D. E. MOORE.
Corn-Planter.

No. 205,890. Patented July 9, 1878.

Fig. 1.

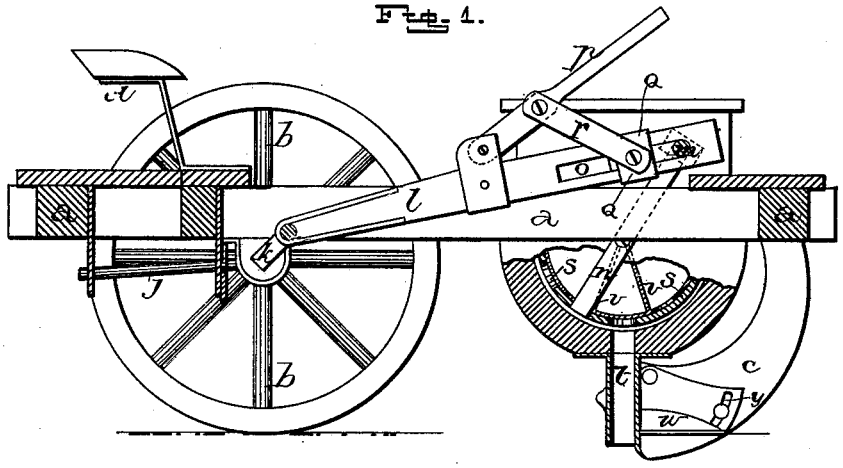
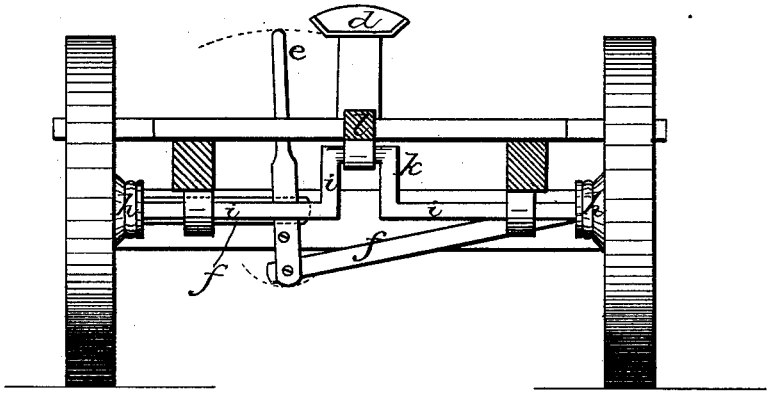


Fig. 2.



Witnesses:
J. W. Garner
W. D. Baines

Inventor:
D. E. Moore,
per
F. A. Lehmann,
Atty.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

D. ELDRIDGE MOORE, OF PRESCOTT, IOWA.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **205,890**, dated July 9, 1878; application filed June 12, 1878.

To all whom it may concern:

Be it known that I, D. E. MOORE, of Prescott, in the county of Adams and State of Iowa, have invented certain new and useful Improvements in Corn-Planters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in corn-planters; and it consists in the cheap and simple arrangement and combination of parts whereby an efficient, durable, and easily-operated planter is produced, as will be more fully described hereinafter.

Figure 1 represents a vertical section of my invention. Fig. 2 is a vertical cross-section, taken at right angles to Fig. 1.

a represents a rectangular frame, of any desired construction, which is supported at its rear end by the driving-wheels *b*, and at its front one by the furrow-openers *c*, as shown. Passing up through the rear part of the frame, within easy reach of the driver's seat *d*, is the lever *e*, which is pivoted near its lower end to a hanging part of the frame *a*, and which has the two levers *f* pivoted to it, one on each side of its center of motion.

When the lever *e* is moved sidewise the two levers *f* are forced outward in opposite directions, for the purpose of forcing the clutches *h* in gear with the wheels, so as to cause the axle *i* to revolve with them. These clutches may be of any suitable construction, and are connected to the rods *f*, which have their rear ends securely, but loosely, held in the rear end of the frame, and to these rods the outer ends of the levers are fastened.

When it is not desired that the seeding mechanism shall operate, the clutches are moved inward out of contact with the wheels, when the shaft remains motionless.

At the center of the shaft is formed the crank *k*, to which is connected the connecting-rod *l*, which has its front end slotted for a considerable distance and passed over the rod or bar *m*, which connects the two levers *n* together. In this slot *o*, in the front end of the rod *l*, is placed a sliding block, *q*, which is joined to the hand-lever *p* by the connecting-rods *r*.

By moving this sliding block up against the bars *m* the full movement of the crank back and forth is transmitted to the bar, so as to move the levers *n* to their full extent; but in proportion as the block is moved backward in the slot, away from the bar, there is a loss of motion, and the bar is moved less and less. After the clutches have been thrown in gear with the wheels the seeding mechanism may be thrown in and out gear at any moment, independently of the axle by simply moving the block in the slot.

To the lower ends of the levers *n*, which are pivoted upon the sides of the seed-boxes, are secured the feed-slides *s*, which are shaped so as to describe an arc of a circle, and move back and forth in similarly-shaped grooves under the bottom of the seed-boxes, and over the tops of the grain-tubes *t*.

Each one of the seed-boxes is made semicircular in shape on its inside, and is provided with a partition, *v*, in its center, and each side of the box has an opening through it for the seed to fall through corresponding to the two holes in the seed-slides.

To each of the furrow-openers *c*, just in advance of where it is joined to the tubes *t*, are pivoted the fenders *w*, which are adjustable up and down at their front ends, through the slots *y*, for the purpose of causing the openers to run shallow or deep. These fenders serve to clear away the clods, corn-stalks, and other such substances as would have a tendency to fall back into the furrow on top of the grain.

Having thus described my invention, I claim—

The combination of the cranked axle, slotted connecting-rod *l*, sliding block *q*, and a lever for operating it, with the bar *m*, levers *n*, and the seed-slides, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of June, 1878.

D. E. MOORE.

Witnesses:
L. F. GEORGE,
C. G. MOORE.