

A. C. L. DAVIS.

Corn Planter.

No. 103,153.

Patented May 17, 1870.

Fig. 1

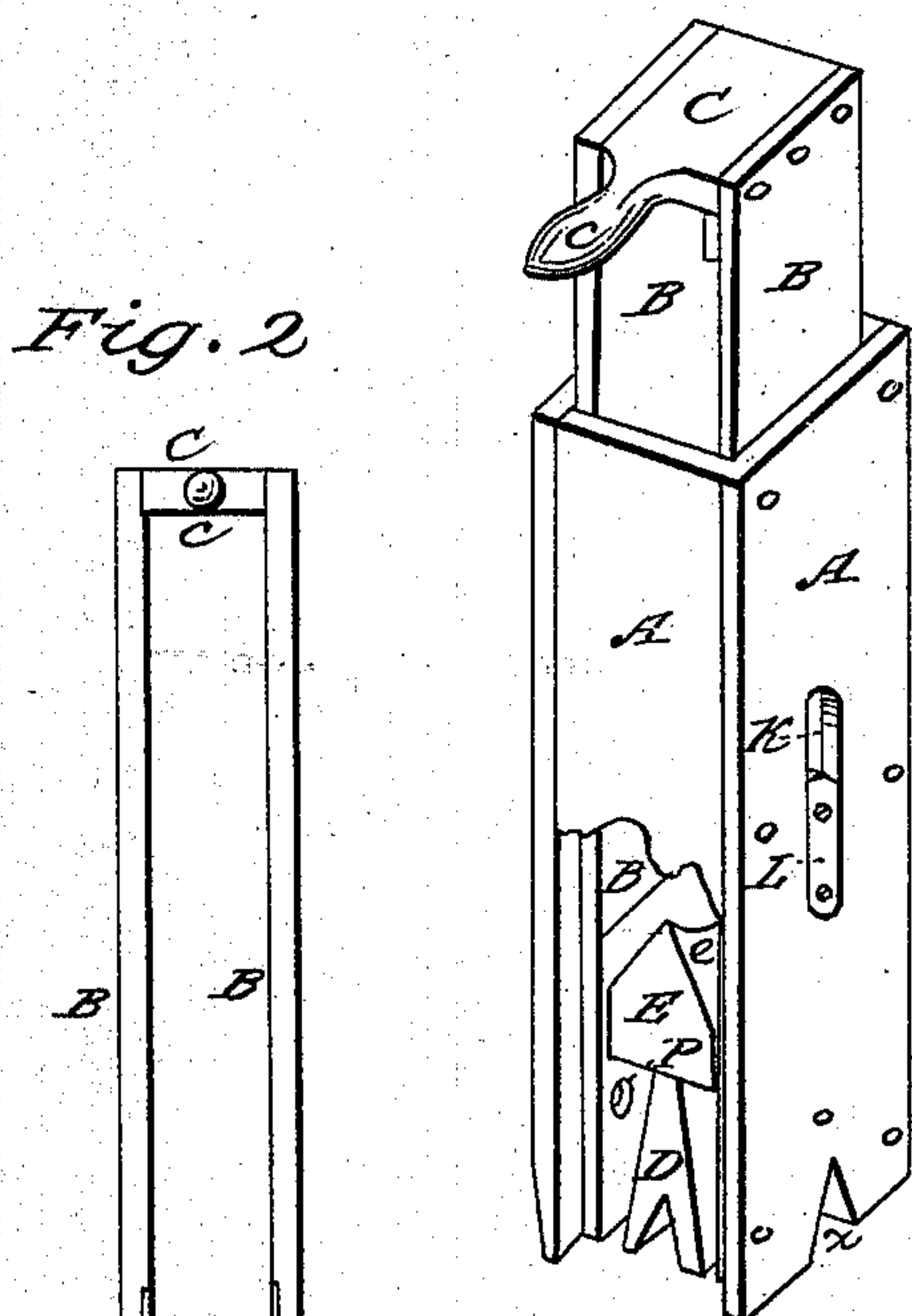


Fig. 2

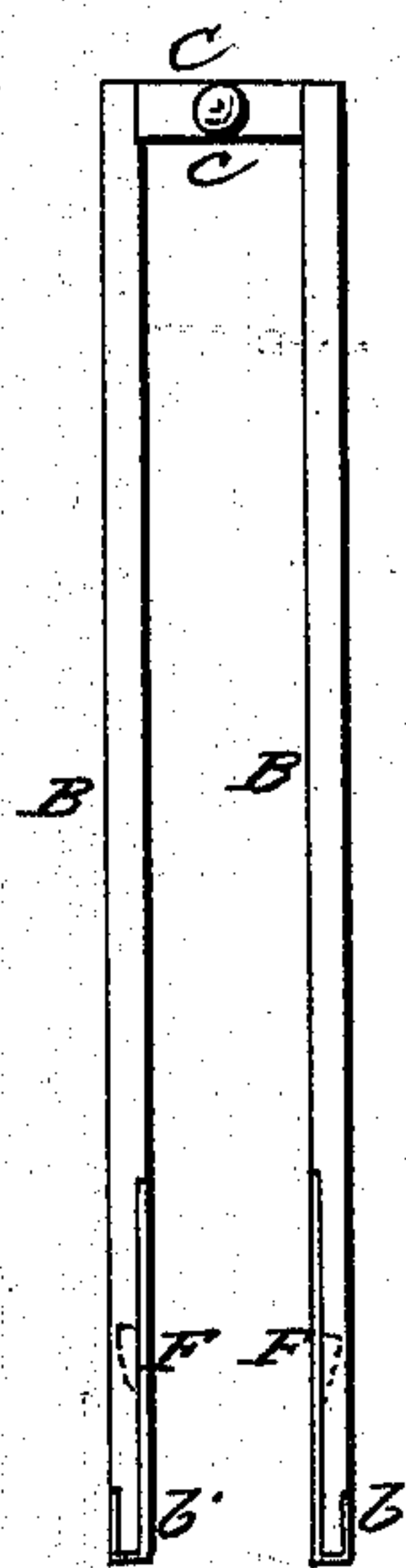


Fig. 3

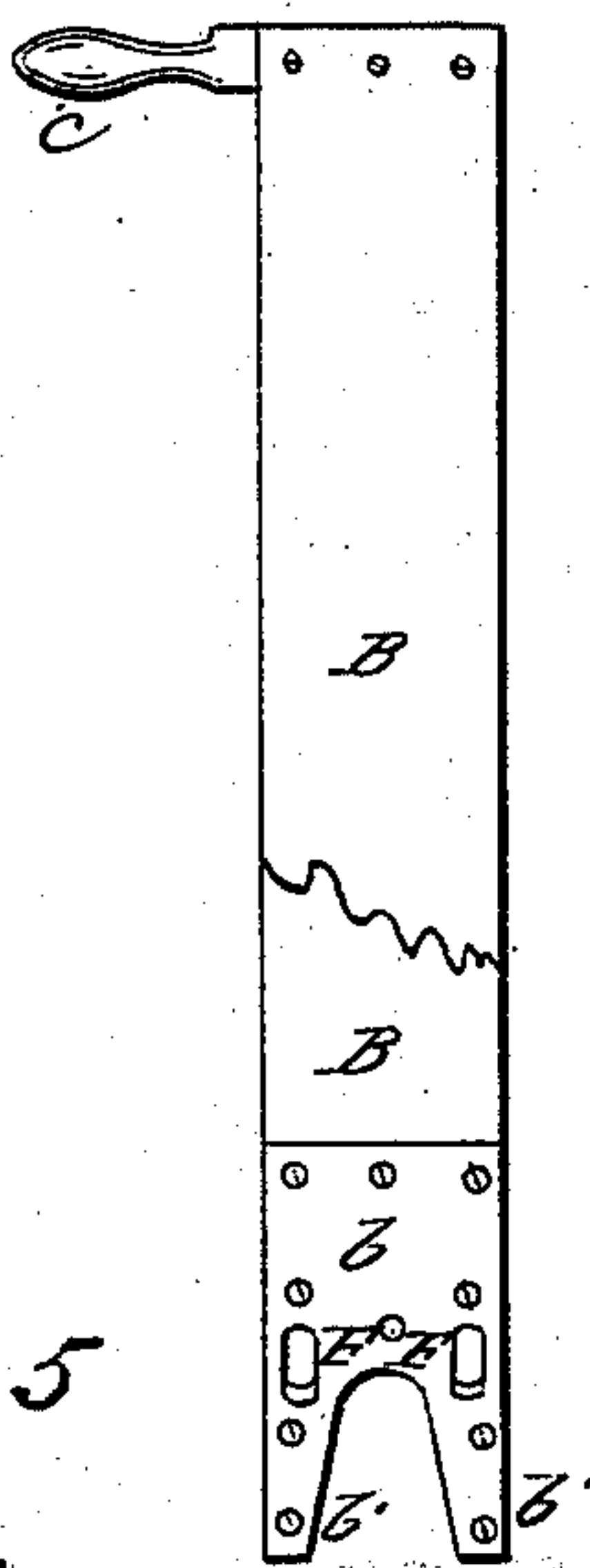


Fig. 4

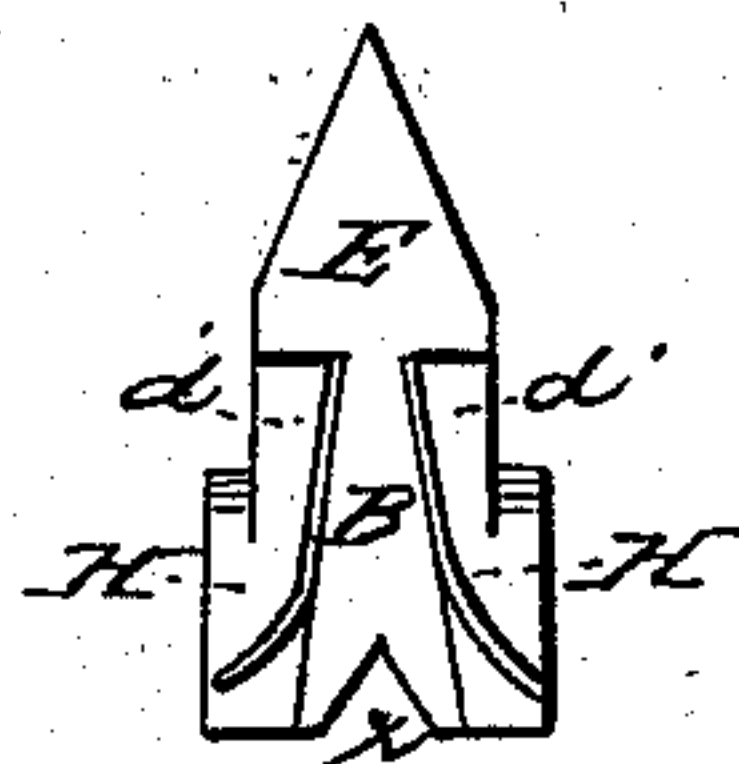


Fig. 5

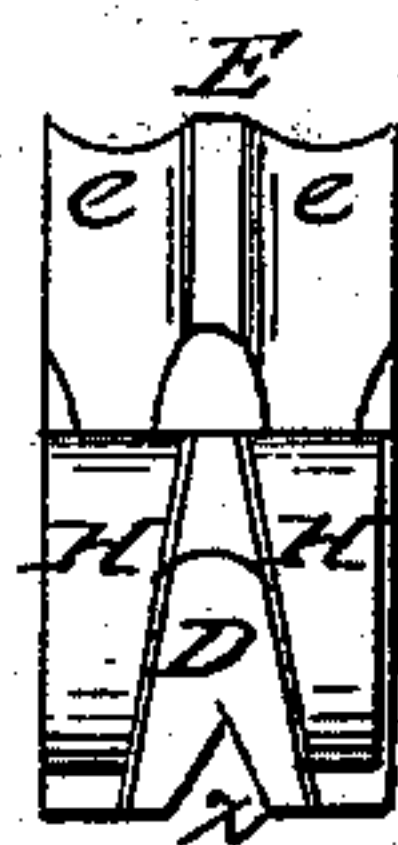
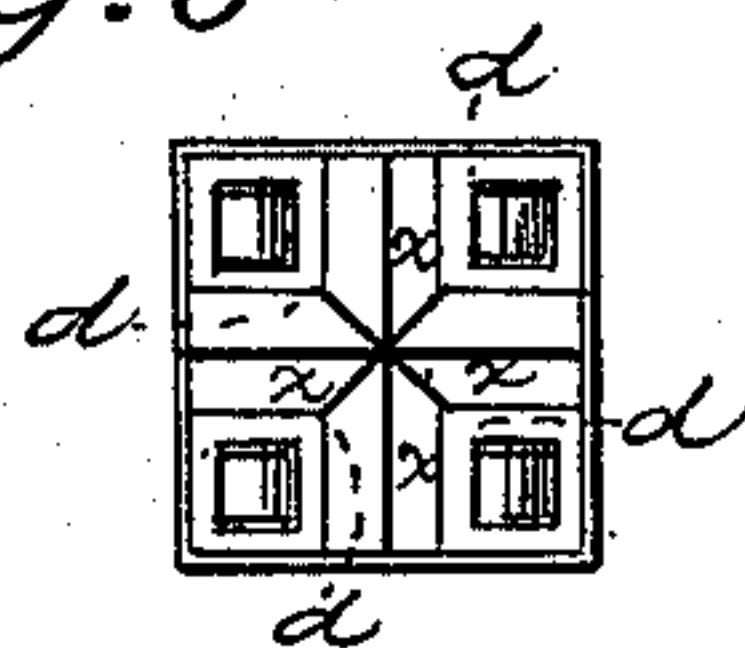


Fig. 6



Witnesses:

Admire  
Sam H. Mann

Inventor:

A. C. L. Davis  
by Prindle & Dyer, Attys.



# United States Patent Office.

AUGUSTUS C. L. DAVIS, OF ST. LOUIS, MISSOURI.

Letters Patent No. 103,153, dated May 17, 1870.

## IMPROVEMENT IN HAND CORN-PLANTERS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, AUGUSTUS C. L. DAVIS, of St. Louis, in the county of St. Louis and in the State of Missouri, have invented certain new and useful Improvements in Hand Corn-Planters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a perspective view of my improved device, with a portion of one side of the casing broken away, so as to show the interior arrangement;

Figure 2 is a front elevation of the plunger and valve-frame;

Figure 3 is a side elevation of the same, with one of its sides broken away, so as to show the interior face of one of the valves;

Figures 4 and 5 are a front and a side elevation, respectively, of the distributing-block and retaining-springs; and

Figure 6 is a plan view of the lower end of the same.

Letters of like name and kind refer to like parts in each of the figures.

My invention relates to a class of corn-planters designed for hand operation; and

It consists in the peculiar construction of the dropping and planting devices, as is hereinafter set forth.

In the annexed drawing—

A represents a square wooden box, having a transverse diameter of about five inches, and a length of about eighteen inches, within which is loosely fitted a slide, composed of two parallel strips of board B, having a width equal to the inner diameter of said box, and a length about one-third greater than the length of the same.

The upper ends of the slide-boards are connected together by means of a block, C, having upon one end thereof a handle, c, for raising and lowering said slide, said blocks having a breadth sufficient to cause said slide to just fill the space between the sides of the box A.

Secured within the lower end of the box A is a block, D, the lower end of which is divided into four branches *d* by two V-shaped grooves *x*, extending transversely across the center of the same at a right angle with each other.

A right-angled groove, *d'*, cut in each corner of the block D, extends upward and inward to the top of said block, upon which is secured a second A-shaped block, E, provided with two half-round grooves *e* upon each of its sloping faces.

The lower ends of the slide-boards B are bifurcated so as to pass into and fill the grooves *d'* when said slide is pressed downward, to allow of which operation the

thickness of the block E is sufficient to just fill the space between said boards, leaving a space between each of its sides and the sides of the box, to permit said boards to pass.

The inner face of each slide-board B, at and for some distance above its lower end, is covered with a metal plate, *b*, in and through which, immediately above the divided ends *d'*, are provided two openings F, which incline downward, and are each capable of containing about four grains of corn.

If, now, the slide be placed within the box, the vacant space in the upper part of the same filled with corn, and said slide raised and lowered, it will be found that whenever the openings F are brought above the lower end of the block E, they will be filled by the corn passing down the grooves *e*, and upon depressing said slide, said corn will be dropped into the grooves or channels *d'*, and through them into the ground.

In order that the downward thrust of the slide may be caused to imbed the corn firmly in the ground, a spring, H, corresponding in shape therewith, is secured at one end to the upper end of each groove, and from thence curves downward and outward, so that its lower end will press against the side of the box, and thus close the passage formed by said groove.

As thus arranged, upon depressing the slide the metal face *b*, upon its lower end *b'*, will press the spring inward sufficiently to permit said ends to pass; but, as said springs bear firmly against said metal face, they will catch and retain the corn brought down in and dropped from the openings F.

After the withdrawal of the plunger or slide, the corn held by the springs will pass beneath the ends, which, upon their return, will force said corn downward and firmly imbed it in the ground.

By this arrangement it will be seen that each downward thrust of the plunger forces the corn held by the springs into the ground, and deposits a like quantity upon said springs for the next operation, while each withdrawal of said plunger permits the corn held by said springs to pass beneath the ends *b'*, and at the same time fills the cavities F for the next downward thrust.

A lug, I, secured to each of the slide-boards B, and working in a slot, K, within the side of the box, for the purpose of limiting the motion of said slide, completes the device, the operation of which is as follows:

The box or hopper being filled with corn, the operator lifts the machine by means of the handle *c*, and moves forward to the desired point, when, by resting its lower end upon the ground and pressing downward upon the handle, the corn beneath the plunger is forced into the ground at four points.

Upon raising the machine, the weight of the hopper causes it to drop down upon the plunger, recharge the



cavities with fresh corn, and allow that just dropped from said cavities to pass beneath the plunger.

The especial advantages obtained by this device are certainty and thoroughness of operation, combined with extreme simplicity and durability of parts.

Having thus fully set forth the nature and merits of my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The slide or plunger, consisting of the boards B, secured together by means of the block C, and provided with the divided ends *b'* and openings or cavities F, in combination with the distributing-block D, substantially as shown and for the purpose specified.

Also, the distributing-block D, provided with the

channels *d'* and springs H, in combination with the block E and the hereinbefore-described plunger, substantially as and for the purpose set forth.

Also, the hereinbefore-described device, consisting of the box A, the plunger B, C, *b'*, and F, the distributing-blocks D and E, and the springs H, all constructed and arranged to operate substantially as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand this 28th day of February, 1870.

A. C. L. DAVIS.

Witnesses:

F. COMEREE,

WM. W. MOSHER.