H. C. FAIRCHILD.

Hand-Seeder.

No. 21,127. Patented Aug. 10, 1858.

Fig. 1

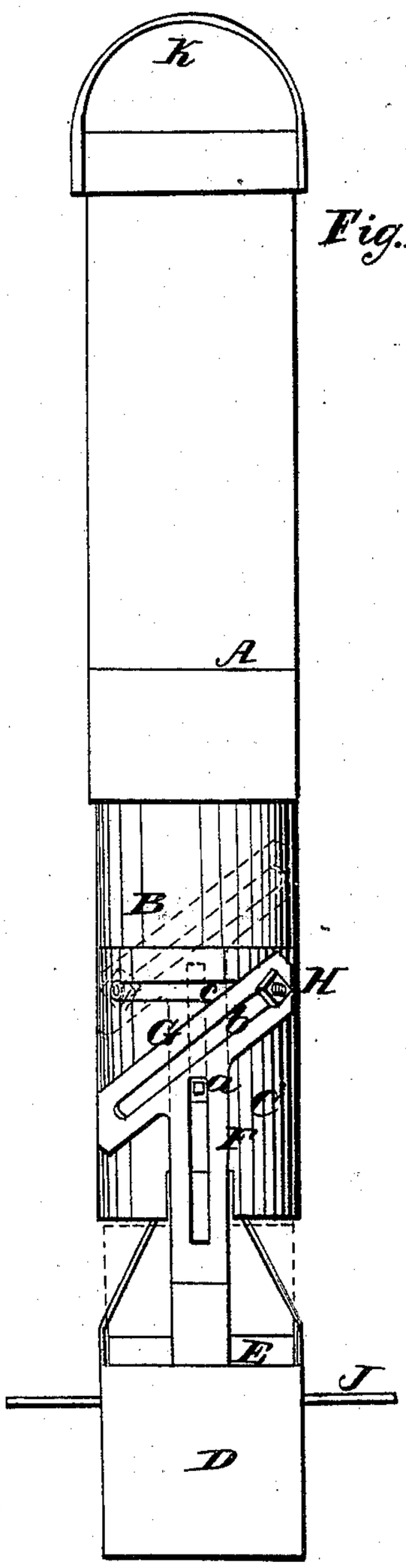


Fig. 2.

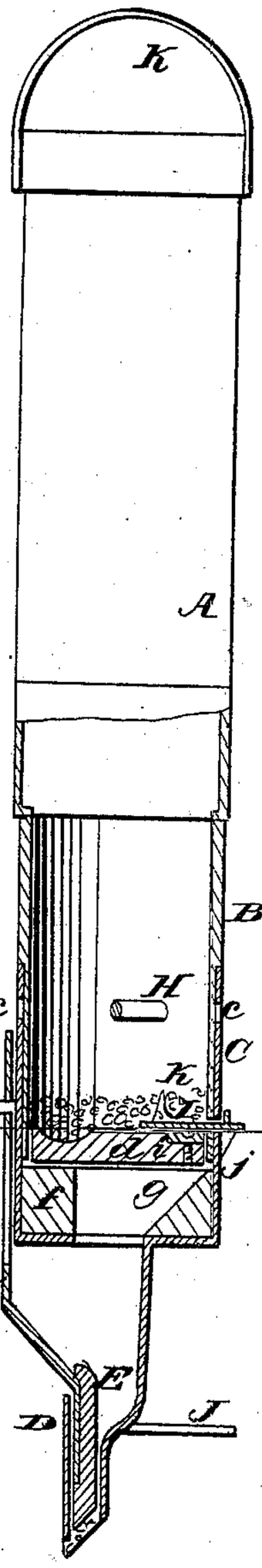
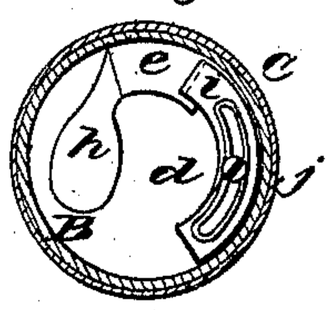


Fig. 3



UNITED STATES PATENT OFFICE.

H. C. FAIRCHILD, OF BROOKLYN, PENNSYLVANIA.

IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. **21,127**, dated August 10, 1858.

To all whom it may concern:

Be it known that I, H. C. FAIRCHILD, of Brooklyn, in the county of Susquehanna and State of Pennsylvania, have invented a new and Improved Hand Seed-Planting Device; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is an external view of my invention in elevation. Fig. 2 is a longitudinal central section of the same. Fig. 3 is a transverse section of the same, taken in the line *x x*, Fig. 2.

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

This invention consists in having the lower end of the seed-box fitted within a stationary cylinder, to which a plunger and case are attached, the seed-box being allowed to rotate and by its movement distributing the seed and actuating the plunger, as hereinafter fully shown and described.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a rectangular box, which may be constructed of wood; and B is a cylindrical metal case, which is permanently attached to the lower end of box A. The case B is fitted within cylindrical metal case C, to the lower end of which a rectangular case, D, is attached, the latter containing a plunger, E. The plunger E has a metal plate, F, attached, said plate being slotted longitudinally, and a pin, *a*, which is attached to the case C, fits in the slot of said plate, the pin serving as a guide.

To the upper end of the plate F a plate, G, is attached, the latter plate, G, having an oblique position relatively with the plate F, so that at one side of plate F an obtuse and at the other side an acute angle is formed, as shown clearly in Fig. 1. The plate G has an ablong slot, *b*, made through it, and a bolt, H, passes through said slot, through the case B, and through oblong slots *c* in the case C. In the bottom *d* of the case B an opening, *e*, is made, said opening being directly over or in line with the plunger-case D, and in the bottom *f* of the case C an opening, *g*, is made. The bottom *d* has a channel or furrow, *h*, made in it adjoining the opening *e*. (See Fig. 3.) The opening *g* may be contracted by means of a metal slide, *i*, which is regulated by a set-screw, *j*. (See Fig. 3.)

I is a stationary plate or cut-off, which is of segment form and placed horizontally within the case B, directly over the bottom *d*, and in line with the opening *g* in the bottom *f* of case C. This plate has one or more vertical pins, *k*, attached.

To the plunger-case D a horizontal plate, J, is attached, which serves as a gage, and to the upper part of the box A a handle, K, is attached.

The implement is used as follows: The seed to be planted is placed in the box A, and the plunger E being drawn up the case D is forced into the earth at the desired spot, the gage J determining the depth. The box A is then turned from right to left and the plunger E is thereby forced down in the case D, the bolt H actuating the plunger in consequence of its working in the oblique-slotted plate G. When the plunger E is down the opening *e* in the bottom *d* is opened and it becomes filled with seed, and when the plunger E is raised, which is done by turning the box A in the opposite direction, the opening *e* passes under the cut-off plate I and directly over the opening *g*, and the seed falls down into the case D, the seed being forced into the ground as the plunger E descends. The pins *k* of the plate I serve as agitators and prevent the distributing device from becoming choked or clogged. When the box A is turned the case D, in consequence of being in the ground, retains or holds stationary the case C, so that the perfect operation of the plunger E and distributing device is insured.

I am aware that seed-distributing devices formed of movable and stationary plates or slides and a cut-off similar to the device herein described have been used; but I am not aware that a distributing device has been arranged with a rotating or semi-rotating seed-box and plunger, so that the distributing of the seed and the operating of the plunger could be effected by rotating the seed-box. I do not claim, therefore, broadly and separately the distributing device; but

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

The rotating or semi-rotating seed-box A, provided with the cylindrical case B, fitted within the case C, in connection with the plunger E, connected with and operated by the movement of case B, as shown, the plunger-case D, attached to case C, and the seed-distributing device formed of the perforated bottoms *d f* of the cases B C and the cut-off I, the whole being arranged for joint action, substantially as and for the purpose set forth.

H. C. FAIRCHILD.

Witnesses:

WM. FRINK,

WM. H. BOOKIUS.