

C. T. MERRY & M. A. DUNTON.

Improvement in Corn-Planters.

No. 132,306.

Patented Oct. 15, 1872.

Fig. 1.

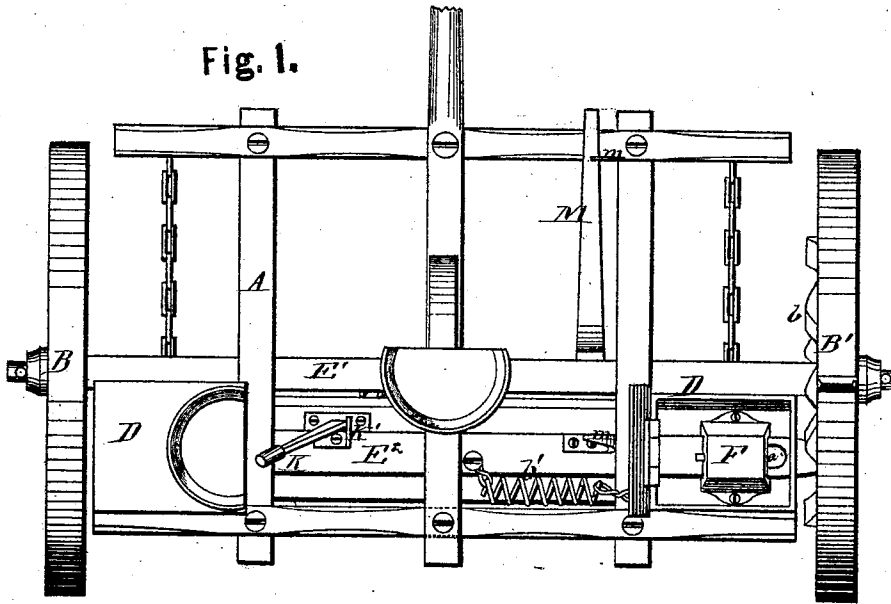
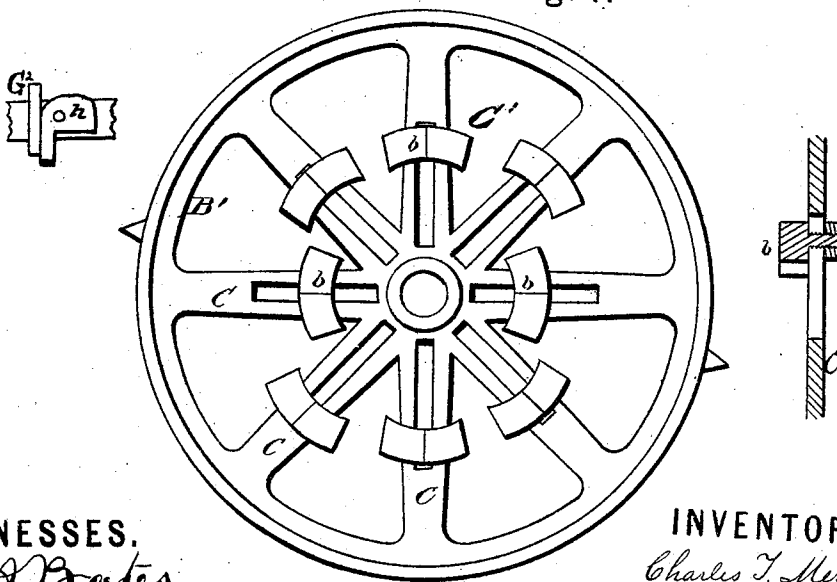


Fig. 4.



WITNESSES.

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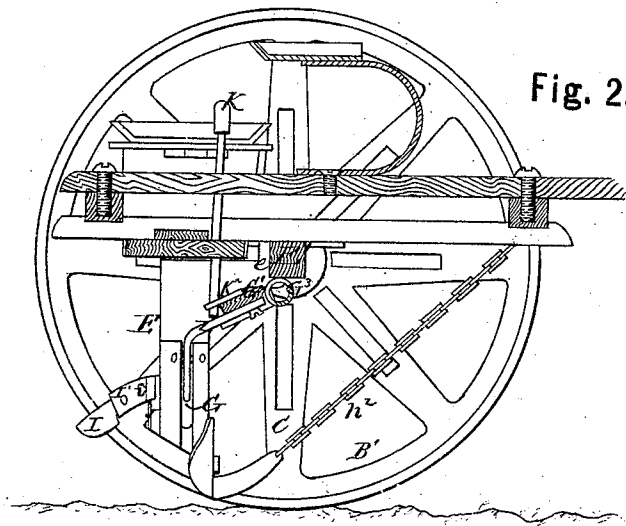


Fig. 2.

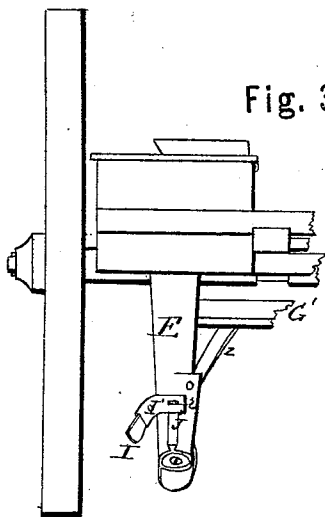


Fig. 3.



Fig. 6.

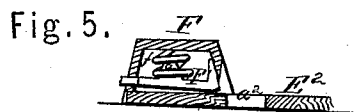


Fig. 5.

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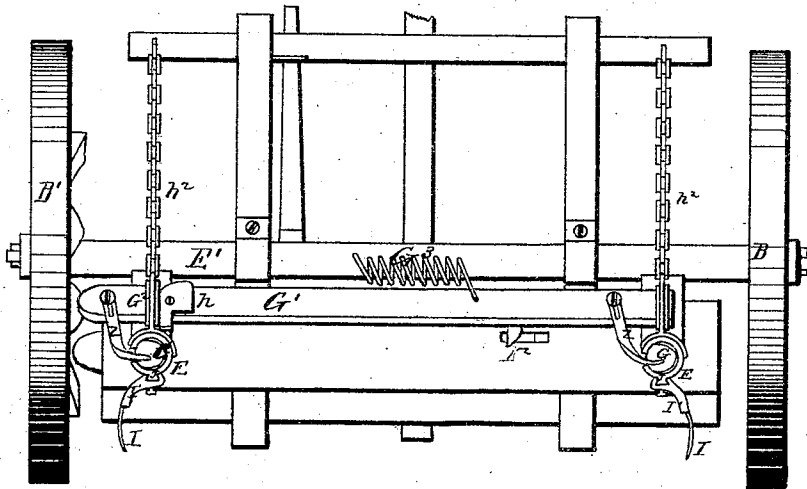
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Fig 7.



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UNITED STATES PATENT OFFICE.

CHARLES T. MERRY AND MARLIN A. DUNTON, OF NORWALK, OHIO.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 132,306, dated October 15, 1872.

To all whom it may concern:

Be it known that we, C. T. MERRY and M. A. DUNTON, of Norwalk, in the county of Huron and State of Ohio, have invented a new and valuable Improvement in Corn-Planters; and we 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 drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of our invention; Fig. 2 is a vertical central section; Figs. 3, 4, 5, 6 are details; and Fig. 7 is an under-side view of our invention.

Our invention relates to corn-planters; and consists in the novel construction of a driving-wheel and apparatus for actuating the seed-valves, substantially as hereinafter described and claimed.

In the drawing, A represents the skeleton frame of the corn-planter mounted on two driving-wheels, B B', of which the latter is provided on its inner face with two rows or sets of curved double-beveled studs or cams, b, adjustably attached to slotted spokes C. D D represent the grain-hoppers, below which are arranged the seed-tubes E. These tubes are flanged at e, and are secured, as shown, to the axle E'. E² designates the seeding-slide, passing through the seed-hoppers, and reciprocated by means of the outer row C' of studs b and the spring b'. F represents boxes secured to the bottoms of the seed-boxes, and inclosing each an L-shaped hinged valve, F', upon which acts a spiral spring, f, encircling a stud at a. The seed-slide passes through said boxes and underneath the valves. The function of these valves is to deprive the slides of surplus grain as the seed-cups a² approach the openings in the bottoms of the hoppers. The valves are allowed to rise so as to prevent the slide from becoming choked. The springs hold the valves down with all the necessary force. In the lower parts of the seed-tubes are arranged diagonal or inclined valves G secured to bent arms z, which pass through slots in the ends of said tubes, and, being slotted at their upper ends, are secured to a laterally-reciprocating bar, G¹, working through and supported by loops G² cast on the seed-tubes, as shown. The end of said bar comes in contact with and is operated by the inner studs b on the wheel B'. The bar G¹

and slide-bar act alternately. The bar G¹ opens the valves G after the seed has fallen from the hoppers, and the slide covers the openings in the latter. The effect of this operation is to retard and control the passage of the seed, so that when the implement is moving rapidly the grain shall not be carried and let fall beyond the hills. Pivoted to the under side of the bar G¹ is a cam-lever, h, acting in connection with one of the loops G², and designed for use in moving the slide G¹ by hand and in locking it when the valves are open for any purpose. G³ is a spring designed to throw the bar toward the studs b. H represents clearing-knives or runners secured to slotted plates h¹ attached to the forward part of the tubes in a vertically-adjustable manner. The ends of the clearers H are connected by chains h² to the front part of the frame A, as shown. I denotes coverers, consisting of curved plates secured to curved arms I', which have dovetailed channels cut on their inner sides, and fit corresponding ridges J formed on the back parts of the teeth. The arms I' are adjustable, and may be secured in any position by means of thumb-screws i. K represents a lever for moving the seed-slide and bar G¹ by hand. K¹ is a catch for said lever. K² is a stud on bar G¹ for the lever to work against. L is a seat on the lid of adjacent hopper for convenience of operator of said lever. M designates a lever secured to the axle, and held in different positions by catches m. Said lever is used in turning the axle to raise or lower the seed-tubes.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The driving-wheel B', constructed with slotted spokes C, adjustable angular studs b attached by nuts and screws, as described, and all arranged, to operate the reciprocating slide G¹ and valve G, substantially as and for the purpose specified.

2. The cam-lever h attached to a reciprocating-bar, G¹, used in opening the valves G, said lever being adapted to operate in connection with a loop, G², or equivalent, as and for the purpose described.

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

CHARLES T. MERRY.
MARLIN A. DUNTON.

Witnesses:

ETHAN A. PRAY,
ERASTUS IVORY.