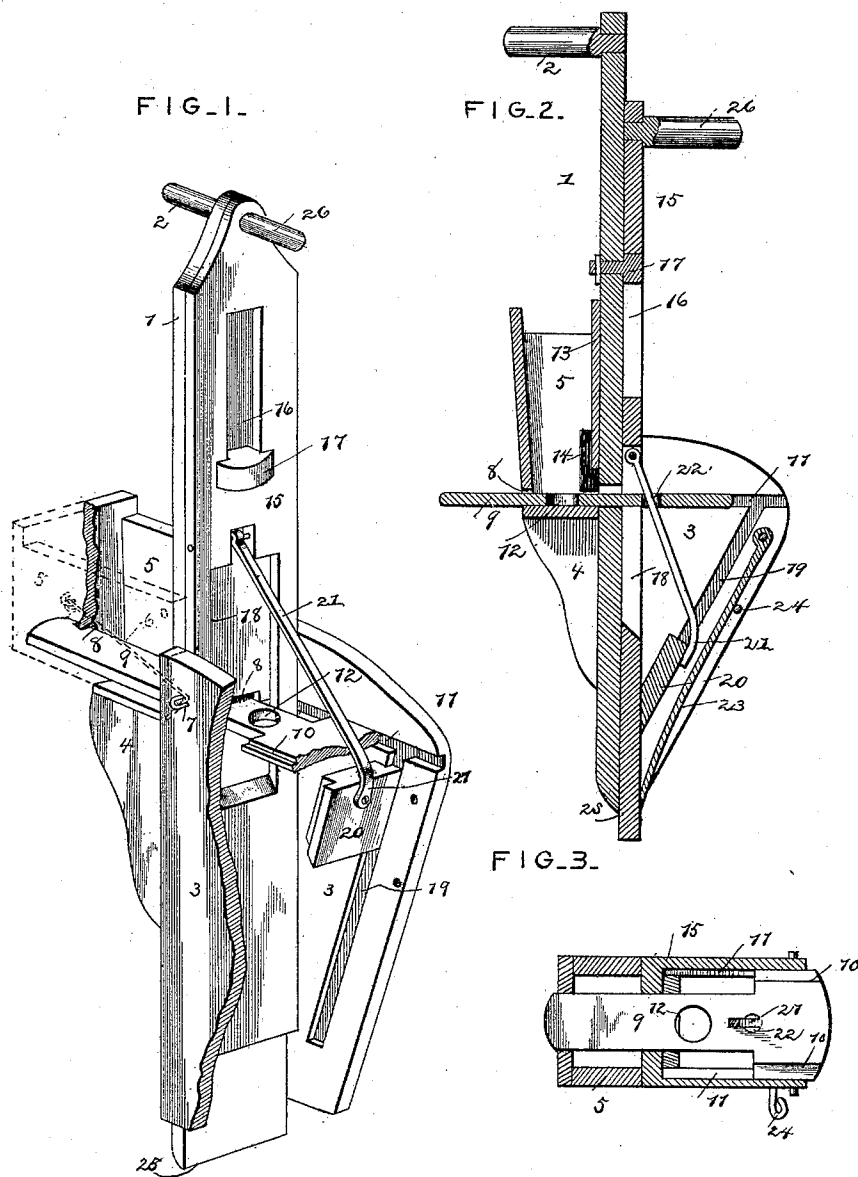


(No Model.)

C. H. FULKERSON.
HAND PLANTER.

No. 465,846.

Patented Dec. 29, 1891.



Witnesses

B. S. Obat.

Inventor

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By his Attorneys,

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UNITED STATES PATENT OFFICE.

CHARLES H. FULKERSON, OF RAUM, ILLINOIS, ASSIGNOR OF ONE-HALF TO
JAMES F. FULKERSON, OF SAME PLACE.

HAND-PLANTER.

SPECIFICATION forming part of Letters Patent No. 465,846, dated December 29, 1891.

Application filed April 11, 1891. Serial No. 388,542. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. FULKERSON, a citizen of the United States, residing at Raum, in the county of Pope and State of Illinois, have invented a new and useful Hand-Planter, of which the following is a specification.

This invention relates to hand corn-planters; and it has for its object to provide a device of this class which shall be simple in construction, durable, and efficient in operation, and by means of which the quantity of seed planted at each operation may be easily and accurately regulated.

With these ends in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a perspective view of a corn-planter constructed in accordance with my invention, with a portion of the hopper and one side of the casing broken away to show the internal construction more clearly. Fig. 2 is a vertical sectional view showing the parts in a different position from that shown in Fig. 1. Fig. 3 is a horizontal sectional view.

Like numerals of reference indicate like parts in all the figures.

1 designates a vertical arm, which is provided at its upper end with a handle 2. Said arm is provided with laterally-extending flanges 3 3 and brackets 4 4, which latter support the seed-box 5, which is mounted detachably upon said brackets, and is secured by means of hooks 6, engaging eyes 7 upon the flanges 3. The side bars of the seed-box are provided with slots 8 for the passage of the transversely-movable seed-slide 9, the outer end of which is provided with flanges 10, working in horizontal grooves 11 in the inner sides of the flanges 3, thus guiding the seed-slide. The latter is provided with a suitable perforation or seed-cup 12. Suitably mounted in the seed-box is a vertically-adjustable arm 13, carrying at its lower end a brush 14, which serves as a cut-off, and which, by adjusting it vertically, may be caused to leave any desired quantity of seeds in the perforation or seed-

cup of the slide to be discharged at each operation.

Suitably mounted upon the outer side of the arm 1 is a vertically-movable slide 15, the extent of the movement of which is limited by a slot 16, in which works the bolt or pin 17, whereby the said slide is attached to the arm 1. The slide 15 is also provided with a slot 18, working over the seed-slide in such a manner as not to interfere with the operation of the latter. The flanges 3 3 are provided on their inner sides with downwardly-inclined grooves 19, forming guides or bearings for a sliding block 20, which is suitably connected with the lower end of a rod 21, the upper end of which is pivoted at the upper end of the slot 18 in the slide 15. The rod 21 extends through a perforation 22 in the seed-slide. The movement of the block 20 in the inclined grooves causes the rod 21 to swing and reciprocate the seed-slide. It will thus be seen that when the slide 15 is reciprocated vertically the block 20 likewise reciprocates in the inclined grooves 19, thus causing the pivoted rod 21, which engages the seed-slide, to impart to the latter a transverse reciprocating motion.

Between the flanges 3 3, near the upper ends of the latter, is pivoted a flat spring 23, which is held by means of a transverse rod 24 in contact with the lower end of the arm 1, which latter has a cutting-edge 25. The lower end of the slide 15, when the latter descends, is adapted to force the lower end of the spring 23 in an outward direction and to force the seed out between the said spring and the lower end of the arm 1. The upper end of the slide 15 has a handle 26, by means of which it may be operated.

The operation of my invention will be readily understood. By the upward movement of the slide 15 the seed-slide is forced in an outward direction, thus causing the contents of the seed-cup to be dropped between the flanges 3 3 and to rest upon the lower end of the spring 23. The operator now forces the lower end of the planter into the ground and depresses the handle 26, thus forcing the slide 15 in a downward direction. Said slide will thus serve to force the lower end of the spring

23 in an outward direction and to force the seeds between the said spring and the lower end of the arm 1 into the ground. At the same time by the downward movement of the slide 15 the seed-slide is carried back into the box or hopper, where it receives a supply of seed for a repetition of the operation.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a hand corn-planter, the combination of the vertically-movable operating-slide, the transversely-movable seed-slide, a reciprocating slide mounted in downwardly-inclined grooves in the laterally-extending flanges of the body of the planter, and a rod extending from said reciprocating slide through a perforation in the seed-slide and connected pivotally with the operating-slide, substantially as and for the purpose set forth.

2. In a hand corn-planter, the combination of the planter-arm having the detachable seed-box, and the laterally-extending flanges provided with downwardly-inclined grooves in their inner sides, the transversely-reciprocating seed-slide, the vertically-movable operating-slide, a rod pivoted to the latter, extend-

ing through a perforation in the seed-slide and connected with a reciprocating slide mounted in the inclined grooves of the flanges, and the spring pivoted between the upper ends of the latter and held normally in contact with the lower end of the planter-arm, substantially as set forth.

3. The combination of the planter-arm, the vertically-movable operating-slide connected with the latter by means of a bolt extending through a slot in said slide, the transversely-movable seed-slide working through a slot in the operating-slide, a reciprocating slide mounted in inclined grooves in flanges extending from the planter-arm, and a rod secured to said reciprocating slide, extending through a perforation in the seed-slide and connected pivotally with the operating-slide, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHARLES H. FULKERSON.

Witnesses:

WILLIAM ANDERSON,
J. M. ANDERSON.