

2. Sheets, Sheet 1.

J. Schott,

Corn Planter.

No. 111,979.

Patented Feb. 21. 1871.

Fig. 1.

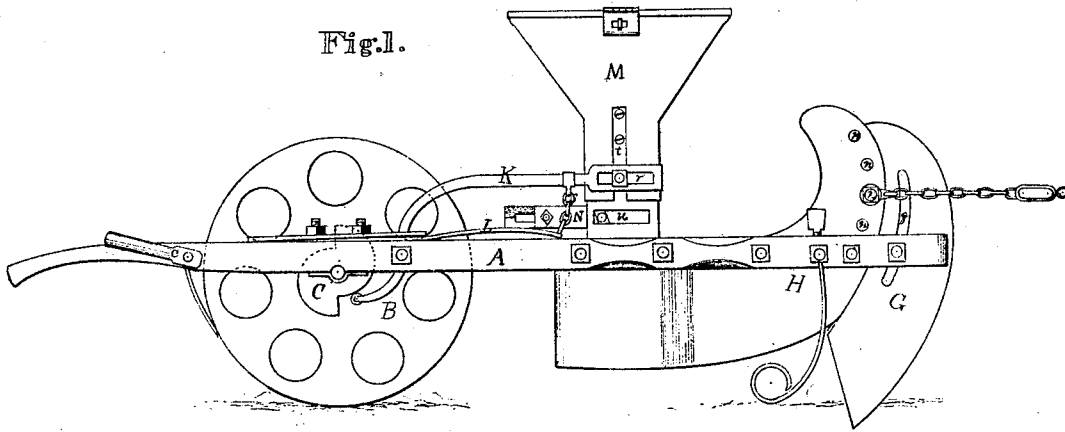
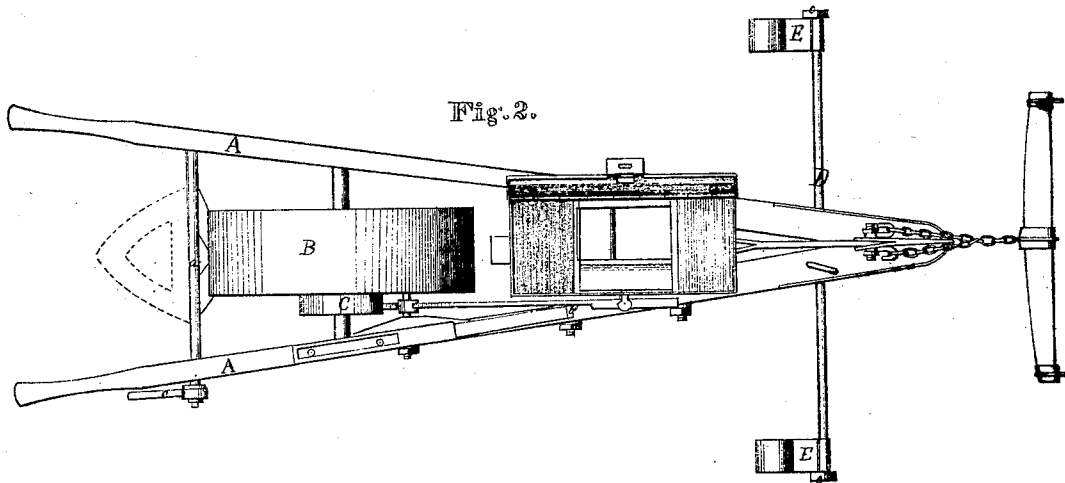


Fig. 2.



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D. Sheets, Sheet 2.

Corn Planter.

No. 111,979.

Patented Feb. 21, 1891.

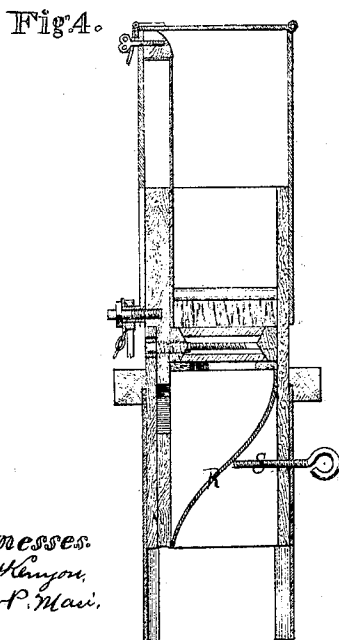
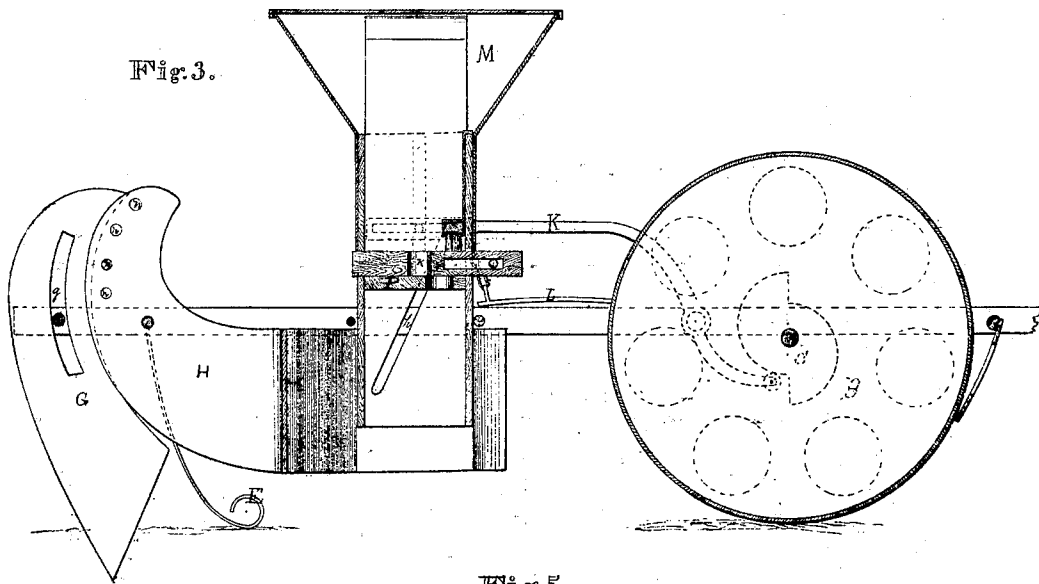


Fig. 5.

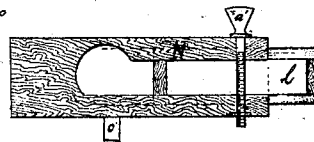


Fig. 7.



Fig. 6.

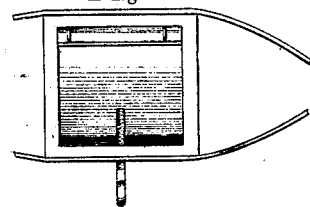
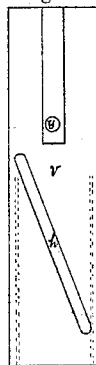


Fig. 8.



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JOSEPH SCHOTT, OF PEORIA, ILLINOIS.

Letters Patent No. 111,979, dated February 21, 1871; antedated February 6, 1871.

IMPROVEMENT IN CORN-PLANTERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOSEPH SCHOTT, of Peoria, in the county of Peoria, and State of Illinois, have invented a new and valuable Improvement in Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a side view of my invention.

Figure 2 is a top view the same.

Figure 3 is a central longitudinal section.

Figures 4, 5, 6, 7, and 8 are details.

My invention relates to corn-planters, and consists in a novel arrangement of devices intended to serve as a valuable and efficient apparatus for the purpose named.

A A of the drawing represent two longitudinal bars, the rear ends of which are formed into guiding-handles, and the front ends brought together, as shown, so as to form a frame in the shape of a barrow. These bars are united and kept in place by a series of rods with bolt-heads, threads, and screw-nuts, as the drawing represents.

The letter B represents a large wheel or roller, arranged to revolve on the ground and between the bars A, as shown.

C represents an eccentric, firmly attached to the side of the roller B, for the uses and purposes hereinafter mentioned.

The letter a represents the rear cross-bar of the frame, which is arranged to rotate in its bearings, and is actuated by the wrench c, which wrench is held in place and tightened or loosened by a thread and nut, as shown.

D represents a rod, made rigid in the front ends of the bars A.

To the ends of this rod, respectively, are affixed the pendent markers E E.

G represents a sharp colter, arranged between the front ends of the bars A, and made adjustable therein by means of a slot, g, and the bolt that passes through the same, as shown.

The rear side of colter G is made circular in form, and is split so as to form a groove adapted to receive and hold the front ends of the bent plates H, next mentioned.

H represents two plates, the front ends of which are pressed closely together and passed into the groove on the rear side of the colter G, while their rear ends are bent outward, as shown, so as to pass around and clasp the lower end of the dropping-tube, as mentioned hereafter.

I make a series of openings, n n n, in the upper turned-up front end of the plates H, to provide means for attaching the team to the planter and regulate the altitude of the point of such attachment, at the will of the operator.

The letter o is a thumb-screw, working upon the top of the rod D, to regulate the rigidity thereof.

K represents a bent lever, having a slot, r, at its front end, and its rear end formed in a hook-shape, adapted to work on the eccentric C. This lever is pivoted to a side bar, A, as shown.

L is a spring, attached to and made adjustable on a side bar, A, as shown, at its rear end, while its front end is connected with the lever K by means of the cord or chain s.

M represents the hopper, formed with springs t and u, and also with a larger rectangular opening in a horizontal direction with the side bars, in which the sliding block N is operated, as hereinafter described.

The letter v represents a sliding plate, arranged to work vertically inside the hopper, and is actuated by means of the lever K, working by its slot on the pin y, which pin is firmly attached to said sliding plate.

The letter h represents a diagonal slot, formed in sliding plate v.

The letter N represents a sliding block, which moves longitudinally with the side bars and in the hopper of the machine, as shown. It has an opening for the passage of the seeds downward, marked k on the drawing, which opening may be enlarged or decreased in size by means of the adjustable block l, arranged in a slot in one end of block N, and operated by the rod a', passing through suitable openings, as shown.

The letter c' represents a pin, affixed to the side of sliding block N, and adapted to work in the diagonal slot of the sliding plate v.

P represents a base-block in the hopper, through which I make an opening, as shown, for the passage of seeds downward.

R represents a spring-plate, placed in a diagonal position in the lower end or conduit-tube of the hopper, and held in place partly by the thumb-screw S, as shown.

To operate my device the team is attached in the proper opening of the turned-up plates, and the seed placed in the hopper. As the machine is drawn forward the colter cuts a furrow for the seeds, and, as the roller revolves, the cam C operates the bent lever in such manner that the block N is moved back and forth, and the plate v is moved up and down by the same rotation of the roller. The seed passes downward through opening k of the sliding block and a similar opening in the base-block, and from thence to the lower point of the angle formed by the spring

plate R, from whence it is forced to the ground by the lower end of plate *v*, operated by the spring L. After thus reaching the furrow formed by the colter, it is covered by the roller B.

In order to aid in the process of dropping the seed from the hopper in desirable quantities, I construct an adjustable block with a brush on its lower end, in the form shown on fig. 7, and arrange it vertically in the side of the hopper, so that the brush shall partially cover the opening in the sliding block. By a proper adjustment of this block and brush the seed may be permitted to pass downward in such quantities, at each revolution of the roller, as the operator may desire.

The markers are intended to indicate the path for the furrow to follow that being planted.

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

1. The adjustable colter G, in combination with the bent plates H, when constructed and arranged substantially as and for the purposes herein specified.

2. The sliding block N, sliding plate *v*, and block and brush, fig. 7, combined with the lever K, cam C, and springs L and R, when constructed and arranged to operate substantially as and for the purposes specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

Witnesses:

JOSEPH SCHOTT.

GEO. A. SCHORES,
DAVID WISSEL.