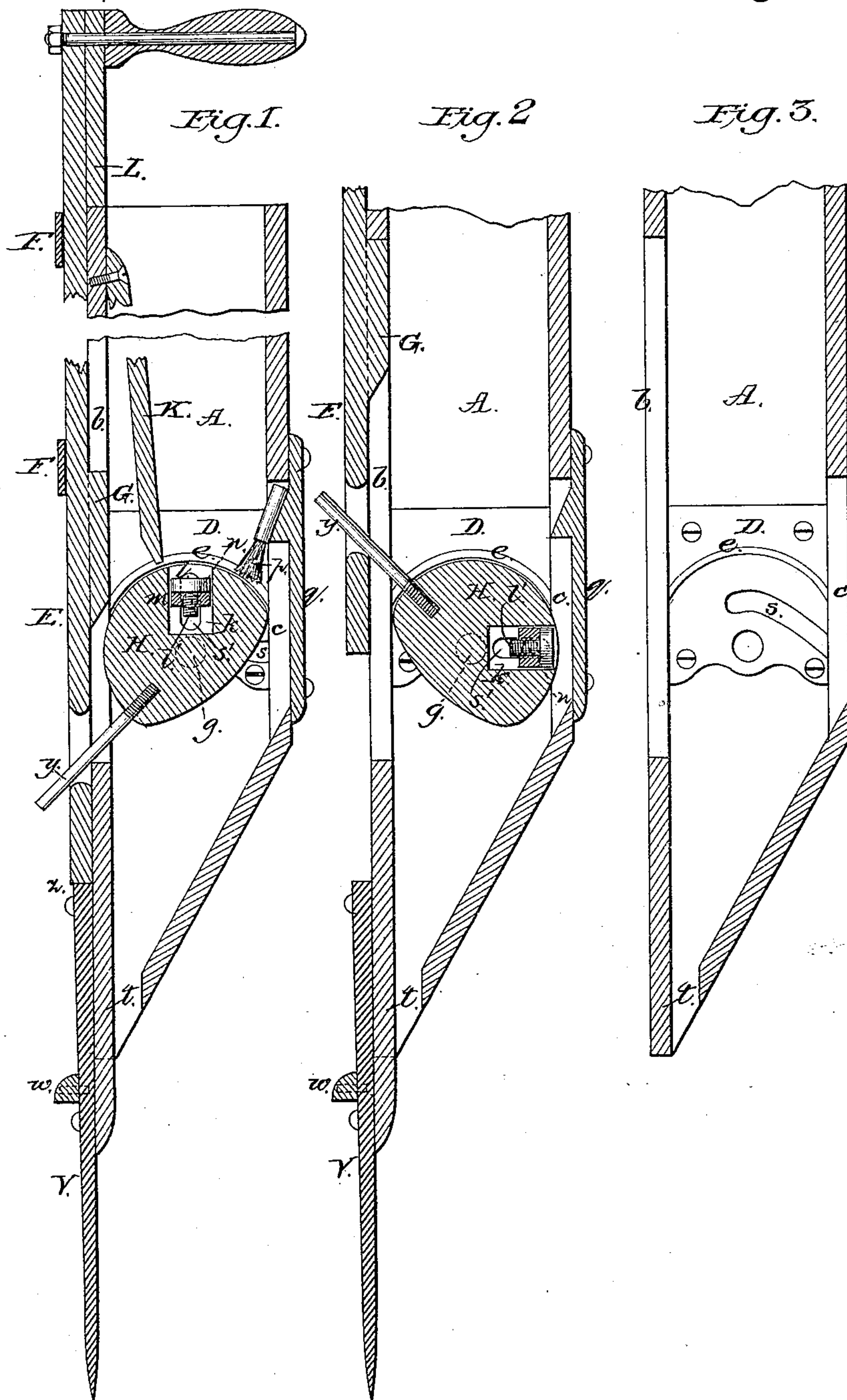


(No Model.)

F. C. FROST.
CORN PLANTER.

No. 246,488.

Patented Aug. 30, 1881.



WITNESSES
John A. Ellis.
Philip H. Mass.

INVENTOR
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UNITED STATES PATENT OFFICE.

FRANCIS C. FROST, OF ANOKA, MINNESOTA.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 246,488, dated August 30, 1881.

Application filed June 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS C. FROST, a citizen of the United States, resident of Anoka, in the county of Anoka and State of Minnesota, have invented a new and valuable Improvement in Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical central section of my device, with the dropper in position to receive seed. Fig. 2 is a similar view, showing the dropper in the act of discharging the seed; and Fig. 3 is a sectional view, showing one of the inside plates.

This invention has relation to hand corn-planters; and it consists in the improved features of construction and combination hereinafter fully described, and particularly pointed out in the claim—an improvement of Letters Patent No. 219,573, granted to me September 16, 1879.

In the accompanying drawings, the letter A designates the hollow body of the planter, forming the seed-holder, slotted in front at *b* and in rear at *c*.

D represents the interior slotted guide-plate, which is provided with the convex rib or flange *e*, and is secured to the inner wall of the box A, near its lower end. A pair of these plates is employed for each box, usually said plates forming the bearings for the journals *g* of the rocking dropper H. The dropper is cylindrical or partially cylindrical in form, and is recessed at *k* to receive the seed to be dropped at each discharge. The quantity of seed taken in by the recess is regulated by means of the adjustable block or section *l* of the discharger *m*. The latter is provided with a lateral pin or pins, *n*, which are designed to engage with the curved slots *s* of the plates D, and as the rocking dropper is moved back and forth said discharger is moved to the mouth of the recess, and reversely. Adjustment of the section *l* of the discharger is effected by means of the threaded stem *l'* thereof, which engages with a threaded hole in the discharger. A slot, *s'*, is made in the side wall of the recess *k*, to allow

for the movement of the pin of the discharger, as indicated in the drawings.

Bearing on the rear portion of the perimeter of the dropper is a brush, *p*, which is secured to the strip *q*, which closes the rear slot, *c*, of the box A. The slot *c* forms a channel or way in rear of the dropper, through which the seed from the discharger falls into the lower end of the box, passing thence out through the opening *t*.

Secured to the lower end of the box, on its front, is a spade, V, and a stop, *w*, is provided near the upper end of the blade, below the level of the opening *t*, which is in rear of the spade, so that said opening will not be carried down into the ground, but will be free at all times for the outward passage of the seed. The upper end of the spade forms a bearing, *z*, against which the lower end of the reciprocating handle-slide E abuts when the spade is being pushed into the ground. The handle-slide E is connected to the box by means of straps F, and is provided with a center guide and stop, G, which works in the front slot, *b*, of the box, as indicated in the drawings. An inner strip, K, serves to prevent the slot *b* from being clogged with seed.

The handle-slide is provided usually with a rear shoulder, L, which is designed to engage the top of the box at the same time that the lower end of said slide engages the top of the spade, and serves to assist in the downward pressure.

The operation is as follows: The planter is swung forward by means of its handle, and the spade pressed into the soil in a forward oblique direction, the handle-slide being at the same time moved downward, in order to give the necessary pressure. This movement rocks the dropper forward by means of the lever-pin *y* engaging a slot in the slide, and the recess therein passes in front of the brush into proper position to receive seed. Then the planter is carried forward at its upper end, assuming a more upright position and opening the ground in rear of the spade. Then the handle-slide is drawn up, turning the dropper so that the seed-recess will pass in rear of the brush and the seed will be discharged, passing out at the opening *t* into the opening in the ground, the mouth of which is, in this position of the plant-

er, exactly below the opening at the lower end of the box. Finally, the spade is withdrawn from the opening in the ground by continuing the upward movement of the handle-slide, and
5 the planter is again swung forward for another stroke.

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

10 A hand-planter having a spade attached to its lower end and an opening, *t*, in rear of said spade and above its entering portion, and a

stop secured to the front of the spade below the opening *t* to prevent the opening from being clogged or closed when the spade is thrust into the ground, substantially as specified. 15

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FRANCIS C. FROST.

Witnesses:

JOHN A. ELLIS,
JAMES J. SHEEHY.