

(No Model.)

C. A. BEERSTECHER.
CORN PLANTER.

No. 365,229.

Patented June 21, 1887.

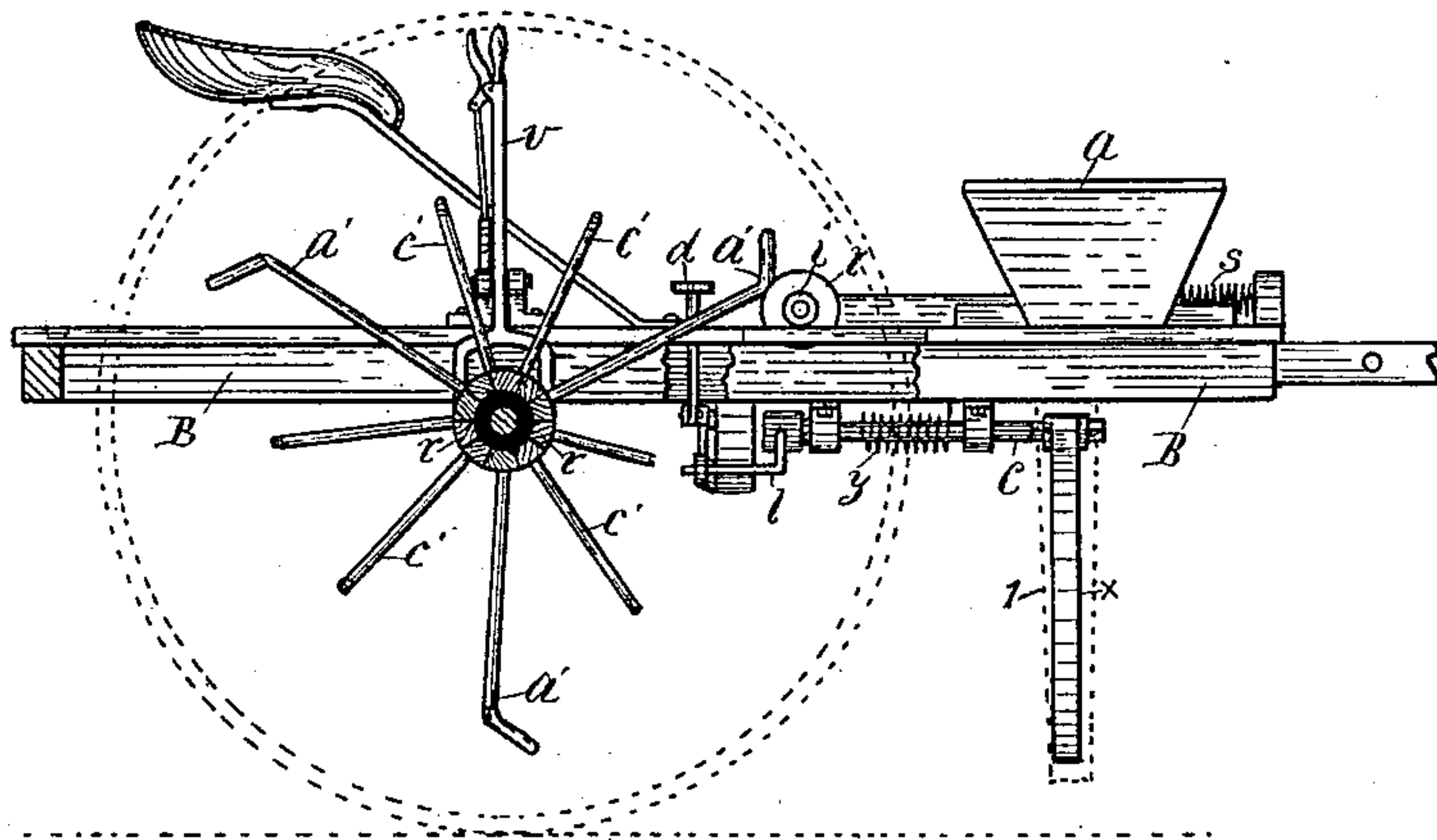


Fig. 1

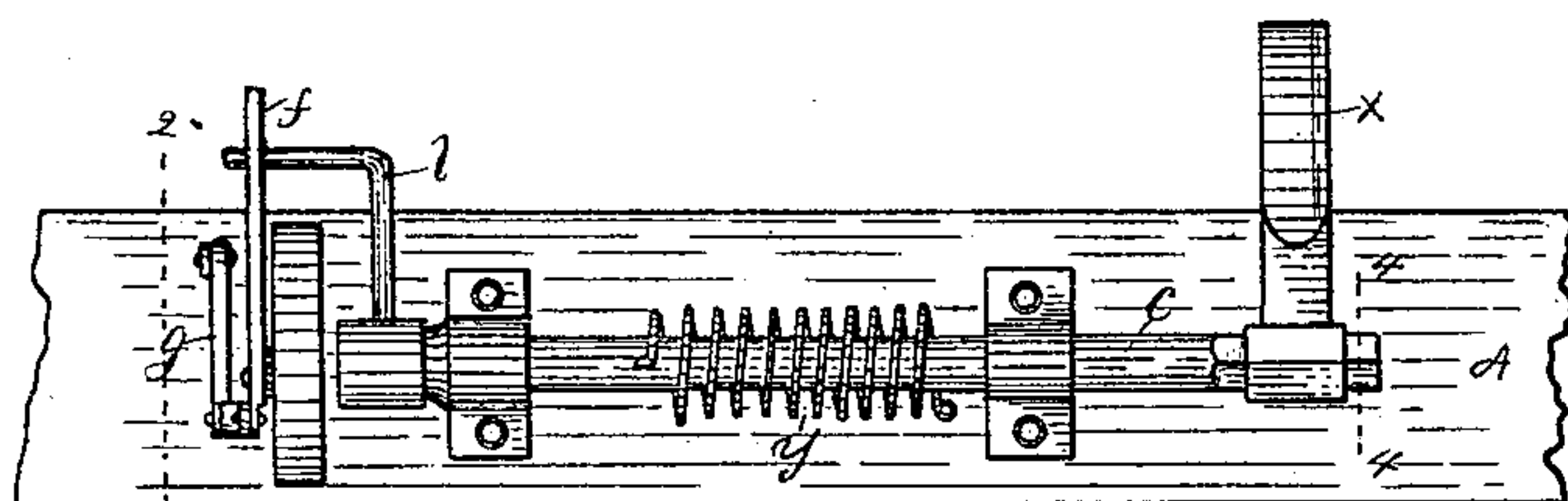


Fig. 3

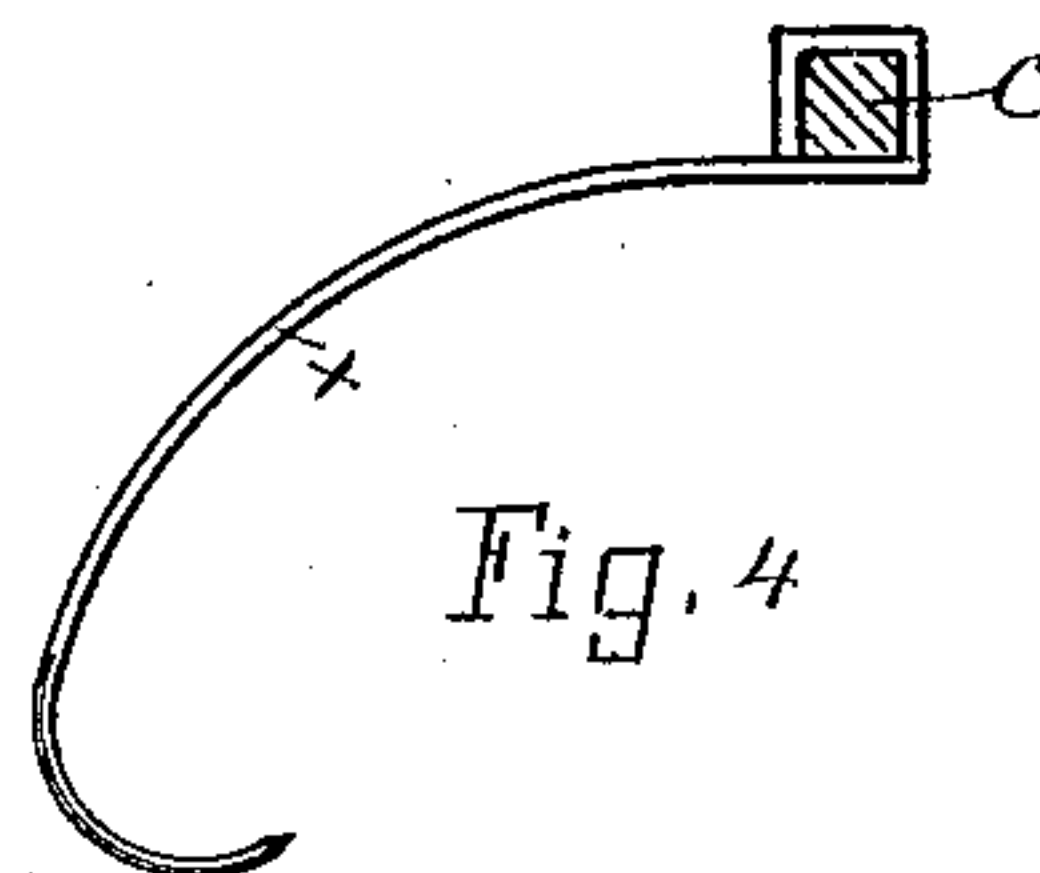


Fig. 4

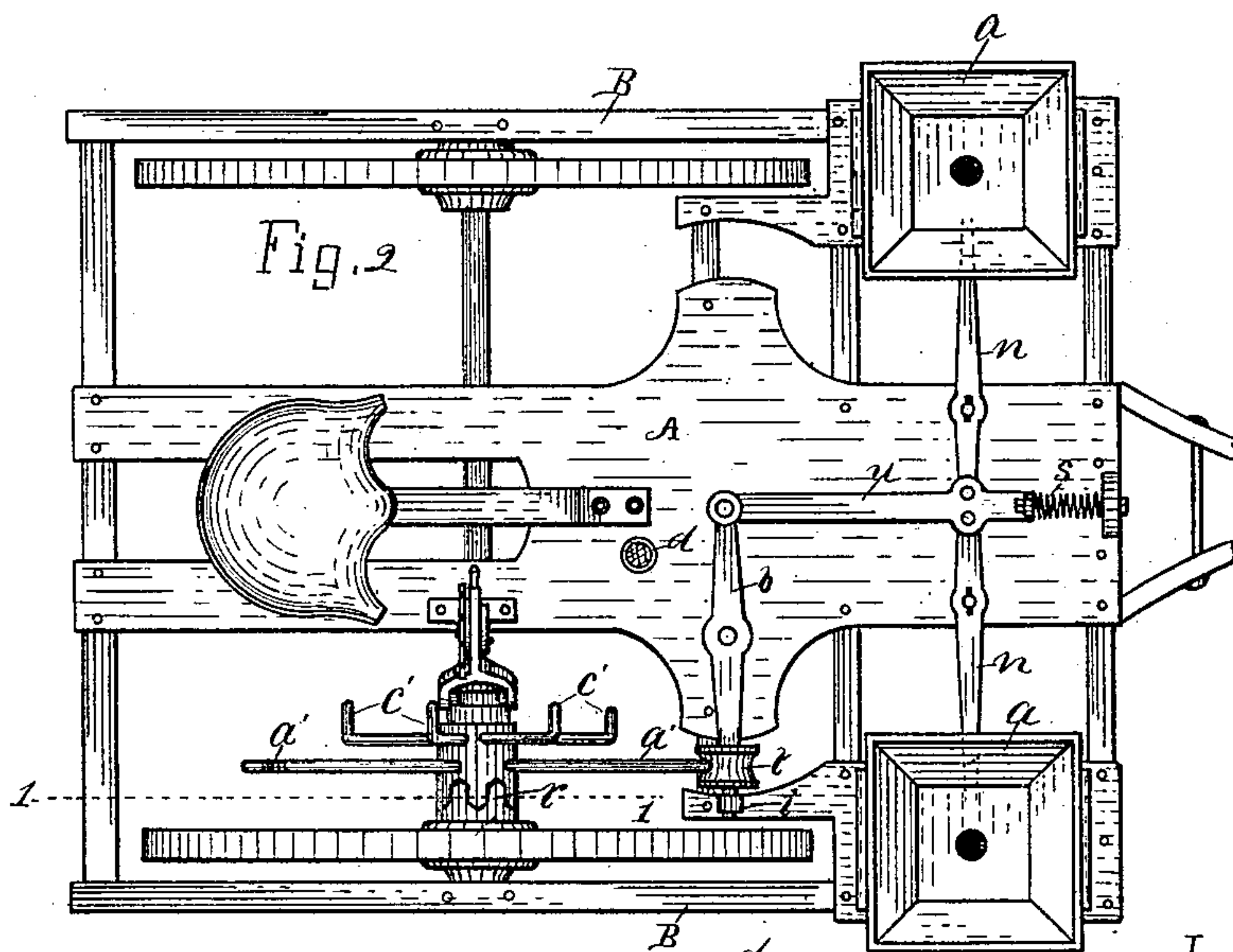


Fig. 2

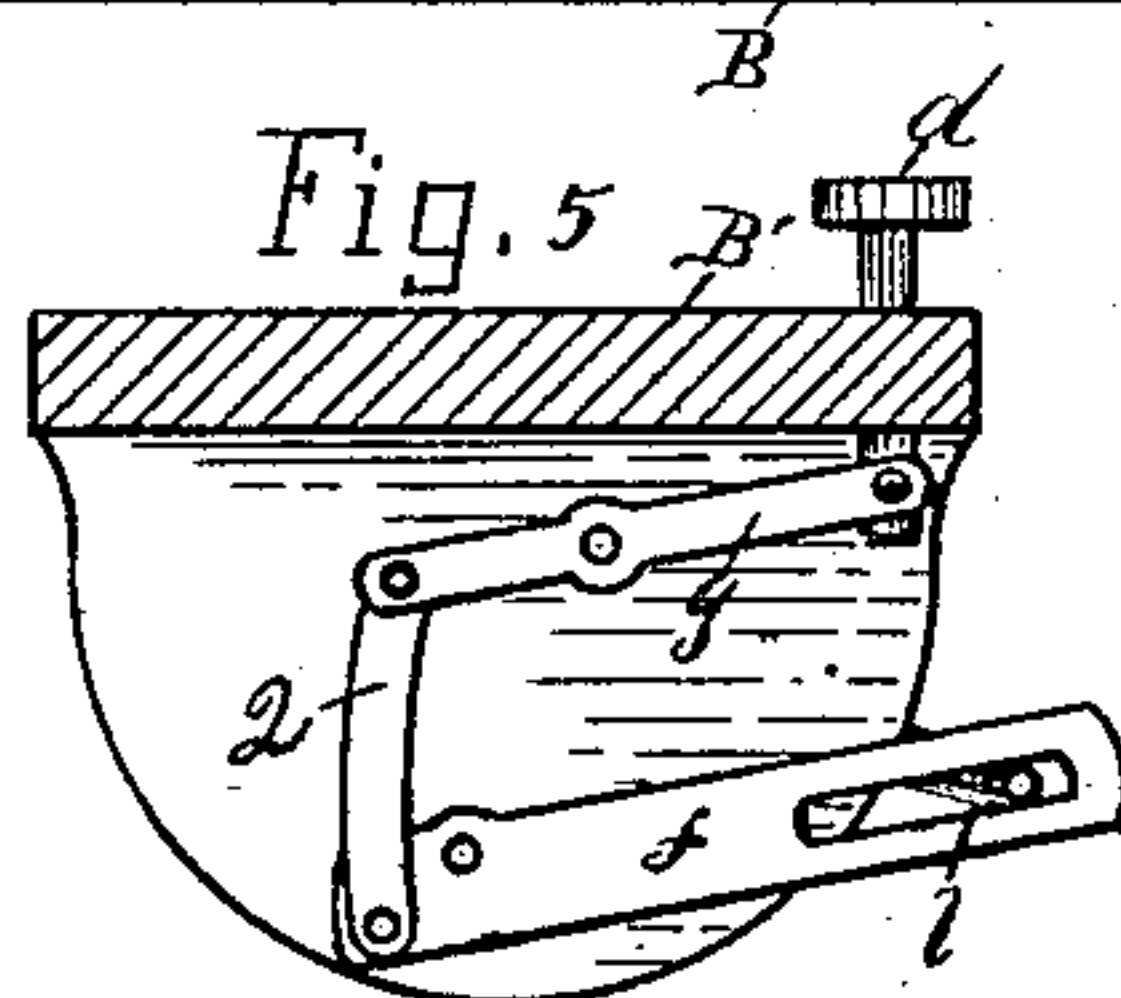


Fig. 5

Witnesses.
John B. Perkins
Charles Chase

Inventor.
Charles A. Beerstecher.
By Lucius C. West
Atty.

UNITED STATES PATENT OFFICE.

CHARLES A. BEERSTECHER, OF CENTREVILLE, MICHIGAN.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 365,229, dated June 21, 1887.

Application filed April 5, 1887. Serial No. 233,699. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BEERSTECHER, a citizen of the United States, residing at Centreville, county of St. Joseph, State of Michigan, have invented a new and useful Corn-Planter, of which the following is a specification.

This invention has for its object certain improvements in corn-planters, substantially as below described and claimed.

In the drawings forming a part of this specification, Figure 1 is a side elevation, with parts broken and parts in section, on the dotted line 1 1 in Fig. 2; Fig. 2, a plan; Fig. 3, an under view of lettered parts in Figs. 1 and 5, said parts being smaller in Fig. 1, and larger in Fig. 5, than in Fig. 3; Fig. 4, an elevation of a lettered part in Figs. 1 and 3 and a section on line 4 4 in Fig. 3, and Fig. 5 is an enlarged section on line 2 2 in Fig. 3 and showing certain details in elevation.

Referring to the lettered parts of the drawings, B is a frame mounted upon the wheeled axle and having the ordinary seed-boxes, *a a*. In these boxes are slides on the ends of the pivoted swinging levers *n n*, as heretofore, and will be understood without illustrating in detail.

u is a spring-actuated bar, (spring at *s*), to which the contiguous ends of the levers *n* are pivoted. To the end of the bar *u* is pivotally attached a lever, *b*. This lever is at right angles to the bar *u*, is nearly centrally fulcrumed to the floor A, and is provided at its free end with two rollers, *t i*. The friction-roller *i* contacts a portion of the slotted floor, and thus obviates an engagement of the lever *b* with the floor and prevents said lever from tilting down at this end. When the angled end of the fingers *a'* come in contact with the roller *t*, the lever *b* is swung on its pivot, and this action carries the bar *u* backward and operates the levers *n*, thus causing the corn to be dropped through the tubes 1, shown in dotted lines in Fig. 1. After the revolving finger *a'* has left the roller *t* the spring *s* brings the said levers and bar to their normal position again. The number and length of the fingers are controlled by the desired distance between the hills of corn, ordinarily said distance being four feet.

In the machine here shown there are three

fingers radiating from a sliding hub which is adapted to form a cog engagement with the cogged hub of the wheel, Fig. 2, (shown at *r*.) This hub, which is operated by the lever *v*, has a swiveled attachment to it, and is provided with radiating handles *c'*, having angled ends projecting laterally toward the driver's seat. These handles are used to revolve the sliding hub when disengaged from the wheel-hub, to bring one of the fingers *a'* in contact with or very near to the wheel *t* at the time when the machine is at the proper place to start the first hill of the row of corn. Then with the lever *v* the hubs are thrown into mesh and the machine started. Thus the rotation of the cogged wheel-hub causes the fingered hub to rotate and the fingers to be carried against the rollers *t* to operate the levers *n b* and bar *u*, as before explained. With this arrangement the field does not have to be marked off prior to planting to have the corn-row both ways, for the hills of one row are planted in line with the hills of the preceding row.

When the last hill of a row is planted, the driver presses down on the plunger *d* with his foot, which action rocks the shaft *c*, Figs. 1 and 3, and swings down the hook *x* into contact with the soil. As this hook is on a like horizontal plane with the tubes 1 its lower end marks the ground, so that the driver, after turning about, knows just where to start the next row, or, rather, the first hill of the next row.

At *y* is a spiral spring on the shaft *c*, having one end attached to said shaft and the other to the floor or frame of the machine. The end of the shaft is provided with an elbow-lever, *l*, the free end of which lever is inserted in the elongated slot of the pivoted lever *f*, Fig. 5. Above the lever *f* is a pivoted lever, *g*, which lever is pivotally attached to the lower end of the plunger *d*. The free ends of levers *g f*, beyond their pivots, are pivotally attached to the ends of a connecting-bar, 2. By this means the marker *x* is operated, and when the driver releases the plunger *d*, which he does very quickly after having pressed it down, the spring *y* rocks the shaft *c* in the reverse direction and swings the marker *x* up again.

Having thus described my invention, what I claim as new is—

1. In a corn-planter, the combination of the

sliding revoluble hub, the fingers radiating therefrom and provided with the angled ends, the pivoted lever provided with a roller adapted to be acted upon by said fingers, the spring-
5 actuated bar, and the levers for operating the slides in the seed boxes, substantially as set forth.

2. In a corn planter, the combination of the levers for operating the seed-box slides, the
10 spring-actuated bar, the lever bearing the roller, the sliding revoluble hub having the radiating fingers, with angled ends adapted to contact said rollers, and the radiating handles for adjusting said hub, substantially as set
15 forth.

3. The combination of the lever having the two rollers at the end for the purpose stated,

the levers for operating the slides of the seed-boxes, the bar connecting said levers, and the sliding hub adapted to engage the wheel-hub, 20 and provided with the radiating fingers having the angled ends, substantially as set forth.

4. A foot-plunger operatively connected with a spring-actuated rock-shaft, and the marker-hook attached to said shaft, in combi- 25 nation with means for dropping the corn, substantially as set forth.

In testimony of the foregoing I have hereunto subscribed my name in the presence of two witnesses.

CHARLES A. BEERSTECHEER.

Witnesses:

WILLARD N. HILL,
CHAS. L. STARR.