

J. H. MARTIN, T. BUNFORD & S. S. EGE.

SEED-PLANTER.

No. 176,233.

Patented April 18, 1876.

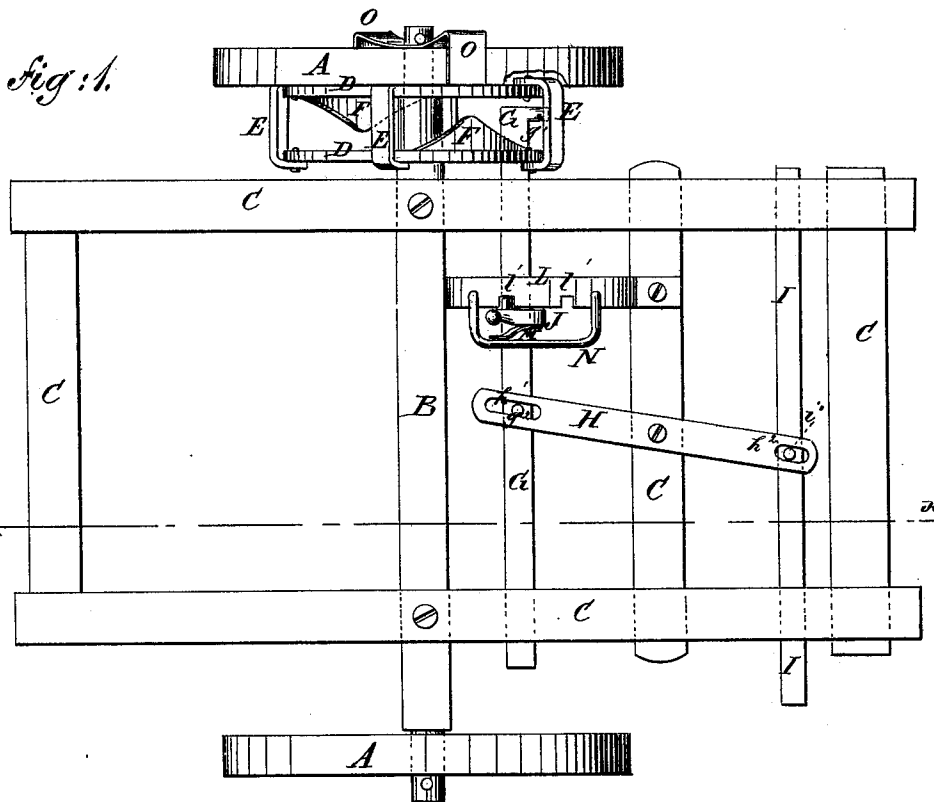
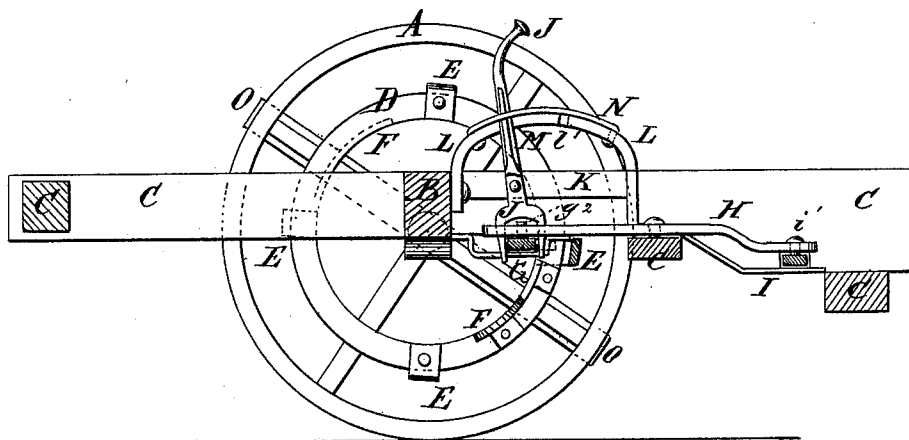


Fig: 2.



WITNESSES:

Chas. N. Votaw
John Goethals

INVENTOR:

J. H. Martin
T. Bunford and
S. S. Ege

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN H. MARTIN, THOMAS BUNFORD, AND STEPHEN S. EGE, OF GLEN ROCK, NEBRASKA.

IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. **176,233**, dated April 18, 1876; application filed January 22, 1876.

To all whom it may concern:

Be it known that we, JOHN HENRY MARTIN, THOMAS BUNFORD, and STEPHEN SLACK EGE, of Glen Rock, in the county of Nemaha and State of Nebraska, have invented a new and useful Improvement in Self-Acting Seed-Droppers, of which the following is a specification:

Figure 1 is a top view of our improved device, shown as applied to the frame of a seed-planter. Fig. 2 is a vertical longitudinal section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved device for operating the dropping-slide of a seed-planter by the advance of the machine, and which shall be simple in construction, convenient in use, and reliable in operation, enabling the seed to be planted without its being necessary to mark the ground.

A represents the wheels, B the axle, and C the frame, of a seed-planter. D are two parallel rings, which are connected together and held in their proper relative positions by U-bars E, the ends of which are secured to the said rings. The inner ring D is securely bolted to the inner side of one of the wheels A. To the inner side of the opposite parts of the rings D are secured inclines F, as shown in Fig. 1. G is a bar that slides in keepers attached to the frame C, and upon its end is formed, or to it is attached, a pin or finger, g^1 , which projects between the two rings D, so as to be struck alternately by the inclines F, to give the bar G a reciprocating movement. To the middle part of the sliding bar G is attached a pin, g^2 , which passes through a longitudinal slot, h^1 , in the end of a lever, H. The lever H is pivoted at its middle part to a cross-bar of the frame C, and has a short slot, h^2 , formed in it to receive a pin, i^1 , attached to the dropping-slide I of the planter, so that the said dropping-slide I may be operated by the advance of the machine. The slot

h^1 of the bar H is made long, so that the end of the bar G may be thrown back to throw its finger or pin g^1 out of gear with the inclines F of the rings D. The sliding bar G is moved to throw it into and out of gear with the inclines F of the rings D by the lever J, the lower end of which is forked to receive the said sliding bar G, and which is pivoted to a bar, K, attached to or connected with the frame C of the planter. The upper part of the lever J passes across the edge of the curved bar L, the ends of which are attached to the frame C, and in which are formed two notches, l^1 , to receive the lever J and lock the sliding bar G in place when in gear and when out of gear. The lever J is held against the catch-bar L by a spring, M, attached to the said lever J, and which rests against a guard-bar or keeper, N, attached to the said catch-bar L. O are two wide bars, the outer ends of which are attached to the rim of the wheel A, directly in line with the inclines F. At a little distance beyond the outer side of the wheel A, the bars O are bent inward, and have holes formed in their ends to receive the outer end of the journal of the axle B. The bars O are designed to mark the line of the hills, so that the seed may be planted in accurate check-row.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination of the two parallel rings D, their connecting-bars E, and inclines F, the sliding bar G, provided with the finger g^1 and the pin g^2 , and the pivoted and slotted lever H, with the wheel A, the frame C, and the dropping slide I of a planter, substantially as herein shown and described.

JOHN HENRY MARTIN.
THOMAS BUNFORD.
STEPHEN SLACK EGE.

Witnesses:

JONATHAN GILL,
ARLINGTON WATKINS.