

No. 676,938.

Patented June 25, 1901.

O. DEAKINS.
HAND OPERATED CORN PLANTER.

(Application filed Nov. 15, 1900.)

(No Model.)

Fig. 1.

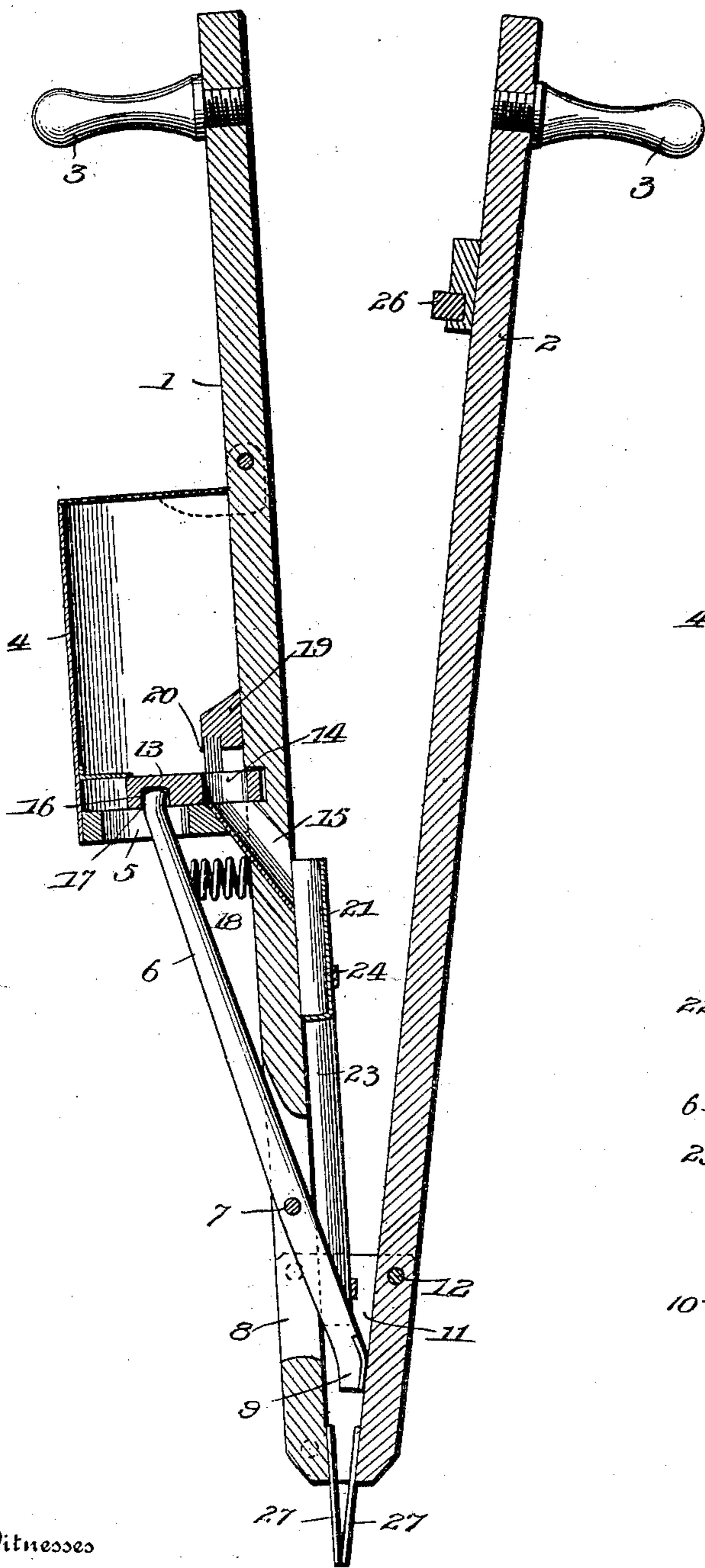
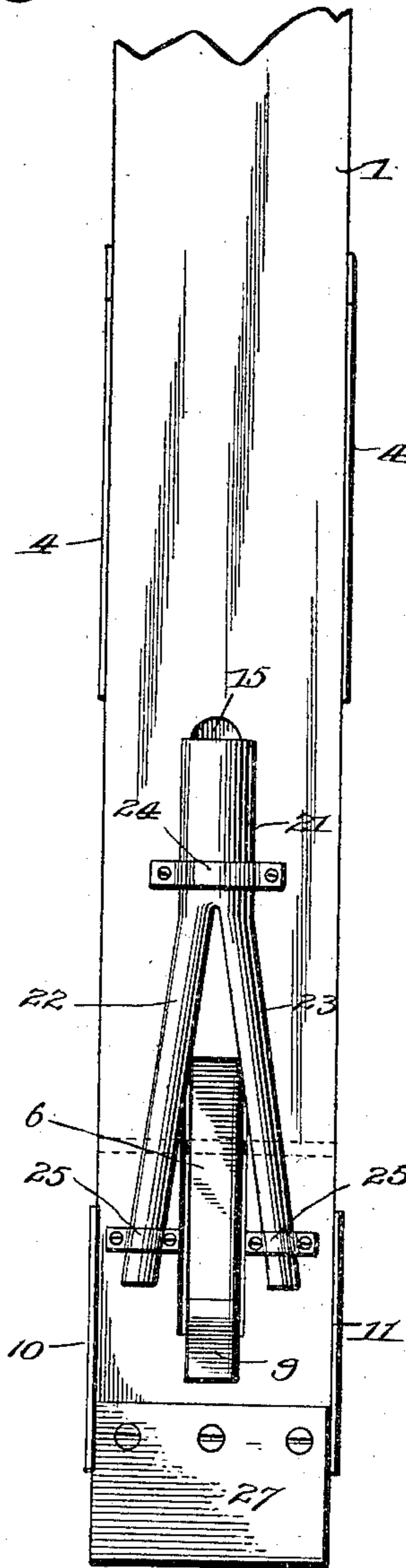


Fig. 2.



Inventor

Omer Deakins.
Victor J. Evans
Attorney

Witnesses
Harry J. Palmer
F. O. McElroy

By

UNITED STATES PATENT OFFICE.

OMER DEAKINS, OF SHELBYVILLE, KENTUCKY.

HAND-OPERATED CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 676,938, dated June 25, 1901.

Application filed November 15, 1900. Serial No. 86,626. (No model.)

To all whom it may concern:

Be it known that I, OMER DEAKINS, a citizen of the United States, residing at Shelbyville, in the county of Shelby and State of Kentucky, have invented new and useful Improvements in Hand-Operated Corn-Planters, of which the following is a specification.

My invention relates to hand-operated corn-planters; and one of its objects is to provide a planter of this character of such construction as will insure the proper separation of the corn.

A further object of the improved construction is to permit the operator to see the corn as it passes from the hopper.

Further objects are to provide a comparatively noiseless planter, to insure strength and durability, and generally to simplify and improve the construction of hand-planters.

The invention consists in the features of construction hereinafter fully described, and defined in the appended claims.

In the drawings, Figure 1 is a longitudinal section of a hand-planter embodying the invention; and Fig. 2 is an elevation of the inner side of one of the pivoted members of the planter, partly broken away at its upper end.

The reference-numerals 1 and 2 designate the pivoted blades or members of the device, each provided near its upper end with a handle 3. To the outer side of the member 1 is secured a box or hopper 4, which is adapted to contain the corn, and the bottom of this box is formed with an opening 5, through which extends the upper end of a lever 6, said lever being fulcrumed at the point 7 and extending through an opening 8 in the blade 1 and having its lower end 9 slightly curved and bearing against the inner surface of the blade 2.

To the opposite edges of the blade 1 are secured plates 10 and 11, which span the space between the lower ends of the two plates and are connected by a cross-pin 12, which passes through an opening in the blade 2 and serves as a fulcrum therefor.

13 designates a slide loosely supported upon the bottom of the box 4 and formed with an opening 14, which is adapted to register with a tube 15, which extends through an inclined opening formed in the bottom of the

box and the blade 1. The under surface of the slide 13 is formed with a recess 16, within which extends the upper end of the lever 6, said upper end of the lever being preferably provided with a reinforcing-cap 17. The lever 6 is connected adjacent its upper end by a spring 18 with the outer surface of the blade 1.

Above the slide 13, within the box 4, a block 19 is secured to the blade 1, and from said block depends a brush 20, against which the upper surface of the slide contacts as the slide is reciprocated.

From the inner side of the blade 1 is secured a discharge-chute 21, the lower portion of which is bifurcated to form branches 22 and 23. The upper end of the discharge-chute 21 is arranged opposite the lower end of the tube 15 to receive the corn therefrom, and the branches 22 and 23 straddle the lever 6. The discharge-chute, comprising the portions 21, 22, and 23, is secured in any suitable manner, preferably by keepers 24 and 25, which span the discharge-chute and are secured to the inner surface of the blade 1.

The blade 2 is provided on its inner side, near the upper end thereof, with a cushion or buffer 26, suitably secured to the blade and adapted to contact with the inner surface of the blade 1.

Each of the blades 1 and 2 is provided with a shovel-blade 27 at its lower end, adapted to enter the ground.

The operation of the mechanism constructed as above described will be readily understood. The box 4 is supplied with corn or seed to be planted, and by the manipulation of the blades 1 and 2 the lever is turned upon its pivotal supports 7 to reciprocate the slide 13. The corn which enters the opening 14 in the slide passes through the tube 15 to the discharge-chute 21, where it divides and passes downward through the branches 22 and 23, thus insuring an effectual separation and distributing the corn properly in the hill.

The brush 20 prevents clogging and insures a proper feed of the corn or other seed to the discharge-chute.

An important characteristic of the invention is that the operating mechanism is carried entirely by the blade 1, leaving the blade 2 free and unobstructed, thus permitting the

operator to see the corn as it passes out of the branches 22 and 23. This construction also permits the blade 2 to be readily removed to permit of repairs or renewal of the mechanism.

I claim—

1. In a hand-planter, the combination with blades pivotally secured together; of a box or hopper secured to one of said blades; a slide within the box; a lever extending through an opening in the blade to which the box is secured, bearing against the inner side of the other blade at its lower end, and attached at its upper end to said slide; a spring for retracting the lever; and a discharge-chute bifurcated to insure the separation of the corn.

2. In a hand-planter, the combination with two blades pivotally secured together; of a box secured to the outer side of one of said blades; a slide within said box; a lever extending through an opening in the blade below the box and having its upper end projected through an opening formed in the bottom of the box and connected with the slide; an inclined discharge-tube extending through the bottom of the box and through the adjacent blade; a discharge-chute formed with

depending branches; a spring for retracting said lever; and a buffer interposed between the two blades.

3. In a hand-planter, the combination with two blades pivotally secured together; of a box secured to the outer side of one of said blades; a slide movably supported within the box and formed with an opening and on its under surface with a recess; a lever extending through an opening formed in the blade below the box and through the opening formed in the bottom of the box; the upper end of said lever projecting into the recess of the slide, while its lower end is adapted to bear against the adjacent blade; an inclined discharge-tube adapted to register with the opening in the slide; a brush within the box adapted to come in contact with the slide; and a discharge-chute, the upper end of which is arranged adjacent to the lower end of the inclined tube, said chute being bifurcated to form diverging branches.

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

OMER DEAKINS.

Witnesses:

W. J. DEAKINS,
C. S. BASKETT.