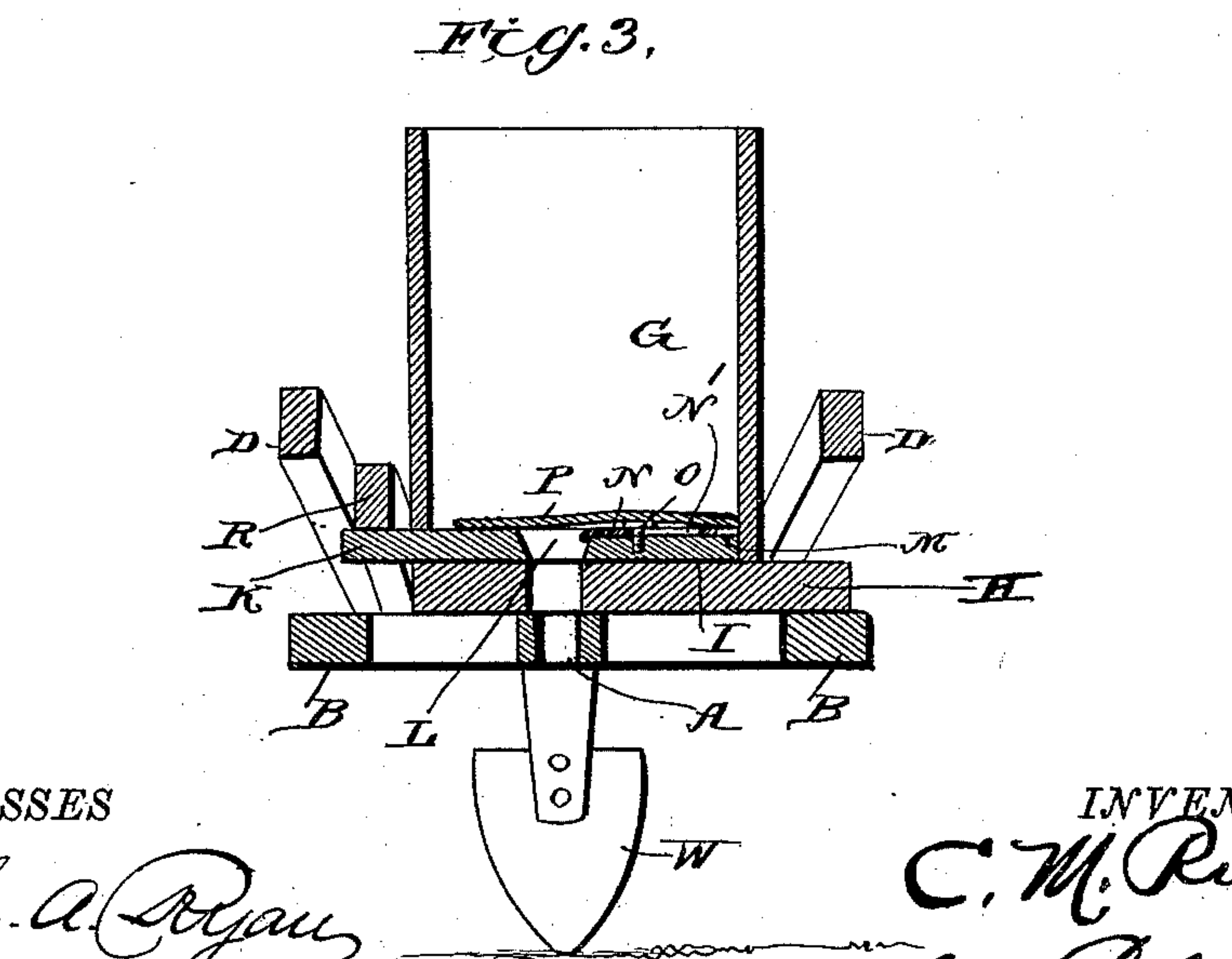
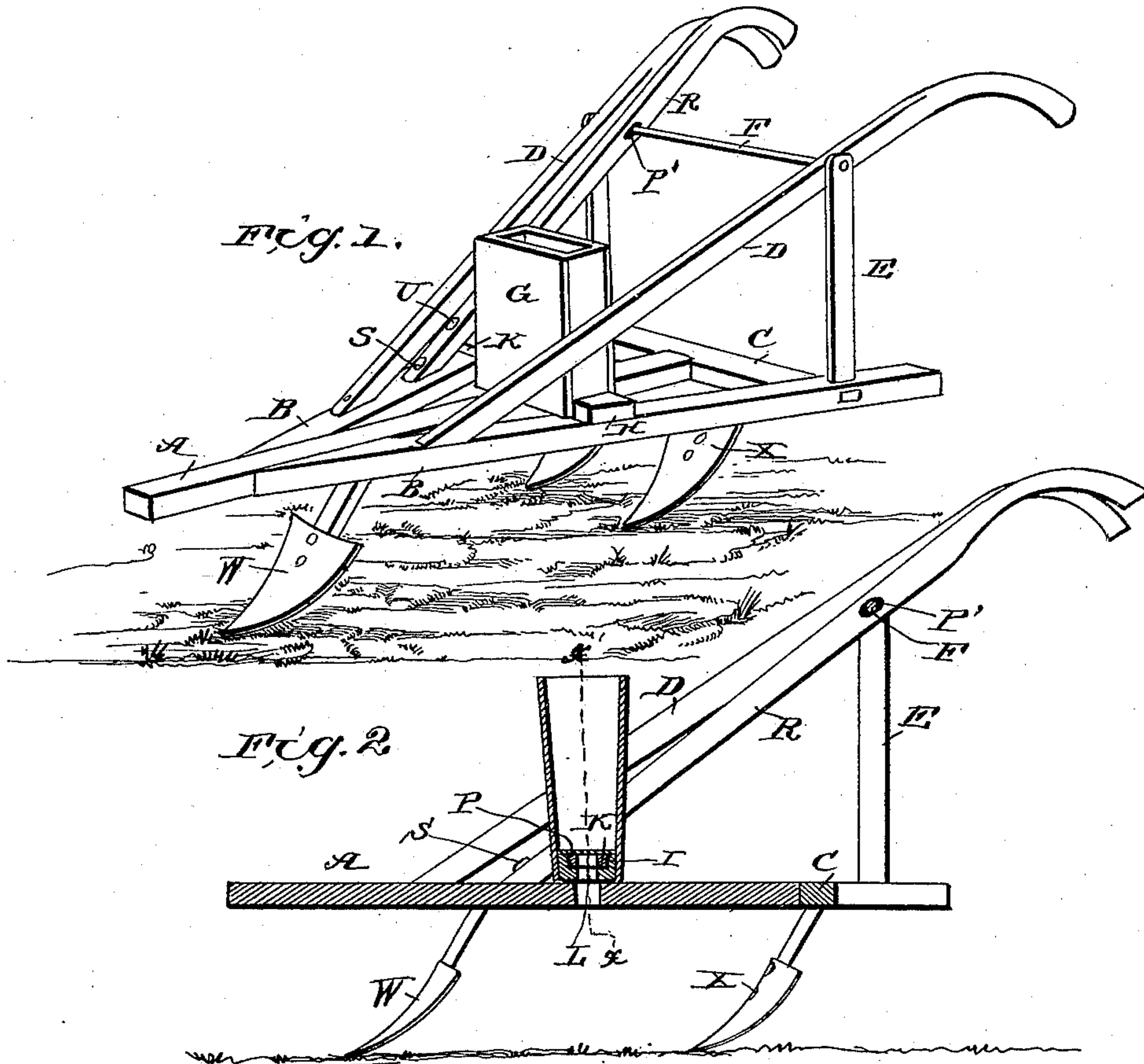


(No Model.)

C. M. RUST.  
CORN PLANTER.

No. 395,356.

Patented Jan. 1, 1889.



WITNESSES  
*Joseph A. Ryan*  
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Attorneys



# UNITED STATES PATENT OFFICE.

CHARLES MCFARLAND RUST, OF ROCKY FORK, WEST VIRGINIA.

## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 395,356, dated January 1, 1889.

Application filed March 22, 1888. Serial No. 268,154. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES MCFARLAND RUST, a citizen of the United States, residing at Rocky Fork, in the county of Kanawha and State of West Virginia, have invented a new and useful Improvement in Corn-Planters, of which the following is a specification.

My invention relates to an improvement in corn-planters; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of a corn-planter embodying my improvements. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a vertical transverse sectional view of the same taken on the line  $x x$  of Fig. 2.

A represents a central longitudinal beam. B represents a pair of rearward-diverging beams, which have their front ends bolted to opposite sides of beam A at suitable distances from the front end of the latter, and C represents a cross-bar which has its central portion mortised to the rear end of the beam A, and has its ends mortised to the beams B at a suitable distance from the rear ends of said beams.

D represents a pair of handles, which are similar to plow-handles, have their front ends secured to the front ends of beams B, and have their rear ends supported by vertical standards E, which project from the rear portion of beams B. A cross-bar, F, connects the upper ends of standards E and extends through the handles D.

G represents a hopper, which is supported on the beam A and on one of the beams B, and has a bottom, H, the upper side of which has a transverse groove, I. K represents a seed-slide, which extends through an opening in one side of the hopper and fits in the groove I. The said seed-slide is provided with a seed cup or opening, L, which is adapted to register with the discharge-opening in the bottom of the hopper when the slide is moved in one direction, and said seed-slide is further provided at its upper side with a shallow groove, M, one end of which communicates with the opening or cup L.

N represents an adjusting-plate, which is

arranged in the shallow groove M, and has one end turned downward at right angles in the opening or cup L. Said plate is provided with a longitudinal slot, N', in which is a clamping-screw, O, which engages the slide, by means of which screw the plate may be secured at any desired adjustment. By moving said plate in or out upon the slide the size of the opening L or cup may be reduced or increased to any desired extent, according to the number of grains to be planted in each hill. On the upper side of the bottom H, and extending across the seed-slide, is secured a plate, P, which forms the false bottom of the hopper. Said plate does not extend entirely across the bottom of the hopper, and consequently leaves the opening or cup L in the seed-slide exposed when said seed-slide is moved outward, and said opening or cup does not register with the discharge-opening in the hopper. It will be observed that this plate or false bottom extends over nearly the entire bottom, so as to take the weight of the corn entirely off the slide. It also covers the adjusting-plate and prevents the corn collecting in the slot therein and under the false bottom, so as to interfere with the efficient operation of the machine. It will also be observed in Fig. 3 that said plate P forms a spring guide or director for the seed-slide and holds the latter down on the floor of the hopper. The plate rises or arches up centrally in order to relieve the slide as much as possible from the grain.

R represents an operating-lever, which has its front end pivoted to one of the beams B by a bolt, S, and is provided at a suitable distance from its rear end with a slot, P', through which extends the cross-bar F. The projecting end of the seed-slide is pivoted to said operating-lever by a bolt, U.

From the foregoing description it will be readily understood that the operator by grasping the lever R with one hand may move the same laterally at every step or at every alternate step, according to the distance required between the hills, and thereby drop seeds from the hopper to the ground.

W represents a furrow-opener, which depends from the central beam, A, and is adapted to open a furrow, and X represents a pair of

covering-plows which depend from the cross-beam C, and are adapted to cover the seeds dropped in the furrow.

5 A corn-planter thus constructed is extremely cheap and simple, is very easily operated, and will be found of great utility for planting corn, beans, peas, or other seeds that are dropped in hills.

10 I am aware that it is not broadly new to construct a corn-planter comprising a frame having a furrow-opener and covering-plows, a seed-slide, and a lever shaped similarly to the guiding-handles of the frame and connected with the seed-slide to operate the latter; but

15 What I do claim, and desire to secure by Letters Patent, is—

20 In a planter, the combination, with the main frame, the handles D, secured thereto, the cross-bar F of the handles, and the hopper having in its bottom the groove I and a

suitable discharge-opening, of the seed-slide having a discharge-opening, L, and shallow longitudinal groove M, the slotted plate N, adjusted by the screw O, the spring-guide 25 plate and protector P, arching up centrally above the seed-slide to relieve the same from the weight of the grain that might impede its motion, and the lever-handle R, pivoted at S on the main frame, connected at U to the seed-slide, provided with the slot P', by means of which it is supported and guided between the handles and prevented from being displaced or removed by the adjacent handle D, substantially as specified. 35

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

CHARLES MCFARLAND RUST.

Witnesses:

J. B. RUST,  
W. S. ROSE.