

E. S. TURNER.
Hand Corn-Planters.

No. 158,545.

Patented Jan. 5, 1875.

Fig. 1.

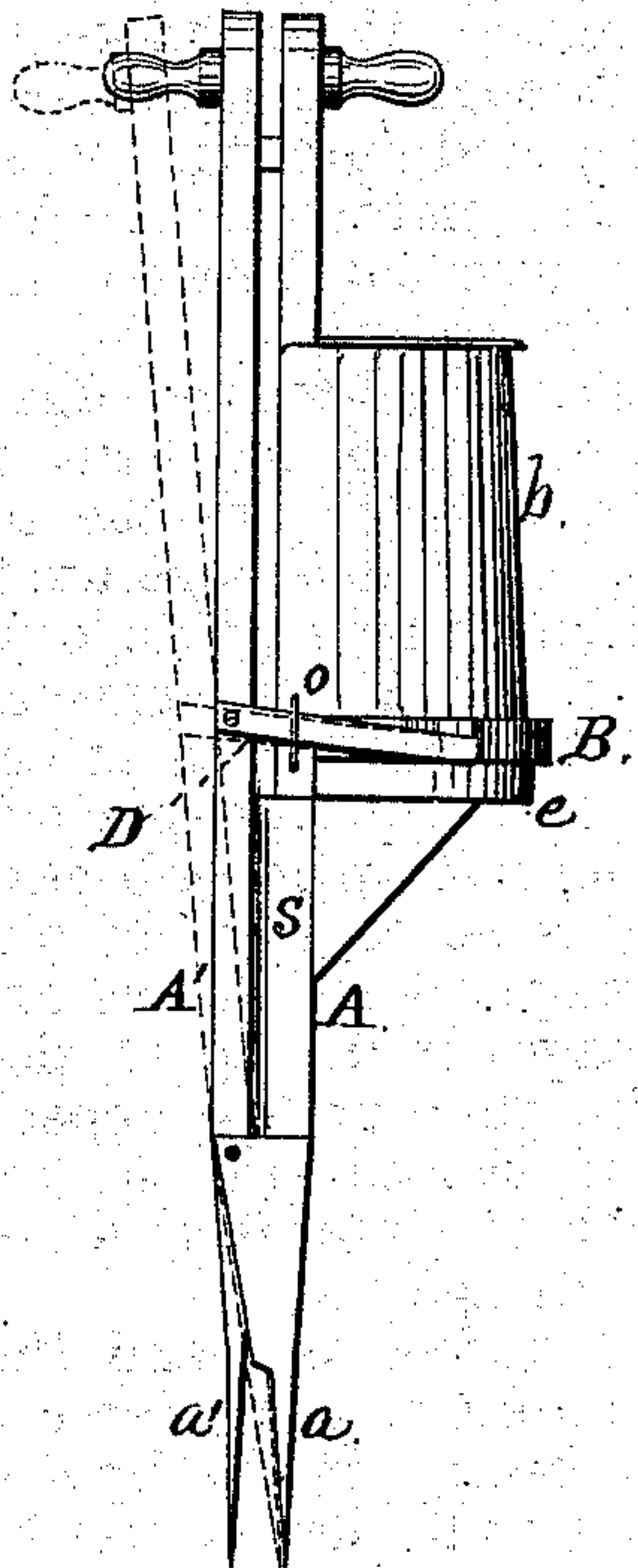


Fig. 2.

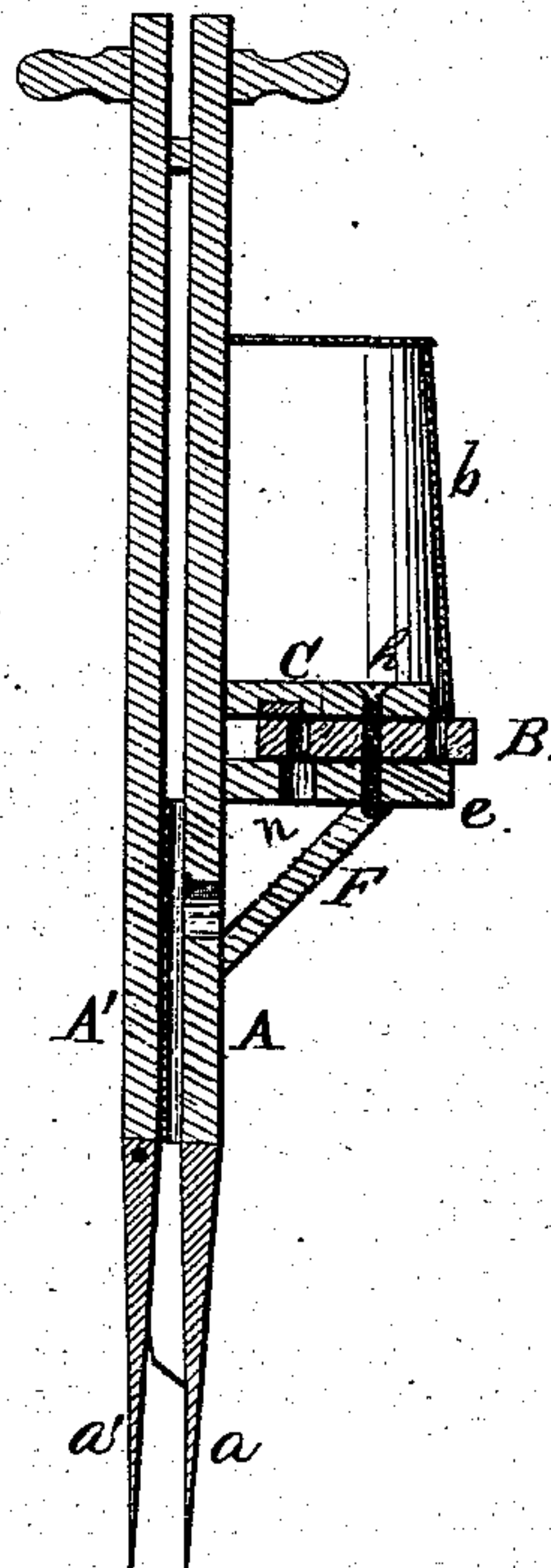


Fig. 3.

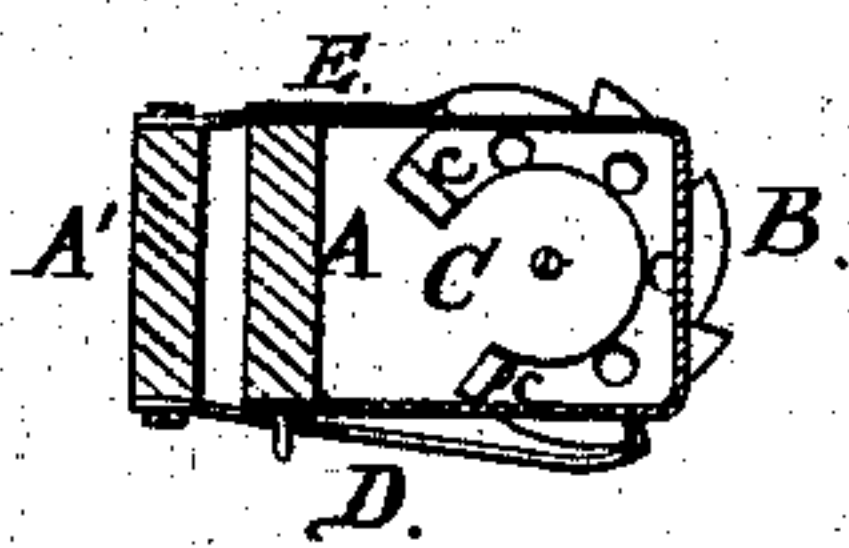
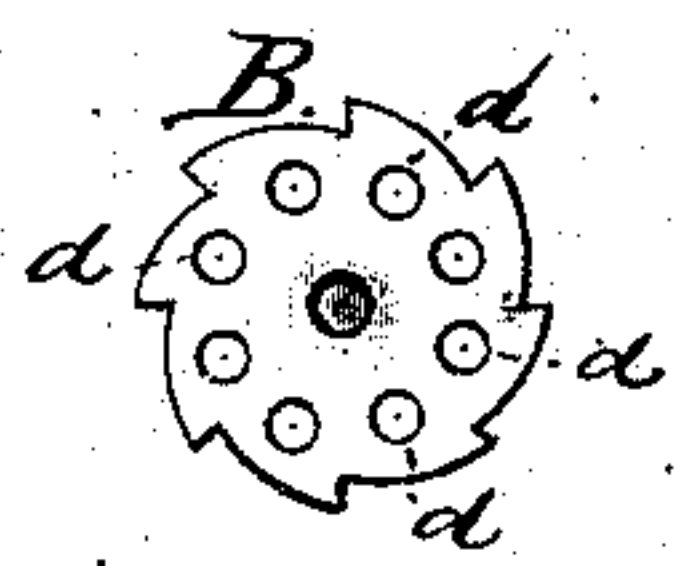


Fig. 4.



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UNITED STATES PATENT OFFICE.

EDWARD S. TURNER, OF HESTER, MISSOURI.

IMPROVEMENT IN HAND CORN-PLANTERS.

Specification forming part of Letters Patent No. 158,545, dated January 5, 1875; application filed October 15, 1874.

To all whom it may concern:

Be it known that I, EDWARD S. TURNER, of Hester, in the county of Marion and State of Missouri, have invented certain new and useful Improvements in Hand Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side view of my improved hand corn-planter. Fig. 2 is a cross-section. Fig. 3 is a vertical section. Fig. 4 is a view of rotary dropper detached from the planter.

Like letters in all the figures of the drawings indicate like parts.

This invention relates to the class of hand corn-plinters having the legs hinged or pivoted together, and provided with steel blades and the usual hopper to receive the corn; and consists of a horizontally-arranged rotary dropper, having teeth or cogs at regular intervals around its periphery, and provided with a series of chambers in combination with an actuating spring-lever, pawl, and hollow block having suitable rubber cut-offs, so as to drop the corn more regularly and avoid the clogging up the bottom of the planter with dirt, all constructed and arranged as will be hereinafter more fully explained.

A' A are the legs, provided with the steel blades *a' a* and hopper *b*. B is the rotary dropper, having teeth or cogs at regular intervals around its periphery. C is the hollow block constructed, as seen in Fig. 2, with a rubber cut-off, *c*, attached on each side of the block. D is the actuating-lever, and E the pawl.

The dropper has about eight chambers, *d*, and is placed under the bottom of the hopper with its teeth projecting outside thereof, and fastened on the top of a plate, *e*, attached to the leg A by a pivot-screw, *h*, which also fastens the hollow blocks C placed on the top of it, the screw passing through both, and thence into the plate *e*. The block is on the inside of the hopper, one end of which is made to fit square against the side of the leg, space enough being left between the opposite end and the sides of the hopper to let the corn pass freely to the chambers of the dropper, whence it is carried around

under the hollow part of the block between the rubber cut-offs, and thence discharged through an orifice, *n*, in the plate *e*, which extends down through a support-block, F, under the plate, and into the passage S, formed by a plate embracing the edges of the leg A, and thence out between the steel blades and into the ground.

The lever D is attached to the edge of leg A', and has its operating end bent slightly around, so as to engage with the teeth or cogs of the dropper, and is regulated in its action upon the latter by a guide, consisting of a staple, *o*, driven in the edge of leg A over the lever. The pawl E is attached to the edge of leg A on the opposite side, and prevents the dropper from going backward.

The legs are pivoted together by plates attached to both edges of leg A, and arranged to embrace the edges of the leg A', the pivot-pins being passed through the upper corner of the plates, and thence into the edges of the latter leg. These plates form a continuation of the corn-passages *s*.

The planter is worked by hand the same as other hand-plinters of a similar construction, the dropper being rotated by the lever engaging with the teeth thereof, which moves the dropper around at regular intervals, thus dropping the corn uniformly and without clogging up the bottom of the planter with dirt.

I do not claim, broadly, a rotary dropper actuated by a spring-lever and provided with chambers to receive the corn, as I am aware that the same is not new, being shown in the patent of J. A. Burchard, granted October 13, 1868, No. 82,918; but

What I do claim is—

In a hand corn-planter the rotary dropper B, actuated by the spring-lever D, and provided with chambers to receive the corn, in combination with the hollow block C, cut-offs *c c*, plate *e*, and support-block F, as constructed and arranged with the hopper *b*, substantially in the manner and for the purpose as set forth.

In testimony that I claim the foregoing as my own invention, I affix my signature in presence of two witnesses.

EDWARD S. TURNER.

Witnesses:

EDWIN V. ALLEN,
FRANCIS A. BARR.