J. Jeffcoat,

Hand Planter.

No. 87,414. Patented Mar. 2. 1869.

Fig. 1.

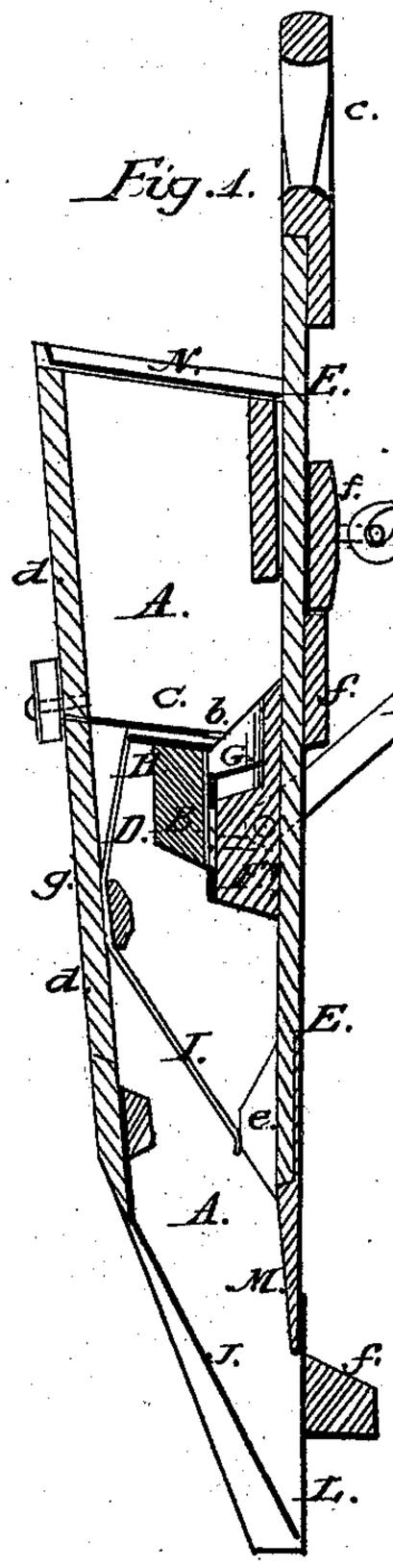


Fig. 2.

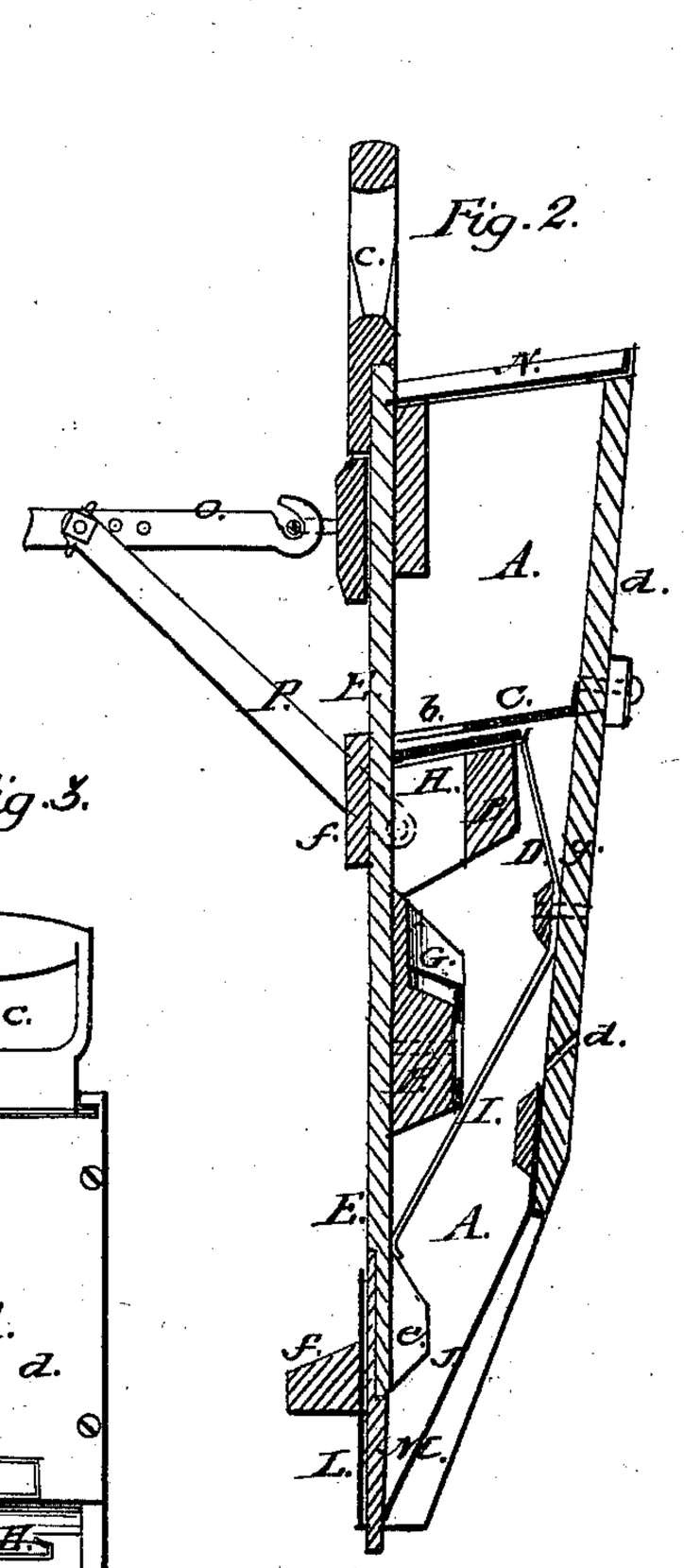
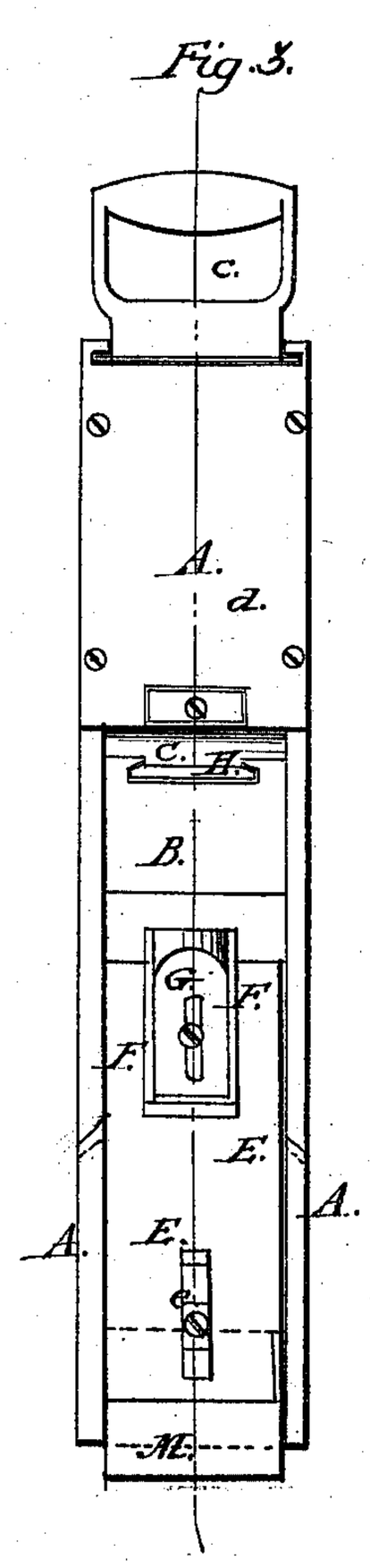


Fig. 3.



Witnesses:

Chas. Neda.
Wm. A. Morgan.

Inventor:

J. Jeffcoat
by
Munn & Co.
Attys.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

JOHN JEFFCOAT, OF ONAWA, IOWA.

Letters Patent No. 87,414, *dated March* 2, 1869.

IMPROVEMENT IN HAND SEED-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, JOHN JEFFCOAT, of Onawa, in the county of Monona, and State of Iowa, have invented a new and improved Hand Seed-Planter; 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 make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a sectional elevation of my improved hand seed-planter.

Figure 2 is a similar view of the same, showing the parts in a different position.

Figure 3 is a face view of the same, a portion of the casing being removed.

Similar letters of reference indicate like parts.

This invention relates to a new hand seed-planter, which is so condensed as to be of convenient size, and easily handled, and which is cheap, and can be readily made by an ordinary mechanic.

It can be used single or double, that is, one person can operate one or two of them at once, and its mechanism is easily adjustable to different kinds or quantities of seed to be planted.

The invention consists in the general arrangement of parts, and in the whole construction of apparatus, all being so made that the aforesaid objects can be readily attained.

A, in the drawings, represents the main box of the machine.

The same is made of wood, or other suitable material, of sufficient size, and of somewhat tapering form, it being narrower on its lower than it is on the upper part.

Somewhat above its middle, is arranged in it a transverse block, B, above which an inclined plate, C, is fixed in the box, as is clearly shown in figs. 1 and 2.

Between the block B and plate C is arranged a sliding plate, H, which is, by means of a spring, D, forced against the face E, of the box, to close an aperture, or apertures, *b*, formed in or by the plate C, as in fig. 2.

The face E, of the box, is a slide, which can be moved up and down, at will, and which carries on its inner side a block, F, with an inclined upper edge, and with the upper part of its inner side hollowed out, or concave, as shown.

The bottom of this concave portion is formed by a plate, G, which is up-and-down adjustable, so that the cavity can be enlarged or diminished, at will.

The adjustment can be provided by forming a slot through the upright portion of the plate G, as shown in fig. 3, or by any other equivalent means.

When the slide E is drawn up, (it has a handle, *c*, on top, to facilitate its manipulation,) the block F is drawn up in front of the block B, and its inclined upper face causes the slide H to be moved back against the spring D, as shown in fig. 1.

The seed, which is contained in the upper part of the seed-box, is now free to drop into the cavity of the block F, and to fill the same.

As soon as the slide E is pushed down, the spring D at once closes H, as in fig. 2, and prevents seed from falling below H.

The seed in the cavity of F will, when the sliding-plate H has been closed over it, drop out, and fall upon an inclined plate, I, (see fig. 2,) which plate forms a partition in the seed-box A.

The plate I is a spring, fastened to the back, *d*, of the box.

As soon as the slide E, is again raised, the spring I will, by a lug, *e*, on E, be forced back, as in fig. 1, to let the seed fall further down.

During the next downward motion of E, the spring I will close against E before the next lot of seed is dropped from F.

The seed, thus falling off the spring I, falls upon another spring, J, which projects from the back plate *d*, with its lower edge against the lower part of a plate, L, that is fastened in front to the lower part of the seed-box.

The slide E is, in front, guided by strips, *f f*, that are fastened to the side-pieces of the box, and the plate L is fastened to one of these strips *f*, or, if desired, directly to the side-pieces of the box.

The lower end of the slide E carries a metal block, M, as shown.

When the seed drops off the spring I, it falls into the lower part of the box A, where the plates J and L come together.

As soon as E is again pushed down, the plunger M moves the spring J aside, and pushes the seed out into the ground.

The top of the box A is, or can be closed by a sliding cover, N.

When there are two seed-boxes to be used at once, they are connected with each other by means of a rod, O, which is hinged to the two boxes, as shown in figs. 1 and 2.

The position of the boxes to each other is defined by means of braces, P P, which are pivoted to the boxes and to the rod O, and which are adjustable on the latter, as shown.

The back, *d*, of the box A, may have a removable portion, *g*, to allow the inspection and repair of the interior of the box.

Having thus described my invention,

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

1. The combination, in a hand seed-planter, of the box A, slide E, block F, plate C, slide H, and spring D, all arranged and operating substantially as herein shown and described.

2. The hand seed-planter, consisting of the box A, plate C, spring D, seed-slide H, slide E, block F, plunger M, spring J, and plate L, all arranged substantially as herein shown and described, with or without the combination with the spring I and lug *e*.

JOHN JEFFCOAT.

Witnesses:

JAMES ARMSTRONG,

L. D. KITTLE.