J. A. RODERICK.
Corn-Planter.

No. 212,509. Patented Feb. 18, 1879.

Fig. 1.

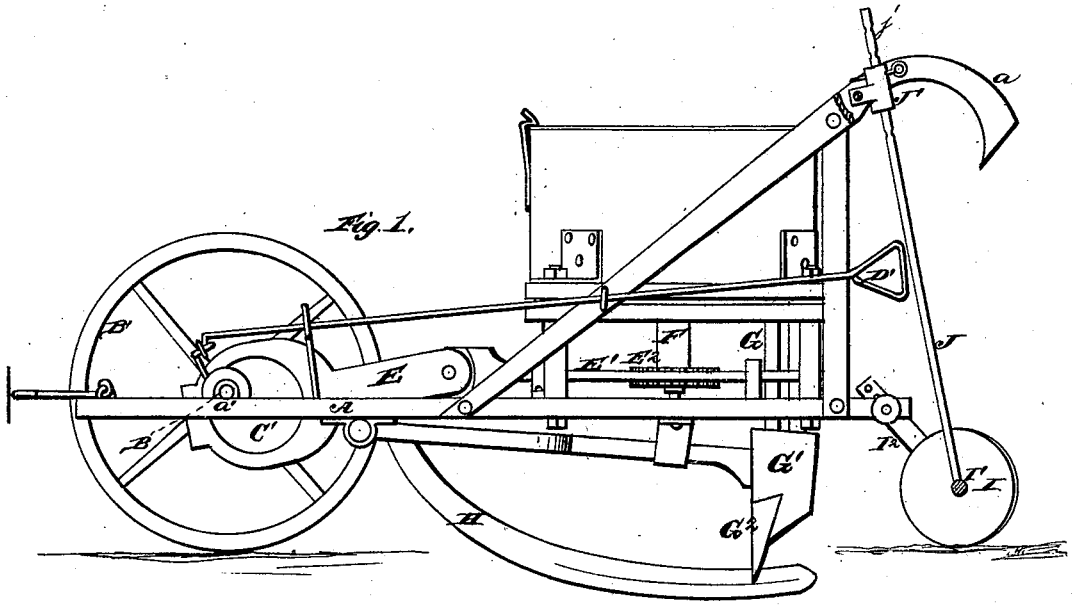


Fig. 2.

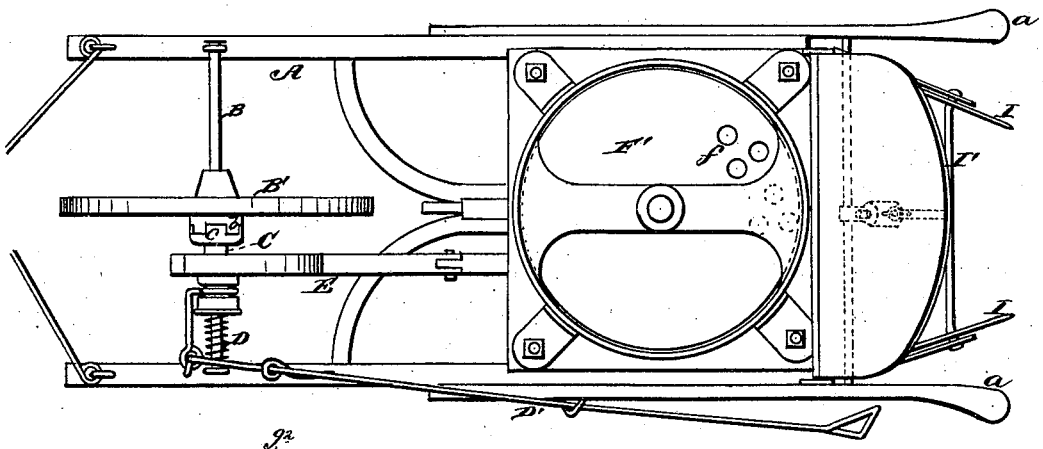


Fig. 3

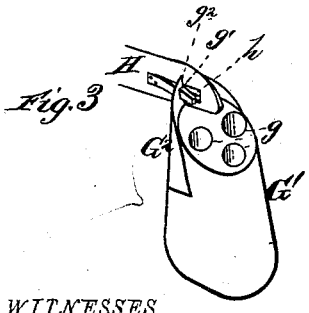
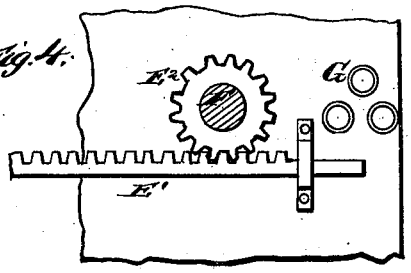


Fig. 4.



WITNESSES
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UNITED STATES PATENT OFFICE

JAMES A. RODERICK, OF CHAUNCEY, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **212,509**, dated February 18, 1879; application filed November 16, 1878.

To all whom it may concern:

Be it known that I, JAMES A. RODERICK, of Chauncey, in the county of Lawrence 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 drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side elevation of my corn-planter, and Fig. 2 is a plan view of the same. Figs. 3 and 4 are detail views of the same.

My invention relates to a hand seed-planter; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and pointed out in the claim.

In carrying out my invention, I employ a frame having handles in the rear and a driving-wheel in front. Upon the shaft, with the driving-wheel, is a sleeve carrying a clutch, which meshes with a corresponding device on the driving-wheel. A spring exerts a continuous force to keep the clutch in contact, and a lever attachment, extending back to the handles, allows the operator to throw the clutch out of mesh at will. This sleeve also carries an eccentric-cam, which operates loosely in a socket of corresponding size in a hinged or pivoted arm, which connects with a rack-bar, which engages a cog-wheel upon a vertical shaft, which carries a perforated feed-disk. This disk has duplicate sets of perforations, which correspond in location and number with feed-tubes, as shown. These tubes lead to corresponding apertures in a shoe, which has a removable furrow runner and plow. Following this planting device are two covering-wheels, which are inclined inward and outward, as shown, and they are hung upon a shaft having pivoted bearings. An arm extends upward from this shaft, which is adjustable in a sleeve near the handles.

Referring to the drawings, A represents the frame, having handles *a*, and journal-bearings at *a'* for a shaft, B, carrying driving-wheels B', having half-clutch *b*.

C represents a sleeve loose upon the shaft B, having half-clutch *c* and eccentric-cam C'. A spring, D, holds a continuous force to keep the half-clutches *b c* in mesh, and a hand-lever, D', allows the operator to throw the clutch out of mesh at will.

The cam C' operates in a pivoted arm, E, which is connected with a rack-bar, E^1, which meshes with a cog-wheel, E^2, upon a vertical shaft, F, carrying a feed-disk, F', having duplicate sets of perforations *f*. The cam causes the rack-bar to vibrate, which gives an oscillating motion to the feed-disk, as is obvious.

The perforations *f* in the feed-disk correspond in number, size, and location with feed-tubes G, which connect with corresponding conductors *g* in a feed-block, G^1, having shovel G^2. This shovel has a vertical slot, g^1, and in this slot is formed a recess, g^2, which receives a spring, *h*, upon a removable runner, H, which extends forward and is connected to the frame, as shown.

I represents the covering-wheels upon a shaft, I^1, arranged as shown relatively to pivoted arms I^2. From this shaft I^1 extends a vertical bar, J, perforated at *j*, which works in a sleeve, J', near the handles. By this construction the operator is allowed to adjust the coverers at will.

Various changes in construction may be made without departing from the principle of my invention.

I am aware that a-cutter or share has been made adjustable in a slot in the point of the drill-tooth, as shown in the Patent No. 10,032 to Samuel Jenkins, September 20, 1853, for an improvement in drill-teeth, and I make no broad claim to such construction.

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

The shovel G^2, with slot g^1, having recess g^2, in combination with the removable runner H, having spring *h*, as and for the purpose set forth.

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

JAMES ALLEN RODERICK.

Witnesses:

DAVID A. WATTS,

CHARLES W. STALLARD.