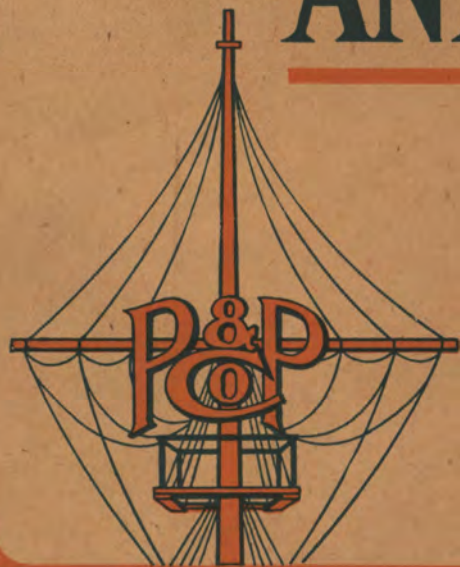


P. P. MAST & CO.
BUCKEYE·GRAIN·DRILLS
·AND·CULTIVATORS·



SPRINGFIELD, OHIO. U. S. A.

Buckeye and Ohio Grain Drills

Broadcast Seeders and Sowers

Cultivators and Cider Mills

CATALOG "E"

Manufactured by P. P. Mast & Company, Springfield, Ohio

ESTABLISHED 1856 : INCORPORATED 1871

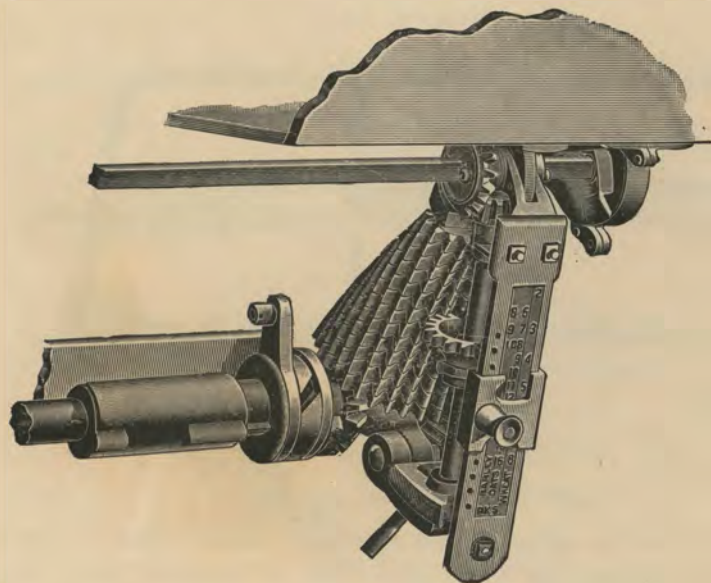
Jobbers and Transfer Agents Located at All the Convenient Trade Centers

EACH year adds something to the World's stock of knowledge. So also have we tried, each year, to add something in the way of improvements or betterments, to the Buckeye line of Grain Drills and Cultivators.

We have been building them for almost sixty years, and feel that our pride in them is justified, as they are the best that money and long years of experience can produce.

Simplicity, Accuracy, Strength and Durability, have always been our mottoes, and for 1908 the Buckeye line will abundantly maintain its past reputation on these points.

We appreciate to the fullest extent, the patronage you have given us in the past, and hope to merit an increased share of it the coming season.

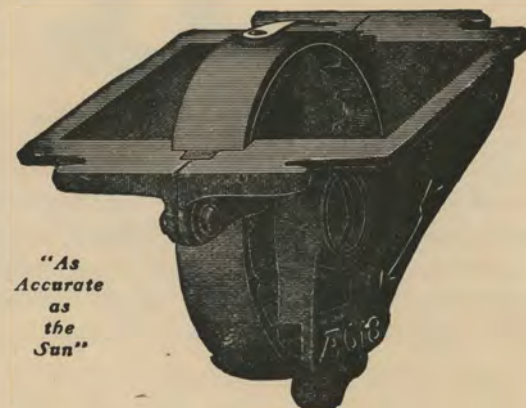


The Cone Gear with Grain Register shown in this cut is the best and simplest device ever invented for the purpose. The most correct in its work. The most easily operated. The least liable to breakage. The least expensive for repairs, and the easiest to repair when necessary.

To change quantity, simply raise or lower the small gear wheel on upright shaft to the number on the register which indicates the quantity desired.

***As the heart is to the human body,
so is the Driving Device to a Drill.***

The Buckeye Double-run Force Feed will not skip, choke or bunch, and is a positive force feed. The right-hand side of feed cup sows wheat, buckwheat, rye and other small grains. The left-hand side sows oats, corn, beans, peas, barley, beet seed and other



***"As
Accurate
as
the
Sun"***

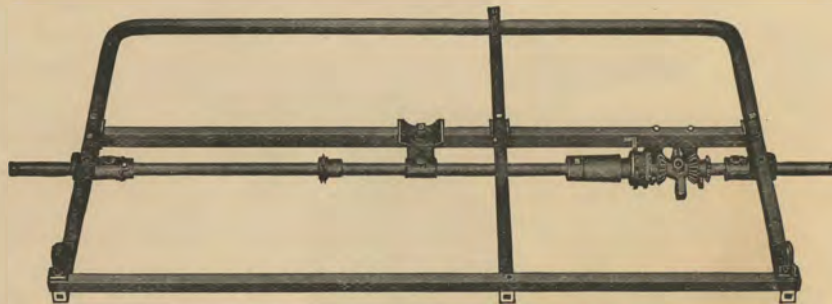
large grains. Special agitator for bearded oats furnished, when required, at very small cost. Special alfalfa cups furnished when required, by which alfalfa, clover, millet and other similar seed can be *drilled into the ground through the main hopper* in any desired quantity, from 6 pounds to 25 pounds per acre. Very much better results are secured by drilling such seed than by broadcasting. These cups can be placed in position and removed without any trouble, and are furnished at a very small additional cost.

Buckeye Force Feed Grass Seed Attachment



The above cut shows the manner of attaching the Grain Hopper to the square tube steel frame, also of attaching the Grass Seed Hopper to the Grain Hopper. Also shows the Grass Seed Feed Cups, which are positive force feed. The Grass Seeder is located in front of the Grain Hopper, but if desired, the grass seed can be sown in the rear of the hoes or discs, by using the spouts furnished with each Drill.

*A Drill on a Good Frame is Like a
"House Built on a Rock"*



Buckeye Square Tube Steel Frame combines the greatest possible strength with the neatest appearance.

As strong as angle steel of double the size.

Made of heavy high carbon square steel tubing, bent at the front corners, so no reinforcing or bolting is necessary, and the only two braces used are of the same material.

The strongest form of steel, constructed in the strongest possible shape, on scientific principles.

Highest quality of steel axle running the entire width of the Drill, and with long bearings for wheels.

No heavy gearing in center of axle to cause sagging.

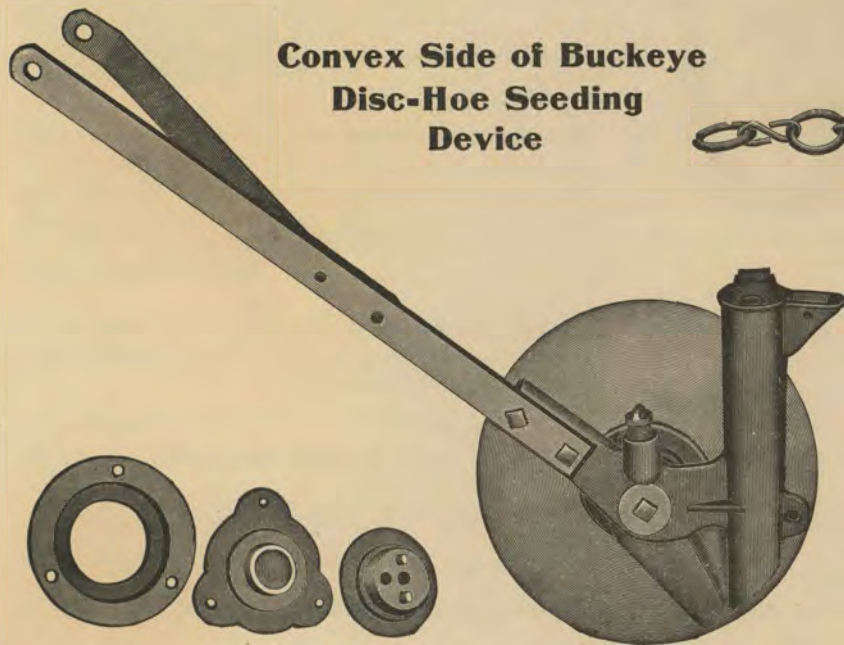
Frames may be made cheaper, but it is not possible to make them better.

Concave Side of Buckeye Disc-Hoe Seeding Device

These two cuts illustrate in detail the construction of the Buckeye Disc-Hoe Seeding Device and Drag Bars.

The disc bearing is chilled steel, and guaranteed not to wear out. The discs turn like the wheels of a wagon on bearings which are fastened to the hoe part of the device instead of having the bearings on the disc. Did you ever see a wagon with the spindles on the hubs and the boxing on the axle? Probably not.

Convex Side of Buckeye Disc-Hoe Seeding Device



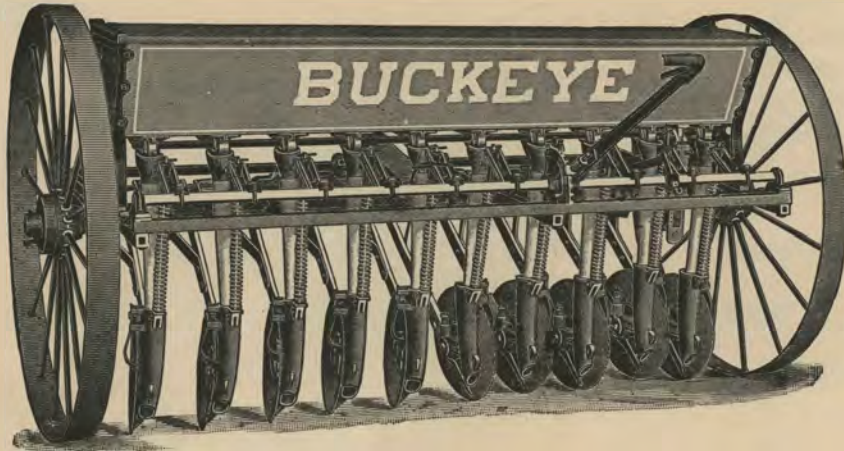
Notice the disc and *hard oil cup* in the lower cut. One oiling lasts the entire season, and the bearing is absolutely dust-proof.

The Disc-Hoe to which the disc is fastened is our special patented invention, and is superior to any other device for the purpose. It places the seed in the bottom of the furrow to be covered by the chain coverers, all to a uniform depth.

The Buckeye Steel Single Drag Bar, braced as shown in the cut, cannot possibly be bent, twisted or forced from its position by side pressure. Neither will it catch and accumulate clods, corn stalks and other trash as will a double drag bar.

The scraper is adjustable, and will do its work perfectly. The discs are 14 inches in diameter.

Buckeye Plain Disc Drill with Disc-Hoe Seeding Device



In olden times grain was sown by hand, and while of course a portion of the seed germinated, a large part of it was wasted.

Modern methods of farming demand modern machinery, and Buckeye Drills are "up-to-the-minute." In them are combined not only all the latest improvements, but they are also better and more durably constructed than other similar lines of drills.

By the use of a Buckeye Drill the increased crop harvested from a given number of acres, and using the same amount of seed, over broadcasting or other crude methods of sowing, will more than pay for the drill in one season, as none of the seed is wasted. When the seeding is done with a Buckeye Drill, there is no guess work about the result.

Construction

For description of driving device (cone gear) grain register, double run force feed, square tube steel frame and grass seeder, refer to pages 3 and 4. Discs and drag bars described on page 5. Wheels forty-eight inches high, either wood or steel, 3-inch tires regular, or 4-inch special on wood wheels only, at a small additional cost. Three pawl spring ratchet hubs which drive from both wheels. No lost motion. Cold rolled high grade steel axle; frame of square steel tubing, no riveted joints or reinforced corners. Rear pressure and rear lift. Rear pressure does not add neck weight, as discs enter the ground on same line as wheels. High carbon steel single drag bars not weakened by twisting. No extra space between the center discs. Double run force grain feed. Cone gear for change of quantity; no loose gears to be mislaid or lost. Detachable force feed grass seeder. Rubber or wire tubes.

Independent lever for throwing in and out of gear without raising the discs, for spotting shocks when drilling in corn ground.

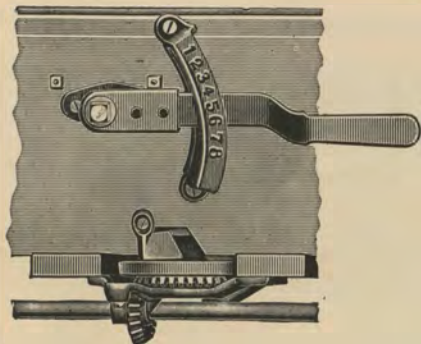
Sizes of Plain Disc Drills

All 8 disc drills are spaced 8 inches apart.

All 9 disc drills are spaced 7 or 8 inches apart.

10 to 24 disc drills are spaced 6, 7 or 8 inches apart.

The Famous Buckeye Non-Corrosive Glass Fertilizer Distributer



Consists of a non-corrosive glass feed-plate, turned by a bevel gear wheel which is driven by a bevel gear on the feed shaft, the whole being held in place against the bottom of the hopper by the spider. This spider is constructed of two pieces, and by removing three screws it can be separated and the different parts easily taken out for cleaning.

The first view (at top of page) illustrates the different parts assembled, the opening through which the fertilizer is discharged, and also the lever which regulates the quantity. The desired quantity is obtained by increasing or decreasing the opening.

A positive force feed which does not rust or corrode from acids in commercial fertilizers; guaranteed to sow all kinds of commercial fertilizers and fine manures; does not grind fertilizer into paste; change of quantity without stopping the machine; chain drive is positive and has least friction; independent lever for throwing fertilizer feed out of gear; fertilizer feed always in view; caps to cover fertilizer conductors, if desired.

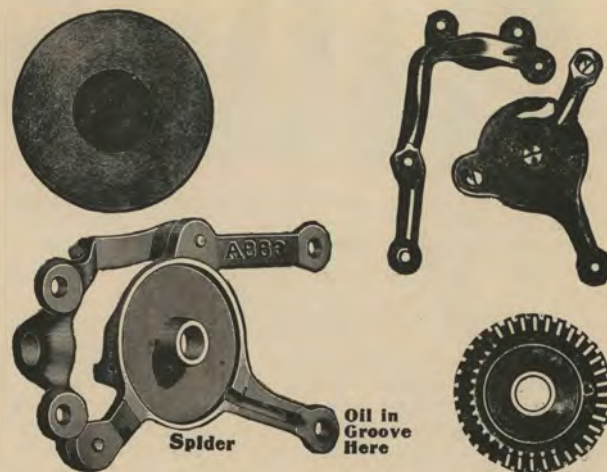
An accurate gauge is provided for regulating the quantity of fertilizer to be sown.

Attention is directed to groove in spider for oiling gear wheel as shown in view at bottom of page.

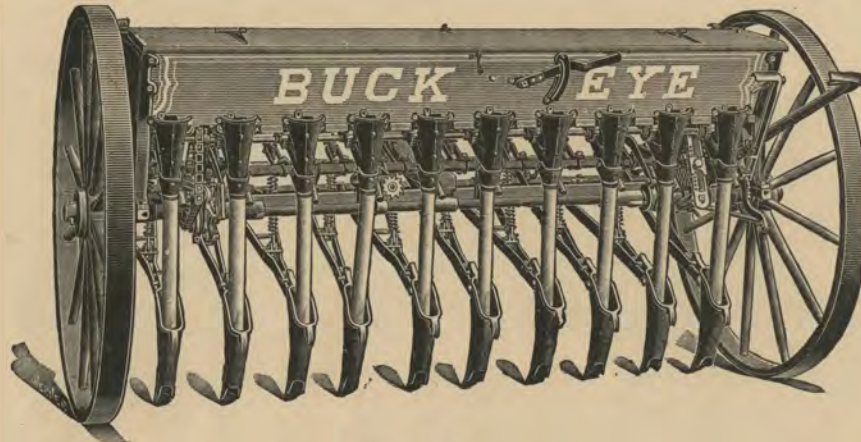
Cheapest because it saves time and expense.

Other feeds corrode and break.

The Buckeye is the only reliable fertilizer drill.



Buckeye Combined Grain and Fertilizer Hoe Drill



THE sowing of fertilizers has become such an important matter with the farmers of the older States that it is a source of profound satisfaction to us to be able, as we are, to furnish them a machine which will do this work thoroughly well. The Buckeye Combined Drill sows all kinds of grain and all kinds of fertilizers in connection therewith, and any farmer can buy it with the full assurance that it will give satisfaction and cause him no trouble, whatever.

The Fertilizers and Grain Hoppers are combined into a *double hopper*, as shown by the cut. While the front one is feeding out the grain, the rear one, the fertilizer box or apartment, is feeding out the fertilizer. Both grain and fertilizer pass down through the hoes and are deposited together in the ground.

The fertilizer is always brought into view *before entering the hoes*, and the operator can see just how the work is being done.

By our arrangement and location of feeders the fertilizer will only pass out of the hopper as it is carried out by the movement of the *ground wheels*. When they stop the flow of fertilizer or grain must necessarily cease. This is not true of those drills which have the opening in the bottom of the hopper and directly under the fertilizer. For if the fertilizer be dry and fine, as is often the case, it will run through like sand

with but little or no agitation, hence it cannot be *distributed regularly*. The glass fertilizer feed represents the highest point yet reached in Fertilizer Drill construction.

The Fertilizer Shaft

is of cold rolled iron and the bevel cog wheel that operates the feeders is driven by it. The device that drives the Fertilizer shaft is located near the center of the machine, and the lever for throwing the Fertilizer feeders in and out of gear is within convenient reach of the operator, so that in an instant, without stopping the team, he can stop the sowing of Fertilizer or resume it again.

The agitator is worked by a Cam on the left end of the fertilizer shaft, and its numerous points *playing over the bottom* and around the glass discs keep the fertilizer thoroughly loosened and shaken up.

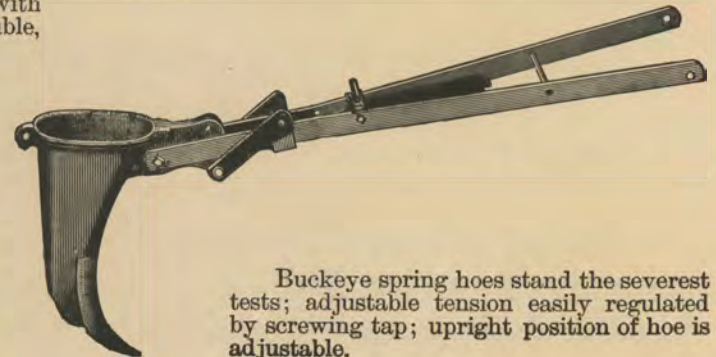
Sizes of Combined Grain and Fertilizer Hoe Drills

All 8 Hoe Drills are spaced 8 inches apart.

All 9 to 12 Hoe Drills are spaced 7 or 8 inches apart.

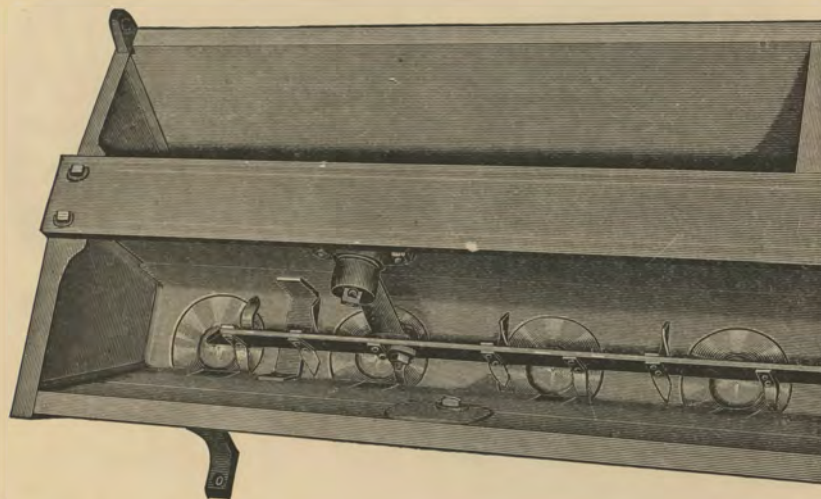
No Fertilizer Drills made with more than 12 hoes.

Spring Hoes instead of pin hoes furnished at small extra cost.



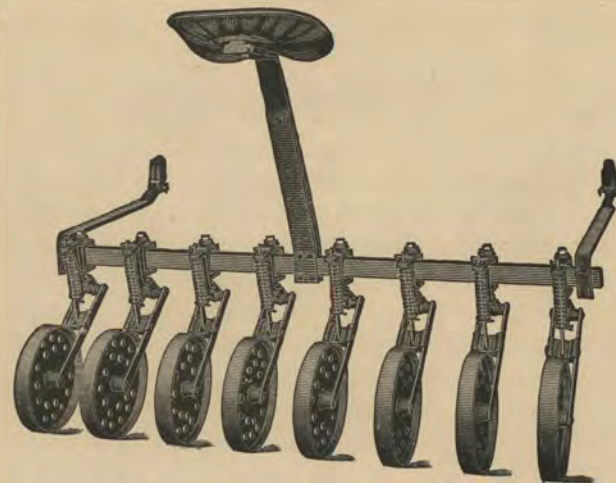
Buckeye spring hoes stand the severest tests; adjustable tension easily regulated by screwing tap; upright position of hoe is adjustable.

View of Inside of Fertilizer Hopper



The Hopper of the Buckeye Fertilizer Drill is lined with galvanized metal which fits closely to the glass distributor. The agitator, swinging slowly in the hopper, keeps the fertilizer from banking up. It stirs the fertilizer and saves the driver this annoyance. The prongs on the agitator work near the opening and prevent lumps from interfering. The agitator is driven by eccentric from cam on axle. The glass disc is larger than the portion of the hopper which is exposed to it, and the galvanized projection is reamed off to fit the glass perfectly, so that there is no space for the fertilizer to sift out.

The New Buckeye Gang-Press Wheel Attachment for High Wheel Drills



The most easily and perfectly adjusted press wheel device ever offered to the trade. Furnished for any size drill.

Made entirely of steel; no wood parts to rot out; each wheel is independent; can be adjusted to any desired width between wheels; does not interfere when turning the drill. Thoroughly covers the grain, thereby producing a larger and better crop.

Buckeye Plain Shoe Drill with Chain Coverers

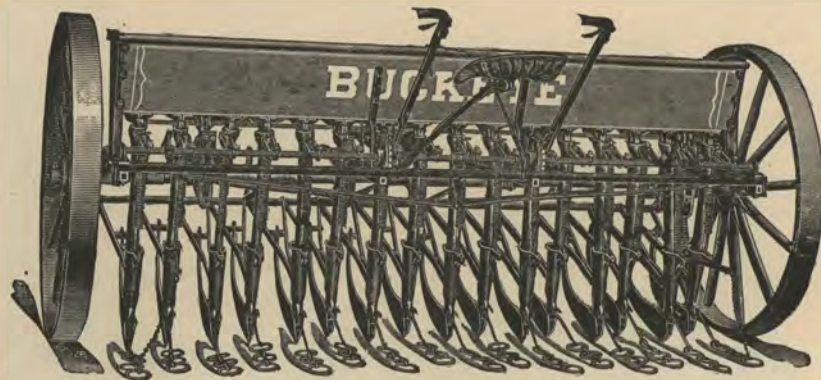
Construction

For description of driving device (cone gear) Grain Register, double run force-feed, square tube steel frame and grass seeder, refer to pages 3 and 4.

Wheels 48 inches high, either wood or steel, 3-inch tire, regular, or 4-inch special, on wood wheels only, at small extra cost; three pawl spring ratchet hubs, drive from both wheels, no lost motion; cold rolled high grade steel axles. Frame of square steel tubing, no riveted joints or malleable iron corner pieces. Rear pressure and rear lift. Rear pressure does not add to neck weight, as shoes enter the ground on same line as wheels. Double run force grain feed, cone gear for change of quantity; no loose gears to be mislaid or lost. Detachable force feed grass seeder, rubber or wire tubes. Independent lever for throwing in and out of gear without raising the shoes, for spotting shocks when drilling in corn ground.

Shoes and discs interchangeable, and readily changed from one to the other. Shoes made of high-grade steel, and so constructed as to enter the ground and open the furrow with the least possible resistance and draft. Double drag bars of heavy high grade flat steel, not weakened by twisting, and so shaped as to avoid catching and accumulating trash.

Above construction applies to both Plain Grain Drills and Combined Grain and Fertilizer Drills, except as to the famous Non-corrosive Glass Fertilizer Feed, which see fully described on page 7.



Sizes of Plain Shoe Drills

All 8 Shoe Drills are spaced 8 inches apart.

9 Shoe Drills are spaced 7 or 8 inches apart.

10 to 24 Shoe Drills spaced 6, 7, or 8 inches apart.

Sizes 8 to 12 Shoes have Single Lift and Single Drive.

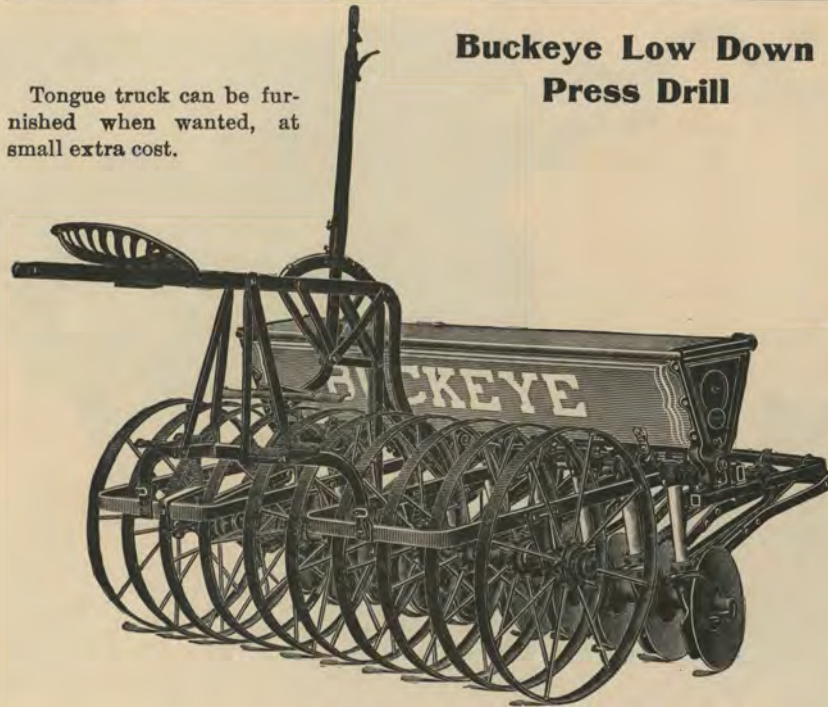
Sizes 14 to 24 Shoes have Double Lift and Double Drive.

Sizes of Fertilizer Shoe Drills

All 8 Shoe Drills are spaced 8 inches apart.

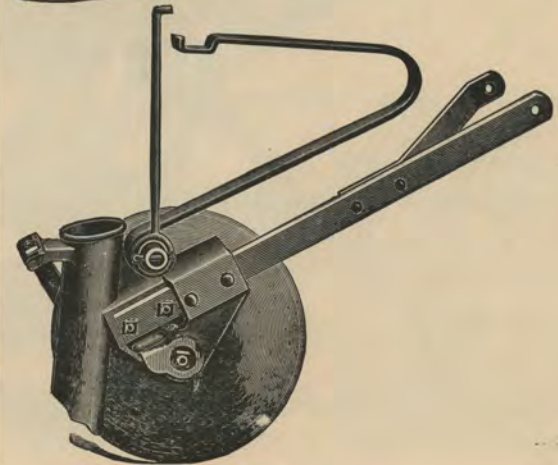
9 to 12 Shoe Drills are spaced 7 or 8 inches apart.

Tongue truck can be furnished when wanted, at small extra cost.



Buckeye Low Down Press Drill

Interchangeable Shoe and Disc Hoe, with Pressure Springs as used on Press Drill



The Lightest Weight, the Lightest Lift, the Lightest Draft, made to meet the requirements of farmers in western localities where the soil is light; equipped with either Discs or Shoe Runners as desired. Square tube steel frame, Improved Buckeye Fluted Force Feed, which will accurately sow all kinds of grain. Chain drive, Surveyor located on end of hopper. Drill is thrown in and out of gear when the front part of machine is lowered or raised. This movement is made by the use of one simple lever which acts in connection with the seat, the weight of the operator being sufficient to raise the machine when lever is released. Has Drop Hitch which prevents neck weight and makes it light draft. Discs and Shoes interchangeable and readily changed from one to the other.

Sizes of Buckeye Low Down Shoe or Disc Drills

All 8 Shoe or Disc Drills are spaced 8 inches. 10 to 16 Shoe or Disc Drills are spaced 6, 7, or 8 inches.

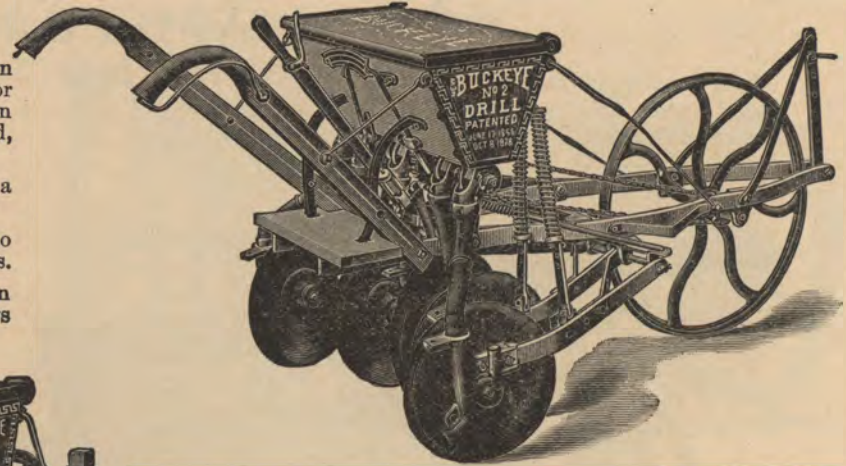
Buckeye Five-Hoe Grain Drill

This popular drill for sowing wheat, oats and barley between rows of standing corn has been extensively and favorably known for years. **It has an adjustable force feed**, by which the quantity can be varied without change of gear wheels. It is a positive force feed, and nothing can be more regular and accurate in its work.

Chain Drive. It is driven by a chain, which is known to be a simple, effective, and thoroughly satisfactory method.

Spring Wings. Has spring wings so as to allow them to yield to obstructions, and can be varied to suit the widths between corn rows.

The Hoes are hinged at the back and held in place by a wooden pin. In case an obstruction is encountered, the pin breaks and allows the hoes to fall back without breaking. They have steel points.



Buckeye Five-Disc Drill

The Buckeye Five-Disc Grain Drill contains very desirable features, which will be appreciated by the farmer.

Four outside discs are supported by independent drag-bars, having spring pressure, and will accommodate themselves to any unevenness of the ground or where the center of row is either high or low.

Ratchet and lever for adjusting discs for wide and narrow rows.

Self-adjusting discs for passing obstructions.

Discs set with center discs ahead, others widening to the rear, making the discs set "A" shape, allowing them to readily clear themselves of trash.

Disc spindle and hub are chilled, making them hard and giving them wearing qualities, and are dirt-proof.

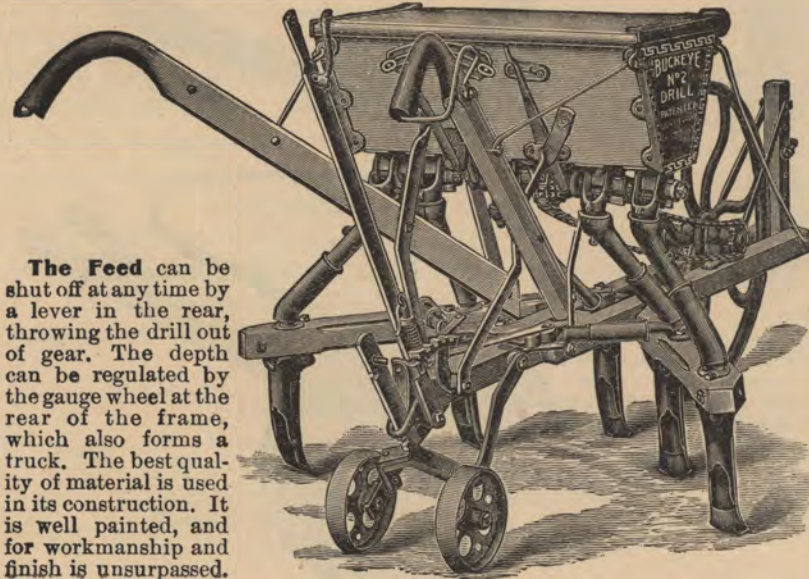
The disc-hoe is made with mud-guard next to the disc, preventing collection of trash or mud.

Furnished with fluted feed with steel rosette, and chain drive.

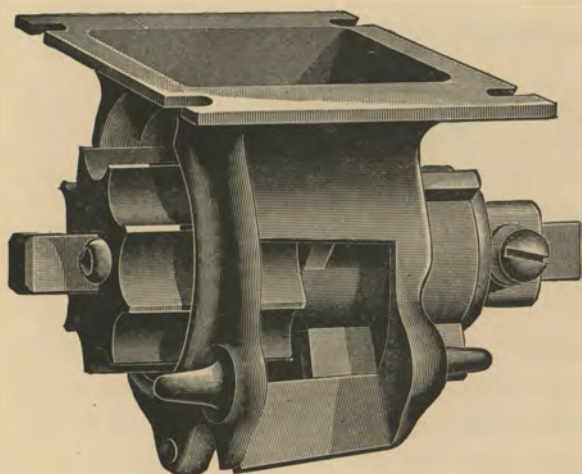
Metal seed conductors.

Hand-guards on handles for protecting the hands.

Weight shelf between the handles for carrying additional weight where necessary.



The Feed can be shut off at any time by a lever in the rear, throwing the drill out of gear. The depth can be regulated by the gauge wheel at the rear of the frame, which also forms a truck. The best quality of material is used in its construction. It is well painted, and for workmanship and finish is unsurpassed.



The Ohio Line of Drills

The Ohio line of drills, hoe, shoe and disc, as shown and described, are without question the latest and most complete line of fluted feed grain drills on the market. Each and every detail of construction has been carefully considered so as to adapt the machines for their special duties. Made in suitable sizes and widths for different localities, from 8 to 24 hoe, shoe or disc, and spaced 6, 7 or 8 inches, as desired.

The construction of our Ohio line of drills is exactly the same as our Buckeye line, except as to the feed and driving device.

The **Axle** is made of cold-rolled steel, and is supported in three bearing boxes on the smaller width drills, and four boxes on the wide drills.

The **Main Driving Wheels** are made of wood or steel, as desired. Both steel and wood wheels are made of special heavy pattern and both are employed in driving the drill, which always insures regular sowing under all conditions. Either wheel may stop entirely

and the other will keep the axle in motion. If, in turning a corner, one wheel stops or remains practically stationary, the other wheel keeps the driving gear in motion. Farmers who have had machines on which the axle was driven by one wheel, will realize the importance of the double drive on the main axle.

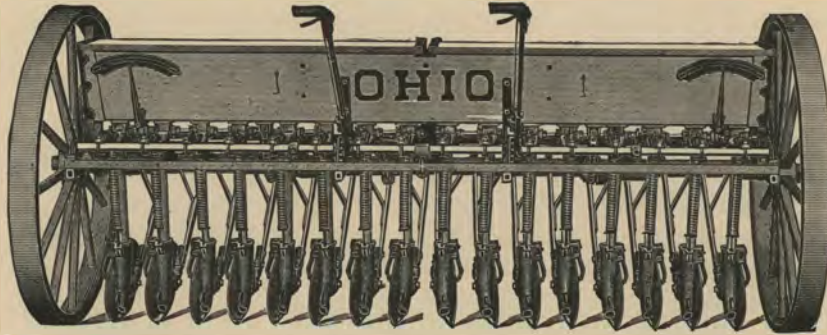
The **Feed** is without doubt the most important feature of a Grain Drill, and especially so in the Northwest, where a large acreage is sown to grain every year. The feed of the OHIO line of drills is a strictly up-to-date, fluted feed. Is perfectly fitted and is made with special reference to sowing flax-seed, wheat, barley, oats, and all other seed used in the Northwest; is specially designed for flax-seed. The quantity of seed sown is regulated by the dial-plate on back of hopper; by simply moving the index finger on the dial-plate, different quantities of flax-seed, barley, wheat or oats can be regulated as desired, instantly, without the necessity of unbolting or changing any part of the machine.

Chain Drive—The feed is driven by chain, which is the simplest driving device made. All drills having fourteen or more feeds have double chain drive.

Spout Connection, to which grain tube is fastened, is made high and extends well around the mouth of the feed to prevent the wind from interfering with the sowing, or blowing the grain out of the feeds.

The **Ohio Hoe Drill** has a specially curved hoe with spring pressure. Has permanent zigzag and no hoe shifter. The hoes go in the ground easily on account of their peculiar shape, and clean themselves readily of trash. **Positively the simplest Hoe Drill made.**

The Ohio Sixteen Disc Drill with Dust-Proof Disc Bearing and Hard Oiler



Made by Best Workmen, Praised by Best Farmers

The Ohio Disc Drill is specially adapted to suit the peculiar conditions found in many sections of the West and Northwest, and will do good work wherever Disc Drills can be successfully used.

Construction

Made with single disc and single drag bar, which prevent the lodging of corn stalks and trash in the drag bar or disc. The discs are set at the proper angle to give them the best working advantage.

The special construction of the disc spindle is perfect. We have given attention to the spindle so as to give the wearing parts long life. The spindle being chilled makes it very hard, and will last a lifetime if kept properly oiled.

The disc box which is attached to the disc is chilled same as the spindle, which gives it lasting wearing qualities.

The disc boot is made separate from spindle and can be easily replaced should it become necessary to renew it. The boot will not choke up in wet ground, thus preventing it from filling up between the disc and disc boot which is so common with other makes of Drills. Will operate in wet ground where other Disc Drills fail.

The scraper is attached to the rear of the disc and cleans it in such a manner as to throw the dirt back of the disc, which gives the best results. It is only necessary to use the scraper under certain conditions of the soil, and they can be readily taken off when not required.

"The Memory of Quality Remains Long After the Price Has Been Forgotten."



The Ohio Sixteen Shoe Drill

By a careful study of the Ohio Shoe Drill, persons familiar with the requirements of the West and Northwest will readily recognize the splendid special features embodied in our new Shoe Drill. The shoe is shaped so as to readily open a proper furrow, and at the same time not have a tendency to allow the trash to collect in front of the shoe, which is a common fault with many of the shoe drills now on the market.

The drag-bar curves gracefully to the front rail of the machine, which prevents weeds, trash, or corn stalks from accumulating in front of them. The shoe, being

well curved up at the front, allows it to cut largely from the heel, and makes the drill very light of draft. Works perfectly in wet or dry ground. Also works satisfactorily in sod ground, and forms a perfect seed-bed.

We use 48-inch wheels on all our drills, because they will do better work, and make the machine much lighter draft.



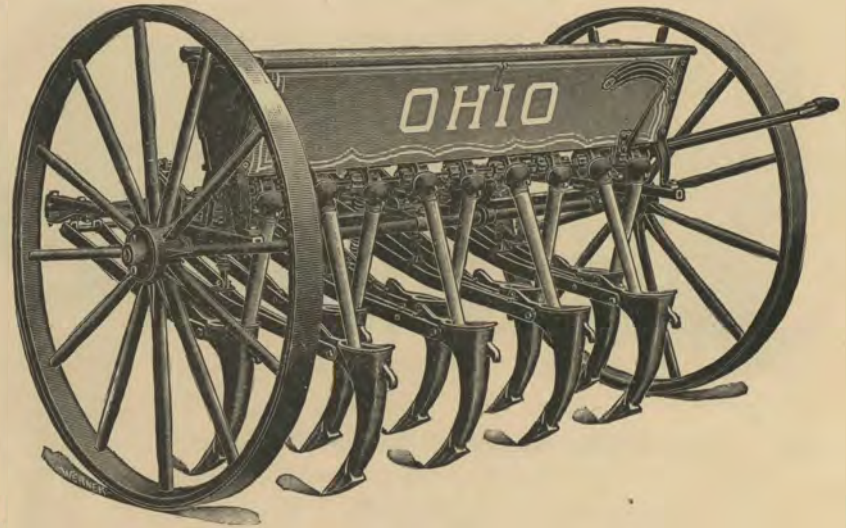
The Ohio Shoe

**A perfect shoe with a
perfect Pressure
Spring**

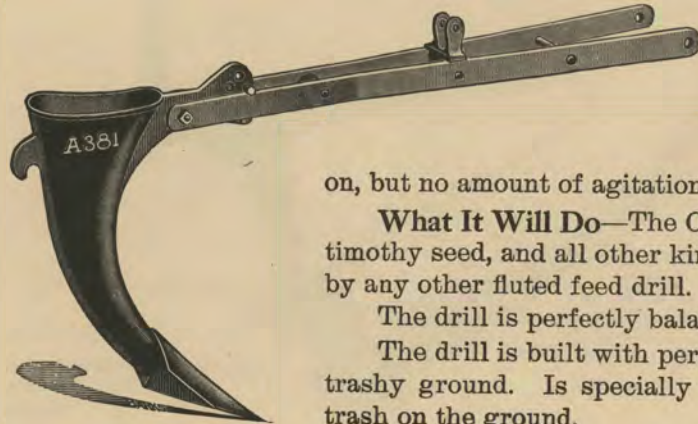
The Ohio Hoe Drill

The cut shows our special Pin Hoe Spring Pressure Drill, which has proved so popular that the demand for it continues to grow each year. The cut also shows the position and style of the drag-bars, which are very firm and durable, and which hold the hoes properly in line.

The Hoes have polished reversible steel points, and their depth in the ground is readily regulated by the operator, who must be governed in that important matter by the condition of the soil and ground, and other considerations which properly enter into the subject, all of which vary so much that no general rule can be safely laid down. But don't drill too deep.



New Ohio Pin Hoe—The peculiar shape of the curved hoe, as shown in cut, will cause it to penetrate the soil easier and with less pressure, and has lighter draft. Will also clear itself from trash more readily. The cast-iron spouts to which the rubber tubes are wired, can be readily taken off or put



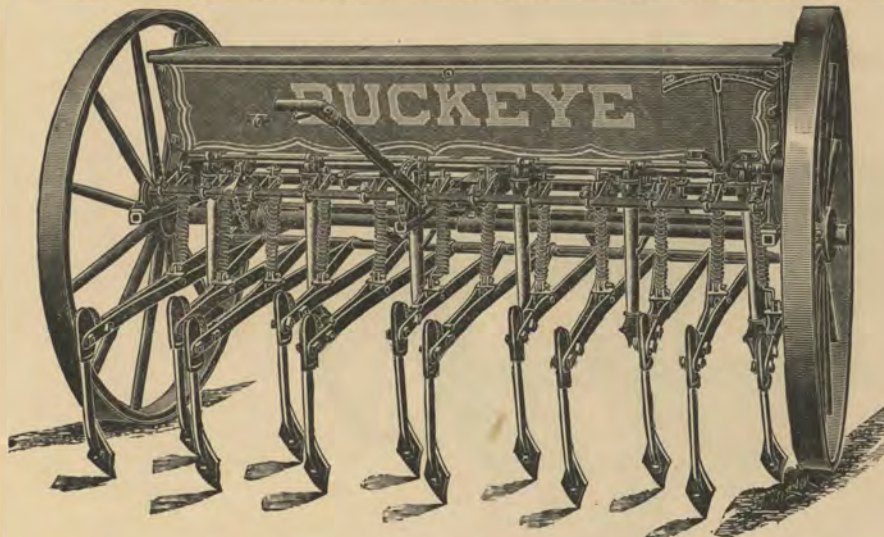
on, but no amount of agitation can shake them loose.

What It Will Do—The Ohio Drill will sow wheat, rye, oats, barley, buckwheat, grass seed, timothy seed, and all other kinds of either fine or coarse seed or grain, with a facility not equaled by any other fluted feed drill.

The drill is perfectly balanced and has no side draft whatever.

The drill is built with permanent zigzag of about twelve inches, which is very important in trashy ground. Is specially adapted to the western country where it is desired to leave the trash on the ground.

Buckeye Broadcast Seeder with Cultivators



Construction

Frame. High grade square steel tubing with bent corners. No riveted joints, but one solid piece.

Wheels. Wood or steel, 48 inches high with wide tire.

Axle. Cold-rolled steel, running the entire width of the machine and with long spindles for wheels.

Scatterers. Hinged at top and held in position by spring clamp so scatterers will bend to pass an obstruction and immediately fly back in position.

Surveyor. Placed on end of hopper and shows acres and portions of acres sown.

Points. Reversible and unquestionably the most practical in use.

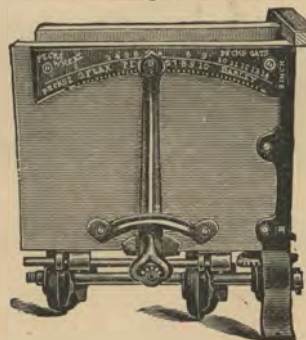
Drag Bars. High grade flat steel, operating independently of each other, and with **spring pressure** so arranged as to insure the points running in the ground sufficiently deep to cultivate properly.

Standards to which points are attached are hinged to lower end of drag bars and held by friction, so break pins are not necessary.

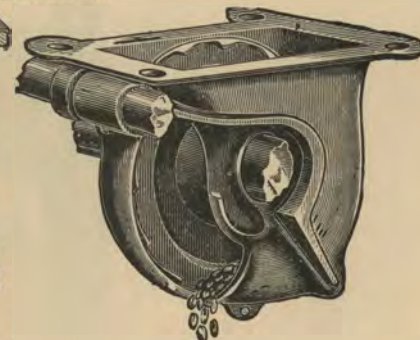
Lifting Arrangement. One lever only, strong, light, and simple.

Feed. Positive force feed so arranged that the quantity to be sown can instantly be changed to any desired amount without change of gearing. (See cuts).

Sizes. 12, 14, 16, 18, 20, 22, and 24 hoes. Sizes 10 to 14 hoes have single lifting lever and single drive. Sizes 16 to 24 hoes have double lifting levers and double drives.



Buckeye Feed Regulator



Positive Force Rim Feed

Our New Spring Hoe Seeder is furnished with our new, improved drag bar and spring hoe, novel in construction, neat in appearance, and specially adapted for use in stony and stumpy land, and is so arranged that the position of hoe point can be easily adjusted. The spring trip is operated by a spiral spring.

Spring Hoe Seeders furnished when ordered, but are charged for extra.

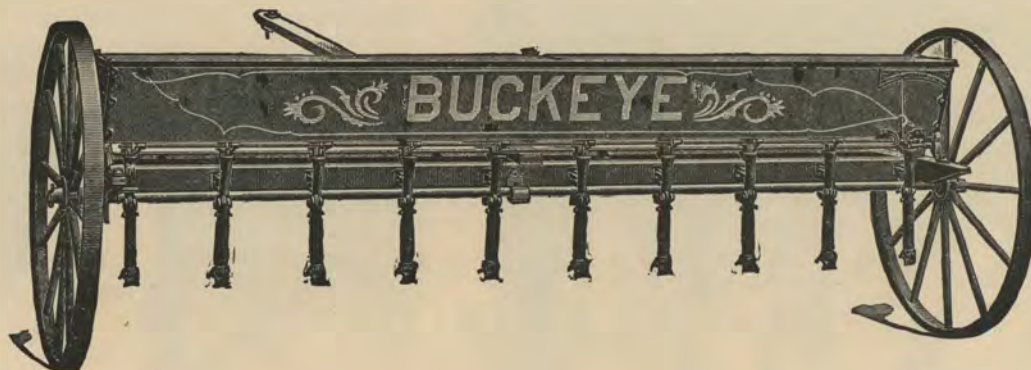


View of Spring Hoe in Position for Work.



View of Spring Hoe when Passing an Obstruction

Buckeye No. 1 Eleven-Foot Broadcast Sower Without Cultivators



The Demand of the Farmers who raise small grain on a large scale, especially in sections of the country where grain is sown broadcast, calls for a machine which will facilitate the seeding. For this purpose we are still manufacturing our celebrated Buckeye Eleven-Foot Broadcast Sower without cultivators.

This Machine is Substantially Made, and is mounted on four-foot wheels of our own make, which make the draft light and carry the frame and working parts high and clear of any obstacles, which is quite an advantage in seeding corn ground. It is also provided with our Improved Hinged Spout and Scatterer, which discharges the seed as near the ground as possible to insure its being properly scattered; and these Spouts, being arranged with a hinge and brake pin, are not liable to be broken in striking an obstruction. The grain feed on this Sower is the same as we use on our Broadcast Seeder, and is described elsewhere in this catalogue. This machine will sow full eleven feet wide. Operator can ride or walk as desired. Furnished with wood wheels only.

New Buckeye Eleven-Foot Broadcast Sowers

We are now making a new line of Eleven-Foot Sowers for the trade which requires a lighter and less expensive machine than our No. 1 Buckeye Eleven-Foot Sower. These Sowers are built first-class in every particular and have a reliable fluted force feed, but the machines are made lighter.

The line consists of narrow and wide track Force Feed Sowers, with or without grass seed attachment, as desired; also Eleven-Foot Agitator Sower.

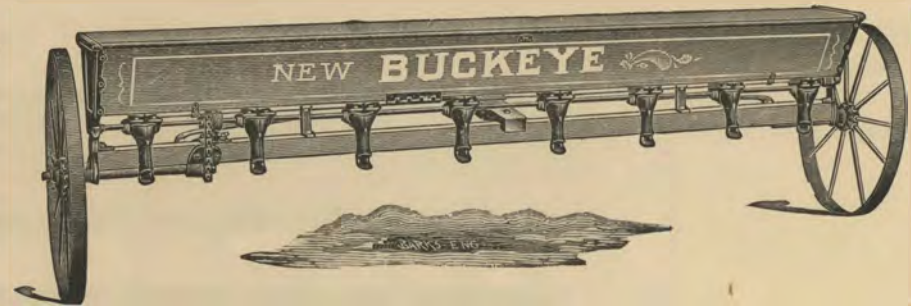
New Buckeye No. 2 Sower



The cut illustrates our NEW BUCKEYE NARROW TRACK, SQUARE STEEL TUBE FRAME, FORCE FEED BROADCAST SOWER. It is provided with a Spring Seat as shown in cut; is furnished with marker, and has a bar which runs full length in front of the seed scatterers to protect them from being broken. It is furnished with strong, but light steel wheels, is durably finished, neat in appearance, and accurate in operation.

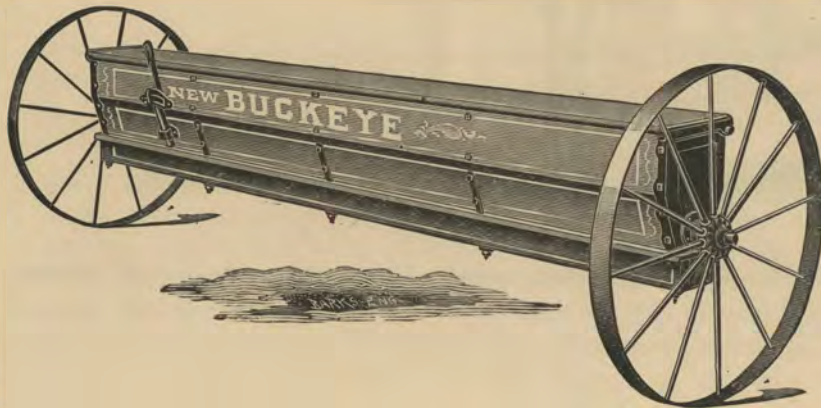
New Buckeye No. 3 Sower

The above cut shows our New Buckeye Wide Track, Force Feed, Broadcast Sower. This machine is made the same as the narrow track described on page 19, except that it has the wheels at the end; the scatterers are shorter, and are arranged to lift up, should any obstruction strike them, and their weight returns them to the proper position. Operator can ride or walk, as desired, but this machine does not have seat. Furnished with steel wheels only.



New Buckeye No. 4 Sower

This cut shows our New Buckeye Agitator Feed, Broadcast Sower, furnished with steel wheels only. Has the most correct feed of any machine of its class. Large seed box, sows all kinds of grain, and has a low discharge that is not affected by the wind. Operator can ride or walk, as desired, but the machine does not have seat. Nicely finished and first-class in every respect.





Buckeye Riding and Walking Cultivators



RENOWNED FOR DURABILITY
AND EASY HANDLING



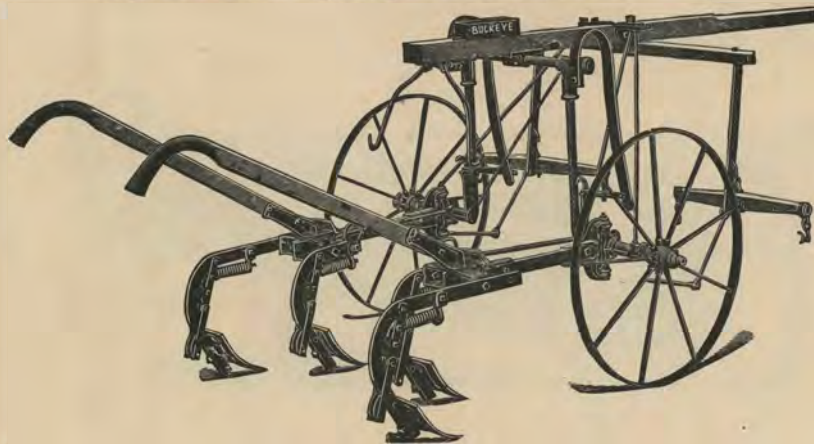
¶ Made in all sizes and styles, and adapted to the requirements of all sections of the country. ¶ A better line of Cultivators has never been produced, as they will do perfect work and last longer than any other line on the market. ¶ Thousands of satisfied customers can testify to the above. :: :: :: :: ::

Buckeye Sunbeam Adjustable Arch Walking Cultivators

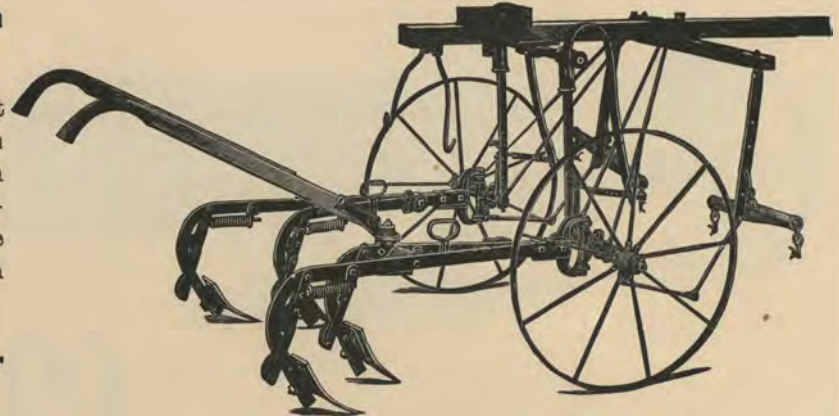
Adjustable Arch Walking Cultivator with Rigid Beams

These adjustable Arch Cultivators are the best machines on the market for cultivating crops planted in rows of varying widths. The maximum width from center to center of wheels being 46 inches and the minimum width 34 inches. Full 12 inches adjustment. The change is easily and quickly made. Equipped only with single tongue and 30-inch steel wheels.

Buckeye Adjustable Arch Walking Cultivator with Parallel Spring Shovel Beams



No. 113

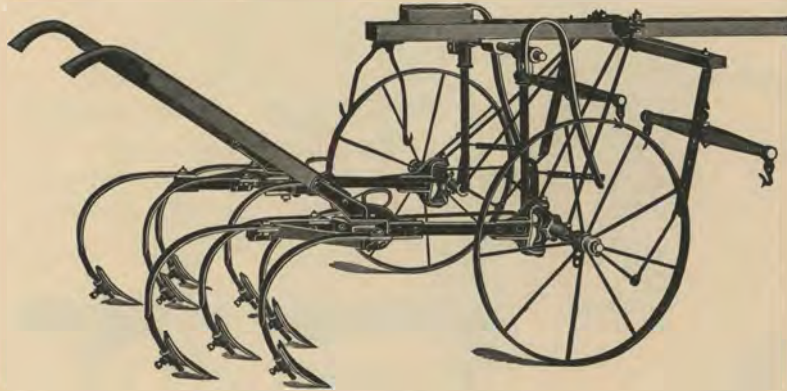


No. 109

Any style of beams made by us can be used on the adjustable arch frames, and are described by number below.

- No. 108—Four Pin Shovels, rigid beams.
- No. 109—Four Spring Shovels, rigid beams.
- No. 110—Six Pin Shovels, rigid beams.
- No. 111—Six Spring Shovels, rigid beams.
- No. 112—Four Pin Shovels, parallel beams.
- No. 113—Four Spring Shovels, parallel beams.
- No. 114—Six Pin Shovels, parallel beams.
- No. 115—Six Spring Shovels, parallel beams.
- No. 116—Eight Spring Teeth, parallel beams.
- No. 117—Eagle Claw, rigid beams.

Buckeye Sunbeam Adjustable Arch Spring Tooth Walking Cultivator



No. 116

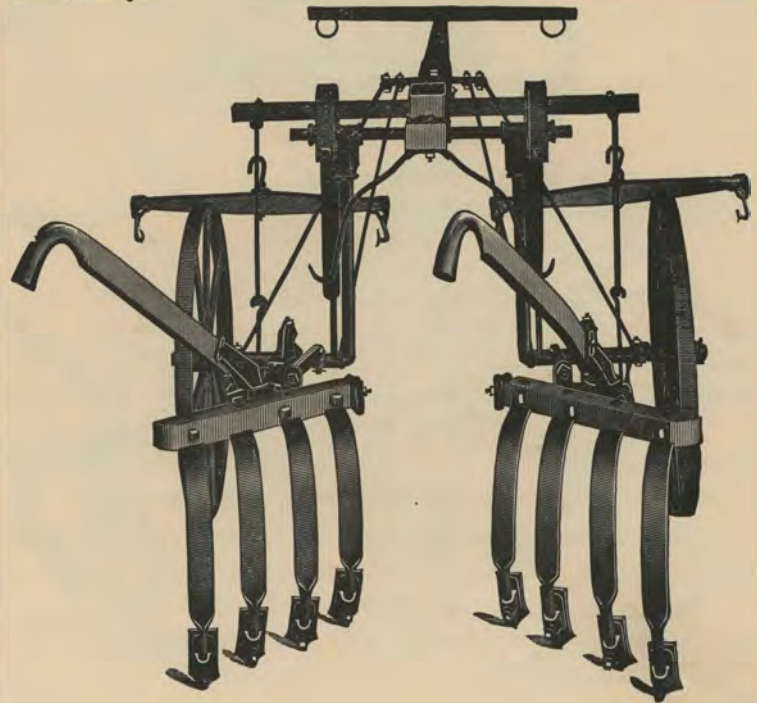
With eight spring teeth, single tongue. The description on preceding page applies to the two cuts on this page as to adjustability, wheels, tongue, etc.

After testing many different styles of lifting springs for walking cultivators, we have settled on the flat spring here shown as being absolutely the best.

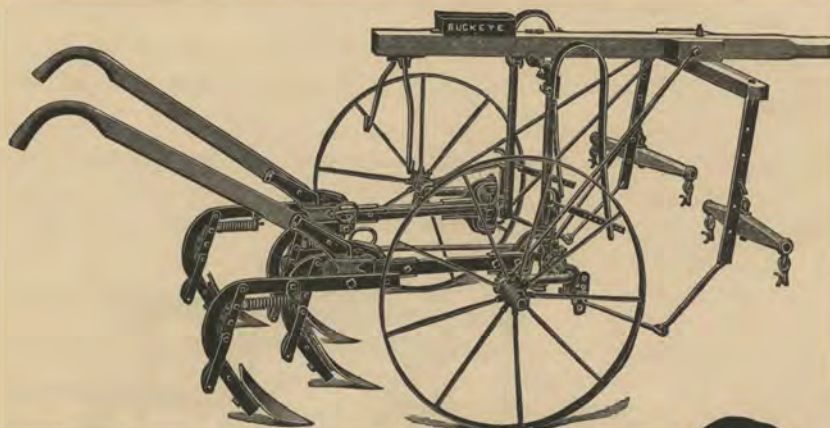
Buckeye Sunbeam Adjustable Arch Walking Cultivator, with Side Harrow Attachment

This Side Harrow Attachment is almost indispensable in cultivating ridged cotton and other crops grown in a similar manner.

Every spring tooth is tested before leaving our factory.



Buckeye Sunbeam Balanced Frame Walking Cultivators



No. 123

Balanced Frame Walking Cultivator with parallel beams, which has many new and improved features, making it far superior in every way to any other cultivator of this style on the market.

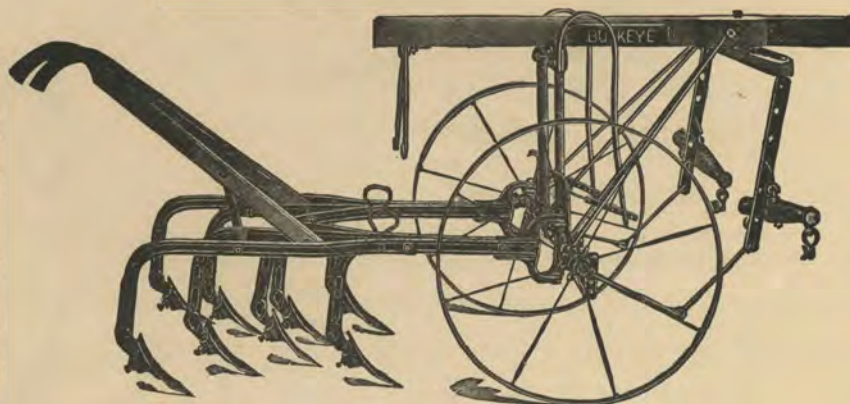
The steel axle is of one continuous piece, giving it great strength.

Perfectly balanced. Light and neat in appearance.

Steel wheels, 30 inches high, and either single or double tongue. Flat steel lifting springs.

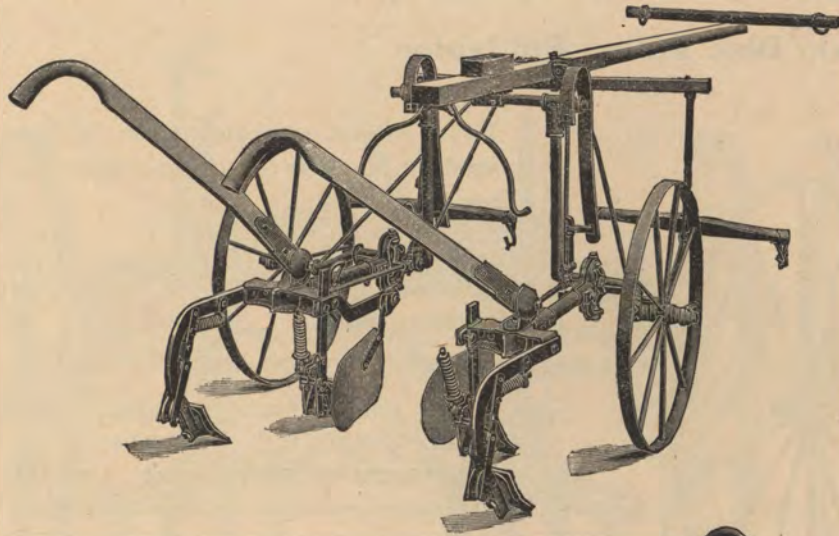
Either the rigid, parallel, or eagle claw beams will work on the balanced frame, and are described by number as follows:

- No. 118—Four Pin Shovels, rigid beams.
- No. 119—Four Spring Shovels, rigid beams.
- No. 120—Six Pin Shovels, rigid beams.
- No. 121—Six Spring Shovels, rigid beams.
- No. 122—Four Pin Shovels, parallel beams.
- No. 123—Four Spring Shovels, parallel beams.
- No. 124—Six Pin Shovels, parallel beams.
- No. 125—Six Spring Shovels, parallel beams.
- No. 126—Eight Spring Teeth, parallel beams.
- No. 127—Eagle Claw, rigid beams.



No. 127 Eagle Claw Walking Cultivator. (Frame same as No. 123)

Rigid Eagle Claw Beams, adjustable shovel sleeve with round shovel post. Adapted to level cultivation.



**No. 185 Buckeye Sunbeam Adjustable Arch
Balanced Frame Walking Cultivator**

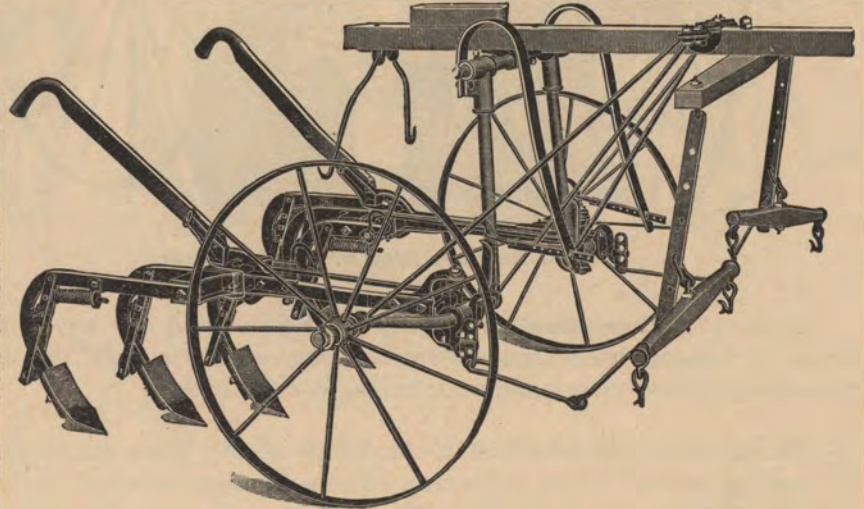
This cultivator has great adjustability, making it the best cultivator on the market for cultivating crops which are planted in rows of varying widths. It has a maximum width of 46 inches from center to center of each wheel, and can be narrowed to a minimum width of 34 inches, giving full twelve inches adjustment. The change from one width to the other is very easily and quickly made by simply loosening two set-screws, shoving the two castings on the axle in or out, as desired, and tightening the screws.

Is made *only* with single tongue, but can be furnished with either rigid or parallel beams, four or six pin or spring shovels. Also with spring tooth or eagle claw beams. Thirty-inch wheels.

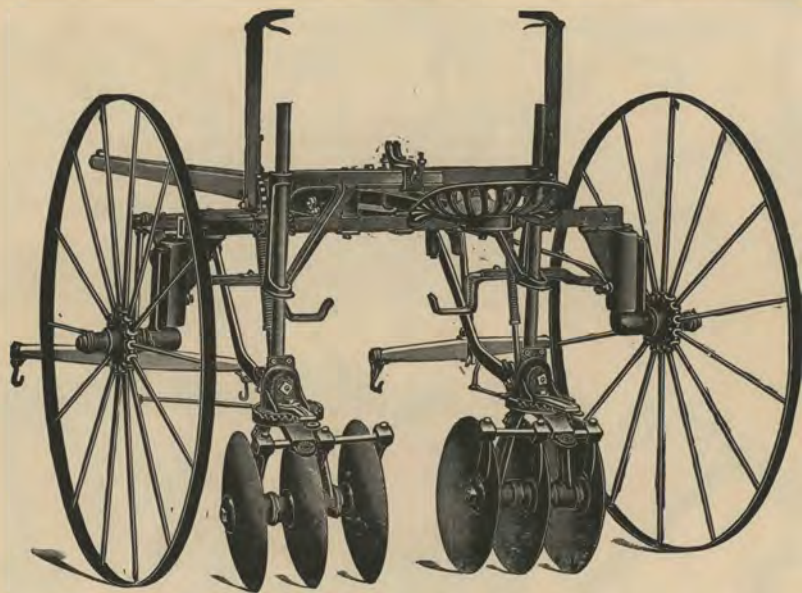
**No. 191 Buckeye Adjustable Arch, Balanced
Frame Walking Cultivator**

The No. 191 Cultivator is especially intended for the Southern trade, for cultivating cotton, as it is made with tilting pipe beams. This is a balanced frame, adjustable arch machine, and has our justly famous "one piece" axle, with no joints at the wheels to work loose. It also has the celebrated Buckeye cone bearing beam coupling, by which all wear can be taken up, and the beams kept rigidly lined up to their work. The arch is adjustable for wide or narrow rows, and the two inside standards are adjustable up or down, and can be tightly locked at any desired height. It has steel wheels, thirty inches high, with two-inch tire and dust-proof hubs.

We honestly believe this machine has more desirable features than any other Cultivator made for the Southern trade, and it is backed up by our guarantee.



Buckeye Pivot Axle Disc Riding Cultivator



No. 50 Buckeye Disc Riding Cultivator

Each set of three discs turns on a pivot point and can be adjusted to throw dirt to or away from the row at any angle, without the use of a wrench, and tilted to any angle for ridged corn or cotton.

Extra center disc attachment, consisting of two discs, can be furnished for making perfect fallow cultivator. These discs are attached to the inside of the regular section of discs, making four discs on a side, instead of three.

Extra leveler attachment can be furnished for leveling the ground after the discs.

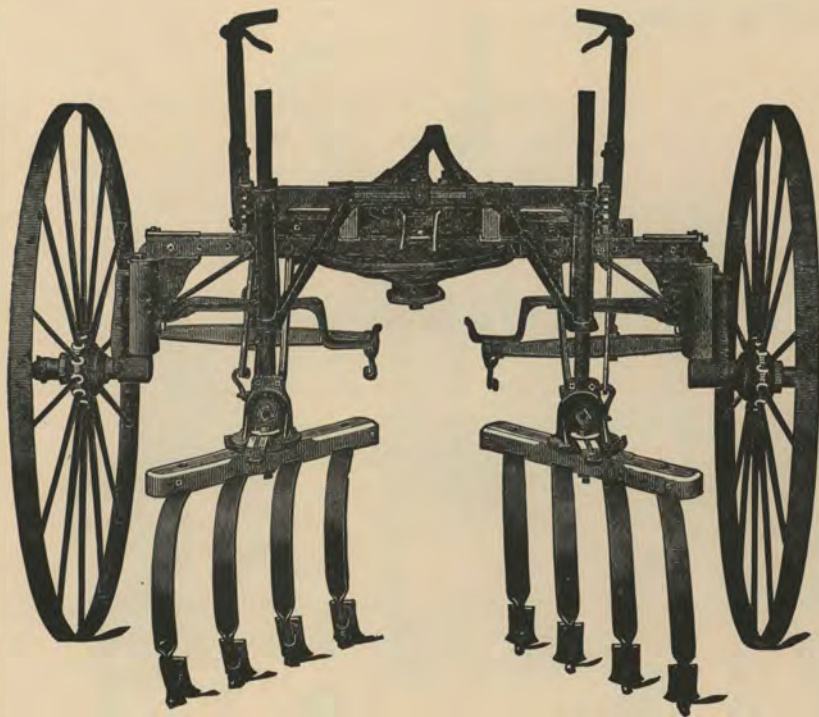
The best cultivator on the market for cultivating cotton.

Wheel guide; double tongue; drop hitch forty-eight-inch steel wheels; adjustable arch, spring pressure; sixteen-inch discs; beams adjustable to or from row.

**Constructed Especially for Cultivating
in Pea Vines and Foul Ground**

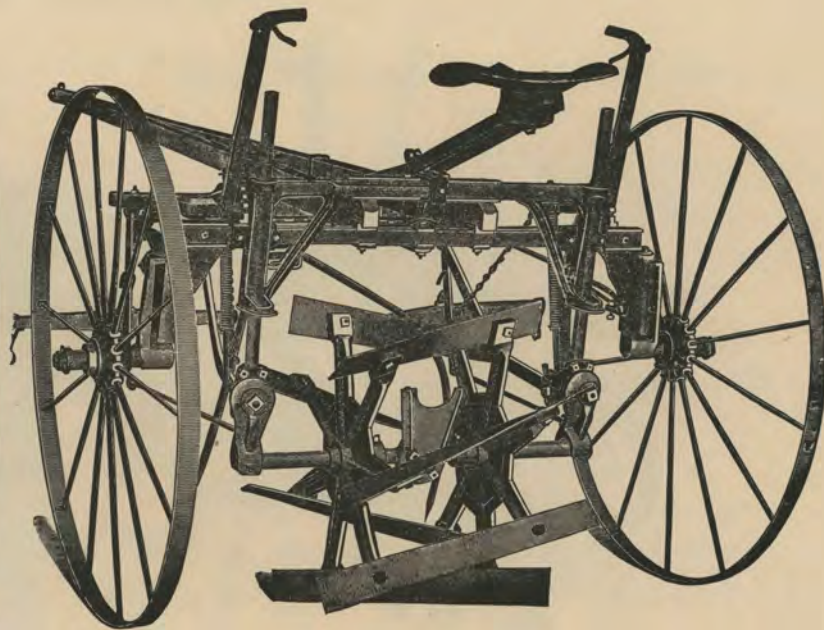
**The Best Disc
Cultivator
in the World**

See next page for attachments to this machine.



**No. 50 Disc Cultivator,
Equipped with Side Harrow Attachment**

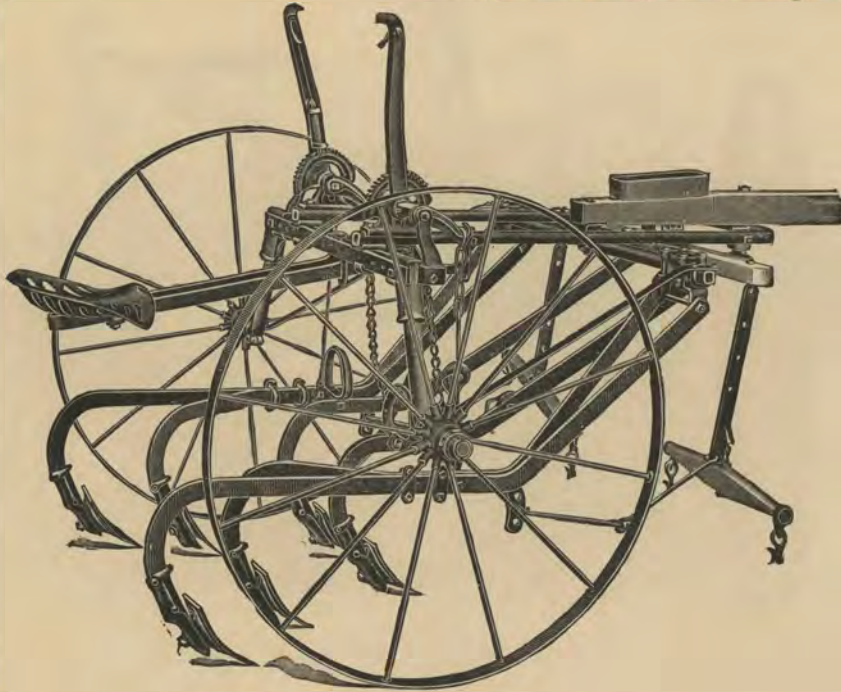
For the Southern trade. By removing one bolt, side harrow can be substituted for discs.



**No. 50 Disc Cultivator,
Equipped with Stalk Cutter Attachment**

Stalk cutter attachment furnished with either straight or curved blades.

Easy Buckeye Riding Cultivator



No. 168 Easy Buckeye Riding Cultivator

Drop hitch has direct connection with the beams, and depth of shovels can be thus regulated.

The two outside beams are not movable sidewise, but the two inside beams are independent, and can be guided by the operator with ease. The position of both the outside and inside beams can be changed by shifting front coupling on cross rail. Simplest, strongest and easiest to operate. **NEVER COME BACK.**

Superior to any Shovel Cultivator ever made for level work, the results being almost identical with hand hoeing. So says every farmer who has tried them.

Single tongue; forty-two-inch steel wheels; square tube steel frame; running ratchet for lifting lever; height of arch, thirty-four inches; steel seat adjustable for length and height; arch adjustable for wide and narrow rows; minimum width, 37 inches; maximum, 47 inches.

Equipped with 4, 6 or 8 pin or spring trip shovels, and described by number as follows:

No. 166—Four Pin Shovels.

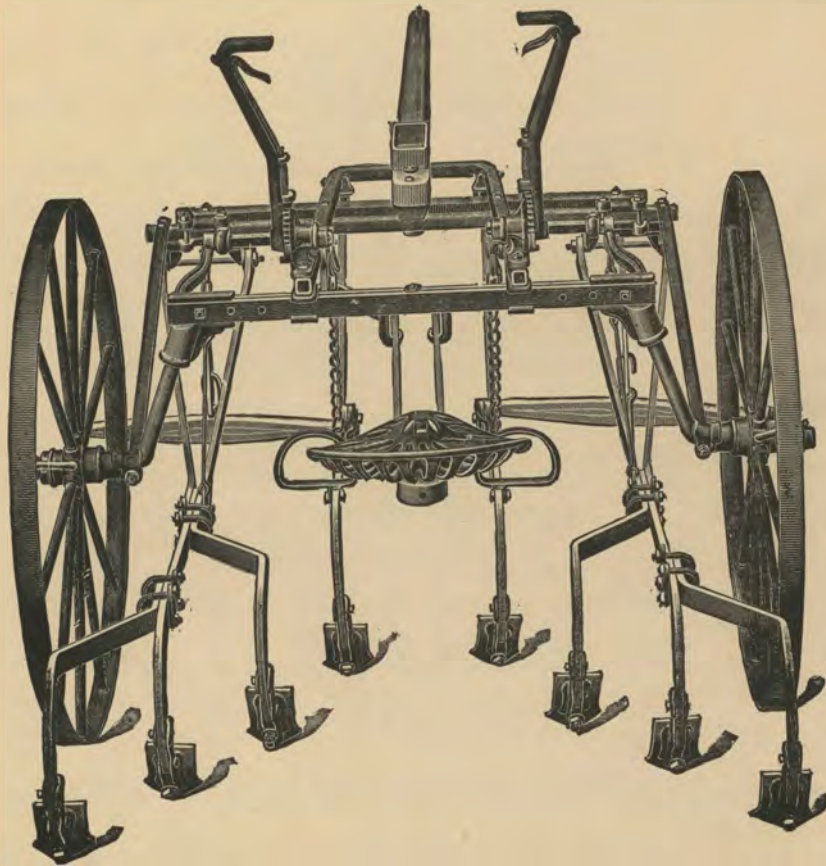
No. 167—Four Spring Shovels.

No. 168—Six Pin Shovels.

No. 169—Six Spring Shovels.

No. 170—Eight Pin Shovels.

No. 171—Eight Spring Shovels.



No. 170 Easy Buckeye Riding Cultivator

Easy Buckeye Riding Cultivator

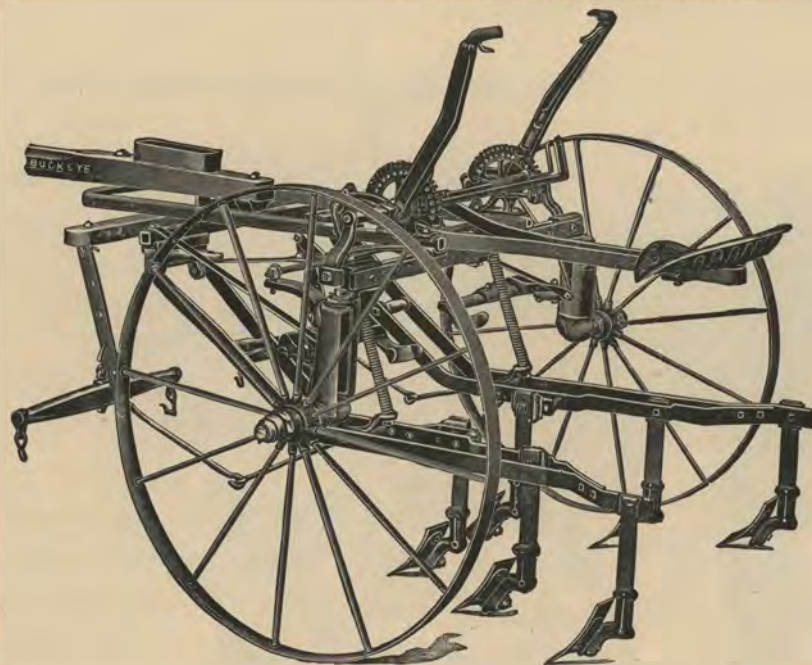
The accompanying cut is a rear view of the Easy type of Buckeye Riding Cultivators, and is intended to show the frame and the unobstructed view of the row from the operator's seat.

The second standard from the inside and the outside standards can be detached.

The view also shows method of narrowing or widening the arch. Minimum width, 37 inches; maximum, 47 inches. See cut and description on preceding page.

This Cultivator has created many satisfied customers.

The Buckeye Pivot Axle Riding Cultivator



No. 156 Buckeye Pivot Axle Riding Cultivator

The strongest, neatest, most adjustable, quickest action, lightest draft, and easiest operated of any pivot axle on the market.

Equipped with long or short axles, and four, six or eight pin or spring trip shovels, or spring teeth beams with ten spring teeth, and described by number as shown on following page.

To meet the demands of Michigan trade, we also furnish beams of special design for Nos. 158, 159, 162 and 163 Cultivators. These special beams carry four shovels in the same space as three shovels are carried on the regular beam.

Pressure of the foot on the foot-lever turns the wheels and moves the beams at the same time, thus shifting the entire cultivator instantly in the desired direction.

Space between beams can be instantly changed while the machine is in motion, by a convenient spacing lever.

Single tongue; square tube steel frame; forty-two-inch wood or steel wheels; spring pressure; steel seat adjustable for length and height; drop-hitch directly connected with beams; height of arch thirty-four inches; adjustable arch.

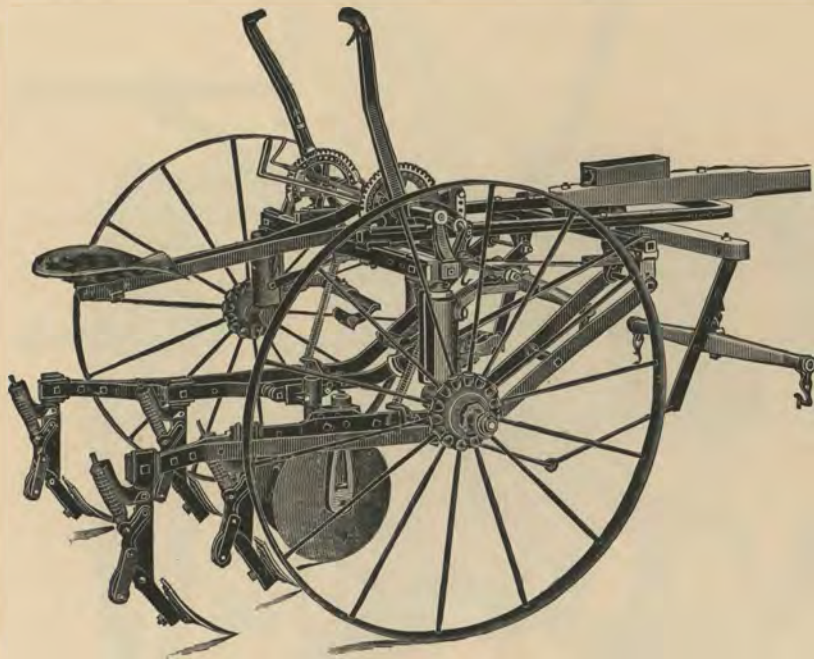
Especially adapted to crooked rows and hillside cultivation. This machine is undoubtedly

The King of All Shovel Cultivators

for general use in all kinds of ground and under all the many conditions against which the farmers have to contend.

Hillsides and crooked rows can be worked to perfection, and only serve to show its many advantages.

The Buckeye Pivot Axle Riding Cultivator



No. 157 Pivot Axle Cultivator, with Disc Attachment

This attachment takes the place of the front shovels, and is used for first cultivation of corn and the hilling of corn and other crops.

Adjustable for throwing dirt to or from the row.

Our long axle is standard, the short axle having been provided for cultivating potatoes, beans, tobacco and other crops planted in narrow rows.

Extra single center attachment for all these cultivators, except Nos. 164 and 165, which have extra three-tooth center attachments.

The Buckeye Pivot Axle Riding Cultivators, as illustrated on previous page, are listed as follows:

No. 154—Four Pin Shovels; long axle; minimum width, 42 inches; maximum, 52 inches.

No. 155—Four Spring Shovels; long axle; minimum width, 42 inches; maximum, 52 inches.

No. 156—Six Pin Shovels; long axle; minimum width, 42 inches; maximum, 52 inches.

No. 157—Six Spring Shovels; long axle; minimum width, 42 inches; maximum, 52 inches.

No. 158—Eight Pin Shovels; long axle; minimum width, 42 inches; maximum, 52 inches.

No. 159—Eight Spring Shovels; long axle; minimum width, 42 inches; maximum, 52 inches.

No. 160—Six Pin Shovels; short axle; minimum width, 37 inches; maximum, 47 inches.

No. 161—Six Spring Shovels; short axle; minimum width, 37 inches; maximum, 47 inches.

No. 162—Eight Pin Shovels; short axle; minimum width, 37 inches; maximum, 47 inches.

No. 163—Eight Spring Shovels; short axle; minimum width, 37 inches; maximum, 47 inches.

No. 164—Ten Spring Teeth; long axle; minimum width, 42 inches; maximum, 52 inches.

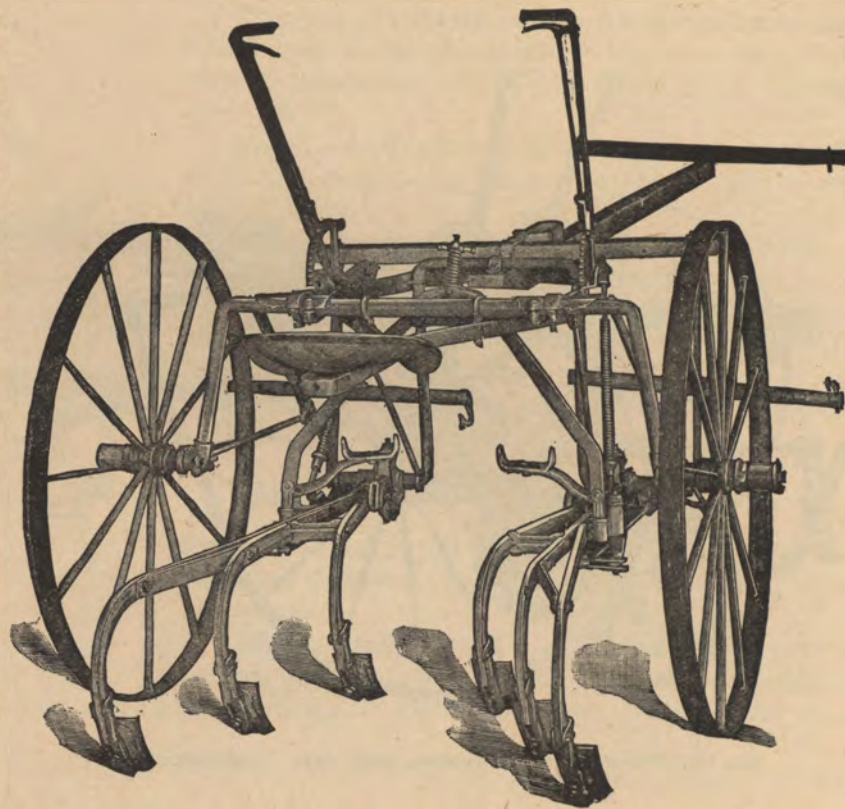
No. 165—Ten Spring Teeth; short axle; minimum width, 37 inches; maximum, 47 inches.

THE Buckeye Pivot Beam Riding Cultivator is the result of a long-continued series of careful tests and experiments, and we now confidently offer it to the trade as the best and most satisfactory tool of this class on the market. It is practically all steel and malleable iron, and therefore absolutely strong and reliable in every way. It has a single tongue, steel frame, and 42-inch steel wheels, equipped with long-distance, dust-proof hubs. The beam shift is a new patented invention of our own, and is worthy of careful investigation, as it reduces the labor of operating to a minimum. The spacing arch is also a new invention, and is made with a spring which permits the independent operation of each beam, and keeps them always lined up to their work. This arch can also be made rigid, so both beams can be worked as one. By a special lifting device we lift both beams uniformly, regulate the depth for cultivating to an absolute certainty, and the shovels are *always* on a perfect level when moved from right to left, or *vice versa*. It has an adjustable steel seat, and is also adjustable for wide or narrow cultivation, having a minimum width of 42 inches, and a maximum width of 52 inches.

Can be used as a walker if desired, and there are no parts to be taken off or put on when making the change. However, handles are not furnished unless ordered, and a small extra charge is made for them.

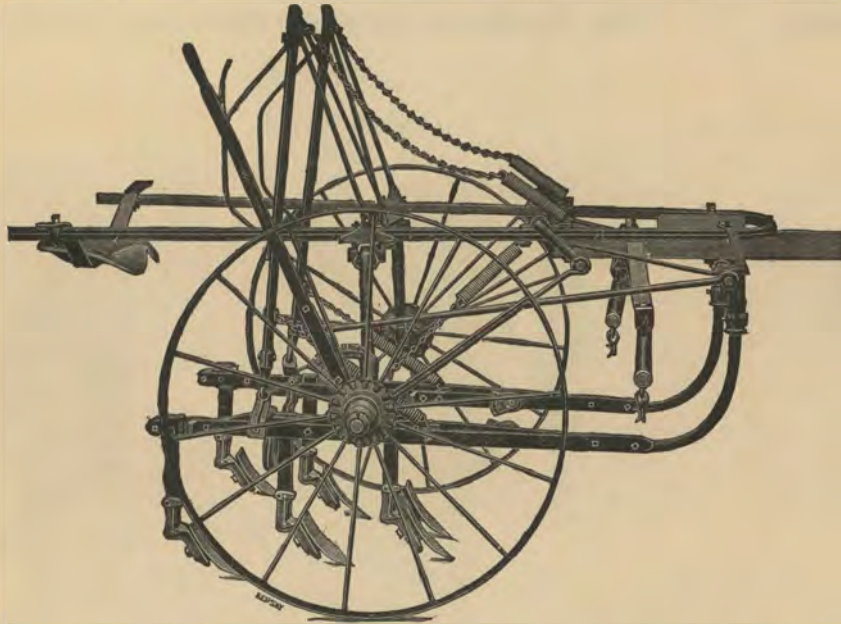
In short, we claim the Buckeye Pivot Beam has *more* good points than any other cultivator of this style, and we will guarantee it in every respect.

- No. 172—Four Pin Shovels.
- No. 173—Four Spring Shovels.
- No. 174—Six Pin Shovels.
- No. 175—Six Spring Shovels.
- No. 176—Ten Spring Teeth.
- No. 177—Eagle Claw.



No. 174 Buckeye Pivot Beam Riding Cultivator

Handy Buckeye Hammock Seat Riding Cultivator



No. 104 Buckeye Hammock Seat Riding Cultivator

Balanced frame for light or heavy operator. Balance frame lever is connected with rock shaft, which supports both ends of axle. Operator has unobstructed view of the row. Pivoted beam coupling and hinge at bottom of pendulum cause a level movement of the shovels when shifted to or from the row. No tipping of beams. Long beams and swinging pendulum make beams easy to guide.

The latest improved and very best Cultivator of the Hammock Seat type in the market.

Single tongue; square steel tube frame, in one piece; forty-two-inch steel wheels; width between wheels controlled by sleeves on axle; maximum width, 52 inches; minimum, 47 inches.

Equipped with four or six pin or spring trip shovels. Spring tooth beams with ten teeth or Eagle Claw beams, and described by number as follows:

- No. 102—Four Pin Shovels.
- No. 103—Four Spring Shovels.
- No. 104—Six Pin Shovels.
- No. 105—Six Spring Shovels.
- No. 106—Ten Spring Teeth.
- No. 107—Eagle Claw Beam.

The Buckeye Curved Standard Spring Shovel



The Buckeye Straight Standard Spring Shovel

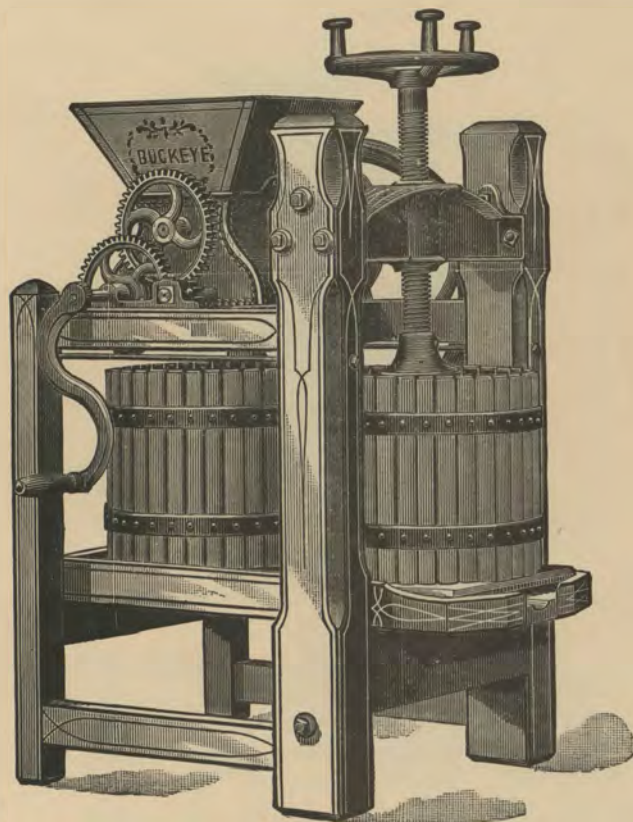


First successful spring shovel ever invented. Used continually for twenty-five years. Never altered and never condemned. Tension of spring can be adjusted by turning tap on spring post. Two holes in shovel sleeve for changing slant of shovel. The Curved Standard Spring Shovel is used on our Walking and "Easy" Riding Cultivators.

This Spring Shovel embodies the same principles as the renowned Curved Standard Spring Shovel.

Tension of spring can be regulated in the same manner. Two holes in shovel sleeve for changing slant of shovel. The Straight Standard Spring Shovel is used on our Pivot Axle and Hammock Seat Cultivators.

Buckeye Senior Cider Mill



THE SENIOR, including mill and press, is embraced in a single frame two and one-half by two feet; has a two-inch wrought iron screw, with strong cast iron beam fastened to the main posts of the frame with three bolts at each end. This mill has three grinding rollers which run at different speeds, thereby both scraping and crushing the apple, leaving it in the best possible form for the press.

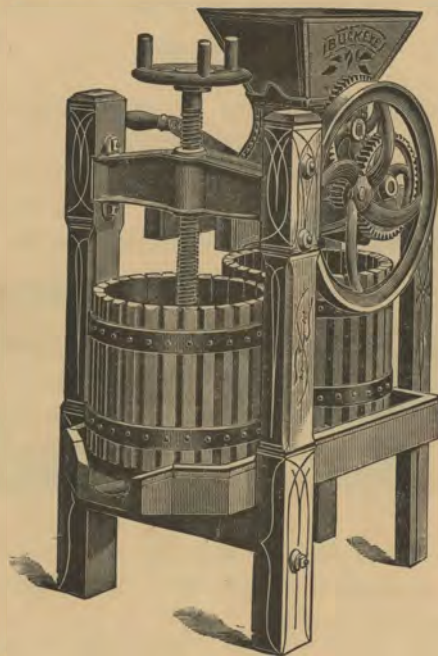
The fly-wheel is attached to the shaft having the greatest speed, which allows the mill to operate with less power, and is a great improvement over mills where the grinding rollers run at the same speed. On the Buckeye Mill the upper roller crushes the apple into a coarse pomace, thereby preparing and passing it through the lower cylinders, which crush it into a fine pomace.

This mill has two cribs or tubs, so that you can grind into one while another man, or boy, is pressing the other. Two men can grind and press from four to six barrels of cider per day.

We guarantee these mills to extract more cider from a given quantity of apples, with less labor, than any other hand mill. Weight 365 pounds.

Cribs or tubs are 14 inches high and 15 inches diameter.

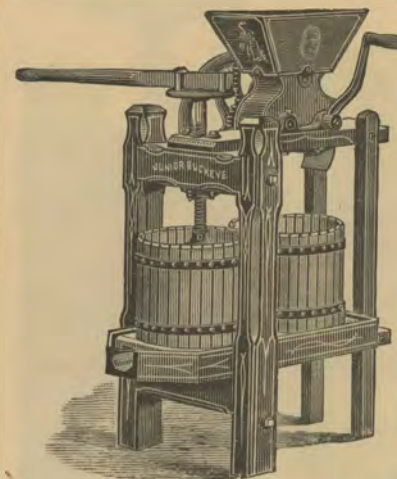
Buckeye Medium Cider Mill



The Medium Mill in capacity is about half way between the Senior and Junior, being made on the same principle as the Senior Mill, having inch and one-half screw. It is well adapted for family use, and a mill which commands a large share of the trade, being of convenient size. Weight 225 pounds.

Cribs or tubs are 12 inches high and 12 inches diameter.

Buckeye Junior Cider Mill



The Junior is made on about the same principle, and is built for those persons who want to make but a small quantity of cider at one time, and for pressing berries, etc. It has hardly half the capacity of the Senior Mill, being much smaller and having inch and one-quarter screw. Weight 155 pounds.

Cribs or tubs are 10 inches high and 12 inches diameter.

G. H. FORRER
BROKER
ENGRAVING AND PRINTING
SPRINGFIELD, OHIO