

(No Model.)

S. HACKETT.

HAND PLANTER.

No. 385,511.

Patented July 3, 1888.

Fig. 2.

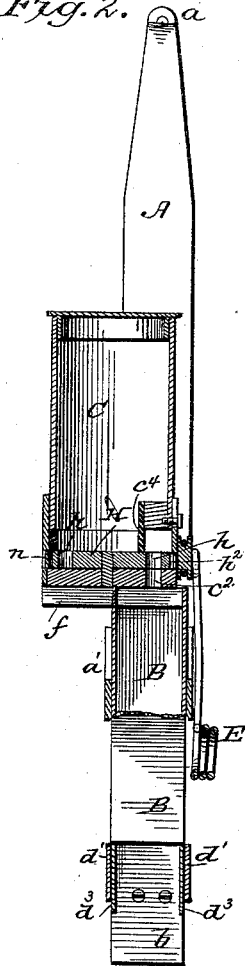


Fig. 1.

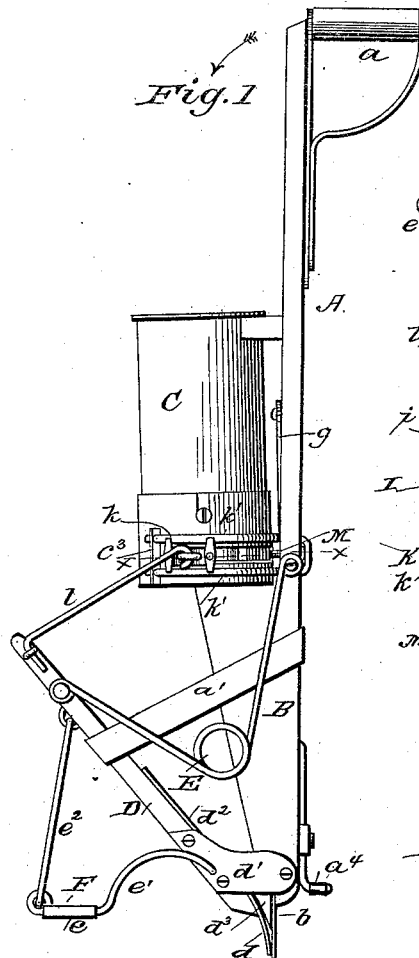


Fig. 3.

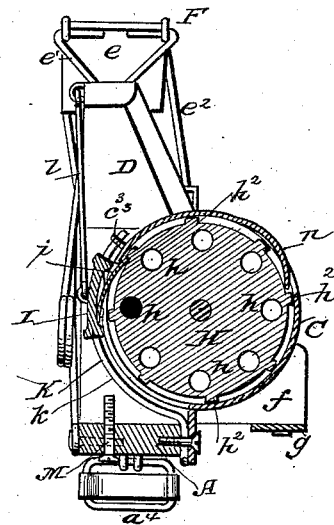
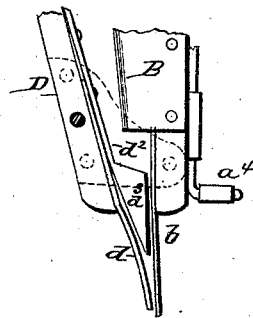


Fig. 4.



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HAND-PLANTER.

SPECIFICATION forming part of Letters Patent No. 385,511, dated July 3, 1888.

Application filed November 1, 1887. Serial No. 253,944. (No model.)

To all whom it may concern:

Be it known that I, SETH HACKETT, of Bronson, in the county of Branch and State of Michigan, have invented a new and useful Improvement in Hand-Planters, of which the following is a specification.

My invention relates to improvements in hand-planters; and the invention consists in the peculiar construction and arrangement of parts, as hereinafter fully described, and pointed out in the claims.

Figure 1 is a side elevation of my improvement. Fig. 2 is a vertical section of the same. Fig. 3 is a transverse section on line *x x* of Fig. 1. Fig. 4 is a detail view.

Similar letters of reference indicate corresponding parts in all the figures.

Referring to the drawings by letter, A represents a handle provided with the hand-hold *a* at its upper end, the hand-hold being secured to the standard by screws, so that it can be raised or lowered to suit the operator, or reversed—that is, made to project in the opposite direction to that shown.

To the lower end of the handle A and projecting therefrom is secured the penetrating blade or point *b*, and above the said blade or point is secured the seed-spout B, and above the seed-spout the hopper C, hereinafter described.

D is a bar or plate forming a jaw and provided with ears *d'*, by which it is pivoted to the lower end of the handle A. The jaw D is provided at its lower end with the curved penetrating blade or point *d* and the plate *d'*, having side flanges, *d''*, the said plate *d'* forming an extension of the spout B.

To the handle A and the jaw D is secured the ends of the spring E, which serves to force the jaw outward and away from the handle and hold its penetrating blade or point *d* in contact with the blade or point *b*. The outward movement of the jaw D is limited by the strap *a'*, secured to the standard A, and to the outer surface of the said bar or plate is secured the rest F.

The rest F consists of a plate, *e*, carried on the outer ends of the arm *e'*, and further supported by the braces *e''*.

To the handle A in the upper part of the spout B is secured the laterally-projecting plate *f*, which forms a support for the seed-

hopper and is stayed by the brace *g*. The seed-hopper C is cylindrical and is provided in its bottom with a discharge-opening, *c'*.

In the bottom of the hopper C is journaled the disk or wheel H, provided with seed-apertures *h*, through which the seed pass to the seed-spout B, and with the teeth *h'* on its periphery, with which a spring-pawl, *i*, carried by the sliding block I, engages. The block I slides in a curved guideway, K, on the outside of the hopper C, and is connected to the jaw D by means of the rod or link *l*. The curved guideway K consists of a single piece or length of rod or wire, *k*, bent upon itself to form parallel arms *k'*, and secured at its bend to the handle A and its ends held in apertures of a lug, *c''*, projecting from the sides of the hopper. The upper and lower edges of the block I are grooved to receive the arms *k'* of the rod or wire *k*, forming the guideway. M is a set-screw passing through the handle A and adapted to limit the movement of the block I. On the side of the seed-hopper opposite the block I is a pawl, *n*, engaging the teeth of the seed-disk H to prevent backward movement of the said disk.

On the inside of the hopper and over the discharge-aperture thereof, and above the seed-disk H, is placed the cut-off *c'*. *c'* is a foot-plate secured to the lower end of the standard.

The operation is as follows: The planter being seized by the handle and the foot placed upon the rest *a'*, pressure is applied and the blades *b d* forced into the ground, with the rest F resting upon the surface of ground. The handle A is then moved in the direction of the arrow, Fig. 1, thereby opening the penetrating points or blades *b d* and allowing the seed which has been previously deposited in the hopper by the seed-disk to pass out into the ground. When the planter is withdrawn from the ground, the seed-disk is operated to deposit sufficient seed in the hopper for a hill, when the operation is repeated, as above described.

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

1. In a hand-planter, the combination, with a handle and a spring-pressed jaw pivoted thereto and provided with a rest, of a hopper,

a seed-dropping disk having teeth on its periphery, a sliding block on the hopper carrying a pawl engaging the teeth of the seed-disk, and a link connecting the block to the movable jaw, substantially as described.

2. In a hand-planter, the combination, with a handle and a spring-pressed jaw, of a hopper provided with guideways on its outer surface, a seed-dropping disk having teeth on its periphery, a block sliding in said ways and carrying a pawl engaging the teeth of the seed-disk, a link connecting the block to the movable jaw, and a pawl for preventing backward movement of the said disk, substantially as herein shown and described.

3. In a hand-planter, the combination, with a handle and a spring-pressed jaw, of a hopper, a seed-disk having teeth on its periphery, a block sliding in ways on the hopper and carrying a pawl engaging the teeth of the said disk, a link connecting the block to the pivoted jaw, a pawl for engaging the teeth of the seed-disk to prevent backward movement of

the same, and a set-screw for limiting the movement of the cross-head, substantially as herein shown and described.

4. In a hand-planter, the combination, with a seed-hopper and a seed-disk having teeth on its periphery, of guideways formed as described, a grooved block sliding on said ways and carrying a pawl engaging the teeth of the said disk, and means for reciprocating the said block, substantially as described.

5. In a hand-planter, the combination, with a handle provided with a seed-spout and a spring-pressed and pivoted jaw, the said handle and jaw being provided with penetrating points, of the plate d' , having its lower portion provided with side flanges, d'' , and secured at its upper end to the pivoted jaw and forming an extension of the spout, substantially as described.

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Witnesses:

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