

# P.P. MAST & CO

SPRINGFIELD, O.

MANUFACTURERS OF.

# BUCKEYE



# CULTIVATORS

Spring Tooth Wheel Harrow and Cultivators,  
CORN PLANTERS, & PLOW SULKIES, &C.

Branch Office: 216 North Broad Street, Philadelphia, Pa.



No. 1.—New Beckey's Walking Cultivator with Iron Beams, 4 Shovels, Rotary Shields and Springs.

# THE NEW BUCKEYE

## Walking Cultivators, IMPROVED FOR 1885.

We place the NEW BUCKEYE before you feeling confident that it has no equal in the market. The following are a few of its many points of superiority:

**Width between Beams.**—There has been a growing demand for a Cultivator arranged so that the front ends of the beams can be thrown *close together*, so as to bring the shovels close to the small corn, and at the same time *draw in direct line*. This we have fully accomplished in our new coupling, as we can now bring the shovels within two inches of the center of the row, and at the same time draw in a direct line without any outward pressure.

**Adjustable Shovel.**—All the Shovels both for wood or iron beams are easily adjusted, and can be set so as to throw the dirt to or from the corn by loosening a single bolt.

**Beam Coupling.**—We know the improved coupling used in the *Buckeye* cannot be surpassed. While being free from any looseness, allowing the beams to swerve or "wobble," it is perfectly free to be moved laterly or vertically and is simple and cannot get out of repair.

**Number of Shovels.**—We have so arranged the NEW BUCKEYE that we can use four shovels in cultivating corn, and five or six for cultivating fallow, also Seeding Attachment.

**Springs.**—Our new DOUBLE ACTING spring which have been thoroughly tested the past season, is acknowledged by every practical farmer and dealer, who has examined them, to be *decidedly the best in the market*. They are very simple in construction, and so arranged that they are not liable to get out of order; they are so arranged that when the cultivator is in operation there is a downward pressure to hold the beams steadily in the ground, and when out of the ground to raise them high enough to hook up without any effort upon the part of the operator, thus taking off the heavy strain on the shoulders as is the case with other springs. They are easily adjusted so as to make the pressure up or down *stronger or lighter* to suit the different kinds of soil. We feel warranted in asserting that any person who will try the Buckeye Cultivator with our *New Springs*, will never use any other.

**Single or Double Tongue.**—We make them with either Single or Double Tongues, and we want all of our customers to be particular in ordering, to state which style they want. The Cultivators are precisely the same in other respects.

**Shields or Enders.**—We furnish either the celebrated *Rotary Shields* or the common Drag Shields as desired.

**Security against Breakage.**—All our Shovels whether on wood or iron beams, are provided with the most improved safety pin break, thus insuring security against breakage.



NO. 7—New Junior for 1884 with Iron Beams, 4 Shovels, Rotary Shields and Levers.

## THE NEW BUCKEYE JUNIOR CULTIVATOR COMBINED RIDING OR WALKING.

This is either a Riding or Walking Plow and is so constructed that it is especially adapted to either mode, and very easily operated either way. It combines all the best features and valuable improvements of the Senior Cultivator, and besides has many other improvements peculiar to itself. We invite your attention to some of the advantages this plow possesses, and we confidently assert that as a combined Riding and Walking Plow it has no superior, and we think no equal in the market. Its advantages and important features are:

It has a Double Tongue, spread sufficiently wide behind to allow the operator to have, when either riding or walking, a plain view of the row, and keep the horses from getting close together to obstruct that view.

It has Iron Beams, Four Shovels and is so arranged that attachments may be bolted on the outside of each beam to make the Cultivator complete with Six Shovels, for either corn or fallow. We furnish these attachments, with Bull Tongues, (narrow shovels) which may be used on Inside Standards for plowing small corn, and at the same time arrange a machine suited for cultivating corn planted in rows from three to four feet apart.

It may have Spring Shovels for stony or stumpy ground

The only practical Shield in use.—It has the favorite Rotary Shield, the only practical Shield in the market, which not only protects the young plants but entirely remedies the difficulty of clogging with stalks or other trash.

It has the most practical and convenient Hand Levers for raising the Shovels. These Levers are arranged with ratchet hinges, gauge pins and cl.ains for regulating the depth of the shovels, when they are in the ground, and do away with the necessity of using beam hooks when turning, or when moving the Cultivator on the road.

The Shovel Braces are provided with wooden pins to prevent breaking the shovels, and also adjust them to run deep or shallow.

High Wheels and Axles.—The Wheels and Axles are sufficiently high to pass over corn in the last plowing. It is also easily arranged for marking out corn ground, and with the single center attachment is a complete Cultivator for plowing in wheat, oats, barley, &c., for stirring fall plowing and cultivating fallow ground.

From the past success of this Cultivator and the high recommendations of those who have used them, and with the improvements recently added, we confidently assert that the JUNIOR BUCKEYE RIDING AND WALKING CULTIVATOR has no superior in the market.

— THE —  
**NEW JUNIOR CULTIVATOR,**  
**WITH SIX SHOVELS.**

(No. 8.)

In addition to Junior Cultivators described on page 4, we have a new machine which will be an entire departure from anything we have ever made. The frame is very similar to that of the No. 7; it has the hand levers for beams, and is managed in the field much the same way. The standards are set close together, the shovels are narrow and reversible and made with break pins or springs as may be desired. For level cultivation and for hard, heavy soils, this is just the machine. A single center is furnished for it to be used in cultivating fallow ground.



**THE BUCKEYE**  
***JUNIOR CULTIVATOR,***  
**With Cotton Planter Attachment.**

# THE NEW BUCKEYE FORCE FEED COTTON PLANTER.

For the past twenty years or more, but especially since the close of the war—by the results of which the conditions of agricultural labor in the South were so radically changed—there have been numberless devices put before the public as cotton planters. To all of them there were objections, and particularly in the *feeding of the seed*, complications of device, and liability to soon get out of order, or irregularity of delivery, and consequent failure to secure a regular stand. At last these objections and faults have been remedied successfully in our New Buckeye Planter with a positive force feed, and which we make as a one-horse planter or as an attachment to our Buckeye Cultivators, both walkers and riders.

It consists of a round metal seed hopper, nearly spherical in shape, made in two parts; these are surrounded in the center by a band covering all of the discharge opening save that portion in which the force feed discharge wheel revolves, and held in position by the driving shaft, by which this hopper or cylinder is made to revolve. A sprocket wheel fastened to one of the cultivator wheels gives, through a chain belt to the cylinder shaft, a continuous rotary motion to the cylinder and its contents, so that no agitating devices of any kind are required. A small, toothed wheel placed on another shaft in the rear works at an increased speed in the seed discharge opening, forcing it out in the quantities desired. These force feed wheels range from three to eight teeth, and can be changed quickly as desired to sow whatever quantities may be wanted. It is a *positive force feed* of the exact quantity of seed, *just as it comes from the gin-house*, sowing with perfect uniformity from three pecks to two bushels per acre. A swinging frame has in front a furrow opener; into this furrow the seed is dropped from the discharge wheel through a rubber tube which passes through a cast hoe, to which the opener is attached. Just in the rear of this hoe a pair of adjustable covers are set, which throw the soil lightly back into the furrow, and this is followed by a *pressure wheel*, so placed under the seat of the Riding Cultivator that the person operating can, if desired, bring the greater part of his weight to bear on the pressure wheel. Simple hand levers, within easy reach, enable the operator to throw the planter out of gear in turning and to raise the hoe from the ground.

It is, whilst the *simplest*, the most positive and exact planter made, and it has not a gear wheel nor none of the multifarious shifts and complications found in many other machines, which have always proven to the planter a source of vexation rather than a help. No matter how linty or foul the seed, it can be dropped into the furrow with perfect uniformity in any quantity desired, and planted to any depth the operator wishes. What more could the cotton raiser ask?



No. 12.—New Buckeye Senior Cultivator with Levers and Rotary Shields.

—THE—  
NEW BUCKEYE SENIOR  
RIDING CULTIVATOR.

This Cultivator, for a Riding Cultivator, has higher wheels and is made heavier and stronger than the JUNIOR, and we do not hesitate in asserting that it is the best riding Cultivator in the market, and the following are a few of the reasons why we think so:

BECAUSE it has the Rotary Shields, the best and only Practical Shields on the face of the Globe.

BECAUSE it has the best new Improved Beam Coupling or hinge in the market which holds the beams firmly in an upright position, making them run steady and handle easy.

BECAUSE the shovels are strong, scour well, thoroughly cultivate the ground, are adjustable to throw the dirt to or from the corn, run lighter, and are easily guided around a hill of corn.

BECAUSE it has the most practical and convenient Hand Levers for raising the Shovels. These Levers are arranged with ratchet hinges, gauge pins and chains for regulating the depth of the shovels, when in the ground, and do away with the necessity of using beam hooks when turning, or moving the Cultivator on the road.

BECAUSE they pivot over the axle, and it is not necessary to move out of your natural position to operate them, or stick your feet down among the beams and shields.

BECAUSE the depth of either side can be regulated from the seat without stopping the team.

BECAUSE it has high wheels, and will pass over corn in the last plowing.

BECAUSE it has an Improved Adjustable Seat, and is readily balanced for a heavy or light driver, and does not pull down on the horses' necks.

BECAUSE it is sold with four or six shovels for corn, and is readily adjusted to any desired width or depth.

IT IS the best field or fallow Cultivator now before the public, and contains improvements that are absolutely necessary to do perfect work not possessed by any other.

IT has 5, 6 or 7 shovels for fallow, and is worth its price for a field or fallow Cultivator, even if you have no corn to cultivate.



**SPRINGS FOR SHOVELS.**—The above cut represents our *New Spring Shovel*, which can be put on any of our Iron Beam Cultivators, either Walkers or Riders; we have given them a thorough test and find they are just what the farmer wants for stumpy or stony ground, as it saves a great amount of time in putting in break pins. The construction of this Spring Shovel is such that you can use the Cultivator with either the springs or break pins. Whilst we know this Spring Shovel works all right, and is the best and only spring for the purpose in the market, we do not recommend it only for stumpy or stony ground; first on account of the additional expense, and second for the reason that the Cultivator will work just as well in ground that is clear of stumps and stones without it as with it.

## The Buckeye Tongueless Cultivators.



BUCKEYE TONGUELESS, IRON BEAM.

## Shovels for Buckeye Cultivators.

1 2 3 4 5 6 7  
3 in. B. T.—4 in. Shovel.—5 in. Shovel.—5 in. Shv'l.—3 in. B. T.—4 in. Shovel.—5 in. Shv'l.



Straight. Straight. Straight. Twisted. No. 95 Back. 95 Back. 78 Back.

8 9 10 11 12 13  
2½ in. B. T.—3 in. B. T.—4 in. Shovel.—5 in. Shovel.—5½ & 6 in. Shv'l—Oval Shv'l.



100 or C84 Back. 100 or C84 Back. 100 or C84 Back. 100 or C84 Back. A&B100 or C85 and C86 Back. 100 or C84 Back.

14 15 16 17  
5 in. Thistle. Bar Shear. Cotton Sweep. Cotton Scraper.



100 Back. C100 & D100 Back. 100 Back. C100 and D100 Back.



Spring Tooth Cultivator Teeth,  
for 1883 Cultivator.

In Ordering say for 1883 Cultivator.

HARROW TEETH.



1881.

1881.

1882.

1883.

1883.



THE NEW BUCKEYE STEEL SPRING TOOTH WHEEL HARROW AND CULTIVATOR

THE NEW BUCKEYE  
STEEL SPRING TOOTH  
Wheel Harrow and Cultivator,  
WITH OR WITHOUT SEEDING ATTACHMENT.

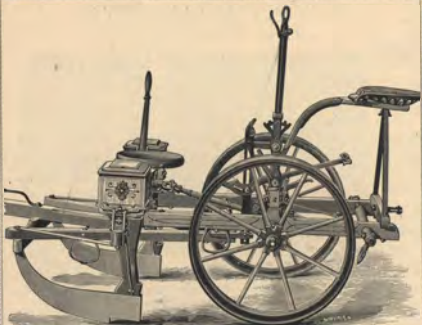
It is furnished with high wheels, broad tires, and a continuous wrought iron axle which extends from one wheel to the other, revolving with them, its bearings being in the boxes on the frame, instead of in the hub, thereby insuring lightness of draft, durability, and that the wheels will always run erect.

It is furnished with a comfortable steel spring seat, so that the operator can ride, and thus avoid the disagreeable necessity and laborious work of plodding along behind on foot. Those who have for many weary years trudged along, heated and legsore, behind old style harrows, can appreciate to the full extent the comfort and many advantages offered them in this new departure.

The depth is quickly and readily adjusted and regulated for either deep or shallow cultivation, on hard or soft soil, by the lever, which is placed in a convenient position for the driver, and is easily operated by man or boy, either riding or walking.

The pressure on the teeth is thoroughly controllable by the lever, and they can be set to any degree of rigidity while the harrow is in motion, to run at any desired depth, as the weight of the entire harrow can be thrown on them if desired, or, with the same lever, they can be quickly raised out of the ground for transportation.

The teeth with which this harrow is furnished are made of the very best refined oil-tempered spring steel, each and all of them being thoroughly tested before they leave our works. They are formed in the best possible shape to insure thorough cultivation of the soil, and, being long and coiled around the pressure bar, they easily and readily pass over stones, roots and all kinds of obstructions without breaks or damage. The points are hardened to insure durability, and when they become dulled by use, can readily be sharpened. The ample space under the frame allows its ready passage over obstructions, while the length and vibratory action of the teeth prevents any choke or clog.



## THE EVANS ROTARY DROP PLANTER

Is acknowledged by thousands who have used, and the many more who have examined into its merits, to be the most perfect corn planting machine ever invented. Although it has been on the market a comparatively few number of years, it is now most favorably known and sold in every State in the Union where corn is raised to any great extent.

### SHOWING EASY MANNER OF CHANGING PLATES.



OPEN SEED VALVE—CORN SEEN IN  
ADVANCE OF THE HILL.

### DESCRIPTION.

The above cut represents the full standard size Planter, with six-inch runners of the best cast steel. High wheels with wrought iron (flat or concave) tire. It is made of the very best material, malleable iron entering largely into its construction, combining the greatest strength with lightness and durability. It is thoroughly made and finished, no expense being spared to make it the best as well as the handsomest finished Planter on the market.

Our Rotary Drop is made entirely of malleable iron; has the fewest number of parts, which are all accurately turned and fitted. The plates (3 sets with each Planter) have the greatest number of seed chambers, and are rotated from the outer edge, which secures a light, easy stroke with little or no friction.

An outside movement of the drive frame insures perfect freedom from clogging. The plates are self-cleaning and can be quickly changed (as shown in cut) without removing the hopper or hopper bottoms, as is the case in other Planters.

**CAN PLANT ONE ROW AT A TIME.**—The drop is so constructed that either side can be quickly adjusted to drop but one row at a time, which in case of point rows or in finishing up a field is very desirable. No other Planter has this feature.

**CORN CAN BE SEEN IN ADVANCE OF THE HILL.**—The open seed valves at point of deposit (as shown in accompanying cut) hold the corn in full view of both driver and dropper, enabling the latter to drop the corn in check with ease and accuracy. The valves are so constructed that the slightest movement of the lever opens them instantly, dropping the corn and allowing it to scatter the full width of the open heel, *without bunching or stringing it.*

**ADJUSTABLE SEATS,** which can be quickly changed to suit the weight and size of the operators; which, with stirrups for the dropper's feet, make it the most comfortable as well as most convenient to use.

The distinctive feature of the Evans Planter and the most important improvement since the introduction of lever Planters, is our

### Combined Lock and Regulating Hand-Lever,

By aid of which the operator has perfect and complete control of the Planter in all kinds and conditions of soil. It can be used as a **Lock-Lever**, to force and lock runners any desired depth in the hardest ground, or it can be instantly changed by the operator without stopping the team to a **Regulating Lever**, for loose or mellow soil, gauging the depth of planting to a certainty without destroying the flexibility of the Planter. This is accomplished by means of the adjustable cap or lock in connection with the slotted bar.

### EXAMINE AND COMPARE

And you will be convinced that the Evans is pre-eminently the Planter to use and most profitable to buy.



### THE EVANS ONE-HORSE CORN DRILL AND FERTILIZER ATTACHMENT.

In many sections of the country, especially where the land is hilly and broken, or in new countries, there is a demand for a one-horse machine.

## The Evans One-Horse Corn Drill

Has been long and favorably known, thousands of them being in use all over the country. It is complete in itself, marks out, opens up furrows, drops the corn and covers it all at one operation.

It has BENT WOOD FRAME firmly bolted together, making it very strong and durable.

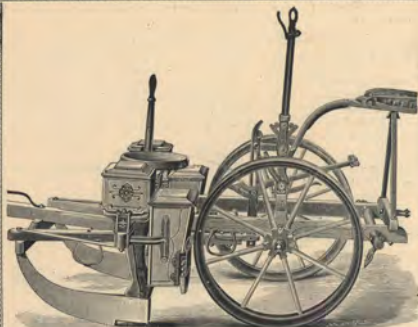
THE ROTARY DROP will drill accurately corn, peas, beans, etc., 8, 12, or 16 inches apart, as may be desired, dropping one grain at a time.

The use of commercial fertilizers is absolutely necessary in very hilly countries where the constant washings have deprived the soil of many of its essential elements. A machine is therefore demanded that is adapted to such a country and will sow all kinds of fertilizers.

The cut above shows Corn Drill with Fertilizer Attachment.

It has a positive force feed, which will sow all kinds of fertilizers, and can be regulated to any desired quantity.

Farmers who want a first-class machine and one that will do the work required and in a satisfactory manner, will do well to examine the "Evans" before buying.



## THE EVANS TWO-HORSE PLANTER *WITH FERTILIZER ATTACHMENT.*

It is an established fact that the use of good commercial fertilizers are wonderful in their results when properly applied, increasing the yield of all cereals, reclaiming worn out lands and making them productive in a high degree. The use of fertilizers on corn land is attended with most astonishing results. Hence the demand for an attachment for a Corn Planter that will sow all kinds of phosphates, fertilizers, plaster, lime, etc. By constant and repeated experiments, we have succeeded in filling this want and bringing to perfection the

### EVANS PLANTER WITH FERTILIZER ATTACHMENT,

Which is the only Double Check-Row Fertilizer on the market.

The Fertilizer Attachment consists of two large hoppers attached in rear of the seed boxes and so constructed that the fertilizer will not arch or pack; a sieve or screen in the upper part of each prevents any lumps or foreign substance entering.

The Distributor has a positive force feed, and consists of a galvanized wheel or disk arranged to oscillate horizontally in bottom of hopper, in connection with drive bar of Planter. Each movement of the drop lever deposits both the corn and fertilizer in the hill, but so timed that a thin layer of dirt is allowed to cover the corn before the fertilizer is dropped.

Can be regulated to sow any desired amount, from one to four hundred pounds per acre.

The discharge opening being so near the ground the fertilizer can not be affected by the wind.

We have added each year such improvements, proven by actual field tests to be the most desirable, until we can now truthfully say we have a Fertilizer Planter that will do the work required and in a satisfactory manner, and will more than pay for itself the first season in an increased crop on comparatively few acres.

# THE NEW BUCKEYE

## GLASS FEED

# FERTILIZER DRILL,

### THE GREATEST IMPROVEMENT OF THE AGE.

IT BEATS THEM ALL. DON'T FAIL TO SEE IT.

After thoroughly testing this new Drill last season, we can now say, without fear of contradiction, that we have the best combined Grain and Fertilizer Drill that has ever been offered to the trade. Every



[No. 1.]

farmer or dealer who has had experience with Fertilizer Drills knows how difficult it is to keep the feeders from corroding, rusting and clogging up. These difficulties we have entirely overcome, by the use of *Glass Disks*, or *Feeders*, instead of metal, and we find them a perfect success in all kinds of fertilizers; no matter how much acid they contain, they cannot affect the feeders.

These feeders consist of a series of horizontally rotating *Glass Disks*, projecting through openings in the rear of the hopper, and provided with scrapers or cut-offs, whereby the proper flow of fertilizer is secured and directed, as described in cut No. 1 on this page. Cut No. 2 shows the manner of driving the feeders; cut No. 3 the *Glass Disk* or *Feeder*. So far we have



[No. 2.]



[No. 3.]

spoken only of the Fertilizer Feed, but we can talk just as confidently of our New Force Feed Grain Feed, and our Force Feed Grass Seed Sower.

The Fertilizer and Grain Hoppers are combined in a double hopper, and while the front one is feeding out the grain the rear or fertilizer apartment is feeding out the fertilizer, both grain and fertilizer passing down through

the hoes and being deposited together in the ground. The fertilizer is brought in plain view of the operator before entering the hoes, so that he can see just what is being done. The greatest difficulty hitherto found in constructing such a machine has been that it seemed impossible to prevent the fertilizer from being worked into a sticky paste and then packing. This method of feeding fertilizer is entirely novel.

To all whose soil needs the use of fertilizers to successfully and profitably grow small grains, we therefor most confidently recommend our Combined Drill. All who use it will find it to be just what they need and just what we represent it to be.

1884 We would say to the farmers that we come before them with our Combined Grain and Fertilizer Drill for 1884 with many improvements and made in the following kinds, viz: Pin Hoe Drills, Spring Hoe Drills, Spring Pressure Drills, Shoe or Runner Drills, Roller Press Drills with Shoes, Roller Press Drills with Hoes, and we would ask of them that they carefully compare it point by point with all other Drills in the market before making a purchase. Examine carefully the grain feed, and see how quickly and easily, and, above all, to what degree of exactness, the changes are made for different quantities. In many drills made, exactness in quantities can only be effected by a brain-puzzling operation. In others, the point of exactness is overlooked in the endeavor to make ready changes. We offer you on the Buckeye a positive force feed, quickly changed to sow any quantity desired, and so simple in arrangement that any one can operate it. We will warrant our Drill to sow all kinds of grain more accurately for what it is set than the average of Drills that require a change of gears to effect a change of feed.

In all Fertilizer Drills where the opening is in the bottom of the hopper, and directly under the Fertilizer, when dry and fine, it will run through like sand, without any or but little agitation, and cannot distribute regularly. With the Buckeye Drill the Fertilizer will only pass out of the hopper as it is carried out by the movement of the ground wheel; when the motion is stopped the flow of guano ceases. It is to the interest, therefore, of every one needing a Combined Drill to carefully examine this new feed, as it is a radical departure from the fertilizer feeds in general use, and we can confidently recommend it to be the most perfect distributor in the market.

Do not fail to see the New Buckeye before you purchase a Drill this fall. For prices and terms, please write to us or any of our agents.

Respectfully,

P. P. MAST & CO., Springfield, Ohio.

BUCKEYE GLASS FEED GRAIN AND FERTILIZER DRILL.





FACTORIES OF P. P. MAST & CO., COVERING SEVEN ACRES.