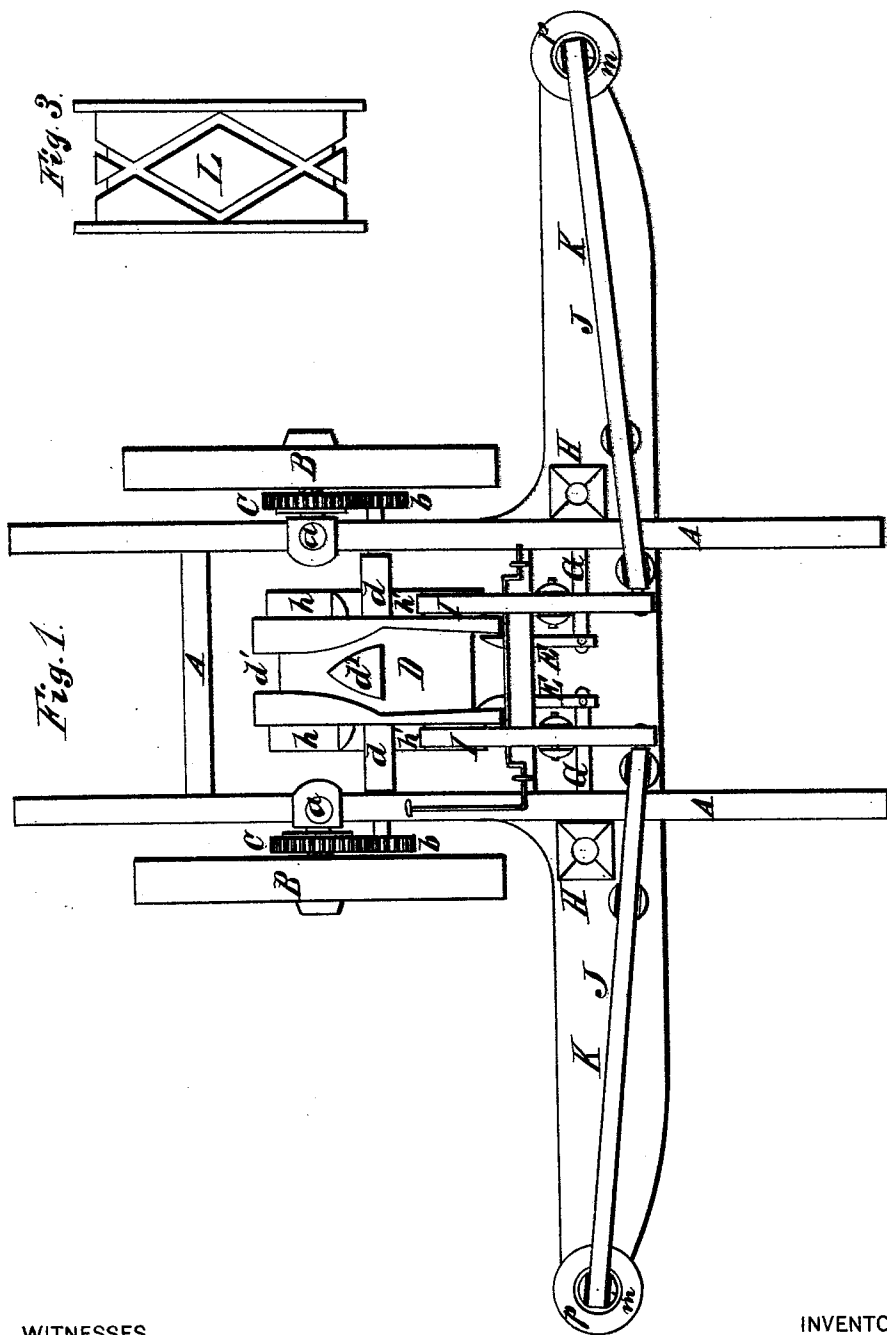


J. B. CONN.

CHECK-ROWERS FOR CORN-PLANTERS.

No. 180,846.

Patented Aug. 8, 1876.



WITNESSES

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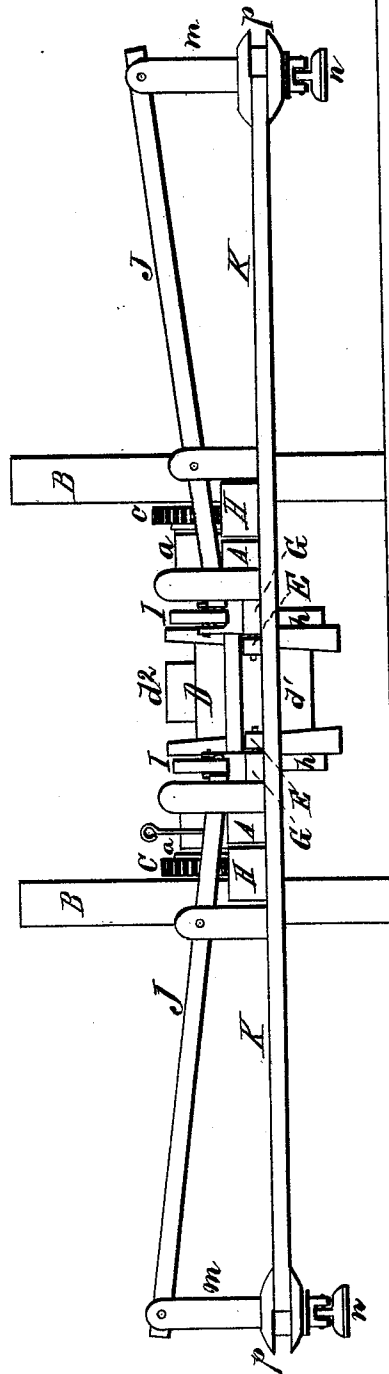
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Fig. 2.



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UNITED STATES PATENT OFFICE

JOHN B. CONN, OF HACKNEY, OHIO.

IMPROVEMENT IN CHECK-ROWERS FOR CORN-PLANTERS.

Specification forming part of Letters Patent No. **180,846**, dated August 8, 1876; application filed March 25, 1876.

To all whom it may concern:

Be it known that I, JOHN B. CONN, of Hackney, in the county of Morgan and State of Ohio, have invented a new and valuable Improvement in Check-Rower for Corn-Planters; 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 Fig. 2 is a front elevation thereof; and Fig. 3 is a detail view.

The nature of my invention consists in the construction and arrangement of a check-rower, as will be hereinafter more fully set forth.

In the annexed drawings, A represents the main frame, supported upon two wheels, B B, which are mounted upon short axles *a a*, and on each axle is a cog-wheel, C, which may be made movable, to be thrown in and out of gear with the driving-wheel by means of a lever (not shown in the drawings) suitably arranged for that purpose.

The cog-wheels C C mesh with pinions *b b*, placed upon the ends of a shaft, *d*, having its bearings in boxes secured to the main frame, and on this axle or shaft is secured the cam-wheel D. This wheel has a deep circumferential groove, *d*¹, which is made gradually narrower, until, at its narrowest portion, it branches toward both sides around a triangular block, *d*², placed thereon. In this groove work the rear ends of two pivoted levers, E E, the front ends of which are pivoted to the ends of the dropper-slides G G, working in the corn-boxes H H. As the cam-wheel D revolves, the rear ends of the levers E are drawn closer together by the gradually-diminishing groove *d*¹, and as the block *d*² reaches the levers they are thrown outward, causing the slides G G to be suddenly drawn to the proper position for dropping the corn.

On the sides of the wheel D are circular flanges *h*, each having an opening, *h'*, opposite the cam *d*² in the groove of the wheel. Each

flange operates upon the rear end of the lever I, the front end of which is pivoted to and operates the inner end of a lever, J. The outer end of this lever has a plunger-rod, *m*, pivoted to it, and at the lower end of said rod is pivoted the shoe *n*.

K is a platform or bar secured to the main frame A, and supporting the corn-boxes H H, as well as suitable posts, in which the levers I I and J J are pivoted. At each end of the bar K is a guide, *p*, for the passage of the rod *m*. As the wheel D revolves, the flanges *h* hold up the rear ends of the levers I, depressing the inner ends of the levers J, and thereby holding the shoes *n* up from the ground; but when the openings *h'* in said flanges reach the levers, the shoes at once drop down of their own weight, marking the ground at the same time as the corn is dropped, as above described, and on a line therewith. The levers I are, however, immediately acted upon by the flanges *h*, to raise the shoes and prevent them from dragging on the ground.

In a full-sized machine the pinions *b* will be connected with the shaft *d* by ratchets, so that the wheel D may be turned backward, if necessary, to set the machine so as to drop properly.

L represents a cam-wheel, to be put in place of the wheel D for drilling, when such is desired.

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

The wheel D, provided with the gradually-contracting circumferential groove *d*¹, triangular block *d*², and circular side flanges *h*, with openings *h'*, in combination with levers E, dropping-slides G, levers I I J J, rods *m*, and shoes *n*, all constructed and arranged to operate in the manner 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.

JOHN BROWN CONN.

Witnesses:

WILLIAM T. BELL,
JOHN THOMAS.