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L. B. ROWLAND.

CORN-PLANTER.

No. 182,606. Patented Sept. 26, 1876.

Fig. 2.

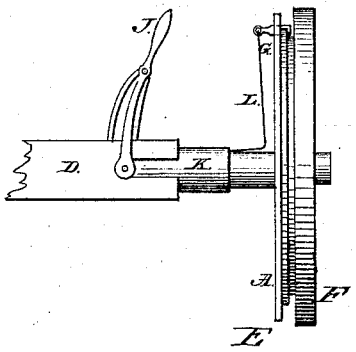


Fig. 1.

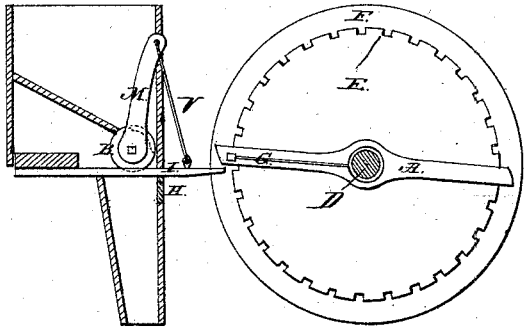
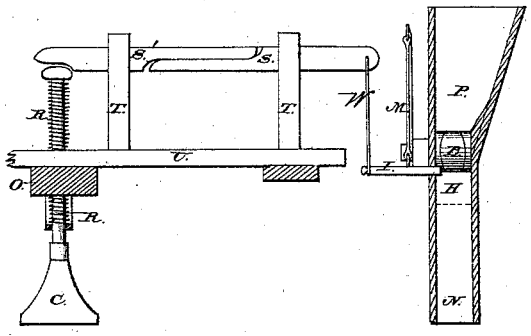


Fig. 3.



Attest:

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J. R. Spielmaro

Inventor:

Lewis B. Rowland

2 Sheets—Sheet 2.

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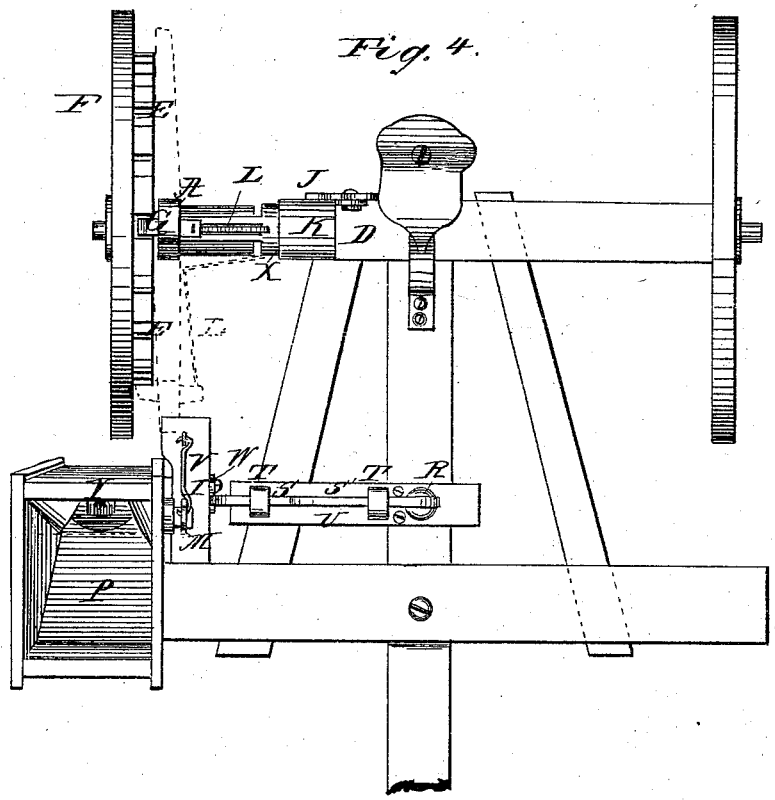
Fig. 4.



Witnesses
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Atty

UNITED STATES PATENT OFFICE.

LEWIS B. ROWLAND, OF HAGERSTOWN, MARYLAND.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **182,606**, dated September 26, 1876; application filed July 7, 1876.

To all whom it may concern:

Be it known that I, LEWIS B. ROWLAND, of Hagerstown, in the county of Washington and State of Maryland, have invented a new and useful Improvement in Corn-Planting Machines, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

My invention consists of the combination of certain devices for regulating the feed and marking the hills in check-row corn-planting, all of which will be fully understood by the following description:

In the drawings, Figure 1 is a detached view of one of the traveling or ground wheels provided with a toothed wheel or rim. This figure also shows a section of the hopper and feed roller or cup. Fig. 2 is a rear view of one of the ground-wheels, with a portion of the axle and sliding ring thereon. Fig. 3 is a detached view of the marker and the devices for operating the same, and also a section of the seed-hopper, showing the feed-roller in place. Fig. 4 is a top view of the machine.

One of the ground-wheels F carries a disk, rim, or series of notches E, as seen in Fig. 1, and also is connected with a lever, A, which is adjustable upon the wheel F, or may be detached therefrom, as will be later explained more fully.

The frame of the machine and the driver's seat and hopper may be of any suitable construction, as shown in Fig. 1.

My machine drops the seed by means of a rocking cup, B, Fig. 2, which is operated by means of the levers A, trigger I, and connecting-link V, which is attached to the crank M of the rocking cup or roller B. The lever A may be locked to the wheel F by means of the latch G, operated by the spring L, which is carried by the collar or spring supporter X attached to the lever A, as seen in Fig. 4, and by means of the sliding thimble K the spring L may be pressed down and the latch G raised out of the notch E of the ground-wheel. Then when the latch G is thus raised the lever A ceases to revolve with the wheel F and to move the trigger I, as above mentioned. But when the lever A is locked to the wheel, both revolve together.

The marker C has a coiled spring, R, which raises the marker, and carries the same clear of the ground. By means of the two levers S S′ and the connecting-link W the trigger I moves the marker C at the same moment that the cup B drops a hill of corn. Thus the three sets of devices—one for controlling the lever A, the second for dropping the seed, and the third for marking the ground or hills—are all under the control of the driver and the hand-lever J.

Operation: At the commencement of a row the lever A is adjusted so as to strike the trigger, and thus rock the feed-cup B, and drop the corn, so as to bring the first hill in line in the usual manner. If, in passing obstructions or otherwise, the hills begin to fall out of line, the lever A must be promptly readjusted before the machine proceeds. This readjustment and regulation of the dropping of the corn also controls the marker C, which moves simultaneously with the rocking cup B.

It may be mentioned that a brush, Y, in the seed-hopper P sweeps the mouth of the cup B, and thus prevents too much corn from being dropped in one hill or the breaking of the kernels as cup B rocks to discharge the seed.

Having thus described my invention, I claim—

1. The combination of the adjustable lever A, the ground-wheel F, notches E, axle D, sliding thimble K, spring L, and latch G, all operated by or in connection with the hand-lever J, substantially in the manner and for the purposes set forth.

2. The combination of the lever A, ground-wheel F, notches E, trigger I, link V, crank G, and rocking cup B, substantially as and for the purposes set forth.

3. The adjustable lever A, in combination with the trigger I, link W, levers S S′, and marker C, provided with the spring R, substantially as described.

LEWIS B. ROWLAND.

Witnesses:
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J. R. SPIELMAN.