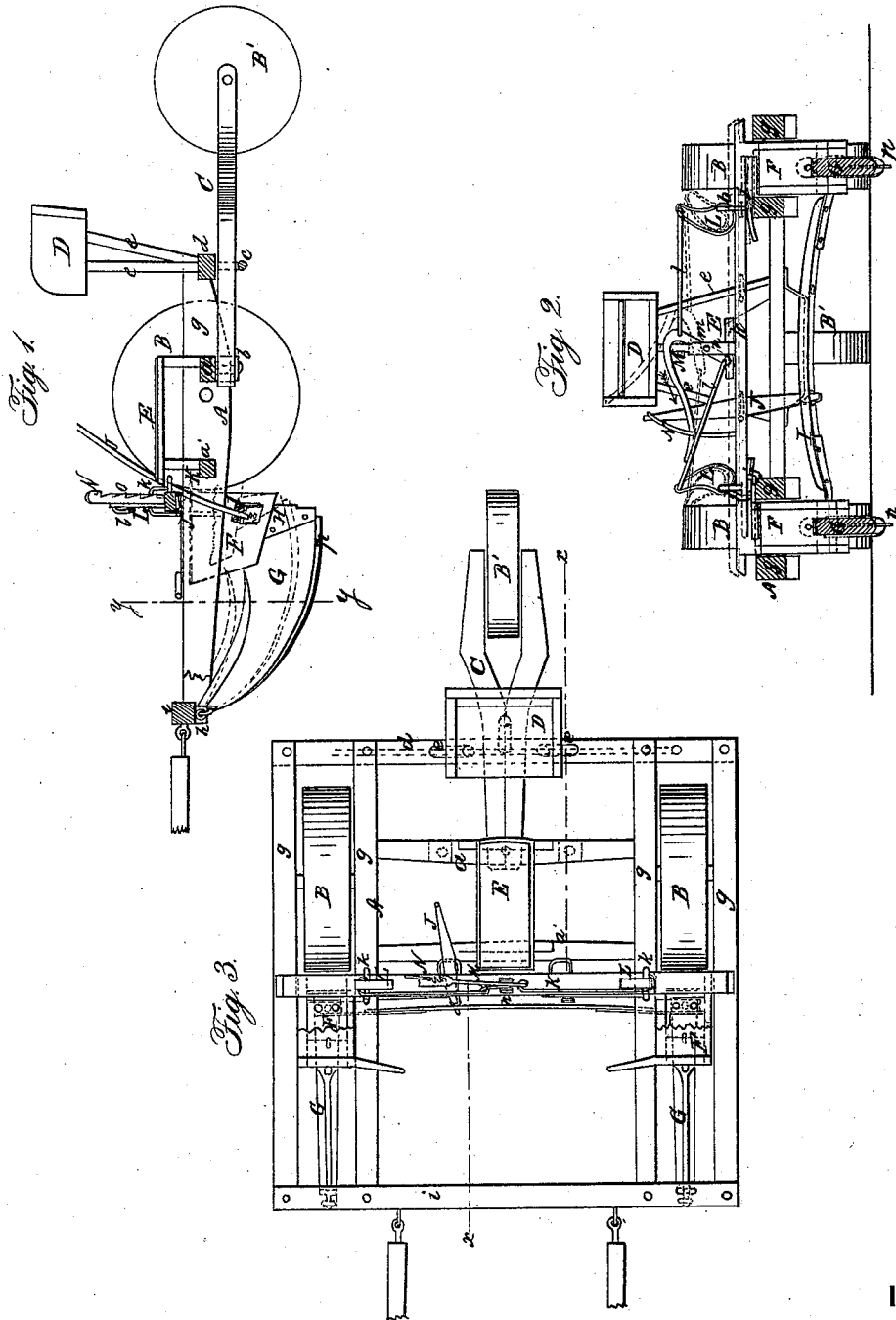


W. E. CHESNEY.

Corn-Planter.

No. 46,637.

Patented Mar. 7, 1865.



Witnesses:

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# UNITED STATES PATENT OFFICE.

W. E. CHESNEY, OF ABINGDON, ILLINOIS.

## IMPROVED CORN-PLANTER.

Specification forming part of Letters Patent No. 46,637, dated March 7, 1865.

*To all whom it may concern:*

Be it known that I, W. E. CHESNEY, of Abingdon, in the county of Knox and State of Illinois, have invented a new and Improved Corn-Planter; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 3; Fig. 2, a front sectional view of the same, taken in the line *y y*, Fig. 1; Fig. 3, a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

The invention consists in a novel means for adjusting the furrow-shares so that the same may be elevated above the surface of the earth, or retained at a greater or less height according to the depth of furrow required, the parts being so arranged as to admit of the driver or dropper adjusting the shares with the greatest facility.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the frame of the machine, which is of rectangular form and mounted on three wheels, B B B'. The wheels B B are at the back part of the frame A, one at each side of it, and the wheel B' has its axle in a fork at the back end of a bar, C, the front end of which is connected to the center of a cross-bar, *a*, of the frame A by a bolt, *b*, the bar C being allowed to turn freely on the bolt *b*, and working in a guide, *c*, at the under side of the back cross-bar, *d*, of the frame A.

D is the driver's seat, which is supported by posts *e*, attached to the back cross-bar, *d*, of the frame A, and E is the dropper's seat, which is attached to the cross-bar *a* and a cross-bar, *a'*, in front of and parallel with *a*, said dropper's seat being between the wheels B B. (See Figs. 1 and 3.)

F F represent the seed-boxes, which are fitted between two longitudinal and parallel bars, *g g*, at each side of the frame A. These seed-boxes are allowed to slide or work freely up and down between said bars, and they are attached to the back ends of furrow-shares G G, which are curved similar to sled-runners,

as shown clearly in Fig. 1. The front ends of the shares G G are connected by joints *h h* to the front cross-bar, *i*, of the frame A, and at the back end of each furrow-share there is a seed-conveying spout, H, and these spouts are in line with holes in a slide, I, when said holes are by the movement of the slide brought in proper position to discharge the seed which they contain. The slide I is perforated with two holes near each end, the ends of the slide working in the seed-boxes F F. This slide I is worked or operated by a lever, J, by a person on the seat E, commonly termed a "dropper."

The seed-dropping arrangement is precisely similar to the ordinary plans, in which a reciprocating slide is used for the purpose, and it therefore does not require a special description.

The upper parts of the seed-boxes F F are connected by a bar, K, which is above the frame A, and rests upon spiral springs *j j*, attached to the inner bars, *g*, at the sides of the frame A. These springs *j* have a tendency to keep the bar K and the furrow-shares G G elevated, so that the latter will be above the surface of the earth.

L L represent two cams, which are fitted on staples *k k*, driven one in the inner bar, *g*, at each side of the frame A, and over the bar K. These cams may be described as being of pear-shape, as shown in Fig. 2, and they are connected by rods *l l* to a lever, M, which has its fulcrum *m* in an upright, *n*, at the center of bar K. The rods *l l* are connected to the lever M at opposite sides of its fulcrum *m*, as shown in Fig. 2.

N is a curved or segment bar, having teeth or notches *o* at one side of it to hold the lever M in different positions. By moving this lever M in the direction indicated by arrow 1 the bar K and the back parts of the furrow-shares G G will be forced down a greater or less distance, according to the adjustment of said lever, and the furrow-shares made to penetrate into the earth to a greater or less depth, as may be desired. When the lever M is freed from the notched bar N, the springs *j j* will force the bar K and furrow-shares G G upward, so that the latter will be above the surface of the earth. The frame A is held in a firm position to admit of this adjustment of the furrow-shares in consequence of the driver's and dropper's

seats D E being at the back part of the frame A, and the wheel B' extending some distance back at the rear of the machine. The front part of the frame A by this arrangement is prevented from tilting under the action of the springs j or cams L L.

The lever M may be operated either by the driver or dropper, and the furrow-shares adjusted with the greatest facility without the necessity of the operator getting off from the machine. In consequence of having the wheel B' arranged as shown the machine may be turned with the greatest facility, as said wheel is allowed to adjust itself to the direction of the movement of the machine.

I would remark that I design to have the edges of the furrow-shares G provided with cutters p for the purpose of cutting weeds and

trash which may lie in their path, and thereby insure a perfect operation of the furrow-shares.

I do not claim the seed-dropping mechanism, for that is old and well known; neither do I claim the cutters p, attached to the furrow-shares, for they have been previously used; but,

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

The cams L L and lever M, in combination with the bar K, seed-boxes F F, and springs j j, all arranged to operate as herein set forth.

W. E. CHESNEY.

Witnesses:

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