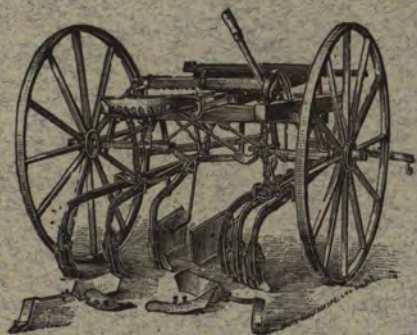


MENCH'S *Improved Riding or Walking Steel*



CULTIVATOR,

With Double Row Corn Planter and Fertilizer Attachments.



Received Medals and Highest Award of Merit at Pennsylvania State Fair at Philadelphia, 1880, at Pittsburg, '82, and at the Great Southern Exposition Louisville, Ky., and a number of other State Fairs in '83, '84, '85, '86, '87, '88, '89, and '90.

MANUFACTURED BY
MENCH & DROMGOLD,
YORK, PA.

For Sale by

At

INTRODUCTION.

WE take pleasure in offering our friends our catalogue for 1891, the fourteenth year of our business,—and we take this opportunity of thanking the public for their patronage in the past, and kindly solicit a continuance of the same.

We truly have reason for congratulating ourselves upon our efforts to please and benefit the farming class in producing the most perfect corn and fallow cultivator and double row Corn Planter with Fertilizer attachment, for they have not been in vain. We have been successful to such an extent that we were entirely unable to supply the demand for them the past season. This certainly is conclusive evidence that it maintains a high standard of excellence.

We kindly ask every one who designs purchasing a Cultivator to inquire into the merits of our Cultivators, etc., and we would further ask a trial of ours before purchasing any other.

We also handle various other agricultural implements, and we should be pleased to receive your patronage on these as well as on Cultivators, Planters, Fertilizers, etc.

Again extending our thanks for the kind treatment we have received from the public in the way of patronage in the past, and asking a continuance of the same we remain,

Very respectfully,

HENCH & DROMGOLD.

POINTS OF SUPERIORITY.

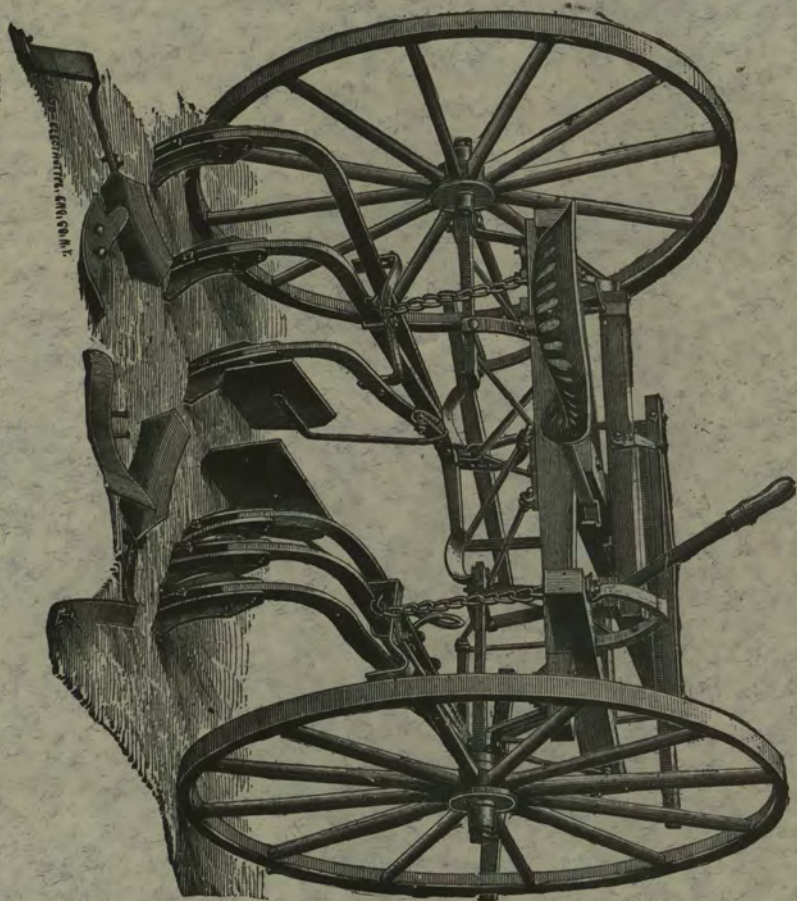
1st. Each wheel has an independent spindle. The spindles are fastened to a stay iron near the wheel, by a bolt, upon which it works as a pivot. The inner ends of the spindles rest upon Guide Plates, upon which they roll back and forth. Stirrups are connected to the spindles upon which the driver places his feet to direct the machine exact to the corn row. By moving his right foot forward, turns the machine to the right, and by moving his left foot forward turns it to the left. By the aid of the movable spindles the machine can be guided very correctly to the corn row, and can be operated on very hilly ground without getting down on the corn row, always keeping the machine and horses parallel with the row.

2nd. The shovel beams are adjusted closer to or from the corn by set screws under the axle and moving connecting rods backward and forward, and by taking off connecting rods, the shovel beams can have an independent side motion. Therefore the shovel beams can be made stationary with the machine to any desired width, and the machine guided exact to the row by the movable spindles, or the spindles can be made stationary, and the shovel beams guided to the row, just as desired by the operator.

ADJUSTABLE LEVER AND COIL SPRING.

3rd. The long beams are bent upward at front end, and connected at top by a cross-piece. A coiled spring is placed in front of cross-piece through which a rod is placed extending back to a short lever on a roller, on which the adjusting lever is fastened. This lever is within convenient reach of the driver either riding or walking, and at his will, can be drawn into different notches, thereby regulating the shovels to

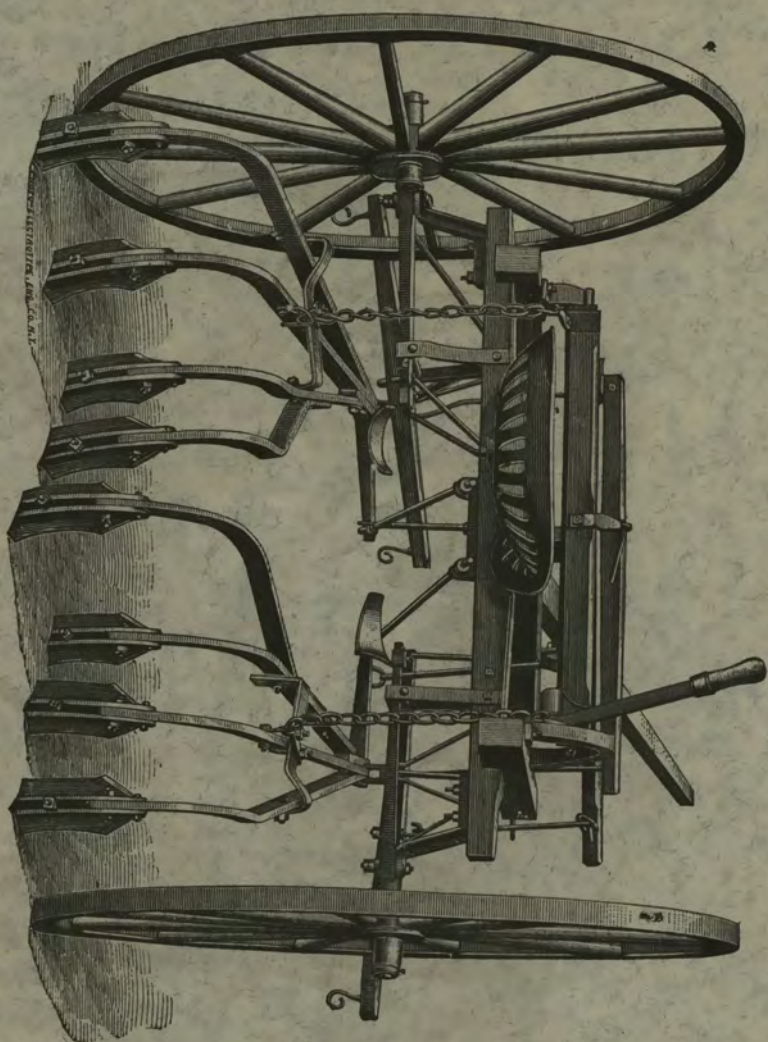
View of Cultivator Rigged for Cultivating Corn Ground.



any depth of earth required. The coiled spring that puts the pressure on the shovels being very elastic, will at the same time allow the shovels to pass over a bank or any unevenness in the surface without breaking or straining any parts. By moving the same lever forward into a notch, the shovels are raised out of an engagement with the ground for turning at the end of a row, or for going to or returning from the field.

4th. The standard on which the shovels are fastened are held out to their position by wooden pins. If the shovels strike a rock or a stump the pin will break and prevent other parts from strain.

View of Cultivator with 8 Shovels for Cultivating Fallow Ground.



5th. Six shovels are used for cultivating corn, three on each side of the row. The three shovel beams on each side are held to their position or adjusted closer together or wider apart, or up and down, by means of a slotted stay-iron. By this arrangement the shovels can be spaced to suit wide or narrow rows, and any one or more of the shovels can be regulated to run deeper than the others or each one to a different depth.

HENCH'S IMPROVED CULTIVATOR

6th. The shields are revolving and are fastened to the beams by a ratchet casting and can be raised or lowered as desired, allowing them to pass over obstructions. They prevent stones or clods from being thrown on the corn, and at the same time allow a quantity of fine ground to pass through under them to the corn. The shields can be taken off when the corn becomes large and more ground thrown to it.

7th. A pair of turn or hilling shovels, also a pair of 2 inch shovels are given with each machine for working the first and last times.

8th. By attaching the two middle beams and shovels it makes a complete cultivator with 8 shovels, unequaled by any for cultivating fallow ground before seeding, or for seeding in grain.

9th. The handle-lever for moving the spindles when walking is bolted on to the spindles and can be put on or taken off in a moment.

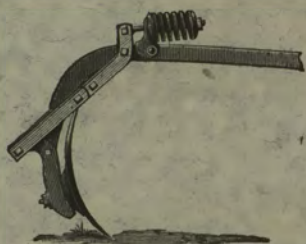
10th. By putting large shovels on rear standards and taking inside one off, it is excellent for marking out corn ground, making 2 rows at a throw.

11th. The whiffle-trees are connected to double eveners and are so arranged that they can be raised or lowered, thereby regulating the draft on horses' necks for heavy or light persons.

12th. It has an arched axle and is high in the middle, allowing it to pass over tall corn. The driver sits on the rear part of the machine, having full view of the shovels when in operation.

13th. The machine can also be changed to different widths between the "Wheels" to suit for wide or narrow "Rows" as desired.

14th. The Spindles, Shovel-beams, and all the principal parts of the machine are made of steel, being very light, strong and durable.



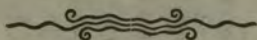
Ordinary Position of Spring Hoe.



Position of Spring Hoe when passing an Obstruction.

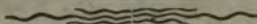
15th. We do rejoice to know that we have been successful in our efforts to meet the wants of farmers in rocky land in producing a SPRING HOE CULTIVATOR. True, the Spring Hoe Drill has been in use many years, but a Spring Hoe Cultivator.

is much more difficult, for with the Drill the ground is first prepared and made loose, where with the Cultivator depends on a much stronger spring. Our spring being a lock spring, very little pressure is on the spring while working; the spring being merely to bring the shovel in its natural position after passing over a rock or stump; and further to those who buy the Spring Hoe Cultivator with the Double Row Planter, you have something that is not made by any other company in these United States.



DOUBLE ROW PLANTING AND FERTILIZER ATTACHMENTS.

We call special attention to our Double Row Planter and Fertilizer Attachments which can be attached to any of our Riding Cultivators. Every cultivator that we build is made so the planter attachment can be put on any time by any farmer. It can be purchased with the cultivator, or can be shipped a year or two later, if desired, and it will fit. It is very simple in its construction, and perfect in its operation, planting two rows at one time, dropping one grain 11, 13 and 15 inches apart, or two grains 22, 26 and 30 inches apart, as desired. And at a trifling cost extra, we can furnish dies for sowing or planting as thick as desired. You can plant the rows from 2 feet 10 inches to 4 feet in width, apart, and plant any depth required. It marks out, drops and covers at one operation. We also furnish a marker to gauge the width of the row. We make them both with and without the Fertilizer Attachment. The fertilizer has a positive force-feed and will sow regularly any kind of phosphate in any quantity desired to the acre. Thus, you can perceive, with our Double Row Corn Planter, (which only costs about the same as a single row planter,) you can plant from 18 to 20 acres per day, or double the amount as with a single row planter, at only one-half the cost. Our Double Row Planter attachment is well worth the price of the Cultivator, Planter and Fertilizer combined, and with our Cultivator and Planter combined you have one of the best machines made in the United States. Farmers, look to your interest and examine our Cultivator and Planter attachment before purchasing any other.



OUR WARRANTY.

All our machines are warranted to be well built, of good material, and will do good work if properly managed. If on starting a machine, it should in any way prove defective, or fail to work, the purchasers will give prompt notice to the agent of whom he purchased it and allow time for a person to be sent to put it in order. If it cannot then be made to do good work, the defective parts will be replaced or the machine taken back and the payments of money or notes returned. Keeping the machine during the season whether kept in use or not, without giving notice as above, shall be deemed conclusive evidence that the machine fills the Warranty.

Directions for Setting up and Operating.

Put on Tongue and Wheels, put in Drag Bars by removing bolts at coupling in front; hook upon chains to hooks on rollers; pass long rods through casting No. 15 under axle and fasten with set-screws. Connect in front by placing end on Beam-irons; put on Flat irons, put in Spring Key, hook Long Rod to roller in centre; pass through cross-piece; connect Cross-piece to back side of Goose Neck with Hook Bolts; place Coiled spring on Rod in front of cross-piece; put on Nuts. Do not draw so as to bind. Put on Double Tree on top of tongue, hook Centre Hole of Double Everer to Hook on side of frame; raise or lower Single Trees to regulate draft on horses' necks, put on shields by placing Flat Iron with Double Hole in Ratchet Casting on Beam and Star Wheel on other end; it can be raised or lowered as desired; put on seat. To use walking Lever connect on either side to Spindles with bolt to suit operator. To make spindles stationary, drop Pin through Hole in iron on frame and hole in Double Everer. For Cultivating fallow ground put on the middle Shovel Beams.

 See that the Bearings are Oiled and Nuts kept tight.

PRICE=LIST.

Pin Hole Cultivator with 10 Small and 2 Hilling shovels and Middle or Fallow attachment complete	\$38.00
Spring-Hoe Cultivator with 10 small and 2 Hilling shovels and Middle or Fallow attachments complete,	44.00
Double Row Corn Planter Attachment, extra	20.00
Double Row Corn Planter with Fertilizer Attachment, extra	28.00
Broad Cast Seeder, Force Feed, extra	18.00
Reversible Shovels, 3½ inches wide (old style,) each	.20
Reversible Shovels with revolving backs, each	.30
Hilling Shovels, each	.40

 Money can be sent by Draft, Post Office Order or Registered Letter.

HENCH & DROMGOLD, YORK, PA.



View of Machine Rigged for Planting Corn with Phosphate Attachment.