S. H. WORTH.

CHECK ROWER AND DROPPER.

No. 190,110. Patented April 24, 1877.

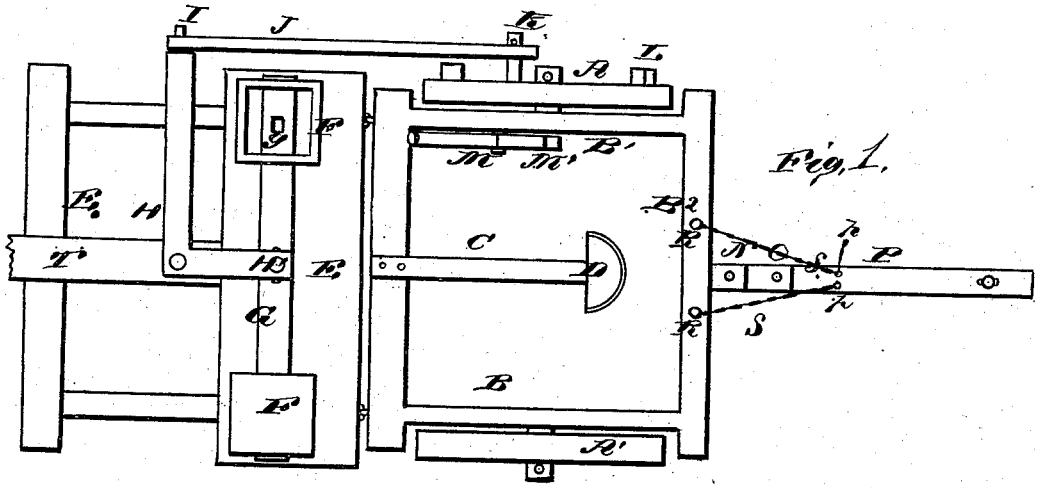

Fig. 1.

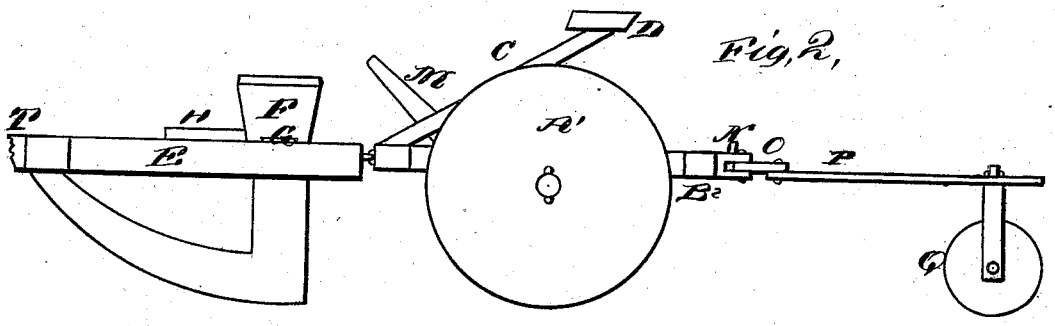

Fig. 2.

WITNESSES

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SAMUEL H. WORTH, OF MEMPHIS, MISSOURI, ASSIGNOR OF ONE-HALF HIS RIGHT TO ALBERT SNYDER.

IMPROVEMENT IN CHECK-ROWERS AND DROPPERS.

Specification forming part of Letters Patent No. **190,110**, dated April 24, 1877; application filed February 10, 1877.

To all whom it may concern:

Be it known that I, SAMUEL H. WORTH, of Memphis, in the county of Scotland and State of Missouri, have invented a new and valuable Improvement in Check-Rowers and Droppers; 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 representation of a plan view of my check-rower and dropper, and Fig. 2 is a side view of the same.

This invention relates to corn-planters which are provided with attachments for checking or marking the spots where hills are to be formed; and it consists in the construction and arrangement of the devices hereinafter particularly described and claimed.

In the accompanying drawings, A A′ designate the transporting-wheels of my corn-planter, and B designates the vehicle-frame carried thereby. Said frame B supports a seat-bar, C, and driver's seat D, and to the front of it is hinged a supplemental frame or platform, E. Said platform E is provided with seed-boxes F F, one of which is arranged at or near each side of the same, on top thereof, and with a feeding-slide, G, which works across said platform E, and into the said seed-boxes. Each end of said slide is provided with a pocket or opening, *g*, which operates in the usual manner to cause or allow the passage of a charge of grain from the feed-box above said pocket or opening through a perforation in said platform. Any suitable form of dropping-tube may be employed, and platform or frame E may be supported by runners, or in any other convenient way.

Said slide G is caused to reciprocate longitudinally between and into seed-boxes F F by means of an L-shaped lever, H, which is pivoted at its angle to frame E in advance of the said slide. Said lever H operates horizontally. The end of its lateral arm is connected, by a wrist or stud, I, to a long longitudinally-reciprocating bar, J, which is operated by a crank-arm or wrist, K, eccentrically secured to the outside of transporting-wheel A. Each rotation of said wheel thus causes an endwise-reciprocating motion of said slide, thereby depositing a charge from each seed-box F. The said slide is slightly slotted at the point where lever H is attached thereto by pin or bolt H′, so as to allow a certain amount of play, and thereby prevent binding.

The said wheel A is provided on its outside with check-shoes or markers L, arranged at regular intervals, and extending beyond the circumference of said wheels, so as to mark or check upon the ground the spots where hills are to be formed above the corn previously planted. These shoes or markers may be of any construction or size capable of performing the required work, and both wheels, or only one, may be provided with them. The latter arrangement is shown in the drawings; but the former is preferable, being more exact.

M designates a lifting-lever, pivoted to the side bar B^1 of frame B, to which wheel A is journaled. Said lever M is provided with a downwardly and rearwardly extending arm, M′, which bears against the ground when the rear end of said lever M is depressed, thereby raising said wheel A. The enables the attachment of wrist or crank pin K, and reciprocating bar J to be inspected and changed with convenience.

N designates a block or clevis, secured to the rear cross-bar B^2 of frame B. In said block is pivoted the front end of a short rearwardly-extending bar, O, which has a long similarly-pivoted rearward extension, P, provided at its rear end with a caster guide-wheel, Q. Rear cross-bar B^2 is provided with two studs or pins, R R, one on each side of block N, from which bracing-chains S S extend to perforations *p p* in rearwardly-extending bar P. These parts O P Q are for the purpose of guiding the driver, and enabling the usual rows of stakes to be dispensed with. The draft is upon pole or tongue T, attached to supplemental front frame E. This machine may be employed for planting any kind of grain.

Guide-wheel Q follows directly behind the planter and check-row above described, midway between the tracks of wheels A and A′,

until the said vehicle begins to turn. Its successive pivotal attachments enable it to continue the same straight line to the end of the rows, thus leaving a mark which will be a reliable guide for the operator in beginning upon the next row.

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

The recessed block N, having the bar O pivoted thereto, in combination with the pivoted extension P, carrying the guide-wheel Q, and provided with the perforations *p p*, bracing-chains S S, and rear cross-bar B^2, having studs R R, substantially as described, 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.

SAMUEL H. WORTH.

Witnesses:

LEWIS MYERS,

A. B. MCANTIRE.