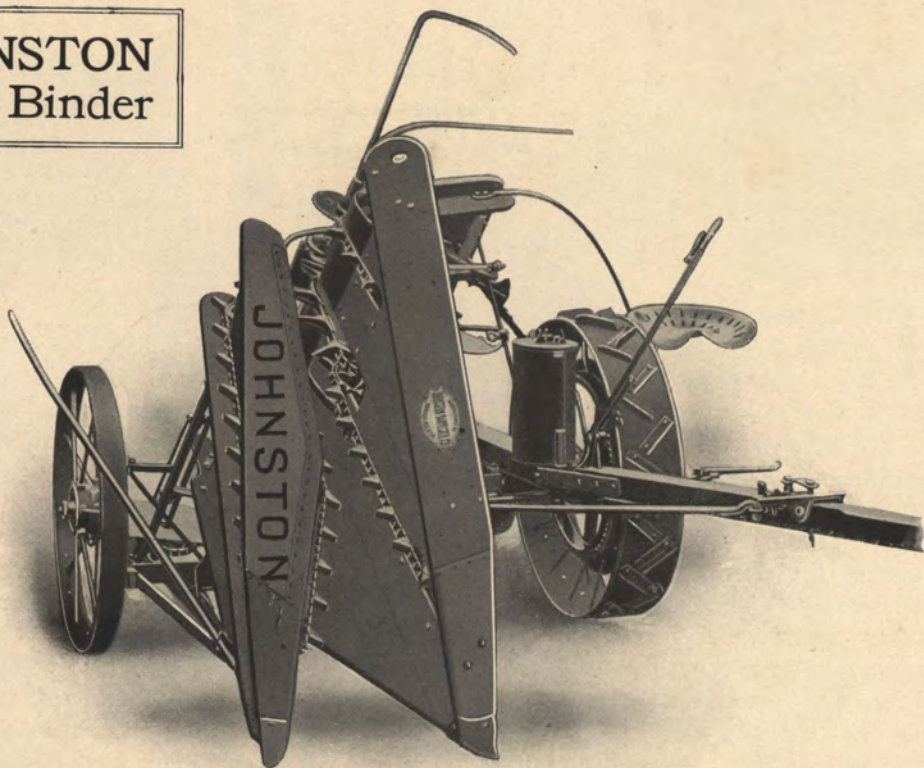
tion when raised and a steel support keeps the machine upright when wheel is being put on.

Many manufacturers have copied this machine, which proves its value.

Imitation is sincerest flattery.



JOHNSTON Corn Binder

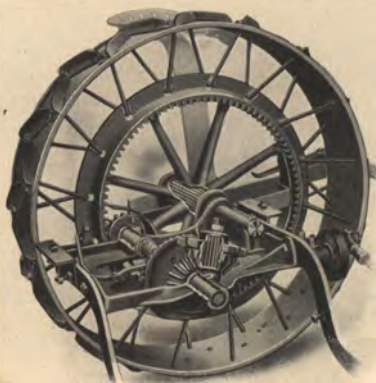


ON EVERY important point the Johnston is superior to any corn binder manufactured. This is especially so in regard to power, draft and manner of cutting and binding the corn.

The Johnston cuts, elevates and binds corn in an inclined position—the natural way. Binding corn in a horizontal position is very wasteful. Binding corn in a vertical position requires more power and does not allow the weight of the corn to be carried back of the line of draft. Of all the vertical or inclined machines, the Johnston is the only one that has the pole attached to the frame inside of the wheel. This divides the weight and work of the machine between the wheel and the operator

on one side, and the elevators and gearing on the other, and the binder attachment at the rear, in the line of draft. Makes even draft. Then, last, but by no means least, we have the largest drive-wheel in use on any corn binder, and the machine drives and cuts with the greatest power. The wheel is 40 inches in diameter, of novel construction, and has never given us trouble in the six years of hard tests it has been through. The hub of wheel has

roller bearings that decrease the draft. The main frame is steel, in one piece. It is wide enough to be stable always, and can be safely worked on side hills. The complete machine is 5 feet 11 inches wide, and will pass through any ordinary farm gateway.



JOHNSTON Corn Binder

JOHNSTON gathering-chains pick up the row knocked down in opening up the field, and handle tangled corn perfectly. They have stationary fingers.

The corn is cut with the knives in a horizontal position. The cutting is clean, corn is not torn up by the roots and there is no clogging.

There are two stationary side-knives, a center-knife and the regular sickle or smooth knife.

The conveyor-chains have folding fingers, with a stop on the link that prevents their folding but one way.

After the corn is cut, these chains carry it to the binder attachment.

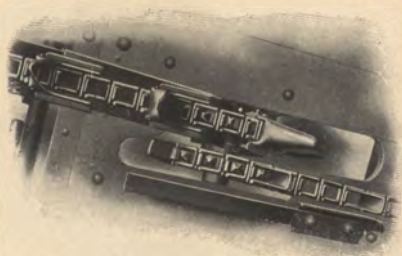
Automatic gates release the fingers just before the needle passes around the corn.

The fingers fold, and instead of pushing the corn through, they keep the incoming corn from crowding.

Automatic gates are found only on the Johnston.

There are no packers.

This machine knocks off less ears than any other corn-binder.



The binder attachment is gear-driven.

It has the widest adjustment of the band on any corn-binder.

Can bind as high as 32 inches from the butts in tall corn, or as low as 18 inches from the butts in short corn.

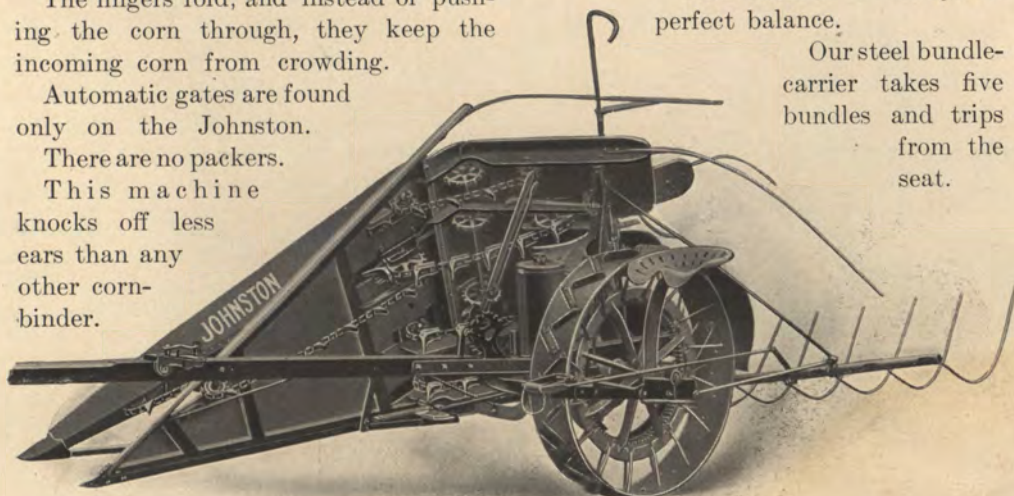
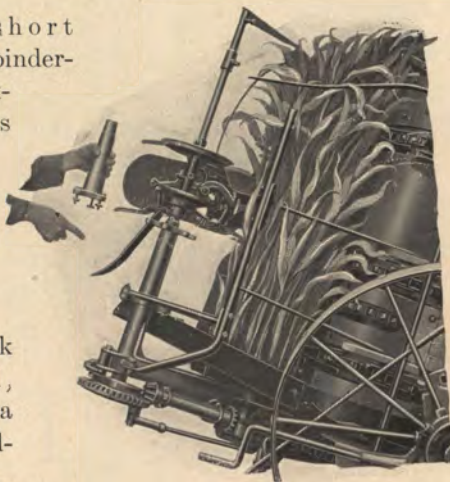
For short corn, the binder-frame extension is removed and the needle and knotter lowered.

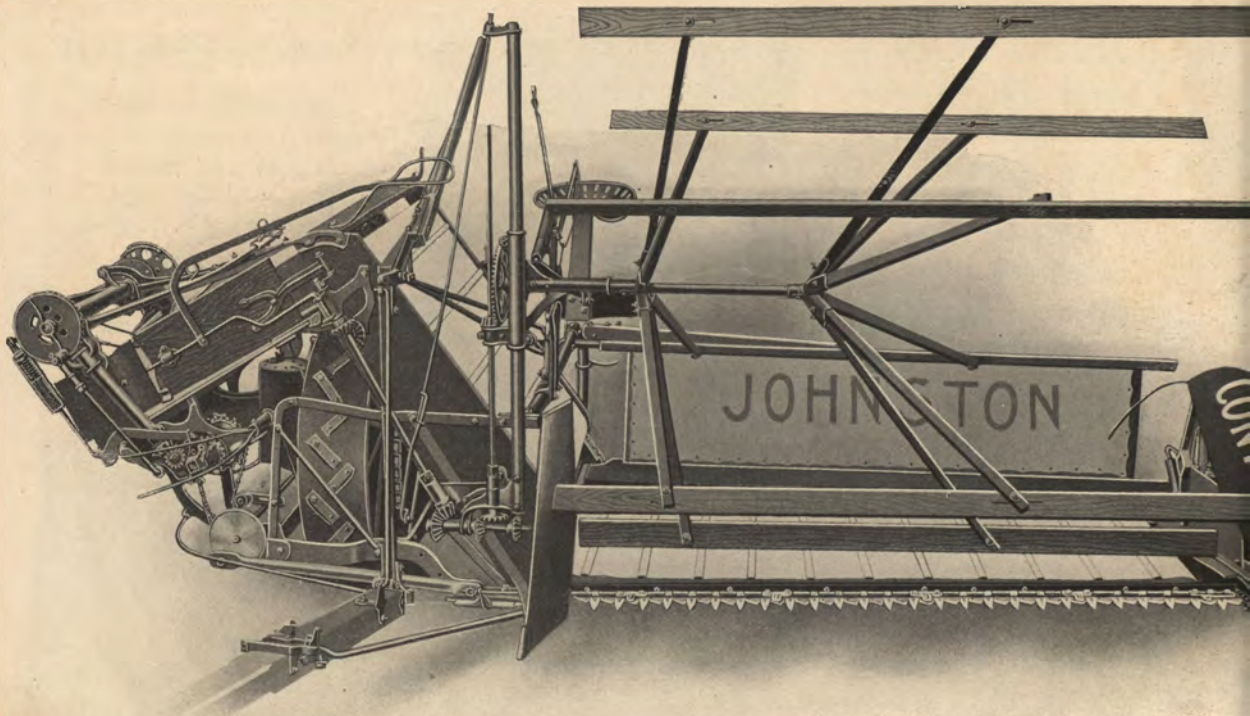
The stalk channel, also, has a 4-inch adjustment.

All levers are convenient to the operator from his seat.

The machine is always in perfect balance.

Our steel bundle-carrier takes five bundles and trips from the seat.





Johnstone "Continental" Binders

TWENTY-FIVE years of binder-building for the trade of every grain-growing country in the world has taught us what are the real needs of a farmer in harvest time. That we have made the exper-

ience count, is shown by the results. An agent in a new territory sells several new "Continental" binders. He is entirely unacquainted with the Johnstone machines, and yet he sets them up and starts them himself; his customers run them through very heavy harvests without any assistance and without any breakages or trouble of any kind, and the first we hear is when he comes in to report and says "that's the best binder I ever sold, and the best machine my customers ever used."

SIZES—5 feet, 6 feet, 7 feet, 8 feet.

Left-hand. Open end.
Light draft. Great
driving power. Large
est elevator capacity.
Gear-drive reel. Gear-
drive tier.

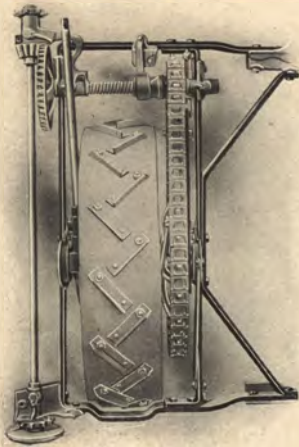




Johnston "Continental" Binders



are satisfied
that it is the best binder-



STEEL, in construction, stands for strength, stability, stamina, staying qualities.

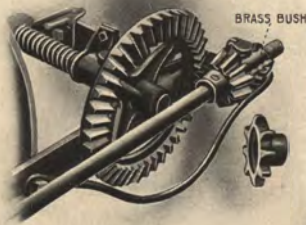
The framework of the Johnston binder is entirely of

steel. The main frame is in one piece, high-carbon steel, well braced. All necessary gearing and shafting are compactly and securely

fitted to the frame.

The shafting is always in line and the gearing in

perfect mesh. A brass bush-bearing at rear end of crank-shaft prevents heating.



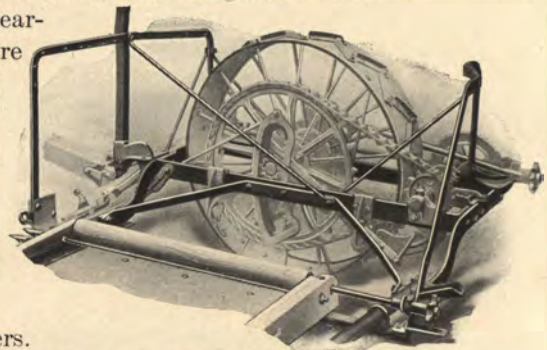
The main drive-wheel has plenty of clearance on all sides.

The wheel is of the suspension pattern and is 36 inches in diameter, giving the necessary driving power. We

have a strong cast wheel on the market. Has a strong cast hub, secured by steel hairpin spokes to a wide, beaded steel tire. Angle-steel calks are placed diagonally to the edge of the tire, but at right angles to each other. In this way, the driving power is doubled. The spokes are heaviest next to the tire and are fastened through the calks by heavy nuts.

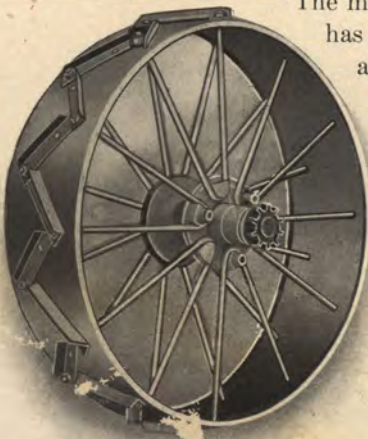
Dustproof roller bearings in the hub reduce the friction and lighten the draft.

The bearings are cold-rolled steel, held in place by steel washers.



The elevator frames are steel and securely braced. They hold the elevators in position over the wheel, just high enough to give good clearance and the right angle to the decks.

This year we use steel Locke Belt chain. The patent links lock into each other and make a chain that is very strong, wears well and will not stretch or climb the sprockets. The chain may be removed without taking the wheel out of the frame. Lower the wheel to last notch in the segments, cut deep for the purpose. This releases the tension on the chain and links can be separated.





Johnston "Continental" Binders



A SPRING-ADJUSTMENT tightener takes up the wear on the chain. It is simple and durable. Our method

of raising and lowering the main wheel in the frame is by means of raising shaft, worm and gear, with segments on each side of the frame. This way keeps the

wheel always in line. The parts are so shielded that no dirt can

get in and make them work hard.

The Johnston platform is sheet steel, riveted in one piece. A steel angle carries the inner end

of the platform and it is simply but securely attached to the frame by joint-casting at the rear and inner shoe at the front. The angle-bar has an eye at the front end, to which the pole-brace is attached. This construction transfers the strain in draft to the rear of the machine. The torsion pipe, at rear of the platform, is bolted to the frame, making a thoroughly strong and reliable connection just where it is needed most.

The parts are cheaply replaced in case of accident. Note, also, the inner shoe and manner of holding the knife-head in line.

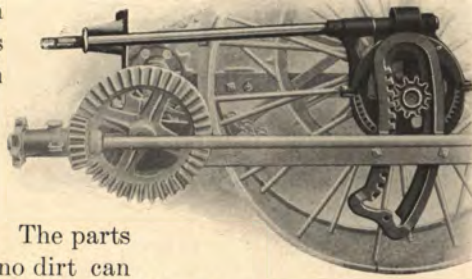
The joint-casting at the rear carries the inner platform roller, but we use a separate box for the bearing, so that the wear will not come on the heavy casting. This saves expense in repair-

ing. The cutter-bar is a steel angle, and the guards are fitted with steel ledger-plates. The guards are set flush with the bottom of the platform and allow very close cutting. We

make our own

knives. At the inner end of the bar is a steel-angle stiffening-plate that fits the platform closely and is bolted between the cutter-

bar and canvas guide. A stay-rod, with set-nuts, holds the guides the proper distance apart. The platform is further supported by two steel angles on the under side and one at the grain-wheel end.





A STEEL torsion pipe, at the back of the platform, holds it in

Johnston "Continental" Binders

The bearings are dust-

perfect line. It is securely fastened at each end and supported in the middle.

proof and are oiled from separate cup. The platform, at this end, is raised and lowered by a rack, crank and worm. The

Note manner of attaching the pole. The rod, which serves as a shield for the pitman, passes through the pole-iron and draw-casting, making a strong hinge with free action. The draw-casting is fastened to the frame and to the tilting support as well.

The grain-wheel post is attached to platform angle and a brace runs to under side of platform as well. The outer divider has steel angle-support and is well braced. A sheet-steel shield keeps the grain from pushing through divider and wheel. The inner divider is sheet steel. Both dividers fold out of the way, one by raising

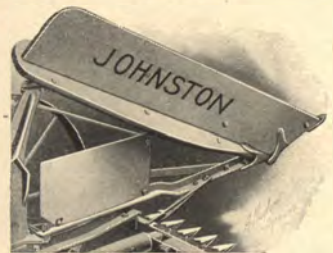


The pitman is wood and slips on crank-wheel pin and knife-head easily. Wood bearings last longest. The pitman has direct action.

from pushing through divider and wheel. The inner divider is sheet steel. Both dividers fold out of the way, one by raising a lever and the other by pulling out a catch-pin. Not a bolt or nut to be touched. When the binder is on the road or passing through narrow gateways, the convenience of folding dividers will be appreciated. In



The grain-wheel is steel with broad, rounding tire, that will not cut in. Has separate hub-box, fitted with roller bearings that make the wheel run lightly.



In addition to the regular divider, each binder is provided with an extension divider for tall grain. It is fitted complete with an extra point and socket, and is easily attached.



Johnstone "Continental" Binders

ON the "Continental"

all levers, except for carrier and backwing, are on the right-hand side. All are easily reached from the seat. We call your attention especially to the reel-levers. The reel can be tilted or shifted quickly, for grain that is tall, short or medium, standing or down, straight or tangled, heavy or light.

A wide range of adjustment is necessary to take care of the crop under all conditions, but the Johnstone has yet to find the crop that it cannot handle. A balance-spring carries the weight of the reel in shifting.



We show the reel set for tall grain, with the beater holding the grain to the knife. Then again, the reel set low and far out to catch tangled grain. For tangled grain leaning toward the machine, the tendency is for the grain to lop over, to be cut too far from the ground, and to be shoved onto the platform instead of falling naturally. In this case the reel should be set with

the beaters just clearing the points of the guards. This forces the grain to

stand while being cut, and to fall where it should. Then, for very short grain, the reel can be set with the beaters just above the guards, thus forcing all of the grain to fall on the canvas.

The Johnstone reel is driven by gearing, has a double head, a steel pipe-axle and six beaters. It is light, strong, compactly built, works smoothly, and there is no

lost motion. The gears mesh perfectly and wear well. The reel-heads have a socket for each reel-arm, holding them firmly in place.

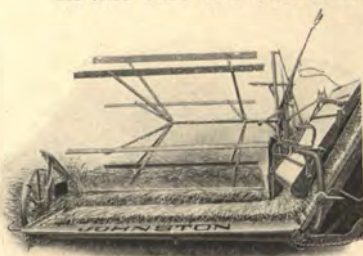


The standard bracket slides on small rollers, up and down the pipe. This prevents binding.

A steel truss holds the standard upright and the reel-beaters level and parallel with the platform.

Note, also, the manner of hinging the reel joint so that it swings on a large bearing. The dotted lines show its back position.

The value of the hinge bearing will be appreciated when you get hold of the levers.





Johnston "Continental" Binders

NOTE the very simple adjustment for backwing. You have only to lift a rod with a bent end, out of one hole and drop it into another. The back-



wing can be set for long or short grain, and it can be removed, when necessary.

Johnston elevators are better constructed and have greater capacity for every condition of grain than on any other binder made. We can and have proved it over and over again, in thousands of grain fields. Johnston elevators never fail to carry the thin, light crop and never



choke up with the heavy, tangled bunches of grain. Why? Because it was made right. It has never needed changing. At the lower end of the upper

elevator there is a 5 $\frac{1}{4}$ -inch roller, the largest for the purpose on any binder. This roller pulls all tangled or short grain into the throat of the elevator, instead of pushing it out between the lower rollers, helping instead of hindering. The canvases are held taut for light grain, but

room is provided for the canvases to give when carrying the heavy bunches. There is no loss, no clogging in either case.

The large roller is the built-up kind and will not warp. Both elevators are securely braced and held in line. The upper elevator is supported by steel pipe-arch.

Note spreader-rod in top of lower elevator. Also, roller-box bearing for shaft that drives the upper elevator.

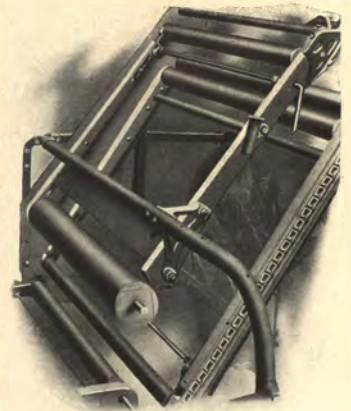
Boxes are self-aligning, make the rollers run true and cost little to replace when worn.

The canvases are made of the best grade of duck, inch elm cleats and leather straps. They are well hemmed and riveted, and are tacked every half inch.

Each canvas is provided with a tightener, operated by an eccentric lever from the outside.

A cam, a slide and a lever are the only parts used, and they are always in order. The slide has an oil-soaked wood bearing in which the

rollers run, and there is practically no wear.





Johnston "Continental" Binders



BETWEEN the lower elevators and the decks, we provide a seventh roller. It keeps the grain from passing through the opening, and helps it on its way to the decks. Please note that the deck-cap is fitted closely to the seventh roller, below its center. This prevents the loss of grain at this point. The decks are steep-slanted, and the grain slides down easily.

For the third season we are driving the Johnston binder attachment by gear and find it by far the better way.

There is positive action, no lost motion, saves wear, saves weight.

The complete attachment is compact and very simple in construction.

The binder-frame is cast iron, and is a stable foundation for shafting and gearing. The rear binder-frame support has a large cast roller which carries the weight of the attachment in shifting.

The driving-gears are carefully made and

fitted, so that they mesh well and wear well.

The binder cam-wheel and part of the compressor are shown also.

The trip and compressor springs are adjusted independently, but one nut takes up the wear.

We use a spring-trip binder lock.

The Johnston trip never repeats or causes the making of small bundles.

The packers and driving-dog are always in perfect time with the needle.

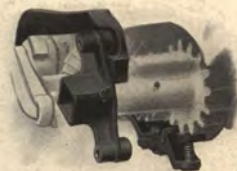
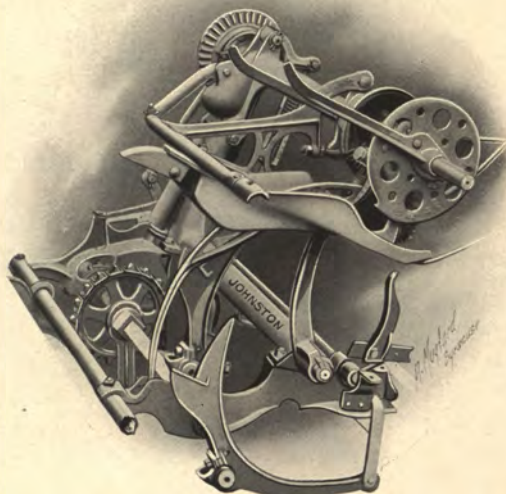
The packers keep just ahead of the needle doing the heavy part of the work.

The packers and packer-crank run in detachable boxes.

They are self-oiling, reduce friction and are cheaply replaced when worn.

The needle is carefully fitted.

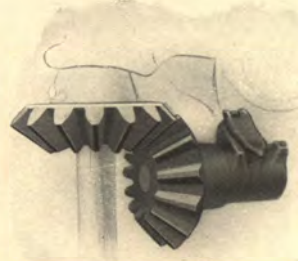
The flange on twine-can cover keeps the can in shape and the tension plate steady.





Johnston "Continental" Binders

is carefully fitted and thoroughly tested before leaving the factory.



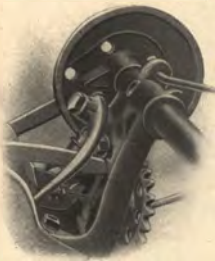
THE Johnston knotter is our special pride, because, through seventeen years, it has proved its real and lasting value. It has done faithful



work and sure. It has not been changed

in all that time. The key-note of its success is positive action of all of its parts. They are all cam-driven and must work just so. We show in succession cuts of cam for knotting-hook with

the twine over the hook, just ready to begin tying; next, the hook, after three-fourths of the turn and the knot nearly tied; then, the cam for knife-arm,



the knot tied and the twine being cut; last, the cam for twine-holder gear. Each cog on the gear means a bundle tied.



Every knotter

The Johnston butter keeps the butts of the grain even, so that a nice bundle will be turned out. Has a sheet-steel extension to hold the bundle while it is being bound.

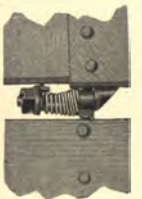
Shifting the binder attachment and adjustment of the butter controls the placing of the twine around the bundle.

Either long or short bundles are bound in the middle.

You can bind long grain 24 inches from the butts and the short grain 6½ inches from the butts.

Each deck has a spring-trip dump-board.

A ratchet-nut takes up the wear in the spring.



Johnston "Continental" Binders

It will be noticed that

we give strict and careful attention to details in building. Every farmer knows, most likely through a more or less dearly purchased experience, that the little things count, whether for good work or for trouble. Here a little piece breaks, there another small part gives trouble or is inconvenient. Buy the Johnston Binder and you will find that the little

things will make you laugh with pleasure at their constant good work.

You will swear by the machine, not at it.

THE bundles, when discharged, drop

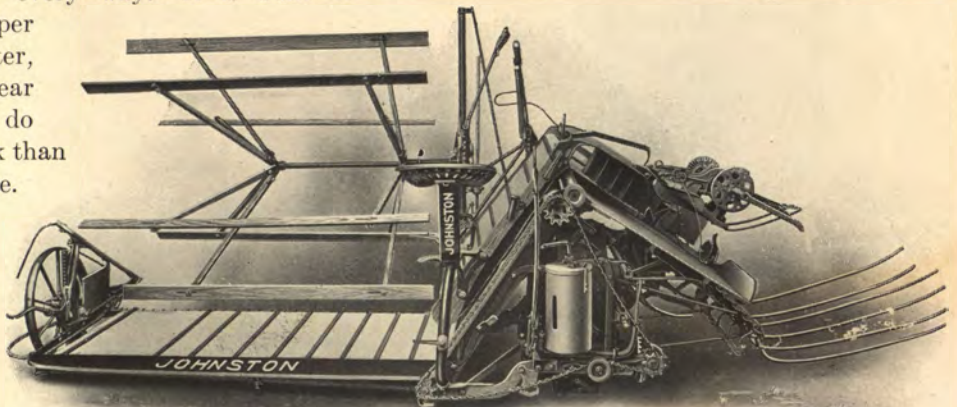
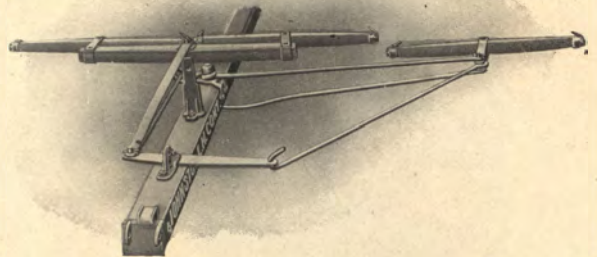
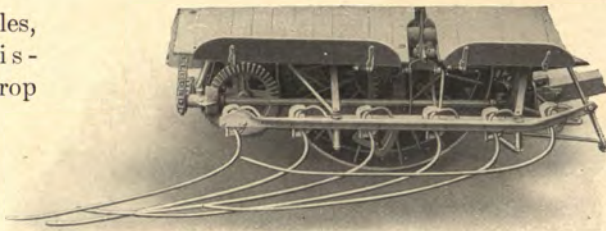
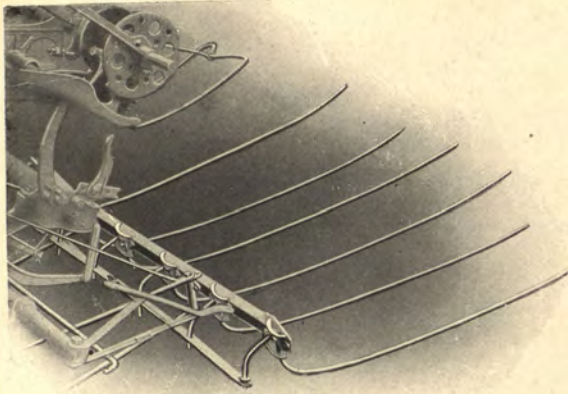
directly into a real folding steel carrier.

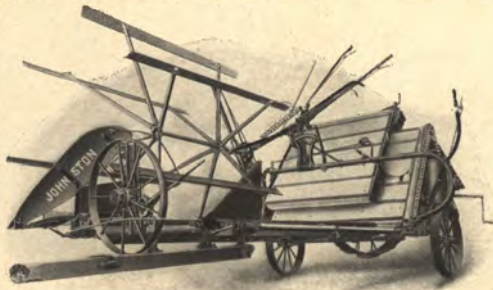
It has six steel fingers which fold to

the rear, out of the way. It is held in place and tripped by foot from the seat. It is built for strength and carries its load easily. It is well balanced and dumps and returns to place quickly. It is easily attached to the machine and perfectly supported.

The Johnston three-horse rig was new last year and has proved to be very satisfactory in every way. It is built of steel, is 50 per cent lighter, yet will wear longer and do better work than the old style.

There isn't a better rig on the market.





Johnstone Transporting Trucks

THEY are the kind on which a binder can be mounted in five minutes. This is not brag, but an every-day occurrence in harvest time.

It is known as a stub-axle truck and consists of the two steel axles, four malleable supports and a pair of special steel wheels.

The supports are always bolted in position on the main frame of the machine.

The wheels, complete with their axles, are slipped into place without taking off a single piece or touching a bolt or nut.

Insert axle through both brackets and give

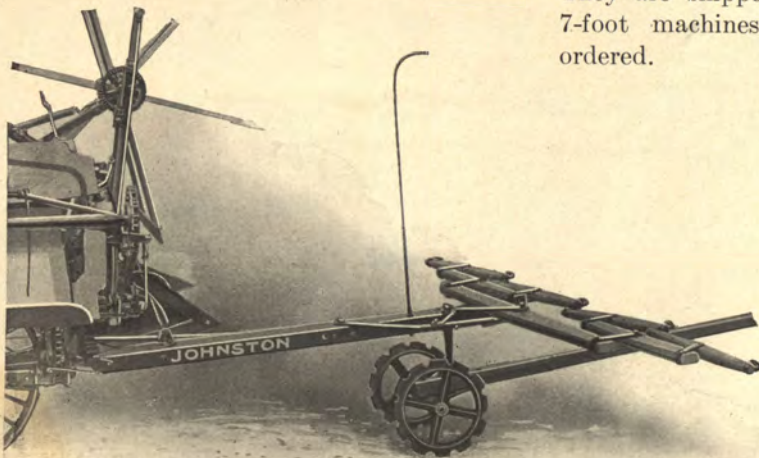
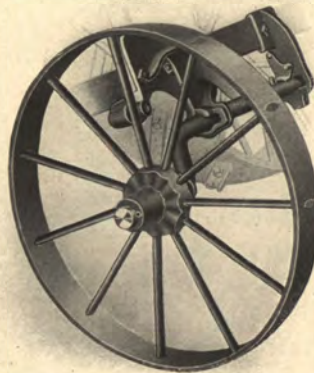
it a quarter turn, so that pins will fit in notches cut in back of inside bracket, and lock with small lever.

After raising the drive and grain wheels out of the way, you have simply



to hook pole-iron to casting attached to rib on under side of platform and drop outer end of platform to the casting on the pole and it is done.

Every 8-foot binder is furnished with an up-to-date tongue truck and a four-horse equipment. The truck prevents side-draft and neck weight. They are shipped with 7-foot machines, when ordered.



Johnston "Continental" Binders

In
New York
State



In
France



USED ONE
"CONTINENTAL"
17 YEARS. HAS NEW
ONE NOW

MECHANICSTOWN, OHIO
Sept. 3, 1906.

*The Johnston Harvester Company,
Allegheny, Pa.:*

GENTLEMEN,—This harvest I purchased my second JOHNSTON "Continental" Binder from your agent, J. M. Dennis. The first one I used for seventeen years without costing me one dollar for repairs. The new "Continental," purchased this harvest, I consider the most up-to-date binder made. For ease of handling, draft and trucking, it is superior to any binder I ever saw.

Allow me to add that we are also using one of your No. 9 Mowers and one of your 8-fork Tedders, both of which have given us the best of satisfaction.

Farmers, do not let the Trust agents fool you. Buy the JOHNSTON and you will make no mistake.

Yours truly,
JOHN McALLISTER.

In
Italy



In
France

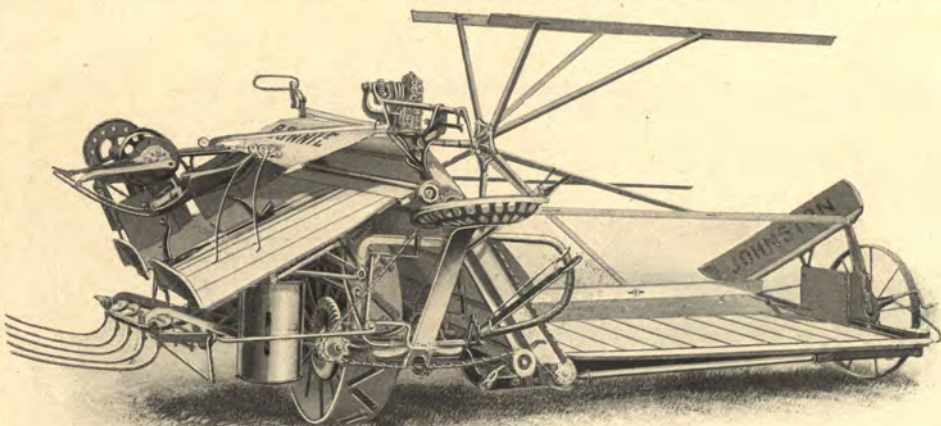


In
Ireland



In
Pennsyl-
vania





THE only successful low elevator binder on the market. Very light draft. Elevates grain to a height of 27 inches only. Will cut, carry and bind the heaviest crops. The reel travels completely around a circle and handles grain under any condition.

Except for the reel and low elevator, the "Bonnie" is built on about the

Johnston "Bonnie" Binders

same lines as the "Continental."

A stub-axle transporting truck and folding carrier furnished when ordered.

An up-to-date, simply constructed, durable, easily handled machine in every sense of the word. It is a right-hand machine. Is especially adapted for use in hilly country. Built in one size only — 6 feet.

In
Denmark



In Belgium

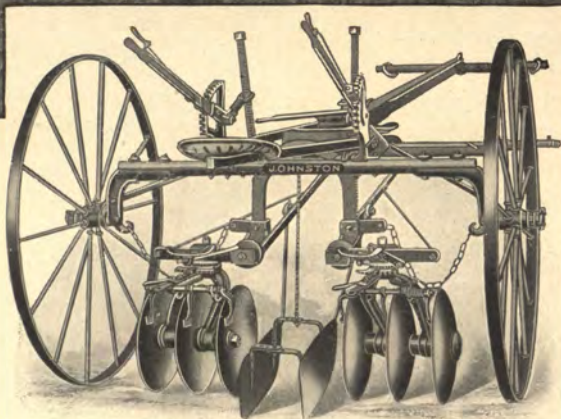


At Doylestown, Pennsylvania



NOTE the growth of the corn in the above scene. The Johnston "Continental" did the work and cow peas were put in after the cultivating was finished. This shows what immense crops can be raised with proper cultivation. With the amount of labor saved by using a machine like this, it pays to put in the rows far enough apart to allow use of the machine.

For corn, cotton, tobacco and other crops grown in rows, there is no better machine than the Johnston "Continental." The disks can be adjusted to throw the soil to or from the plants, and at the same time thoroughly pulverize the whole row. Can cultivate shallow near the plants and deep in the middle of the



Johnston "Continental" Disk Cultivator

row. The operator can regulate the amount of dirt thrown, by the angle of the disks and the position of the gangs on the adjuster-bars. He can put the disks into the ground to any depth desired.

Improved levers and pressure springs control the adjustments. Makes any shaped hill, either flat or crowning, and is a fine bedding machine for cotton. Has steel wheels, interchangeable yoke-boxes, gang-shifter levers and steering device. Spring-pressure levelers and extra disk and spring-tooth attachments are furnished extra. Also stalk-

cutter attachment to trim up the fields when harvest is over. It is easily attached in place of the gangs. The "Continental" is four machines in one.



JOHNSTON "Continental" Disk Harrows

EACH succeeding year sees a decided improvement in soil preparation, and it is due in a very large measure to the intelligent and liberal use of disk harrows. To harrow and cross-harrow a plowed field over and over again, means that the soil will be in proper condition to receive and retain moisture, and that it will let in the sun and keep it from turning sour. Use the harrow in the fall and in the spring also, and the more you use it, the better will be the results of your seed-sowing.

Do you buy the very best of seed and put it into poorly prepared ground? Try a harrow on corn land. It will cut and cover weeds, stubble and trash. It will cut sod and not pull it up.

Johnston "Continental" cut well, pulverize thoroughly, wear well.

They till the entire width of cut. They have the simplest

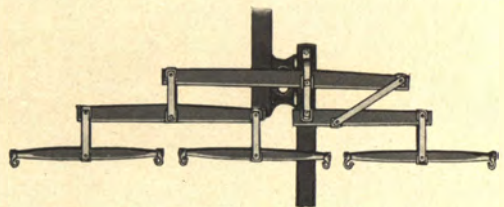
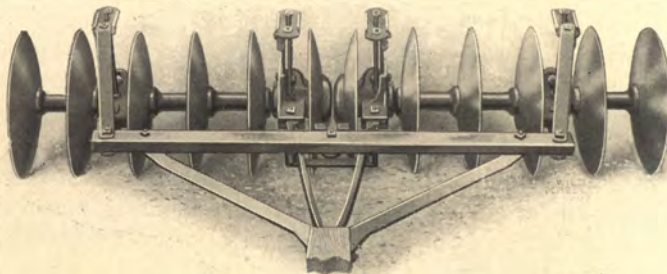
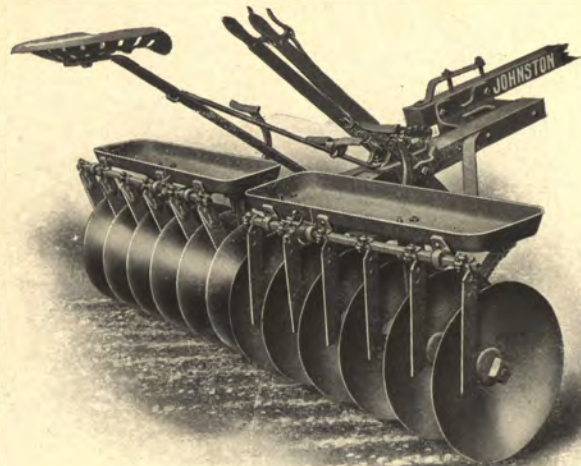
construction. Tubular steel cross-bar and steel braces are the only sort of frame used.

Small thimbles around the bolts in each end of the cross-bar prevent their cutting out.

Johnston "Continental" have the most direct draft.

An ordinary pole is furnished for two or four horses, but for three horses we use a stub and set-over pole, with the middle horse directly in the line of draft.

There is no side draft, and the gangs draw and cut evenly.



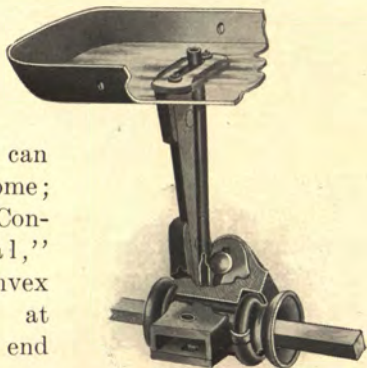


JOHNSTON

Johnston "Continental" Disk Harrows

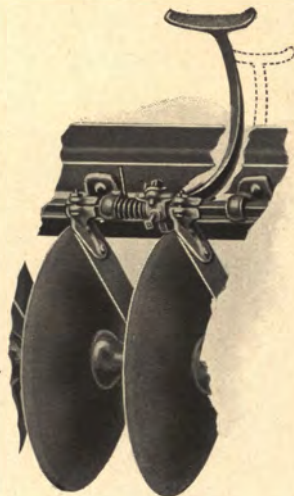
WE HAVE never had to worry about friction on the "Continental."

It is the lightest draft harrow on the market, and always has been. This is how we do it: First, the end pressure of each gang is a very serious matter, unless it can be overcome; on the "Continental," large convex bumpers at the inner end of each gang revolve in the direction in which the soil is turned and simply roll against each other; they relieve the end pressure and prevent friction; ball-bearings, as used for this purpose, do not decrease the draft. Second, for the standard thimble bearing, we use a wood block, located at the rear of and above the thimble, so as to take all of the pressure and reduce the draft to the minimum. The block is adjustable, to take up the wear, and the bearing is dirt-proof. The complete standard of 5 pieces, including



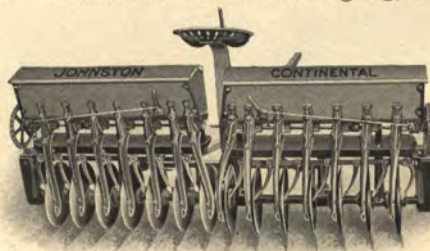
steel standard-plate, is stronger than a single-piece standard and cheaper to replace. This construction reduces weight, also, and any of the parts can be removed without taking the gang apart. The oil-tube runs from weight-box to bearing.

Johnston "Continentials" have steel-blade Rose scrapers, operated by automatic foot-levers in front. Pressed-steel weight-boxes are used. The harrows are made in seven different widths of cut, from 4 feet 4 inches to 13 feet, with 16, 18 or 20 inch solid or cut-out disks, and each with two levers. Center-cut and disk



drill and seeder attachments furnished at slight additional cost.

The "Continental" takes a seeder-box for each gang, and the boxes may be set up to sow in rows or broadcast. This is real economy in point of dollars and sense, and room, also.



DO YOU own an orchard? If so, are you getting the best possible results out of it? Do you cultivate it at all? Can you cultivate close to the trees?

All of the best authorities on fruit trees agree that cultivation is necessary and that it should be done thoroughly and carefully.

The farm papers publish a great many letters on the subject, from practical farmers who know what they are talking about.

All are enthusiastic for cultivation and plenty of it.

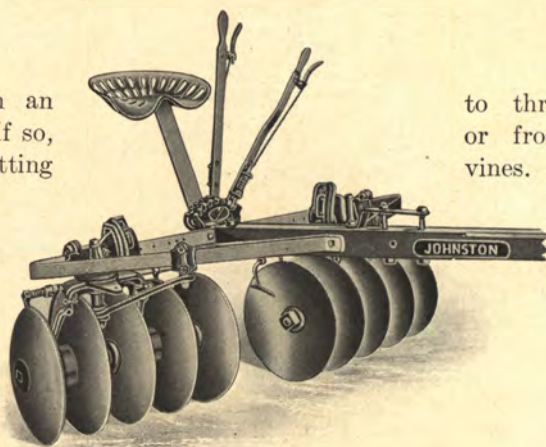
Roots need air and moisture and new life.

Providence does its share toward providing these essentials.

How about your part?

Ours is to provide you with the best tools to be had for orchard and vineyard cultivation.

The Johnston Orchard Disk is reversible and adjustable. The gangs are interchangeable in their position on the frame and may be set



Johnston Orchard Disk Harrow

to throw the soil to or from the trees or vines. Levers adjust each gang separately to any angle, and the gang hinges adjust to cut deep or shallow in the center.

The disks do not harm the tender roots.

Has a special steel frame in one piece, strong arches or yokes for the sup-

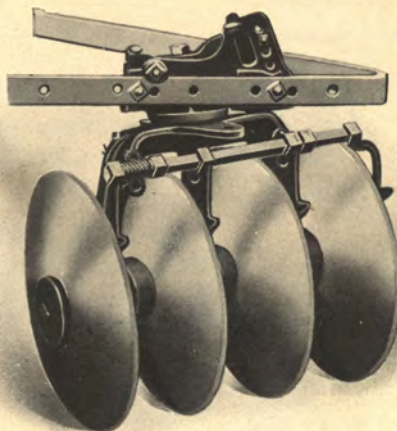
port of the gangs, and bearing-boxes that take up the friction.

The engraving shows clearly the adjustment; up or down by means of hinge on top of frame; forward and back by swinging to right or left on the king-bolt, and controlled by shifter-levers.

In grape cultivation, the Johnston takes the place of a plow.

The harrow is driven between the rows, throwing the soil against each row.

At the same time, it cuts ten furrows and cultivates all of the ground thoroughly. A plow would have to travel through each row several times and would not do the work one-half as well.

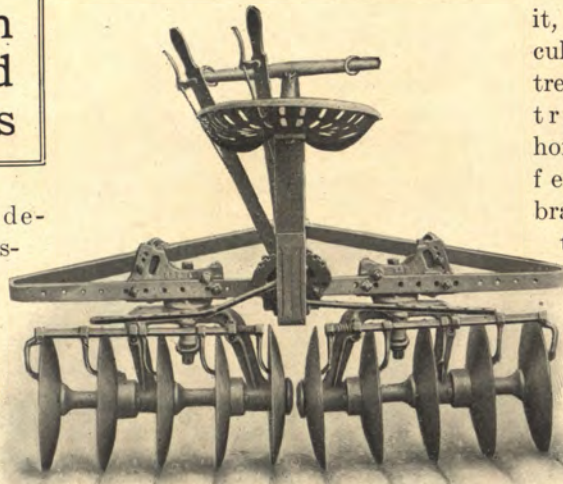


Johnston Orchard Harrows

WHILE designed especially for fruit culture, it may be used as an ordinary harrow with equally good results.

For cotton, it will make a perfect bed. On side hills, it does the best kind of work.

We furnish, as an attachment for this harrow, an extension frame, made of steel, in two sizes. It is easily attached



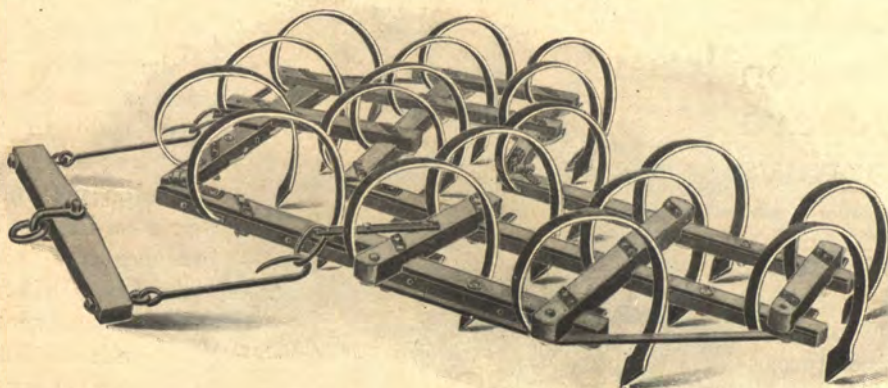
to the harrow. With it, the operator can cultivate under the trees, close to the trunks, and the horses do not interfere with the branches or injure the fruit. It is furnished only when ordered, but it will save many times its price.

The harrow is furnished with solid or cut-out disks, 16 or 18

inch, with eight disks to cut 4 feet 4 inches, or ten disks to cut 5 feet 6 inches. With the extension frame, the machine measures 10 feet 1 inch in width.



WITH EXTENSION FRAME



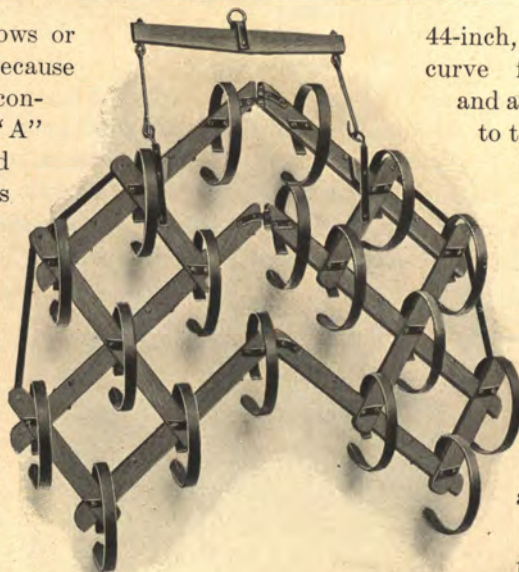
THE Perry Harrow cultivates thoroughly, and does not leave furrows or ridges. WHY? Because it is scientifically constructed; has an "A" or butterfly-shaped frame which permits the best arrangement of the teeth.

They are not attached in parallel rows, but are set diagonally and scattered so as to cultivate all of the ground.

It is simple, light and durable.

The frame-pieces are faced or lined in front and on the bottom,

Johnstone Perry Harrows



with sheet-steel plates, bolted to the frame. The teeth are 44-inch, with the proper curve for perfect work, and are securely fastened to the under side of the frame, so that they will not trail.

The teeth are made of special steel.

The two sections are securely hinged in the center and have free action.

The best of materials are used and it is fully guaranteed.

SIZES: 16, 18, 20 or 22 Teeth.

EXTRA PARTS

COMPLETE assortments for old and new machines carried at branch offices, transfer points and agencies. Prompt and careful attention given to all orders.

We can not too strongly emphasize the importance of a stock of parts from which you can draw in case of need, and we assure you that you will be taken care of thoroughly.



Johnstone Machines in the Field.

