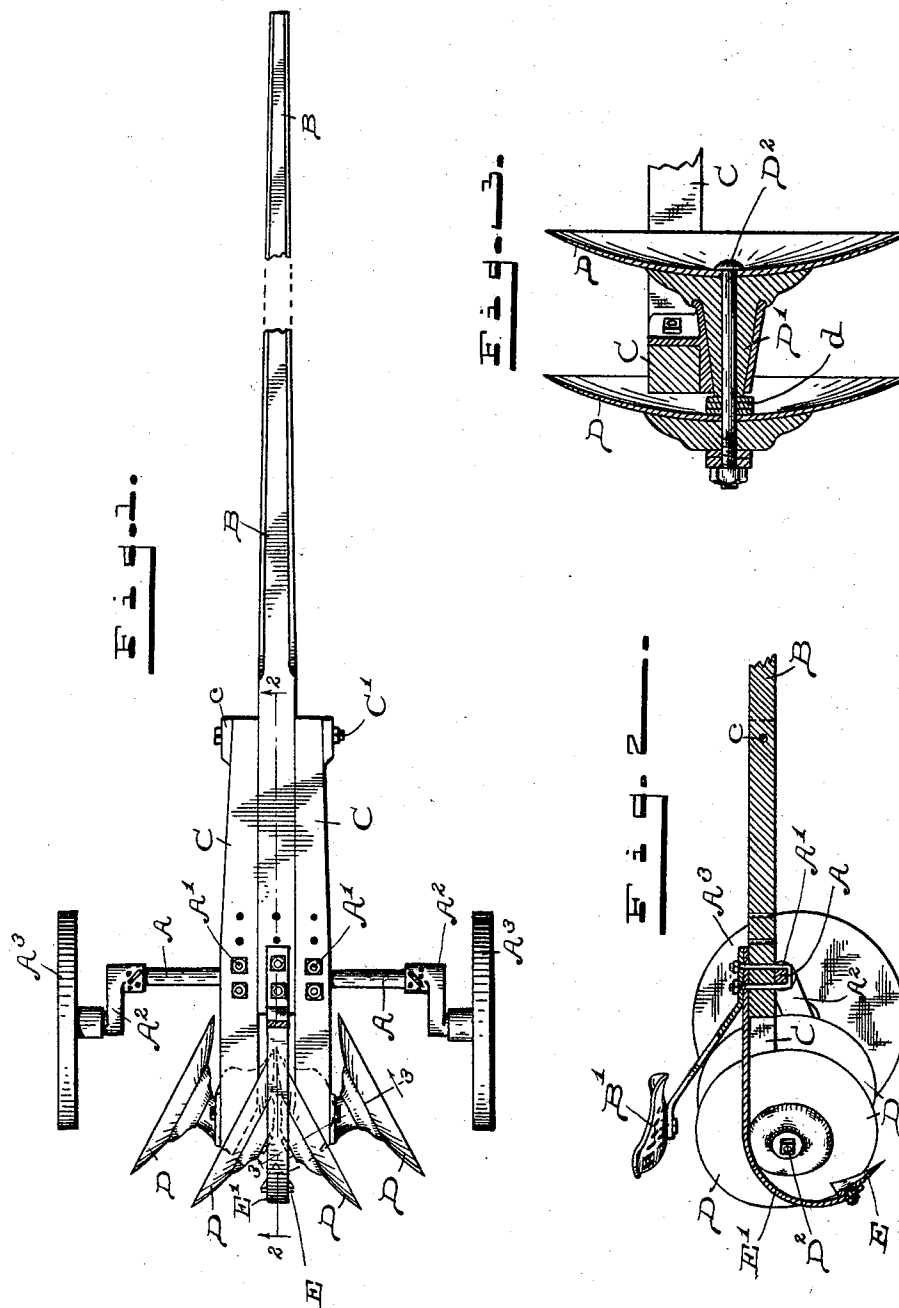


(No Model.)

M. T. HANCOCK.
BEDDING PLOW.

No. 506,429.

Patented Oct. 10, 1893.



WITNESSES:

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UNITED STATES PATENT OFFICE.

MILTON T. HANCOCK, OF SHREVEPORT, LOUISIANA.

BEDDING-PLOW.

SPECIFICATION forming part of Letters Patent No. 506,429, dated October 10, 1893.

Application filed December 20, 1892. Serial No. 455,835. (No model.)

To all whom it may concern:

Be it known that I, MILTON T. HANCOCK, a citizen of the United States, residing at Shreveport, in the parish of Caddo and State of Louisiana, have invented certain new and useful Improvements in Bedding-Plows, of which the following is a specification.

The principal object of my present invention is to produce a plow, by means of which the operation known as "bedding" can be accomplished, making a complete bed for every passage of the plow. In extremely dry or extremely wet soils, particularly among gardeners, it is necessary to form such "beds" to obtain the best results, and they have heretofore been usually obtained by the use of a single plow of the common sort, passing back and forth in reverse directions, upon the opposite sides of a narrow strip equal to the size of the complete bed, and such beds are usually of a size that requires four passages of the plow.

My improved plow usually consists of four disks, two upon each side of the center, with a small plowshare extending down between the nearest ones of the two sets in the center, and it is provided with various means of adjustment, all as will be hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a top or plan view of a plow embodying my said invention, with the seat broken away; Fig. 2 a central sectional view, as seen when looking upwardly from the dotted line 2 2 in Fig. 1, and Fig. 3 a detail sectional view, on an enlarged scale, on the dotted line 3 3 in Fig. 1.

In said drawings the portions marked A represent the axle of the plow; B the tongue; C the plow-beams; D the plowing disks, and E the small plowshare extending down between the central disks. The axle A should be squared at the center to prevent it from turning in its fastenings, and is secured to the tongue and plow-beams by clevis-bolts A'. As shown most plainly in Fig. 1, there is a series of holes provided, so that the position of the axle may be varied upon said tongue and plow-beams.

Upon the ends of the axle are crank-shaped

castings A² which embody the spindles for the wheels A³. These castings are sleeved upon the ends of the axle, and are provided with a series of holes, as shown in Fig. 1, and the axle has at each end a corresponding hole, so that the castings and axle can be varied in their relative positions by means of pins passing through the holes therein, and thus the relative height of the plowing disks to the carrying wheels is determined. In Fig. 2 the plowing disks are shown as raised by this means, so that they are free from the ground, and in position for travel or transportation from place to place. When the operation of plowing is to be commenced, this position would be shifted so that the plowing disks would extend below the lower edges of the carrying wheels.

The tongue B is of an ordinary form and construction. It carries the seat B' and the bar to which the plowshare E is attached, as is shown most plainly in Fig. 2.

The plow-beams C are secured to the tongue at the front end, and to the axle in the center, and extend back to far enough behind said axle for the convenient arrangement of the plowing disks. They are adapted to be adjusted laterally on the axle. At their front ends blocks c are interposed between them and the head and nut of the bolt C'. In adjusting the plow-beams laterally, these blocks would be transposed to between the plow-beams and the tongue, while the clevis-bolts A' would simply need to be loosened enough to permit them to slip on the axle, and retightened when the adjustment was completed.

The plowing disks D are not in themselves peculiar to my present invention. They are, however, given a peculiar mounting to adapt them to the present use. A bearing D' is provided for each pair which is securely bolted to the rear end of the corresponding plow-beam. One of the plowing disks has a spindle secured thereto which passes through and a little beyond said bearing. The other disk has simply a hole for the bolt D². Washers d are provided and placed upon either or both sides of the second plowing disk, as shown in Fig. 3, and these washers may be changed from side to side, and the plowing disks thus adjusted nearer to each other, or farther

apart, as may be required by the work to be done. The relative positions of the two sets of plowing disks are determined by the adjustment of the plow-beams, as has just been described.

In the use of my improved bedding plow, if only plowing disks were employed, there would be a ridge left in the center of the trench between the beds. To overcome this I have provided a small plow-share E, which extends down between the sets of plowing disks, in the center, to as great a depth as the plowing disks themselves extend, and this splits and scatters this ridge, leaving the bottom of the trench substantially level. Said plow-share is mounted upon a bar E' which is secured to the rear end of the tongue B, preferably by its clevis-bolt A' which secures it to the axle.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a plow, of the axle, the carrying wheels thereon, the plow-beams, disks secured to the rear ends of said plow-beams in position to turn their furrows in opposite directions, and means whereby the same may be adjusted to the required work, substantially as set forth.

2. The combination, in a bedding plow, of the axle, carrying wheels thereon, crank-shaped devices connecting said axle and said carrying wheels, means whereby they may be

adjusted and the relative heights of the plowing disks and carrying wheels thus determined, plow beams mounted on said axles, and two sets of plowing disks mounted on said plow beams and arranged to turn their furrows in opposite directions, substantially as set forth.

3. The combination, in a bedding plow, of the axle, the carrying wheels thereon, the plow beams secured to said axle, and plowing disks arranged in pairs or sets and independently mounted upon said plow beams, the disks of each pair being independently adjustable to and from each other, the whole being arranged and operating substantially as set forth.

4. The combination, in a plow, of an axle, a tongue, two plow-beams, one arranged on each side of the tongue, means whereby the plow-beams may be adjusted laterally and secured in adjusted position, means whereby the plow beams may be adjusted longitudinally across the axle and secured in adjusted position, plowing disks secured upon the rear ends of the plow-beams, and a plow-share extending down between the plowing disks, all substantially as and for the purposes set forth.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 12th day of December, A. D. 1892.

MILTON T. HANCOCK. [L. S.]

Witnesses:

CHESTER BRADFORD,
JAMES A. WALSH.