2 Sheets—Sheet 1.

C. WOODS.

CORN-PLANTER.

No. 192,612. Patented July 3, 1877.

Fig. 1.

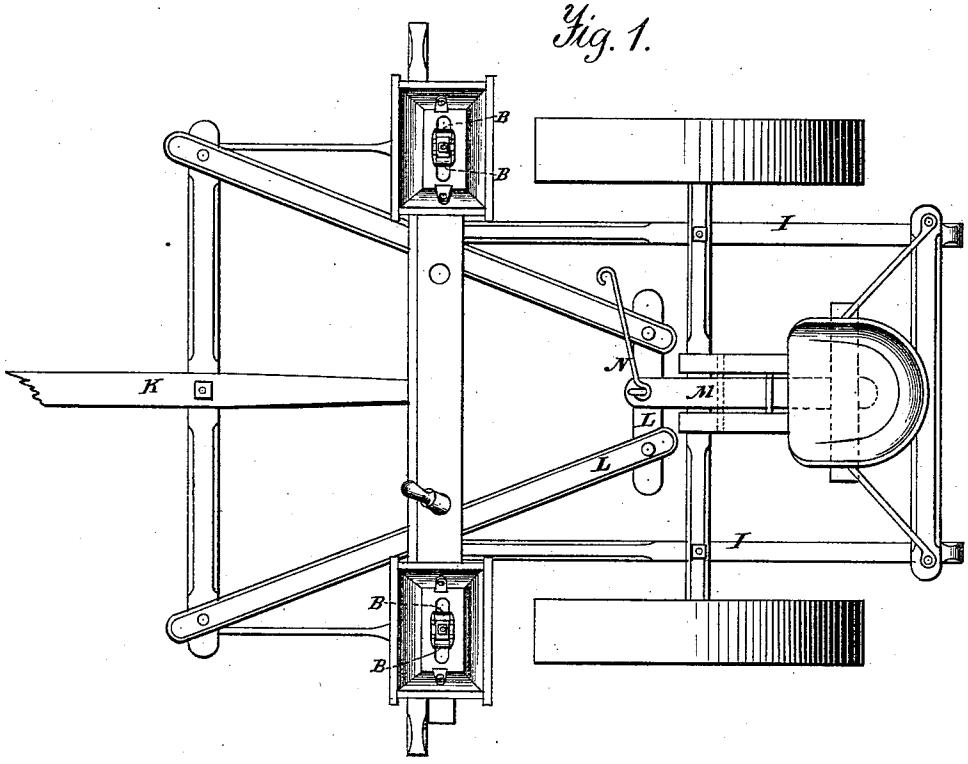
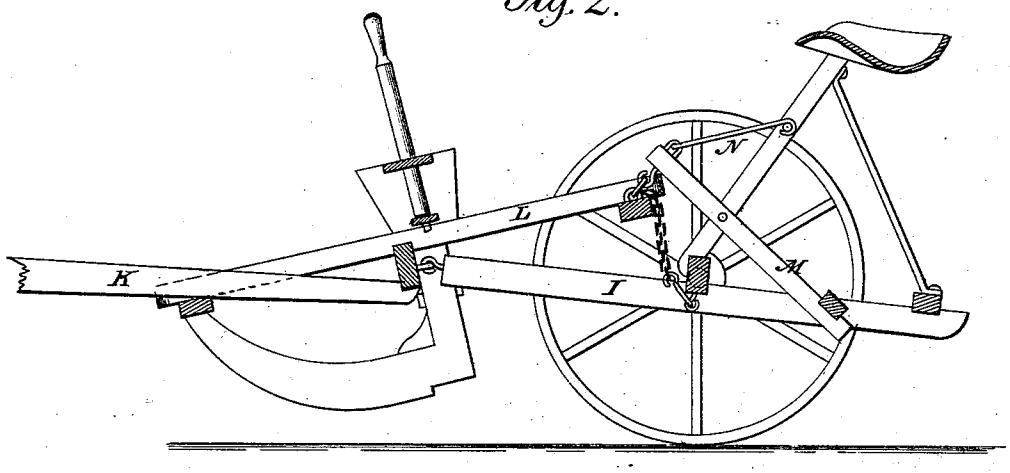


Fig. 2.



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2 Sheets—Sheet 2.

C. WOODS.

CORN-PLANTER.

No. 192,612. Patented July 3, 1877.

Fig. 3.

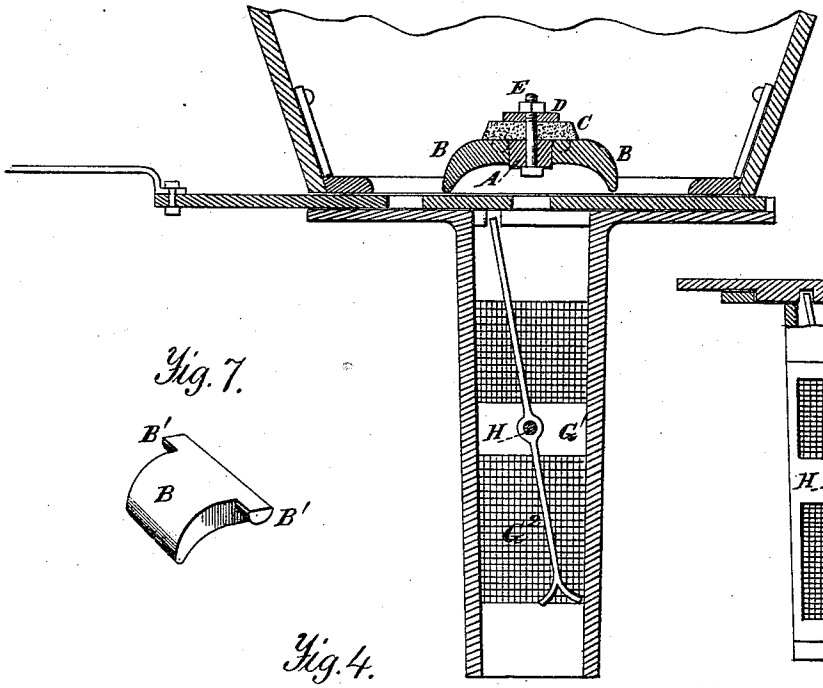


Fig. 6.

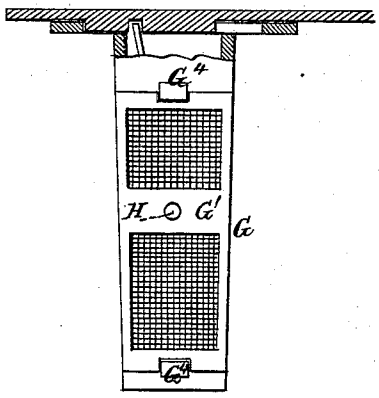


Fig. 7.

Fig. 4.

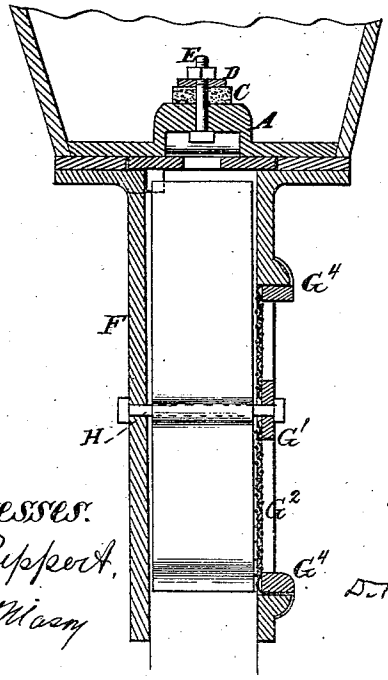
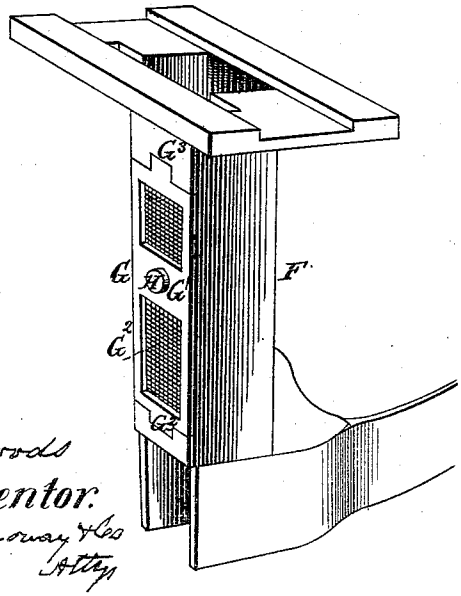


Fig. 5.



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UNITED STATES PATENT OFFICE.

COLUMBUS WOODS, OF SPRINGFIELD, ASSIGNOR TO JOHN A. CHESNUT, OF SAME PLACE, AND A. McKIM DUBOIS, OF CARLINVILLE, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **192,612**, dated July 3, 1877; application filed March 13, 1877.

To all whom it may concern:

Be it known that I, COLUMBUS WOODS, of Springfield, in the county of Sangamon and State of Illinois, have invented new and useful Improvements in Corn-Planters, of which the following is a specification:

In the annexed drawings, making part of this specification, Figure I is a plan view of a corn-planter. Fig. II is a vertical longitudinal section. Fig. III is a vertical transverse section of one of the seed hoppers and tubes. Fig. IV is a vertical longitudinal section of the same. Fig. V is a perspective view of the seed-tube. Fig. VI is a sectional elevation of the seed-tube, showing the manner of actuating the dropper-valve. Fig. VII is a perspective view of one of the valves of the cut-off.

The same letters are used in all the figures in the designation of identical parts.

The corn-planter is of the usual form of the well-known check-row planter in very general use, and it does not require to be explained further than to bring distinctly into view the points of novelty claimed.

The cut-off plate is furnished with a bridge, A, which extends across the seed-opening and supports the cut-off. This consists of two valves, B B, turning upon lugs B′ B′, having their bearings on the cut-off plate on each side of the seed-opening. The valves are placed in such relation to the bridge that their square shoulders shall bear against the bridge and prevent the points from quite touching the seed-plate. Over the bridge, and extending partly over the valves, I place an india-rubber block, C, which will hold down the valves normally, but yield to any lifting action of the seeds carried in the holes in the seed-plate sufficiently to allow them to pass under the point of the valve. On the rubber spring is a washer, D, and a single bolt, E, passing down through washer, spring, and bridge, holds all the parts in their proper position.

The wire-gauze G^2, or other transparent screen used in the seed-tubes, is attached in the following manner: It is fastened to a frame, G, having a central bar, G^1, and on the end bar lugs G^3, which project into recesses formed in the seed-tube. Instead of having lugs on the frame, the recess may be on the frame and the lugs on the seed-tubes, as shown at G^4. The frame is fastened to the seed-tubes by a single rod or bolt, H, passing through the board F, and through the front of the seed-tubes. This bolt also serves as a pivot for the oscillating dropping-valve. The lugs and recesses prevent the lateral displacement of the frame.

The frame I, supported on the wheels, is connected by eyelets with the frame L, supported on the runners. A foot-lever, M, passing through under the seat, serves to lift the runners out of the ground, supporting the frame on the wheels and the tongue K.

It is desirable to support the runners entirely in transporting the machine, and it is therefore better to have means of supporting it otherwise than by the weight of the driver. It is sometimes desirable to lift them for an instant only, and then it is best that they should be free to fall as soon as released by the foot of the operator.

To provide means for supporting the front frame when desired, and to avoid the inconvenience of an automatic catch, which would hold them up when not desired, I attach a hooked rod, N, to the foot-lever M, which, when the front frame is raised, may be hooked to a cross-brace rod under the seat, supporting the frame.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The cut-off valves B B, turning on lateral lugs B′ B′, and normally supported by the intermediate bridge A, in combination with the single spring C and central bolt E, substantially as set forth.

2. In combination with the seed-tubes, the screens and frames G, with lugs to prevent lateral movement, and rod H, passing through the central bar of the frame and the seed-tube, substantially as set forth.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

COLUMBUS WOODS.

Witnesses:

A. DUBOIS,

HOWARD K. WEBER.