

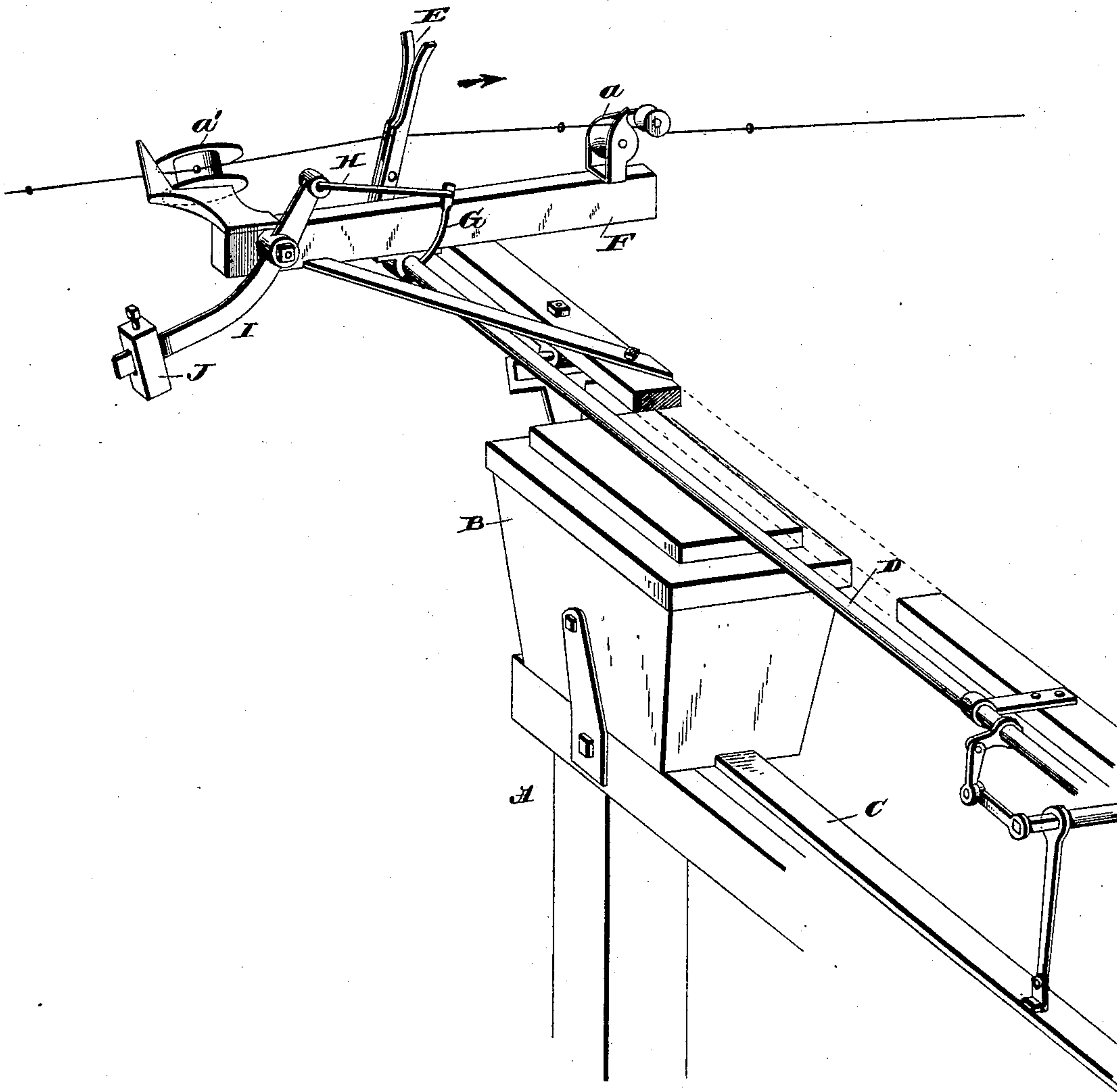
(No Model.)

J. L. BROTT.

ATTACHMENT FOR CHECK ROW CORN PLANTERS.

No. 390,066.

Patented Sept. 25, 1888.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JEROME L. BROTT, OF EUSTIS, NEBRASKA.

## ATTACHMENT FOR CHECK-ROW CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 390,066, dated September 25, 1888.

Application filed May 24, 1888. Serial No. 274,952. (No model.)

*To all whom it may concern:*

Be it known that I, JEROME L. BROTT, a citizen of the United States of America, residing at Eustis, in the county of Frontier and State of Nebraska, have invented certain new and useful Improvements in Attachments for Check-Row Corn-Planters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in means for operating the rock-shaft of check-row corn-planters, the object of the same being to provide a means for moving the rock-shaft, which is operated by a tappet or check-row wire in one direction and in the opposite direction by means of a pivoted lever and weight, which weight can be so adjusted as to regulate the force and quickness of the movement of the seed-slide, as will be hereinafter fully set forth, and specifically pointed out in the claims.

Prior to my invention springs have been employed for operating the rock bar or shaft in one direction; but springs have been found in practice to have serious objections, as they rapidly give out and deteriorate by exposure to the weather. They also move the rock-shaft with such rapidity that the movement imparted therefrom to the seed-slide is so quick that it frequently injures and breaks the seed. Rock-shafts for check-row corn-planters have also been provided with a projecting arm carrying a weight for moving the same in one direction, the aforesaid weight being connected directly to an arm projecting from the rock-shaft and not adjustable thereon.

In the accompanying drawing, which illustrates my invention, A refers to the frame of a check-row corn-planter; B, the seed-box, and C the seed-slide, which is connected to the rock-shaft D, which carries the tappet or forked lever E. This rock-shaft is mounted in suitable bearings supported above the seed-boxes, and to the outer ends of a cross-bar attached to its support are the guide-rollers *a* and *a'*, which are secured to the bar F to be on a line with the forked arm or tappet E.

The rock-shaft D is connected to the seed-slide by suitable connections, as shown, so that when the same is rocked the seed-slide will be reciprocated.

Adjacent to the inner side of the bearing for the rock-shaft, attached to the under side of the bar F, is rigidly secured to said rock-shaft a projecting arm, G, the outer end of which has formed therein an eye, with which engages a link, H, the opposite end of which connects with an eye formed in one end of the lever I, said lever being pivoted to the front end of the bar F. The lower end of this lever is curved, as shown, and is provided with an adjustable weight, J, which can be moved upon the end of the arm of the lever and secured thereto in any desired position by a set-screw.

The operation of my invention is as follows: When the corn-planter is moved across the field, the buttons upon the wire will engage with the tappet or forked lever E and move the same in the direction indicated by the arrow, and at the same time the weighted end of the lever will be raised, the shaft D partly turning in its bearings, so as to move the seed-slide in one direction to drop the seed from the seed-boxes into the seed-spouts. As the tappet is depressed by the buttons upon the wire, the button will leave the slot therein and the weighted lever will move automatically downward, so as to bring the tappet in engagement with the next button of the check-row wire. The rapidity and force of the movement of the tappet and seed-slide can be readily adjusted by adjusting the weight J upon the pivoted lever I; and by means of this construction the seed-slide does not have a forcible and rapid movement as soon as the tappet is released, but said movement is gradual and uniform, but sufficient to operate the rock-bar without employing such force as would break the seed if it should catch in the seed-slide. When springs are employed, the movement of the seed-slide is at first very rapid and decreases until the full movement of the rock-bar has been reached.

The device hereinbefore described is not affected by wear or by exposure to the weather, and is therefore not liable to get out of order.

Having thus described my invention, I claim—

1. In a check-row corn-planter, the combina-

tion, with the seed-slide, the rock-shaft having a forked arm, and connections between the seed-slide and rock-shaft, of the crank-arm G, rigidly secured to the rock-shaft, the weighted  
5 lever, and a rod or link for connecting the crank-arm with said lever, substantially as described.

2. In a check-row corn-planter, the combination, with the seed-slide, the rock-shaft having a forked arm, and connections between the  
10 slide and rock-shaft, of the crank-arm, the

curved lever having an adjustable weight on its long arm, and a rod or link for connecting the short arm of the lever with the crank-arm of the rock-shaft, substantially as described. 15

In testimony whereof I affix my signature in presence of two witnesses.

JEROME L. BROTT.

Witnesses:

M. B. MARTIN,

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