

(No Model.)

C. W. SIMS.

SEED PLANTER.

No. 413,210.

Patented Oct. 22, 1889.

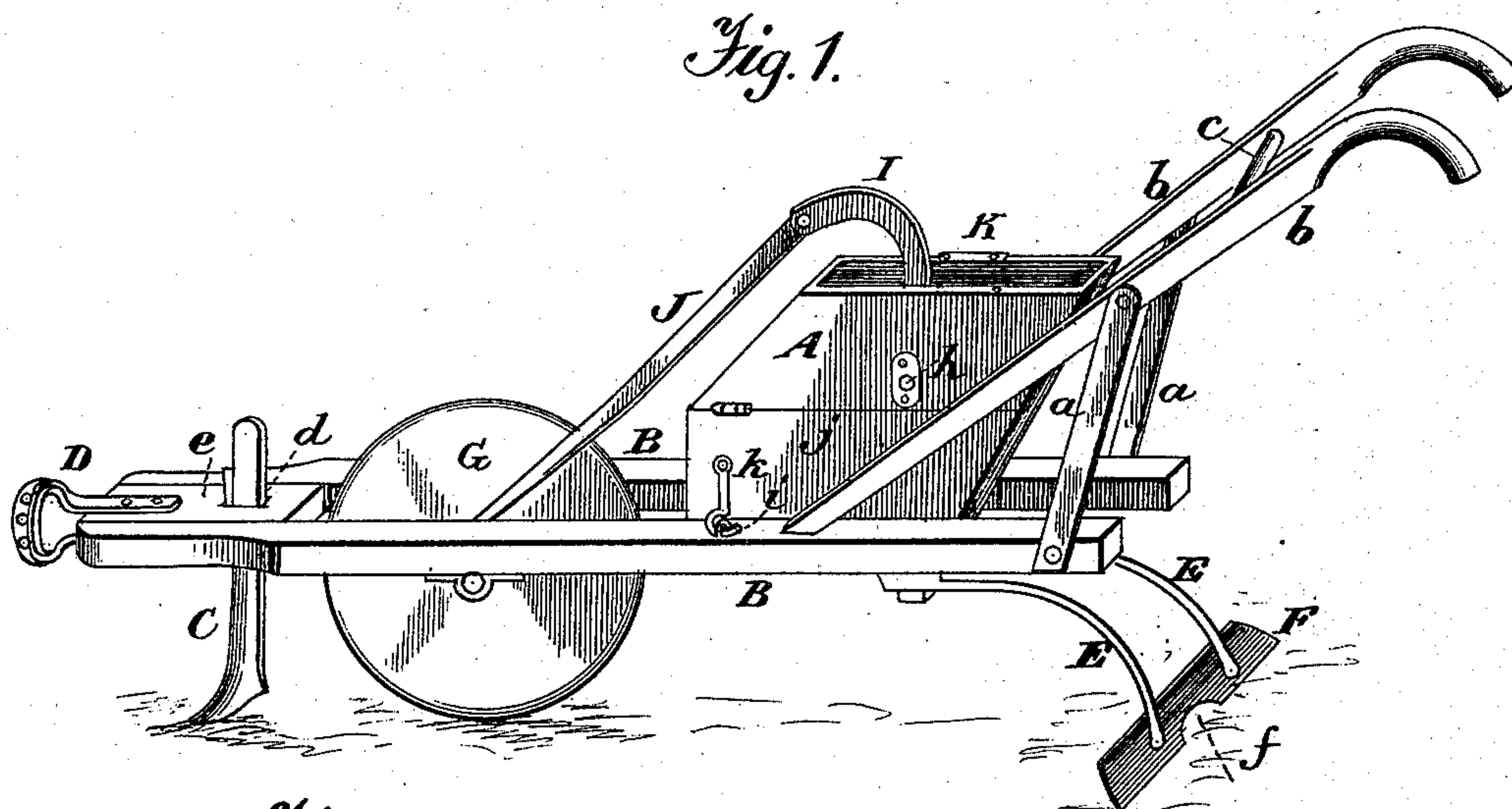


Fig. 1.

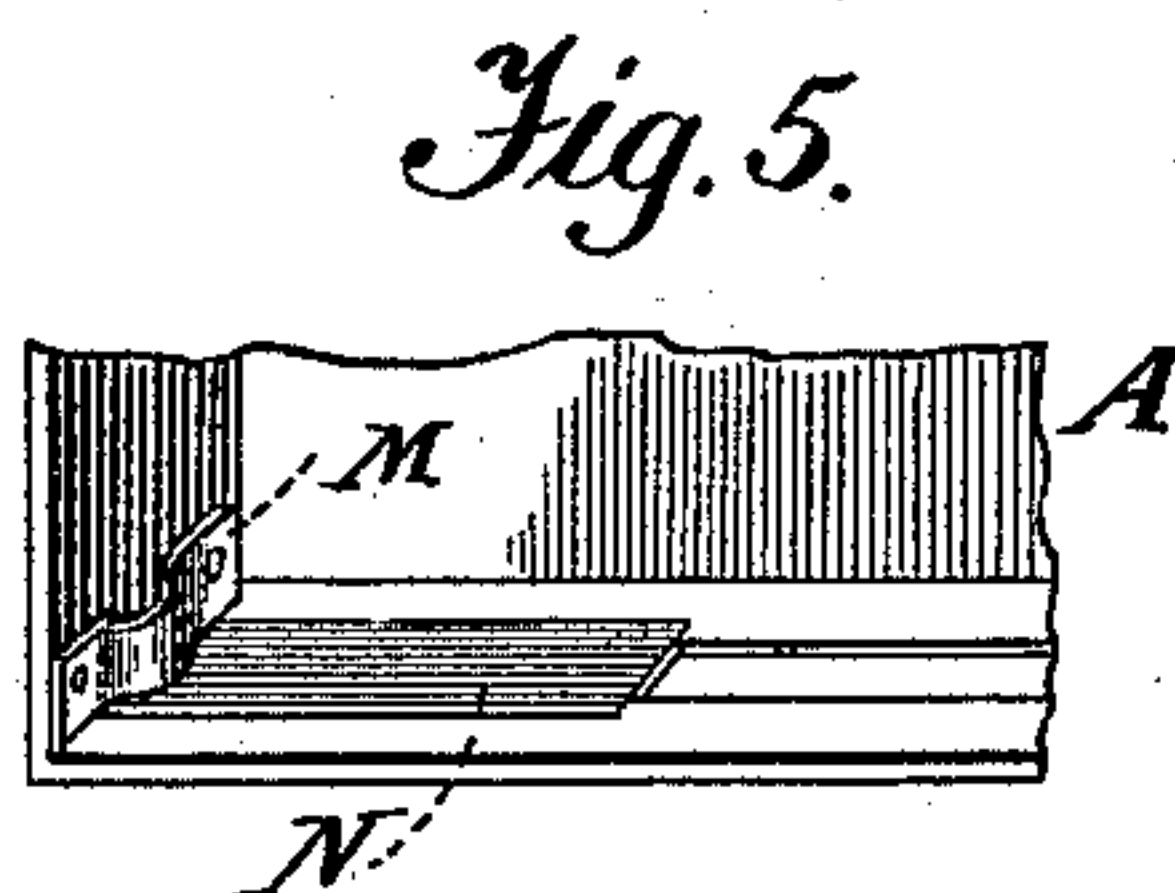


Fig. 5.

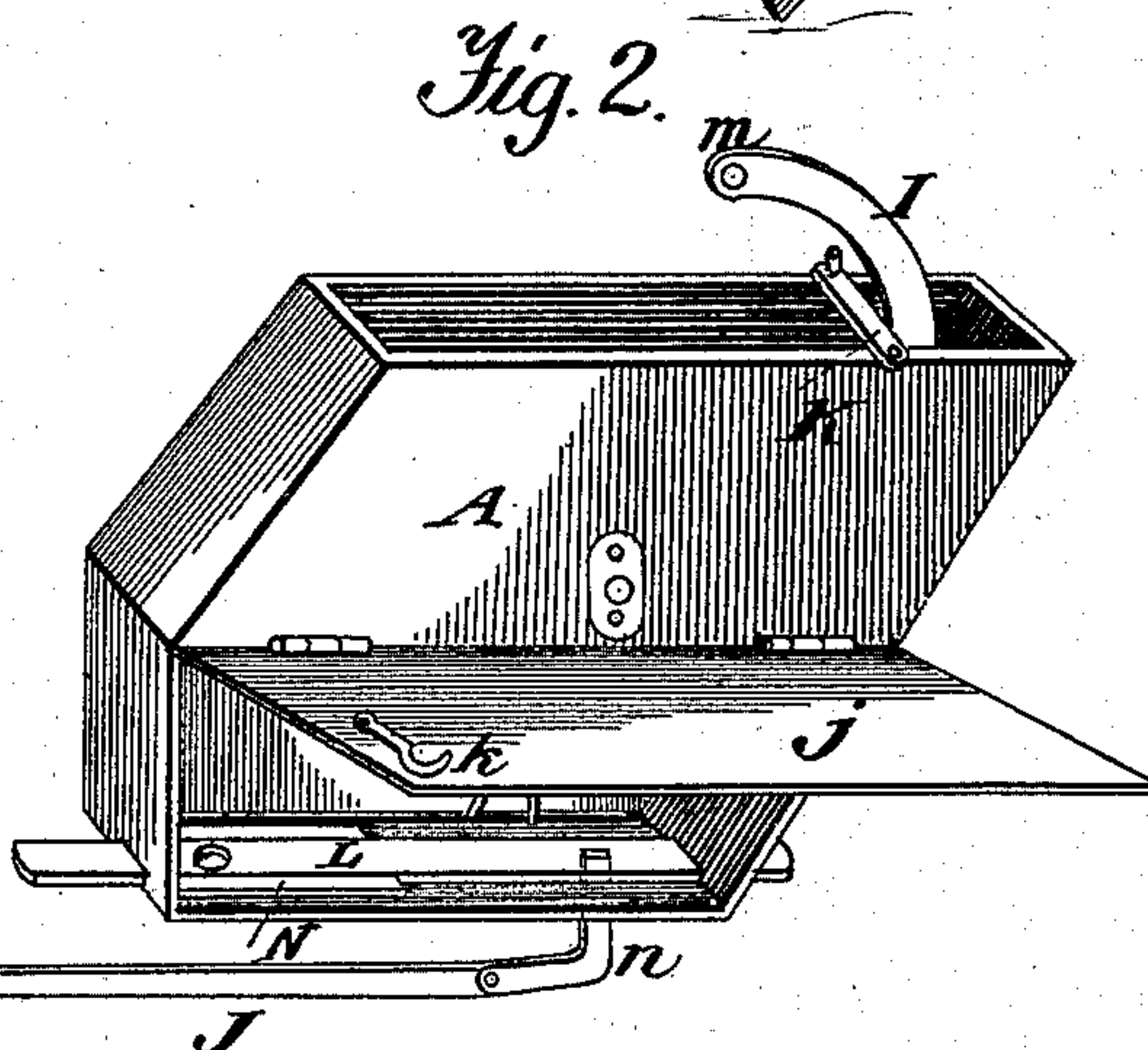


Fig. 2.

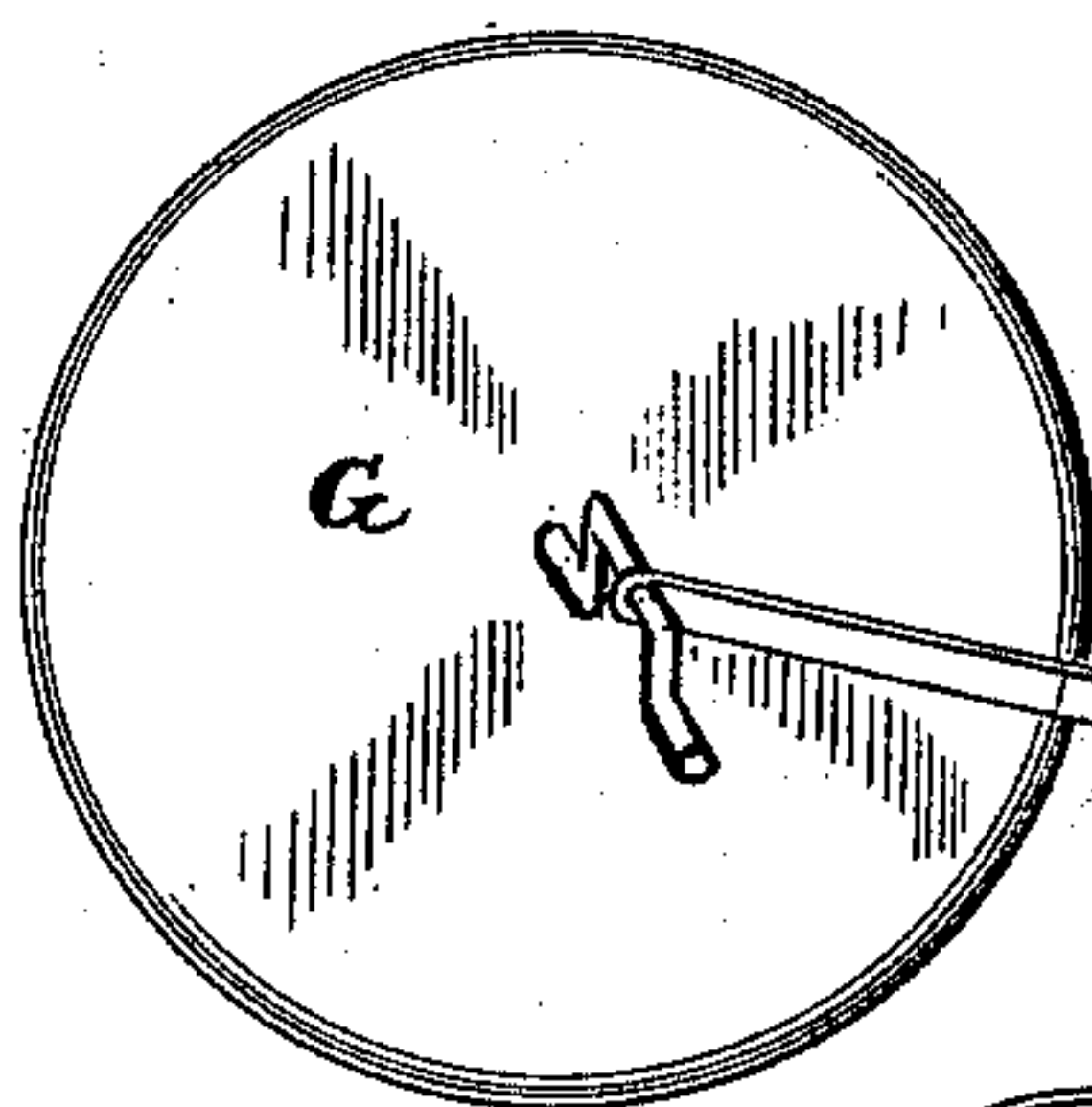


Fig. 3.

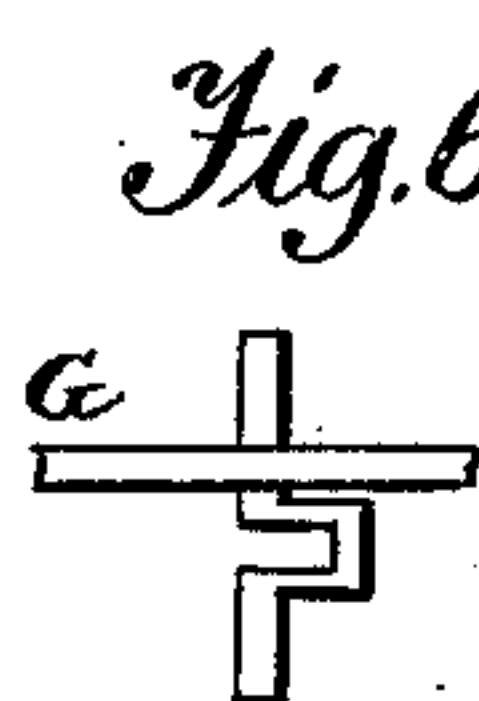


Fig. 6.

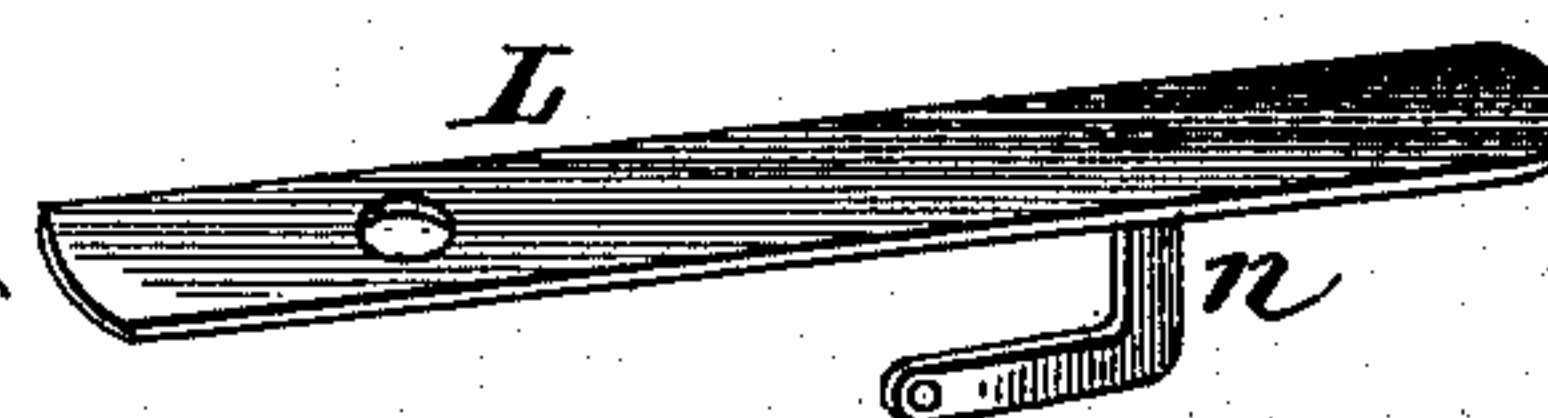
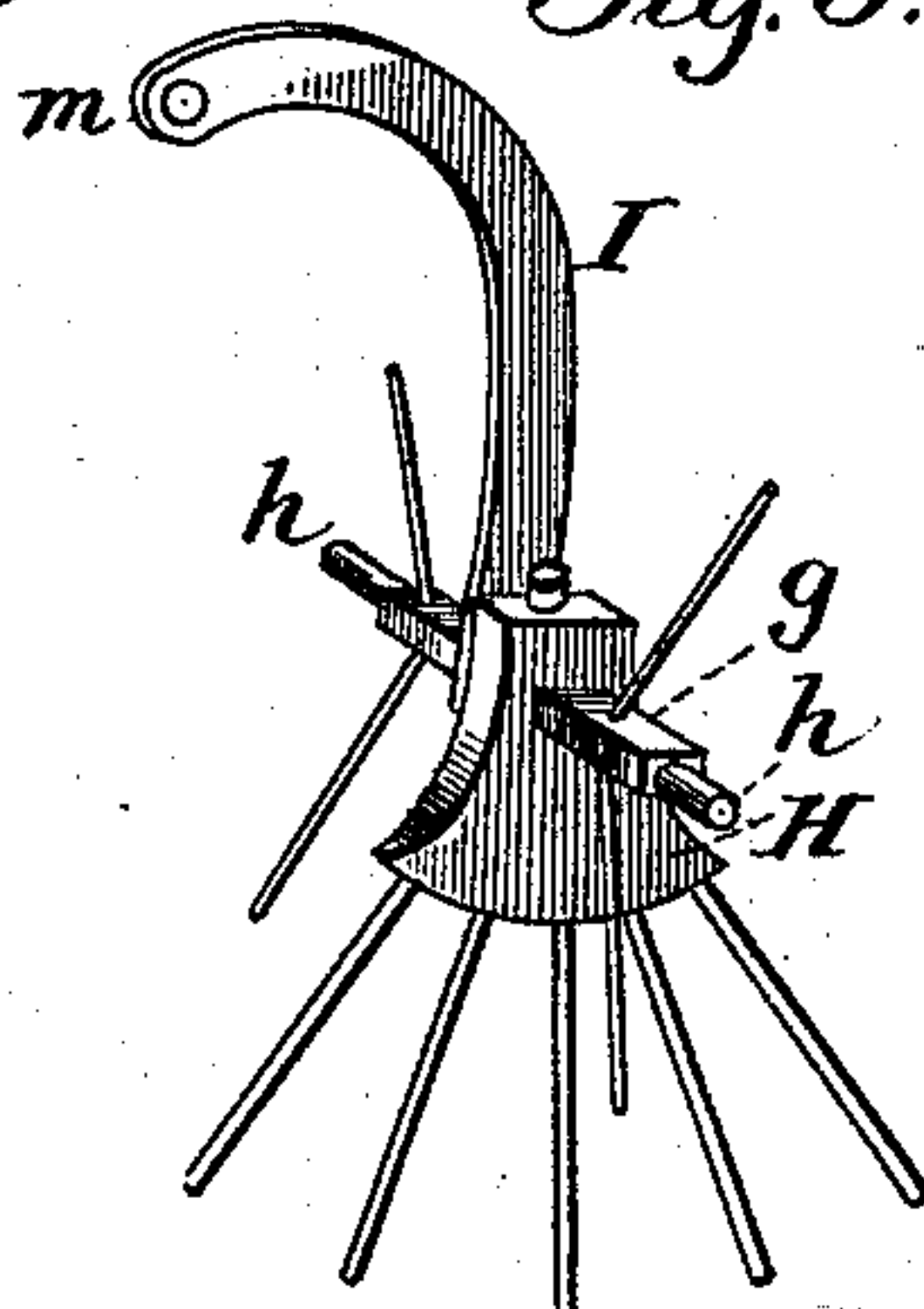


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

CORYDON W. SIMS, OF WAYNESBOROUGH, GEORGIA.

SEED-PLANTER.

SPECIFICATION forming part of Letters Patent No. 413,210, dated October 22, 1889.

Application filed January 8, 1889. Serial No. 295,809. (No model.)

To all whom it may concern:

Be it known that I, CORYDON W. SIMS, a citizen of the United States, residing at Waynesborough, in the county of Burke and State of Georgia, have invented certain new and useful Improvements in Seed-Planters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in combined cotton-seed, pea, and corn planters; and it has for its objects to simplify and improve upon previous devices of this character and to render them more durable and efficient in operation.

The invention in the present instance resides in the peculiarities of construction and in the novel combination, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly defined in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a side view of my device as arranged for cotton-seed planting. Fig. 2 is a like view of the hopper arranged for planting corn and peas. Fig. 3 is a perspective view of the agitator detached. Figs. 4, 5, and 6 are details which will be more particularly hereinafter referred to by letters of reference.

Referring now to the details of the drawings by letter, A designates the hopper, which may be of any suitable construction and shape, with its upper front portion formed on an incline, as shown, to allow of the better working of the connecting-rod. This hopper is suitably supported on the frame B, of any preferred construction. At the rear ends of the side bars of this frame are secured the standards *a*, to the upper ends of which are secured the handles *b*, the forward ends of which are secured to the side bars of the frame, as shown in Fig. 1. These handles are connected by the cross-bar *c*.

C is the plow, having its standard adjustably secured in a slot *d* in the block *e*, held between the forward ends of the side bars of the frame. Secured to the forward end of said block is a clevis D, which may be of any of the well-known forms of construction.

E E are spring-bars secured at one end to the under side of the side bars of the frame and extended to the rear thereof, and carrying at their rear ends the covering board or plate F, having at its center a notch or recess *f*, as shown in Fig. 1, in line with the furrow-wheel G. The furrow-wheel G is journaled in suitable bearings or boxes on the side bars of the frame in any suitable manner.

The agitator H is carried by a square shaft *g*, having round ends *h*, journaled in suitable boxes or bearings in the sides of the hopper. One side of the hopper is provided with a removable or hinged lower portion *j*, held to the side bar of the frame by suitable means, as the hook and staple *k* and *i*. (Shown in Fig. 1.) This portion is shown as swung upon its hinges in Fig. 2. Secured to the shaft of the stirrer or agitator is the curved pitman-rod I, the free end of which is formed with a suitable hole *m*, to which is detachably secured one end of the connecting-rod J, the opposite end of which is detachably secured to a crank in the shaft of the wheel G, so that in the revolution of said wheel the agitator is operated to agitate the seed in the hopper.

The device above described is specially designed for seeding cotton, and the above description refers to Fig. 1.

The machine may be readily converted into a pea or corn planter in the following manner: The rod J is disconnected from the shaft of the wheel and from the pitman-rod, and the said pitman-rod is pushed back into the position in which it is shown in Fig. 2, which throws forward the agitator, and the said pitman-rod and agitator are held in this position by means of the pivoted bar K, secured at one end to the top of the hopper and adapted to be swung in front of the pitman-rod, as shown, and be there secured in any suitable manner. The dropper plate or slide L is then fitted into the bottom of the hopper, which is provided with suitable guides therefor, and the connecting-rod J connected with the extension or arm *n* of said dropper-plate and

with the crank of the shaft of the furrow-wheel G, as shown in Fig. 2. The dropper-plate being removably secured in position enables it to be readily replaced by another, and
5 by having interchangeable plates a variety of seed may be dropped by simply forming the holes in the plate to suit the character of the seed to be planted.

M is a spring secured to the bottom of the
10 hopper and serving to cut off the corn or peas, and N is a plate secured above the opening to prevent the seed from dropping in between the spring and the end of the hopper.

Having thus described my invention, what
15 I claim to be new, and desire to secure by Letters Patent, is—

The combination, with the hopper, of the plate N, secured above the opening in the bot-

tom of the hopper, the spring M, secured within the hopper across one end thereof, above
20 one end of said plate, and at right angles to the said plate, the sliding dropper-plate working in guides in the bottom of the hopper and sliding in the plate N, the arm n, extending
25 through the opening in the bottom of the hopper and attached to the dropper-plate, and the rod J, connecting said arm with the crank of the furrow-wheel, substantially as shown and described.

In testimony whereof I affix my signature in
30 presence of two witnesses.

CORYDON W. SIMS.

Witnesses:

JOHN R. ROBINSON,
R. A. LAWSON.