J. S. RICKEL.

Seed Planter.

No. 58,295. Patented Sept. 25, 1866.

Fig. 1.

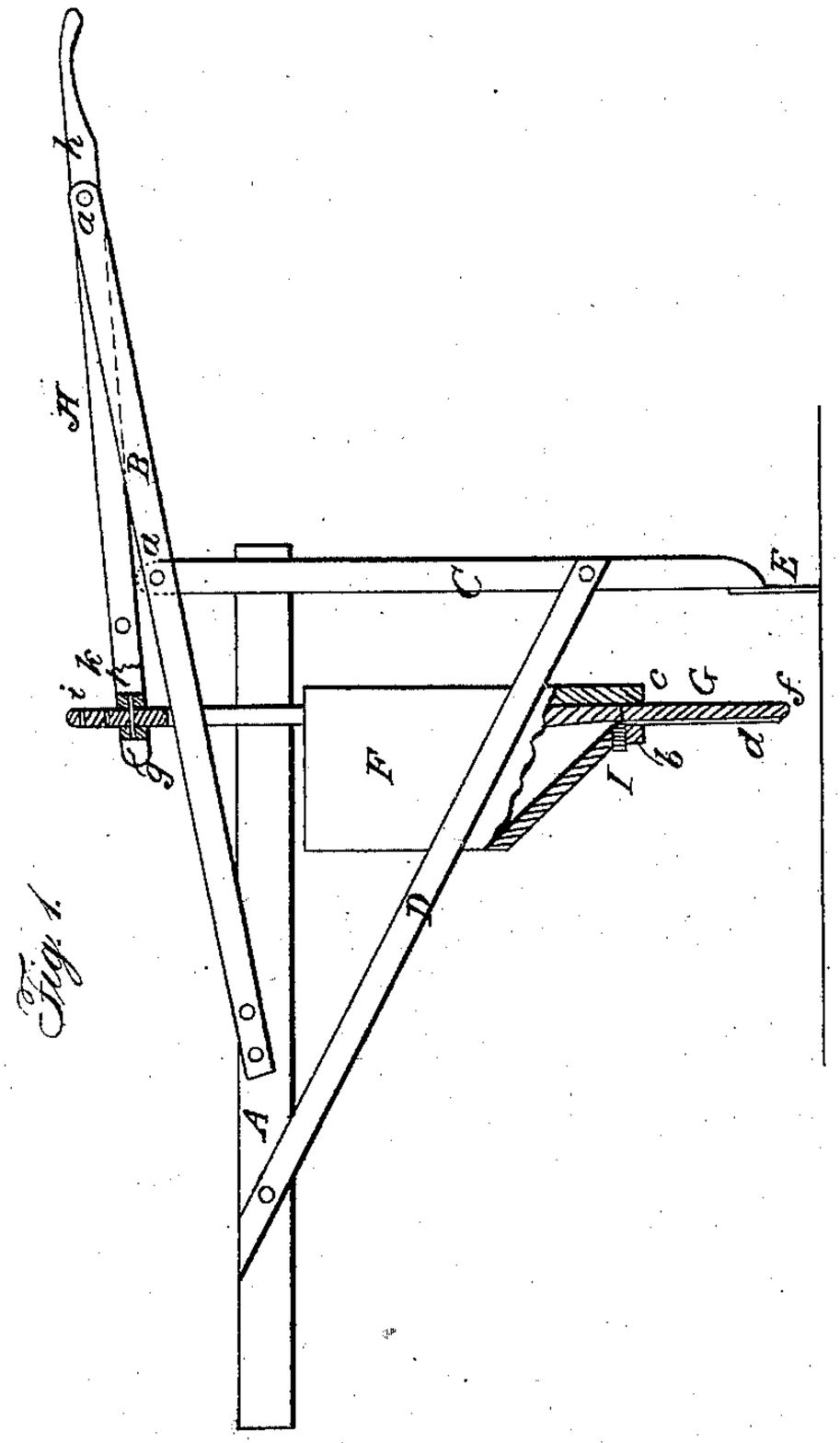


Fig. 2.

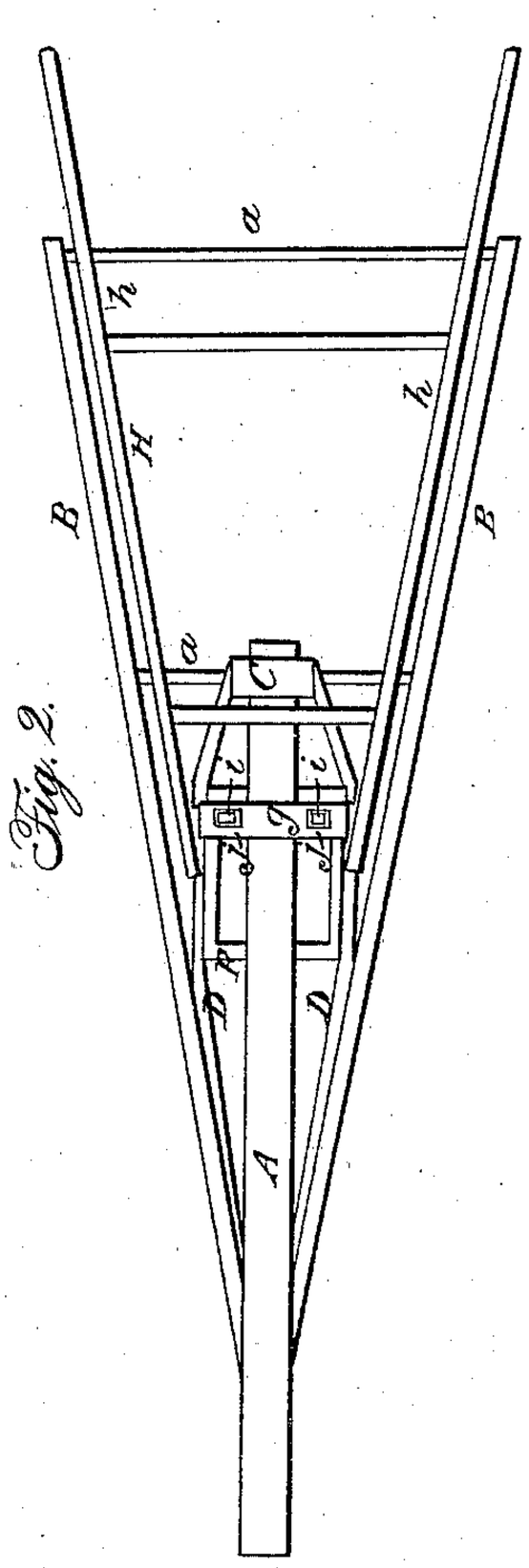
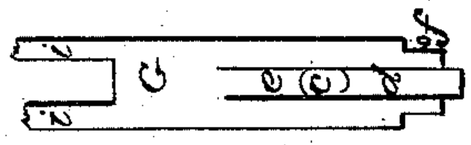


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOSIAH S. RICKEL, OF GENESEO, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **58,295,** dated September 25, 1866.

To all whom it may concern:

Be it known that I, J. S. RICKEL, of Geneseo, in the county of Henry and State of Illinois, have invented a new and Improved Corn-Planter; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable other persons 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 is a side view of my invention, partly in section; Fig. 2, a plan or top view of the same; Fig. 3, a detached front view of the lower portion of the dropping-slide pertaining to the same.

Similar letters of reference indicate like parts.

This invention relates to a new and simple device for dropping and covering corn; and it consists in a corn dropping mechanism applied to a coverer in such a manner that by a simple manipulation on the part of the operator the seed may be dropped and covered at the points where the furrows intersect each other, the field being furrowed both ways previous to the dropping or planting of the corn.

A represents a beam having two bars, B B, attached to it, one at each side, in an oblique position, and connected by cross-rods *a a*. C is a vertical plow-standard attached to the rear end of the beam A, and secured in position by braces D D. E is the plow, attached to the lower end of the standard C; and F is the corn box or hopper, secured between the braces D D, directly in front of the standard C. The lower front side of the corn box or hopper is inclined backward, so as to leave a slot or opening, *b*, between its lower end and the rear side of the hopper for a slide, G, to work through. This slide G is provided with a vertical oblong opening, *c*, which may be reduced in capacity as desired by means of a slide, *d*, fitted in a vertical groove, *e*, in the front of the slide, and secured in position by a set-screw, *f*, as plainly shown in Fig. 3. This slide G has a vertical oblong slot made in it, through which the beam A passes, said slot extending up to the top of the slide and having its ends fitted in a shaft, *g*, the journals of which are fitted loosely in the front end of a lever-frame, H, the fulcrum of which is on the outer cross-rod *a* of the oblique bars B B.

The sides *h h* of the lever-frame H extend a short distance beyond the bars B B and serve as handles, and the upper end of each side *i* of the slide G is fitted in a hole, *j*, in the shaft *g*, and secured by a pin, *k*, several holes being made in the sides *i* to admit of the slide being adjusted higher or lower, as may be desired. (See Fig. 1.)

In the lower part of the front side of the hopper F there is fitted a piece of india-rubber, I, or other suitable elastic material, to serve as a cut-off for the opening *c* in the seed-slide G. The inner end of this cut-off is beveled or cut obliquely, so that its upper edge will bear against the slide, as shown in Fig. 1.

The operation is as follows: The corn box or hopper F is supplied with corn, and the device is drawn along by a single horse, the plow E running in the furrows made one way in the field, it being understood that the field should be previously furrowed both ways, so that the furrows will cross each other at right angles and form check-rows. Each time the plow E intersects or comes in contact with a cross-furrow the operator raises the outer end of the frame H, thereby depressing the inner end of the same and forcing down the slide G, the seed contained in the opening *c* dropping into the earth where the furrows intersect each other, and the plow E is sufficiently raised by the elevating of the outer ends of the handles to escape or pass over the dropped corn and cover it with earth.

The quantity of corn to be dropped at each dropping is regulated by adjusting the slide *d*.

Implements constructed substantially the same as the plow portion of the device herein described have been used in different sections of the Western States for covering corn. They are commonly termed "corn-jumpers," and answer an admirable purpose for covering corn, saving a great deal of labor.

By my improvement—to wit, the applying of a corn-dropping device to the jumper—the corn may be dropped and covered at the same

time, thereby adding greatly to the value of the device.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The lever-frame H, with seed-slide G attached, in connection with the corn box or hopper F, arranged and applied to the corn coverer or jumper substantially in the manner as and for the purpose herein set forth.

JOSIAH S. RICKEL.

Witnesses:

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