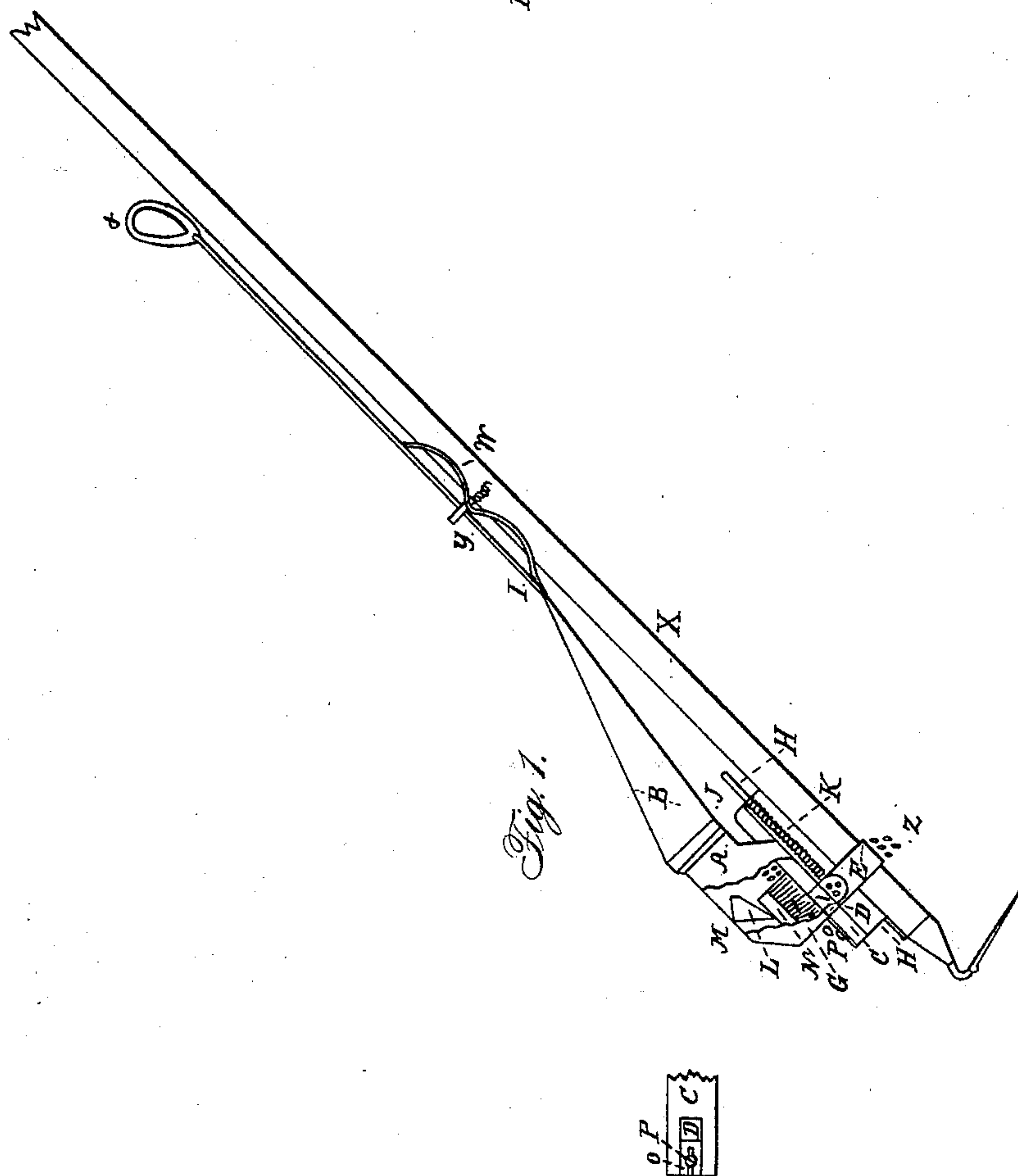
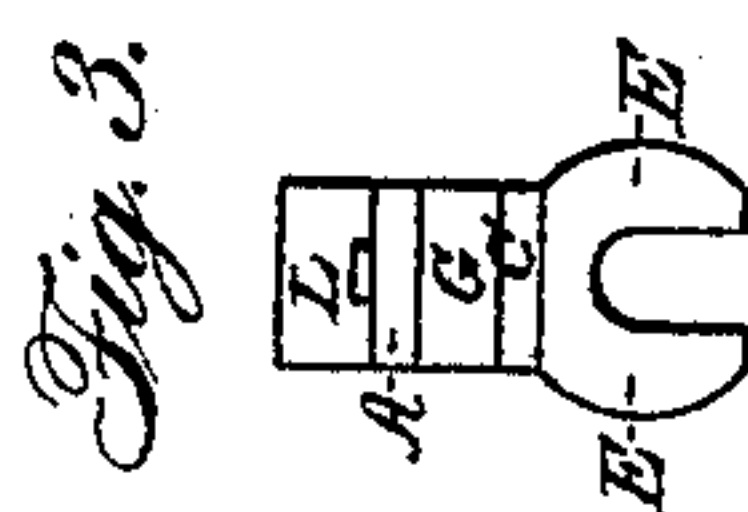
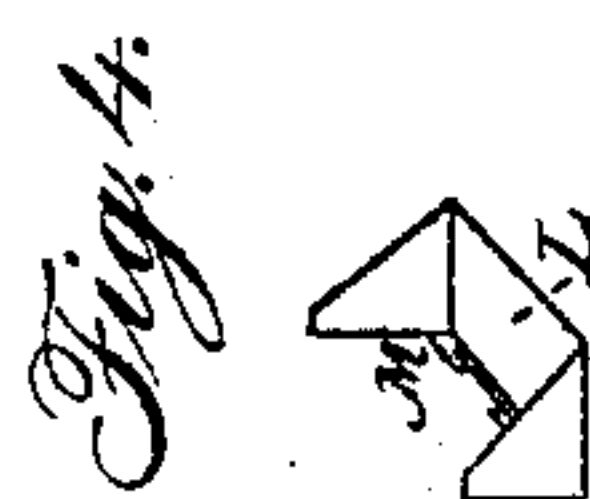
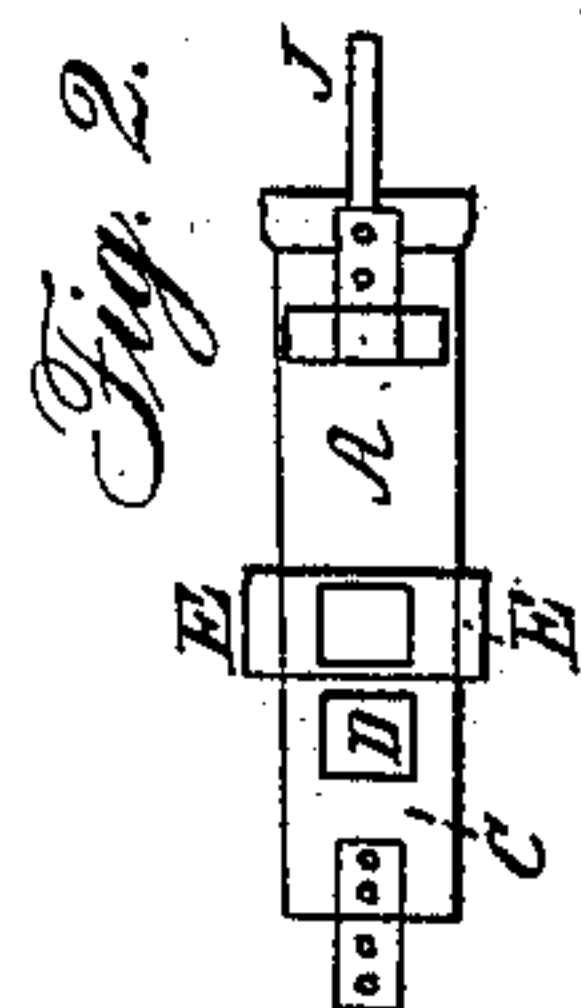


R. L. CLEVELAND.

Hand-Seeder.

No. 57,868.

Patented Sept. 11, 1866.



Witnesses:

John Davis
D R Webster

Inventor:

Reing u L Cleveland
By his Attorney
Geo. L Chapin

UNITED STATES PATENT OFFICE.

RIENZI L. CLEVELAND, OF DURAND, ILLINOIS.

IMPROVEMENT IN HAND CORN-PLANTERS.

Specification forming part of Letters Patent No. 57,868, dated September 11, 1866.

To all whom it may concern:

Be it known that I, R. L. CLEVELAND, of Durand, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Seed-Droppers; 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, and letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a longitudinal elevation of my seed-dropper with the side of the case broken away to give a view of the internal arrangements. Fig. 2 is a view of the under side of the same with the seed-sack removed. Fig. 3 is an elevation of the lower end of the seed-dropper, showing the conductors for discharging the seed. Fig. 4 is a perspective representation of the lid and hopper used in filling and shutting the seed-box.

The nature of my invention consists in the use of a winged lid for shutting the seed-box, so arranged that when the lid is open a convenient hopper will be formed for conveying the seed into the box; and in placing a flexible brush over the stationary bottom in such a position that the seed in proper quantities will be conveyed into the chamber, from whence it can be discharged through conductors; and, further, in providing a feed-slide, for regulating the quantity of seed passing into the feed-chamber.

By this arrangement a seed-dropper is provided and conveniently arranged for depositing any desired number of seeds, however great or small.

To enable others skilled in the art to make and use my invention, I will describe the method of construction and operation.

A represents the metallic box, which, in conjunction with the sack B, hold the seed. This box passes around and slides upon the stationary bottom C, in order that the opening or seed-chamber D may be brought over the conductors E E.

G represents the brush or flexible covering

of the chamber D, which allows the proper quantity of seed to pass through.

H shows the straps attached to the ends of the stationary bottom C, used for securing the seed-dropper to the handle of the hoe.

The conductors E E pass downward at the sides of the handle I and discharge the seeds the usual distance apart for covering.

The rod J supports the coil-spring K, which forces the box A back to its original position after the seed has been dropped.

L is the lid of the box, attached to the top plate by means of the hinge M, and is so arranged in connection with the brush-head N and sides of the box A as to both shut the opening in the box and form a suitable hopper or funnel for putting the seed into the sack B.

O is the slide, held in position by means of the set-screw P, which regulates the quantity of seed in the chamber D.

Operation: The seed-dropper must be secured to the hoe-handle (shown by the red lines X X) by means of screws put through the straps H H. The strap W must be secured to the handle by the loop Y, after which the sack can be filled with seed by means of the lid L. The seed is discharged by pulling the strap W by means of the loop, and in the usual manner, which will slide the box A upward on the stationary bottom C, bringing the hole or chamber D over the discharge-conductors E, as seen at Fig. 1. Z represents the seed passing through.

Having thus fully described my device, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination of the lid L with the box A and brush-head N, substantially as set forth.

2. The slide O, in combination with the chamber D, and stationary bottom C, and brush G, as and for the purpose set forth.

RIENZI L. CLEVELAND.

Witnesses:

JOHN DAVIES,

D. R. WEBSTER.