

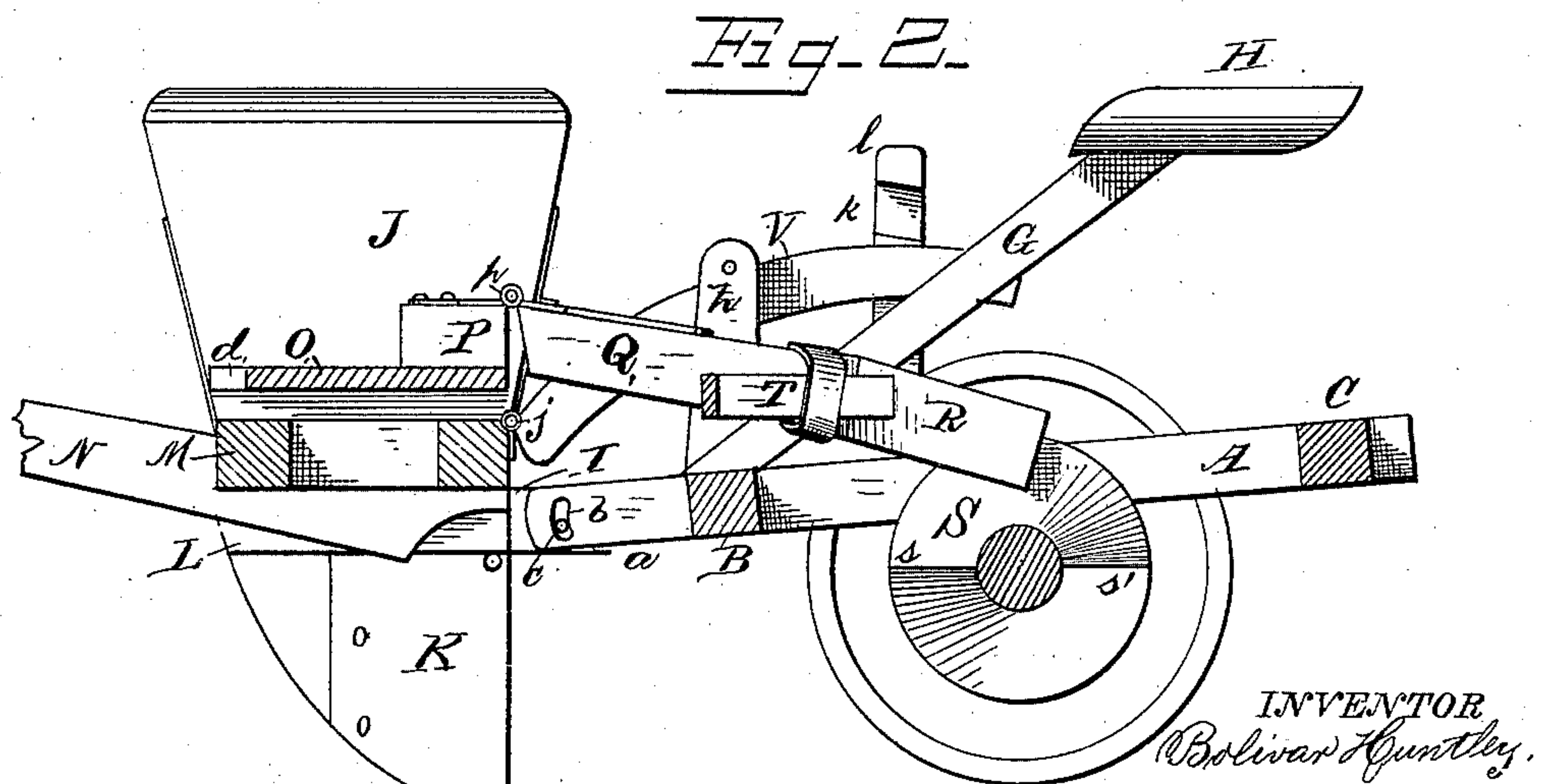
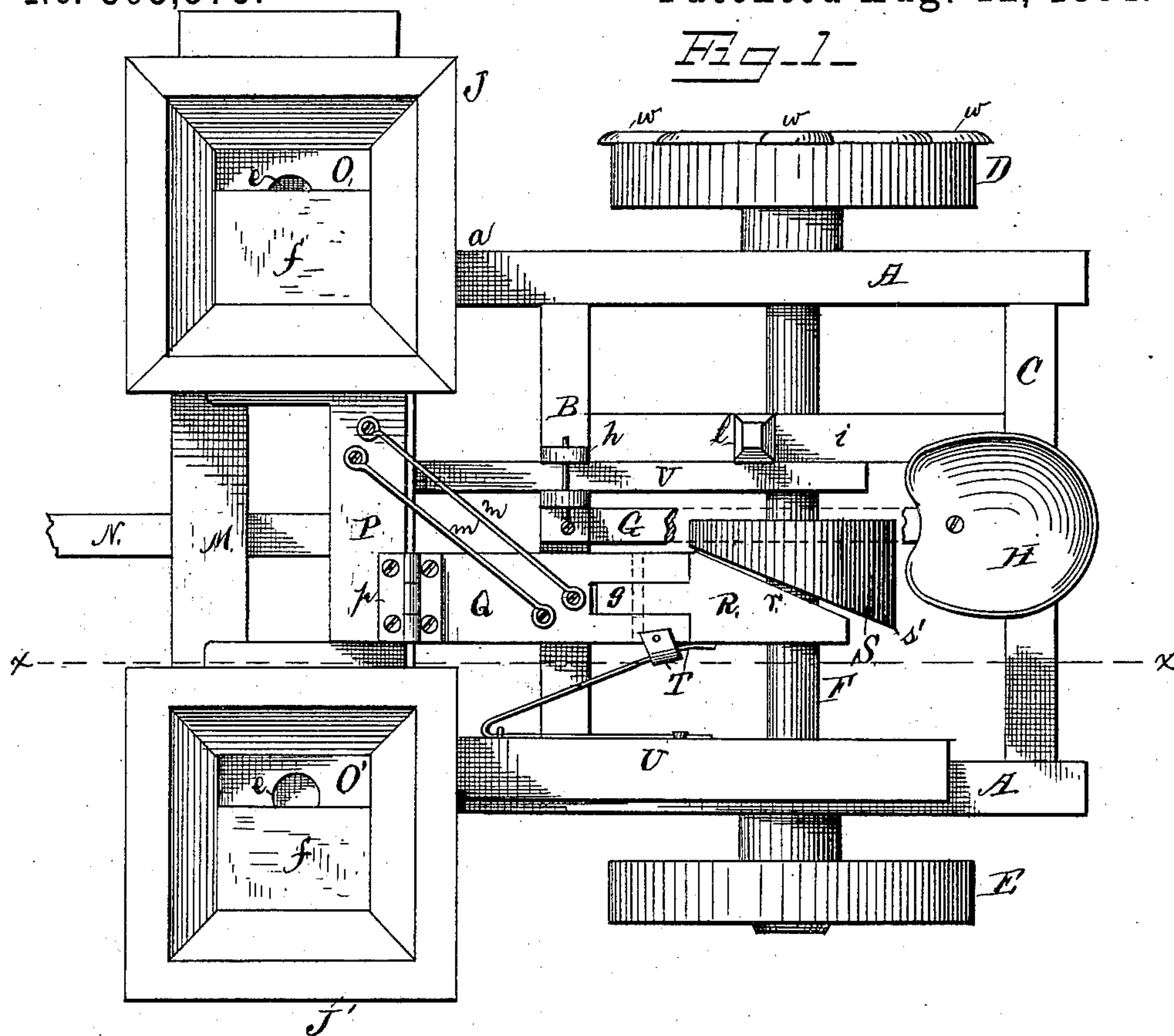
(No Model.)

B. HUNTLEY.

## CORN PLANTER.

No. 303,573.

Patented Aug. 12, 1884.



**WITNESSES**

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# UNITED STATES PATENT OFFICE.

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## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 303,573, dated August 12, 1884.

Application filed November 8, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, BOLIVAR HUNTLEY, a citizen of the United States of America, residing at West Bend, in the county of Palo Alto, and State of Iowa, have invented certain new and useful Improvements in Corn-Planters; and I do hereby 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 letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to corn-planters; and it consists in the improved construction and combination of parts hereinafter fully described, whereby the reciprocation of the seed-slides is rendered positive, the operation of said slides suspended automatically on any rearward movement of the planter, and the elevation and ascent of the seed hoppers and drills with respect to the main frame of the planter readily effected.

In the accompanying drawings, forming a part of this specification, Figure 1 is a plan view of a corn-planter constructed in accordance with my invention, and Fig. 2 a longitudinal section on the line *x x* of Fig. 1.

The main frame of the machine, consisting of the side bars, A, and front and rear bars, B C, is supported upon the carrying-wheels D E, mounted upon the projecting ends of and turning with the axle F, journaled on the under side of said frame. An inclined bar, G, is secured at its lower forward end to the front bar, B, of the main frame, and has secured to its upper end the driver's seat, H. The front ends, *a*, of the side bars, A, of the main frame project for a short distance beyond the front bar, B, and are provided with curved vertical slots *b*, in which rest pins *c*, projecting from the inner sides of extensions I at the rear of the frame, carrying the seed-hoppers J J' and drills K. The said seed-hoppers J J' are rigidly secured at the outer ends of a frame, L, to the under side of the front bar, M, of which is secured to the rear end of the draft-tongue N. The slides O O' rest in the bottoms of the hoppers J, the sides of which are provided with slots *d*, to permit the transverse reciprocation of said slides in said hoppers. Suit-

able perforations, *e*, in each slide, in conjunction with cover-plates *f f*, located in the bottoms of the hoppers, effect the feed and cut-off of the grain. The said seed-slides O O' are connected at their inner ends by a bar, P, to which is hinged by hinge *p* a bar, Q, which extends back of the front bar, B, of the main frame, and has a vertical recess, within which is pivotally secured the tongue *g* of a block, R, the inner face, *r*, of which is beveled, as shown in Fig. 1. A cam-disk, S, having cam-shoulders *s s'*, is rigidly mounted on the shaft F, so that as the same is revolved in a forward direction the shoulders of said cam will strike the beveled face *r* of the pivoted block R, and thereby intermittently force the bar Q toward one side of the machine. The connection of said bar Q with the bar P, connected to the feed-slides O O', will cause a like movement of said feed-slides O O', so that the perforations *e e* thereof will pass under and be covered by the plates *f* in the bottom of the hoppers, at which time the grain contained in said perforations will be fed to the drills while the perforations are inaccessible to the body of the grain within the hopper. As the cam-shoulders *s s'* pass from contact with the beveled face *r* of the block R, an expanding leaf-spring, T, secured to the inner side of a bar, U, (resting upon the upper face of one of the side bars, A,) and also secured to the side of the bar Q, effects the return of said bar Q and block R, and consequently the feed-slides O O', to their first position. The bar Q and block R are so inclined that only the outer end of the beveled face of said block comes in contact with the cam, as seen in Fig. 2; hence the position of said block R is such that should the cam be rotated in a reverse direction, the shoulders *s s'* of the same, abruptly coming into position instead of gradually, as before, would strike the under side of said pivoted block R and lift the same without effecting any lateral movement thereof, and hence no reciprocation of the feed-slides. A curved lever, V, fulcrumed in a post, *h*, located on the front bar, B, of the main frame, is secured at its front end by hinge-connections *j* to the frame L, so that the said lever can be operated from the seat to lift the said frame L with respect to the main frame, the slot and pin connections *b c* permitting such



vertical movement of said frame L, together with the hoppers and seed-drills, which may be rigidly held in either position by causing the lever V to enter and rest in recesses  $k$  therefor in the side of a post,  $l$ , mounted on a bar,  $i$ , of the main frame.

In order to effect the proper elevation or descent of the frame L and appurtenances, it is necessary that the lever V be located near the center of the machine and accessible from the driver's seat. This compels the location of the cam S centrally or toward one side of the machine, and hence the bar Q is connected to the bar P much nearer the hopper J' than the other hopper, J.

To equalize the unequal connection-rods  $m$ , they are connected at one end to the upper side of the bar Q and at the other end to the upper side of the bar P, near the hopper J.

The carrying-wheel D is provided on its outer side with a series of radial bosses,  $w$ , which project a short distance beyond the periphery of said wheel, and act as markers.

From the foregoing it will be apparent that a corn-planter constructed in accordance with my invention will effect the planting with cer-

tainty; that the feed devices will be automatically thrown out of operation upon a rearward movement of the machine, and that the elevation of the seed-drills with respect to the ground can be easily effected by the driver from his position on the seat without interfering with the draft, which is conveyed to the main frame from the hopper-frame.

I claim—

The combination, in a corn-planter, of a main frame mounted upon carrying-wheels D E, turning with the axle F, a cam-disk keyed on said axle, a bar, Q, connected to a bar, P, attached to the seed-slides, a block, R, pivoted to the bar Q, and adapted to be struck by said cam-disk on the forward rotation of the same, for transversely reciprocating said seed-slides, spring T, and rods  $m$ , diagonally connecting the bar P and the bar Q, substantially as and for the purpose set forth.

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

BOLIVAR HUNTLEY.

Witnesses:

B. E. FIELDS,  
S. BOOKMAN.