

No. 630,020.

Patented Aug. 1, 1899.

J. A. ADAMS.
HAND PLANTER.

(Application filed Oct. 29, 1898.)

No Model.

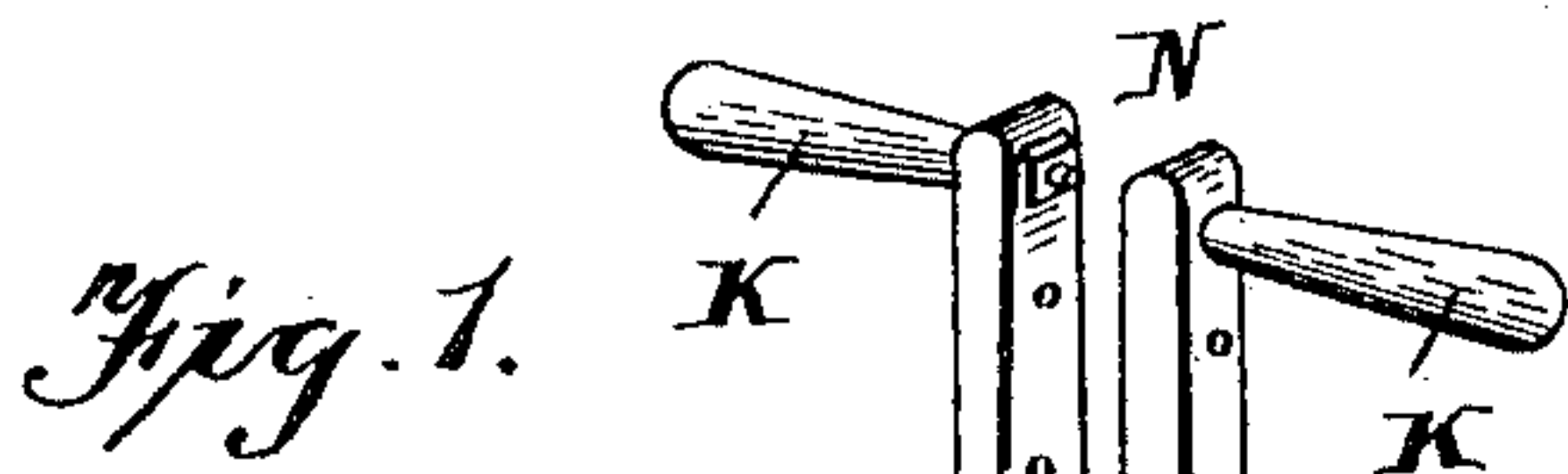


Fig. 2.

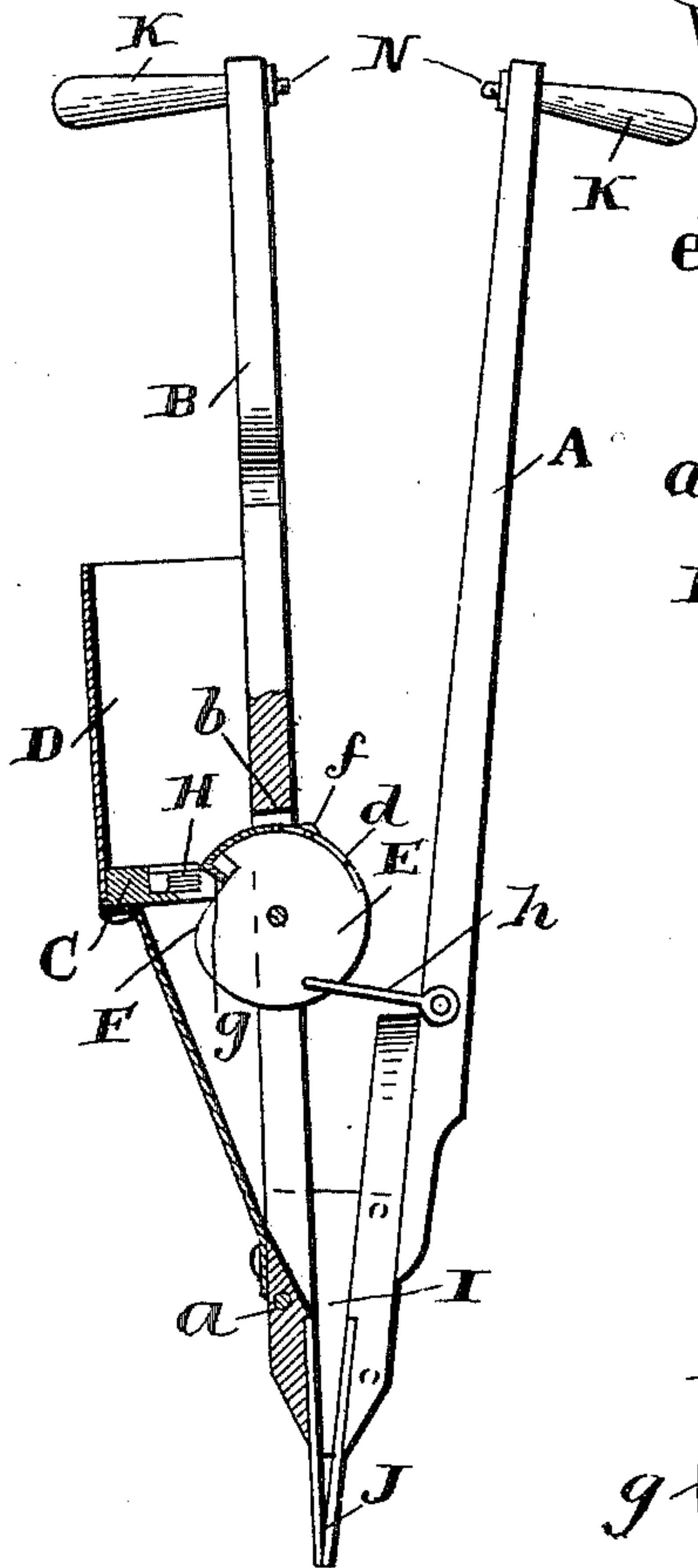
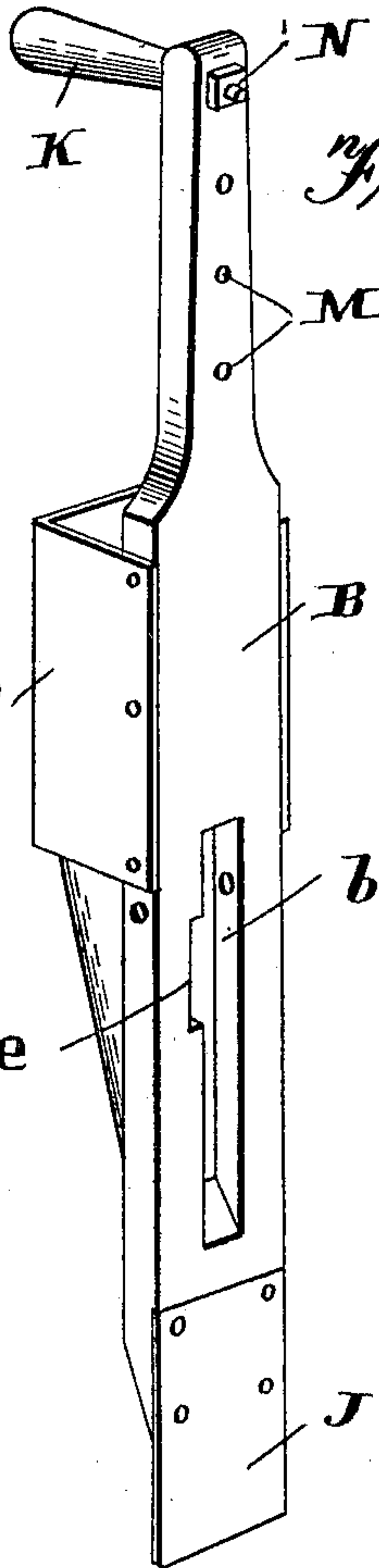
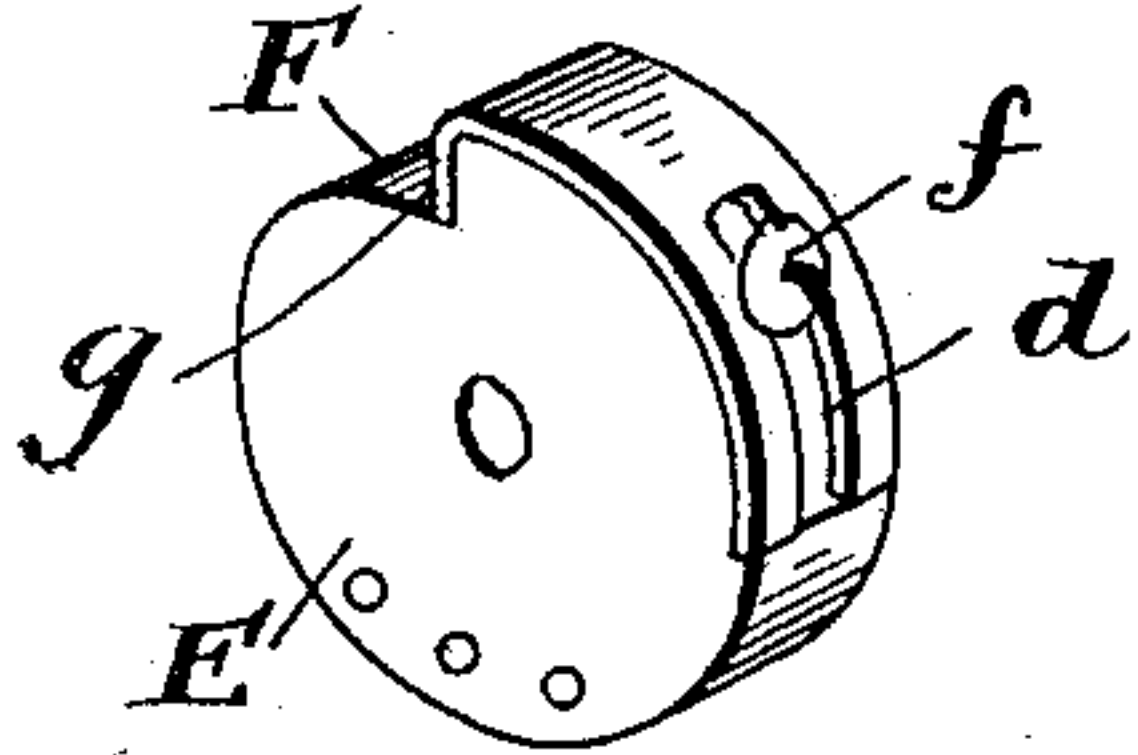


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

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HAND-PLANTER.

SPECIFICATION forming part of Letters Patent No. 630,020, dated August 1, 1899.

Application filed October 29, 1898. Serial No. 694,942. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. ADAMS, a citizen of the United States, residing at Salyersville, in the county of Magoffin and State of Kentucky, have invented new and useful Improvements in Hand-Planters, of which the following is a specification.

My invention relates to improvements in hand-planters, and pertains to a planter comprising two parts pivoted together having their upper ends formed into a handle and their lower ends provided with nose-pieces below their pivotal points for insertion in the earth and then to open to form a hole and at the same time to dump into the opening formed a predetermined quantity of seed, all of which will be fully described hereinafter and particularly pointed out in the claims.

The object of my invention is to provide a simple hand-planter consisting of two parts pivoted together near their lower ends and to provide an oscillating feed-wheel in one part connected by a link to the other part and to have the feed-wheel provided with a notch adjustable by means of a plate, and a brush situated to form, together with the feed-wheel, the bottom of the hopper, and to provide a slot in the part carrying the wheel and a plate forming a chute for closing the said slot to convey the seed to a receiving-receptacle formed at the bottom of the two parts.

In the accompanying drawings, Figure 1 is a perspective view of a planter embodying my invention. Fig. 2 is a vertical central longitudinal sectional view of the same. Fig. 3 is an inside view of that member or handle which carries the feed-wheel. Fig. 4 is an enlarged detached perspective view of the feed-wheels.

Referring now to the drawings, A and B indicate two members or handles pivoted together at the point *a*, near their lower ends. The part B is provided with a longitudinal slot *b*, and projecting from the outer side of the member or handle B is a U-shaped shelf C. This shelf is situated at or opposite the upper end of the slot *b*, and the shelf forms the bottom of the hopper D. This hopper D consists of simply a U-shaped metal plate having its side attached to the edges of the member B and fitting around the shelf C, the

latter forming the bottom thereof, as before stated.

Pivotaly supported in the upper end of the slot *b'*, with its upper periphery adjacent the upper end of the slot *b*, is a feed-wheel E. This feed-wheel E is provided with a notch F, which forms a pocket for receiving the desired number of seeds to be fed at each operation of the planter. In order to regulate the number of seeds fed at each operation of the planter, I provide a curved plate G, having a longitudinal slot *d*, through which a clamping-screw *f* passes, the curved plate having an inturned end *g*, forming one end wall of the recess in the feed-wheel. This recess is cut tangentially upon the periphery of the wheel, whereby one abrupt wall is formed, and the inturned end of the plate forms an adjustable abrupt wall, whereby the size of the recess may be varied according to the number of seeds to be fed, as will be readily understood.

A brush H extends inward from the outer wall of the U-shaped shelf C and of a length to engage the periphery of the wheel, and thus form, together with the recess in the wheel, a bottom for the hopper when the planter has the two members or handles forced together. When they are separated, the brush serves to permit only the number of seeds to be fed which can be carried by the recess, brushing off the superfluous seeds, or, in other words, preventing any of the other seeds in the hopper passing into the chute therebelow.

The slot *b* in the member B is provided with a recess *e* in one of its vertical walls, which allows a pitman or link *h* to move therein, one end of this link or pitman having an inturned end engaging an opening in the wheel and its opposite end flexibly connected with the member or handle A. By means of this construction each time the handles are operated to or from each other the feed-wheel is given an oscillation equal to the length of the recess in the feed-wheel.

Plates I are secured at one edge to opposite edges of one of the pivoted members, the opposite edges of the plates being pivoted to opposite edges of the other member at the point *a*. These plates I form a receptacle at the lower

end of the pivoted members or handles, into which the seed drop through the chute, and projecting from the lower ends of the members A and B are the plates J. When the handles are moved together at their upper ends, the recess is in a position to receive the seed, and the plates forming the nose of the planter are then forced into the ground. When the handles are moved together, the plates are separated, forming an opening in the ground, and the seed which has dropped into the receptacle I, below the hopper, are allowed to drop into the opening formed by plates J. It will be noted that when the handles are separated at their upper ends the nose of the planter (which is formed by the plates J) forms the bottom of the receptacle I and holds the seeds that are dropped therein until the plates are separated, and when they are separated the feed-wheel is moved to be again charged with the seed from the hopper.

The upper ends of the members A and B are provided with laterally-projecting hand-pieces K, and the upper members A and B are provided with a corresponding vertical series of openings M, through which the bolts N for securing the handles in position pass. This construction enables the handles to be adjusted to any desired height for suiting persons of various ages and heights, which is very essential in planters of this character.

A planter constructed as above described is simple and effective in operation and cheap to produce.

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

1. A reciprocating hand-planter comprising two vertical members pivoted together near

their lower ends and provided with projecting nose-pieces and side plates I, forming a receptacle or chamber at the lower end of the members, one of the members provided with an elongated longitudinal slot *b*, a feed-wheel journaled in the upper end of the slot, the slot extending below the feed-wheel and communicating with the said receptacle at the lower ends of the pivoted members, a hopper at the outside of the slotted member and having an inwardly-projecting bottom, the feed-wheel having a peripheral recess, said inwardly-projecting bottom having a brush, the brush serving to form part of the bottom of the hopper and to coact with the feed-wheel and the peripheral opening therein, as described, a chute inclosing the outer side of the elongated slot and the lower portion of the feed-wheel, and a link having one end connected directly to the feed-wheel and the opposite end pivotally connected with the other member, substantially as described.

2. A corn-planter comprising two pivoted members, one member having a longitudinal slot, a feed-wheel situated in the upper end of the slot, one side wall of the slot provided with a recess, a U-shaped shelf C, a link flexibly connected at one end to one member and its opposite end connected with the said feed-wheel through and movable in the said recess, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN A. ADAMS.

Witnesses:

T. J. ARNETTI,
ERNEST ATKESON.