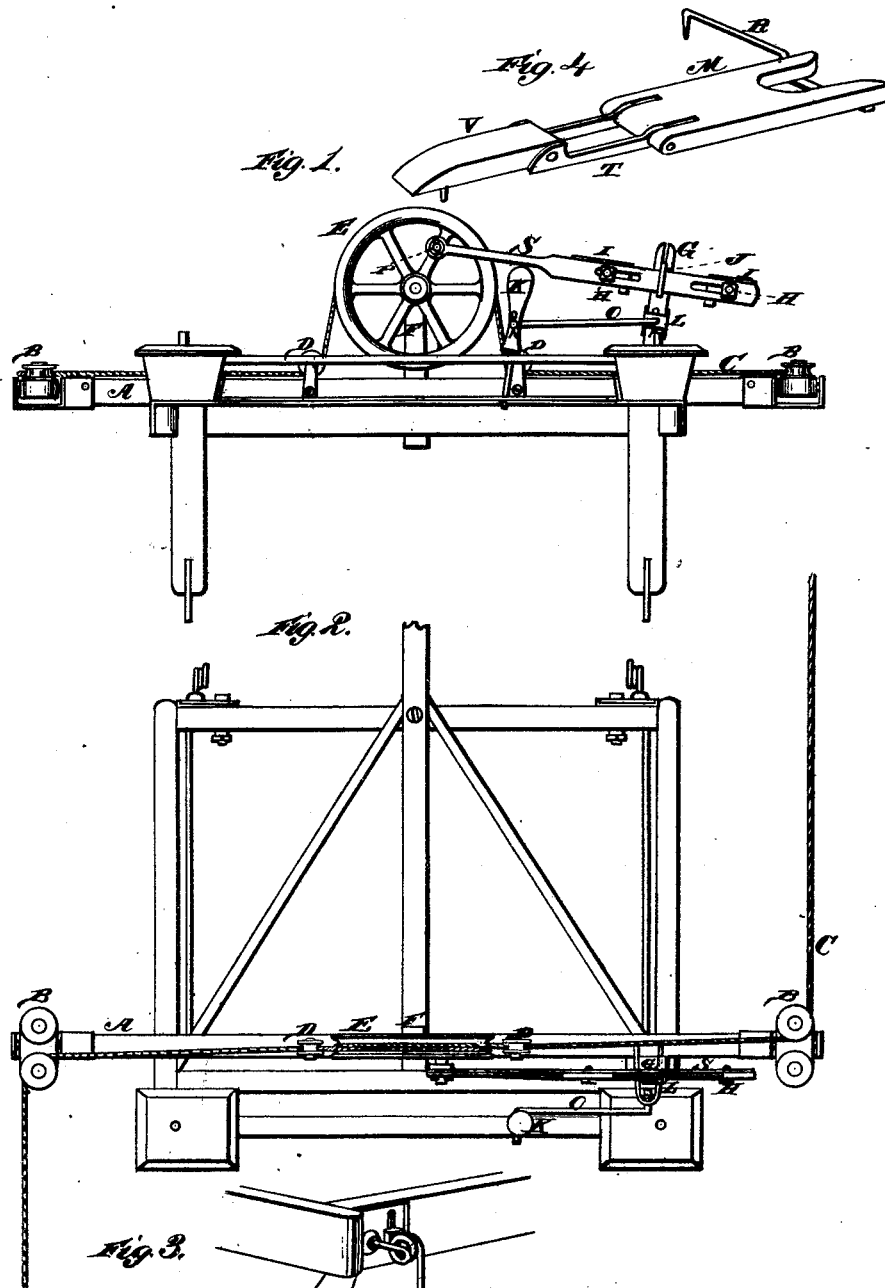


J. BABCOCK.  
Check Rower and Dropper.

No. 214,079.

Patented April 8, 1879.



WITNESSES.  
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INVENTOR.

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# UNITED STATES PATENT OFFICE.

JAMES BABCOCK, OF DECATUR, ILLINOIS.

## IMPROVEMENT IN CHECK-ROWER AND DROPPER.

Specification forming part of Letters Patent No. **214,079**, dated April 8, 1879; application filed January 4, 1879.

### *To all whom it may concern:*

Be it known that I, JAMES BABCOCK, resident of Decatur, in the county of Macon and State of Illinois, have invented a new and valuable Improvement in Check-Rower and Dropper; 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 rear elevation of my check-rower and dropper mechanism. Fig. 2 is a top-plan view of the same. Fig. 3 is a perspective detail view; and Fig. 4 is a perspective detail view of my starting attachment.

This invention has relation to attachments for check-rower and dropper machines; and it consists in the improvements in the construction of the same, hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings similar letters of reference indicate corresponding parts in the several figures.

A designates a cross-bar secured to the frame of a corn-planter, and having pivoted at each end a double pulley, B. C represents a drop cord or rope of sufficient strength, one end of which is staked down at one side of a field to be planted, and then extended across the same to the planter at the opposite side thereof and drawn taut. Its free end is then passed between the two end adjustable pulleys B, thence under one fixed pulley, D, thence over and once and a half around the grooved drive-wheel E, thence forward under the fixed pulley D, passing thence between the adjustable double pulleys B, and at right angles therefrom, forward to a stake at the end of the field. If, now, the planter be started, this cord or rope will impart rotary motion to the drive-wheel E, that is connected with vibrating lever G by means of pitman-shaft S.

The grooved drive-wheel E is fixed over cross-bar A by an upright standard, F, from which projects an axle, upon which the drive-wheel E hangs and revolves. From a spoke in the drive-wheel E a pitman-wrist, P, pro-

jects, to which is attached an adjustable slotted pitman-shaft, S, fastened to wrist P by loop and pin, passing vibrating lever G, and being swung in place by a staple, J, attached to vibrating lever G. The slotted pitman-shaft S is composed of double plates of metal slotted, with clamp-nuts H passing in the slot at will, and securing the third plates, I, movable therein between the double plates of slotted pitman-shaft S, and having projecting lips downward, that engage, alternately, the lower arm of the staple J when in motion, giving an intermittent action to vibrating lever G, and connected to drop-lever K by a rod, O. The stroke may be shortened or lengthened at will by means of the clamping-nuts H and plates I upon the slotted pitman-shaft S.

The vibrating lever G is an upright standard, attached to cross-bar A, and hinged thereto by loop and pin, having lateral or swinging motion when in use by reason of hinging. To vibrating lever G is attached an adjustable jaw, L, fastened by bolt and nut. To the closed or looped end of the jaw L attaches a metal rod, O, reaching from drop-lever K to jaw L, bent at right angles, and entering the drop-lever K and jaw L, and fastened thereto through holes by pins in both ends of metal rod O. Drop-lever K, by its connection with the vibrating lever G, actuates the dropper-slides to a planter intermittently, thereby causing two hills of seed to be dropped at each revolution of the grooved drive-wheel E at regular intervals apart across the field.

In connection with and made part of the combined attachments to check-rower and dropper mechanism is a device for preparing the starting in motion of the corn-planter correctly and in line.

M is a plate of wood, with end open and jaw-shaped, all parts lying on the ground, in rear of and in open end of which stands the heel of planter-shoe when at rest. At direct angles and passing under the jaw, is a metal anchor-rod, R, extending out and bent with point downward, anchoring the same into the opposite hill of corn, the length thereof spacing the width of the row to be planted at a proper interval. At the other end of wooden plate M are double parallel metal bars T, of proper length, fastened to wooden plate M by means

of letting in to a sufficient depth to form, by use of holes through wood and bars of metal in cross-section, with a rod of metal as axle, a hinge, movable vertically, said parallel hinge-bars T being of sufficient length to receive and hold the wheel of the corn-planter in position for starting. At the other end of parallel hinge-bars T the same are made to secure a shoe or plate of wood, V, inside, and by use of holes through parallel metal bars T and shoe of wood V in cross-section, and a metal rod as axle, a similar hinge is formed as in parallel metal bars T and plate of wood M.

Adjustable vibrating rods W are fastened to the front cross-bar of a common planter-frame, in line and in front of and perpendicular to the planter-shoe, extending downward to a desired depth, for the purpose of clearing the ground of corn-stalks, clods, or trash, and leveling in front of the planter-shoe when in motion and planting corn or drilling.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The registering attachment consisting of the jawed plate M, anchor R, bars T, and shoe V, as and for the purposes set forth.

2. In combination, the slotted pitman S, consisting of two outer plates and the intermediate plates I, the wheel E, vibrating lever G, adjustable jaws L, rod O, and drop-lever K with the feed-slide, substantially as 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.

JAMES BABCOCK.

Witnesses:

THOMAS BIVANS,  
CHAS. H. FULLER.