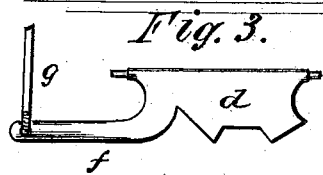
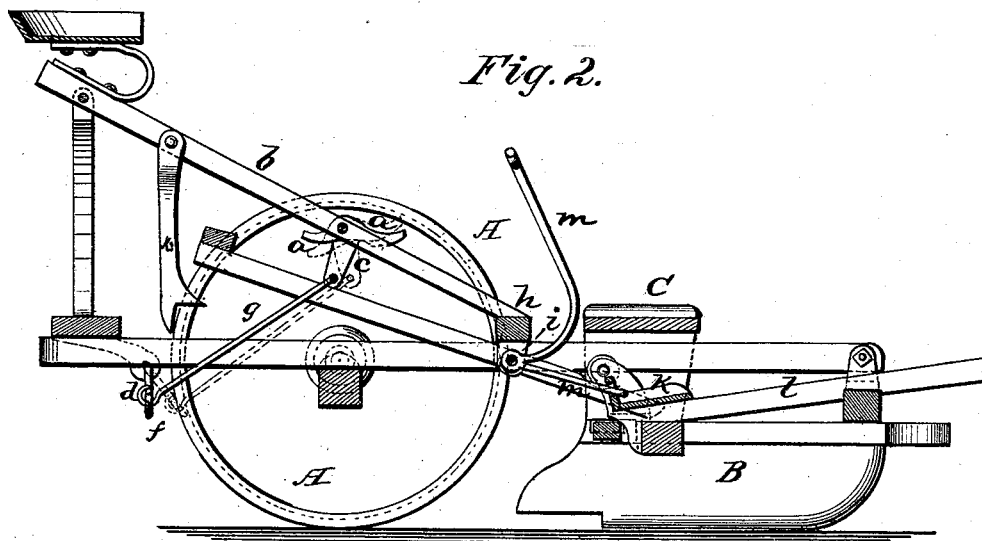
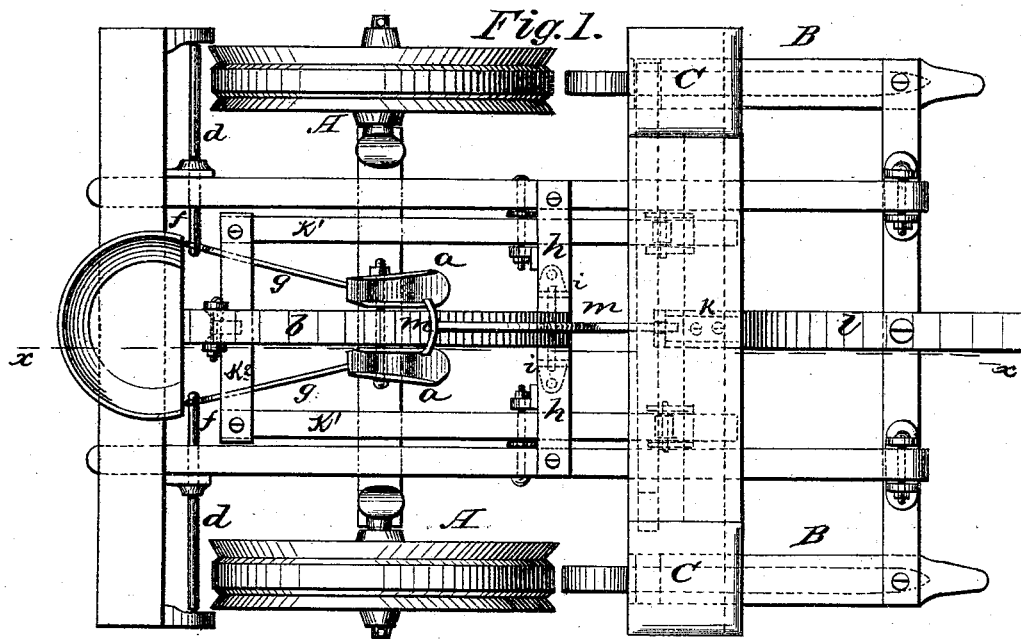


T. A. GALT & G. S. TRACY.

CORN PLANTER.

No. 181,832.

Patented Sept. 5, 1876.



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS A. GALT AND GEORGE S. TRACY, OF STERLING, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 181,832, dated September 5, 1876; application filed July 26, 1876.

To all whom it may concern:

Be it known that we, THOMAS A. GALT and GEORGE S. TRACY, of the city of Sterling, county of Whitesides and State of Illinois, have invented a new and useful Improvement in Corn-Planters, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of our invention is, first, to provide a more expeditious and perfect method of controlling the respective scrapers of the covering-wheels in such planter; and, second, to provide a simple foot-lever, by which the driver can readily force the runners or furrow openers of such planter more deeply into the ground, as occasion may demand.

Figure 1 is a general plan view of a machine embodying our invention. Fig. 2 is a central vertical section on line *x x*, Fig. 1. Fig. 3 is a detail view of scraper.

A A are the ordinary covering-wheels of a two-horse corn-planter, preceded, respectively, by the usual furrow-openers B B. The usual and ordinary parts of such planter, including the seed-hoppers C C, being fully shown in the drawings, need not be further particularized. The foot-rests *a a*, with their upper surfaces shaped to the sole of the foot, are pivoted laterally to the seat-stem *b*, or can be pivoted at any other convenient point on the frame. From the lower surface of the foot-rests *a a*, and integral therewith, extend downward the short levers *c c*.

The scrapers *d d* are pivoted horizontally at or near their upper line, and are provided, as part thereof, respectively, with the inward-extending levers *f f*, the latter being upon, or nearly upon, a line with the scraping or lower edge of the scrapers. The inner ends of the levers *f f* are connected, respectively, by means of the rods *g g*, to the lower ends of the short levers *c c*.

The driver's feet remain upon the rests *a a*, and by rocking his feet backward thereon he brings the lower edges of the scrapers *d d* against the periphery of the covering-wheels A A at will, and with any desired degree of force. Upon the pressure of the driver's heel

being withdrawn, the scrapers, by their own gravity, swing or fall away from the wheels, and thus remain until again brought into operation.

The advantage we claim for this part of our invention is, that it dispenses with the changing of the driver's feet, and with the trouble and difficulty of finding the proper place on the scrapers for the feet, as in the old style.

The foot-rests *a a* are so placed relatively to the driver's seat as that the driver's feet may comfortably remain upon the rests *a a*.

The foot-lever *m* is provided with an axle at, and is fulcrumed under, the cross-beam *h*, by means of lugs *i i*, into which the ends of its axle are inserted. The short end of the lever *m* plays loosely through the orifice in the part *k*, on the rear end of the tongue *l*.

As in the different degrees of elevation of the front frame, the relative distance of the part *k* and the axis of the lever *m* is varied, the short end of *m*, by passing through the part *k*, adjusts itself to such change of distance.

*k*¹ represents a lever-frame, extending backward and upward over the axle on either side, and provided with a cross-bar, *k*². *k*³ represents a swinging catch, pivoted to the part *b*, which holds the rear end of the lever-frame *k*² down when the same is depressed.

When it is desired to force the runners more deeply into the ground, the driver places one or both of his feet on the cross-bar on the upper end of the lever *m*, and pushes forward on the latter. Such force is communicated through the short end of the lever to the rear of the frame holding the runners B B, and, by reason of the axis-fulcrum under the beam *h*, the force is communicated to the rear of the runners in a direction vertically downward.

Inasmuch as, in connection with the class of planters referred to, automatic check-droppers which dispense with the weight of the dropper on the runners are being greatly used, and as, also, the ground in which planting is done varies much in density, an ability in the driver to apply, at will, a downward force to the rear of the runners, is a palpable

advantage, if not a necessity. This we accomplish simply and fully by the use of the lever *m* and its adjunct parts.

We claim as our invention, and desire to secure by Letters Patent—

1. The foot-lever *m*, fulcrumed, as described, under the cross-beam *h*, and having the upwardly-curved arm, in combination with the part *k*, the lever-frame *k*¹, and the front frame of the planter, substantially as and for the purpose mentioned.

2. The scrapers *d d*, pivoted foot-rests *a a*, and connections *g g*, in combination, substantially as described, and for the purpose set forth.

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