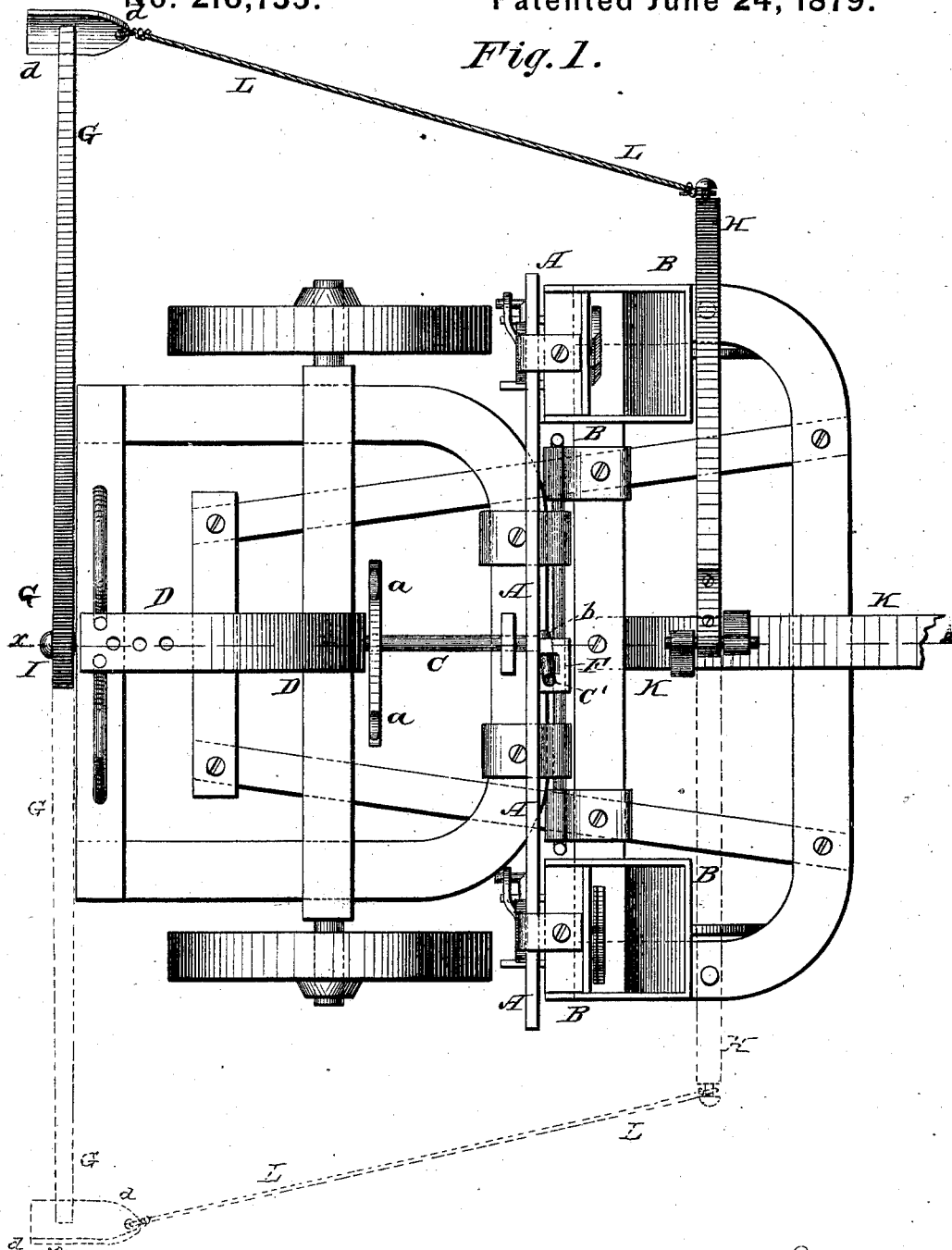


J. A. PATTERSON.
Corn-Planter.

No. 216,755.

Patented June 24, 1879.

Fig. 1.



Witnesses:

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James C. Duff

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Fig. 2.

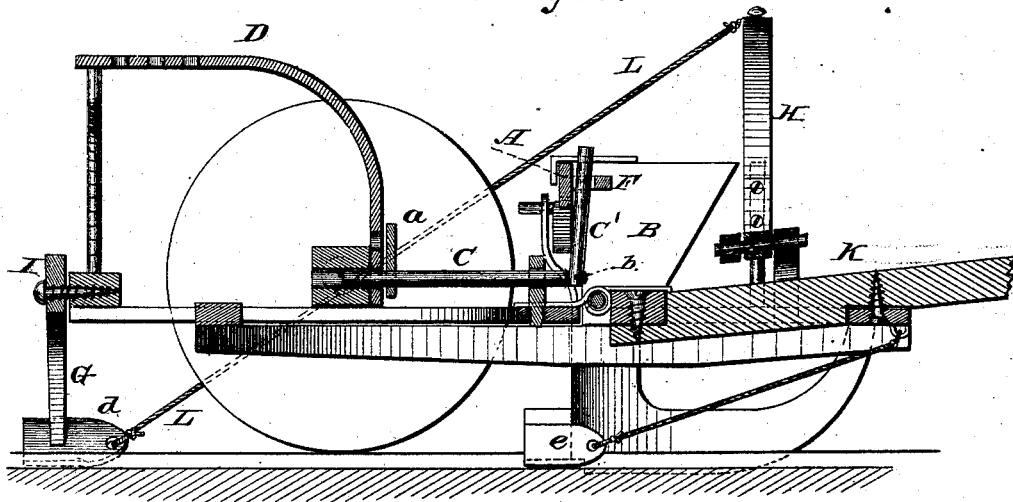
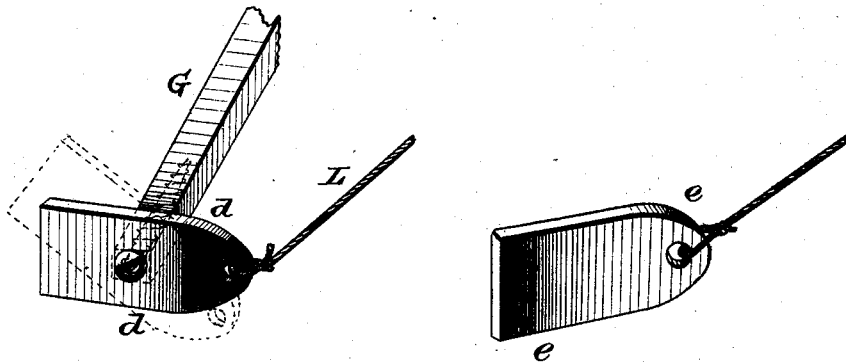


Fig. 3.



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UNITED STATES PATENT OFFICE.

JAMES A. PATTERSON, OF ROCK FALLS, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **216,755**, dated June 24, 1879; application filed September 3, 1878.

To all whom it may concern:

Be it known that I, JAMES A. PATTERSON, of Rock Falls, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention belongs to that class of corn-planters in which two rows are planted at the same time; and the object of my invention is, first, to provide an improved device for marking the ground, by which marks the machine is guided on its return trip; and, second, to furnish a simple and efficient mechanism by which the driver can with his feet operate the seeding devices.

Figure 1 is a plan view of a machine embodying my invention. Fig. 2 is a central vertical section on line *x x*, Fig. 1; and Fig. 3 represents enlarged details of my invention.

The wheels, runners, seed-boxes, frame, driver's seat, &c., are the usual parts of such planters; and as nothing peculiar is claimed about such no description thereof is necessary.

A is a bar connecting the device for operating the seed-slides in each seed-hopper B. In the machine shown this connection is by means of serratures on the lower edge of the bar A fitting into corresponding cogs on the axle of the seeding-disk; but the method of attaching the bar A to the seeding devices is not made a special point in my invention, as the motion of the bar A is substantially the same in all cases.

C is a rock-shaft, journaled as shown and placed horizontally, and extending from the driver's seat D to a point below the bar A, at or near the center of the latter. The front end of the shaft C, outside of its front journal, is provided with a perpendicular arm, C', which fits loosely into an eye, F, placed on the bar A, and is hinged to the shaft C at *b*, to permit the flexibility of the frames. On the rear end of the rod C extends laterally the foot-rests *a*

a, so placed as that the bar A may be thereby operated by the driver's feet.

The driver, by placing his feet on the rests *a*, can rock the rod or shaft C, so as to give the arm C' a vibratory motion, and thereby communicate to the bar A a reciprocal motion.

As the movement is substantially the same in all bars connecting the seeding devices in this class of machines, the rock-shaft C can be readily adjusted to operate any of such bars.

The driver, by means of the bar A, operates the seeding devices and discharges the seed at will, in the case of check-rowing being guided as to the intervals of dropping by the indicator *e*, hereinafter fully described, or in any other practicable way.

The arm G is pivoted on the rear of the frame at I, and is provided at its outer end with a loose head, as hereinafter described, designed to draw a mark upon the ground to be planted parallel with the line of movement of the machine. The arm G is provided with a loose head or marker, *d*, as shown, which is pivoted across the end of the arm in such manner as to plow and push its way over the plowed ground, and adapt itself to the unevenness thereof, thus leaving a continuous and well-defined mark. In returning, this mark is straddled by the team and kept in line with the tongue of the machine, the arm G being in length the width of two rows.

The outer end of the arm G is braced forward by the rope or chain L to the outer end of the arm H, which latter is hinged on the tongue K just forward of the front line of the seed-boxes.

As in the process of planting the machine changes alternately its sides to the ground to be planted, it is necessary at each end of the field to transfer the marker to the opposite side of the machine. This in my invention the driver can do without dismounting, by reaching backward and grasping the arm G and turning it upward and over. The arm G, by virtue of the rope or chain L, carries the arm H with it, the latter turning on its hinge.

The indicator *e* consists of a piece of iron, large enough to be readily seen, and heavy enough to drag without skipping, which is fastened forward by a cord or chain to the under part of the tongue or planter or front

frame, in such position as that the indicator will be on a line with the rear end of the runners.

The indicator can be readily watched by the driver, and when it drops into the check-row the driver operates the seeding devices and drops a hill from each hopper into the check-rows.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with the reciprocating slide A of a corn-planter, the longitudinal rock-shaft C, having arm C' and hinge *b*, whereby the mutual adjustment of the front and rear frames is effected, as specified.

2. The combination of the pivoted arm G,

loose marker-head *d*, and rope L, substantially as and for the purpose described.

3. In a corn-planter the seeding devices of which are operated by the feet of the driver, the indicator *e*, arranged to drop into the check-row coincidently with the crossing of the latter by the seed-tubes, substantially as and for the purpose mentioned.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES A. PATTERSON.

Witnesses:

JOHN W. ALEXANDER,

AUGUSTUS P. SMITH.