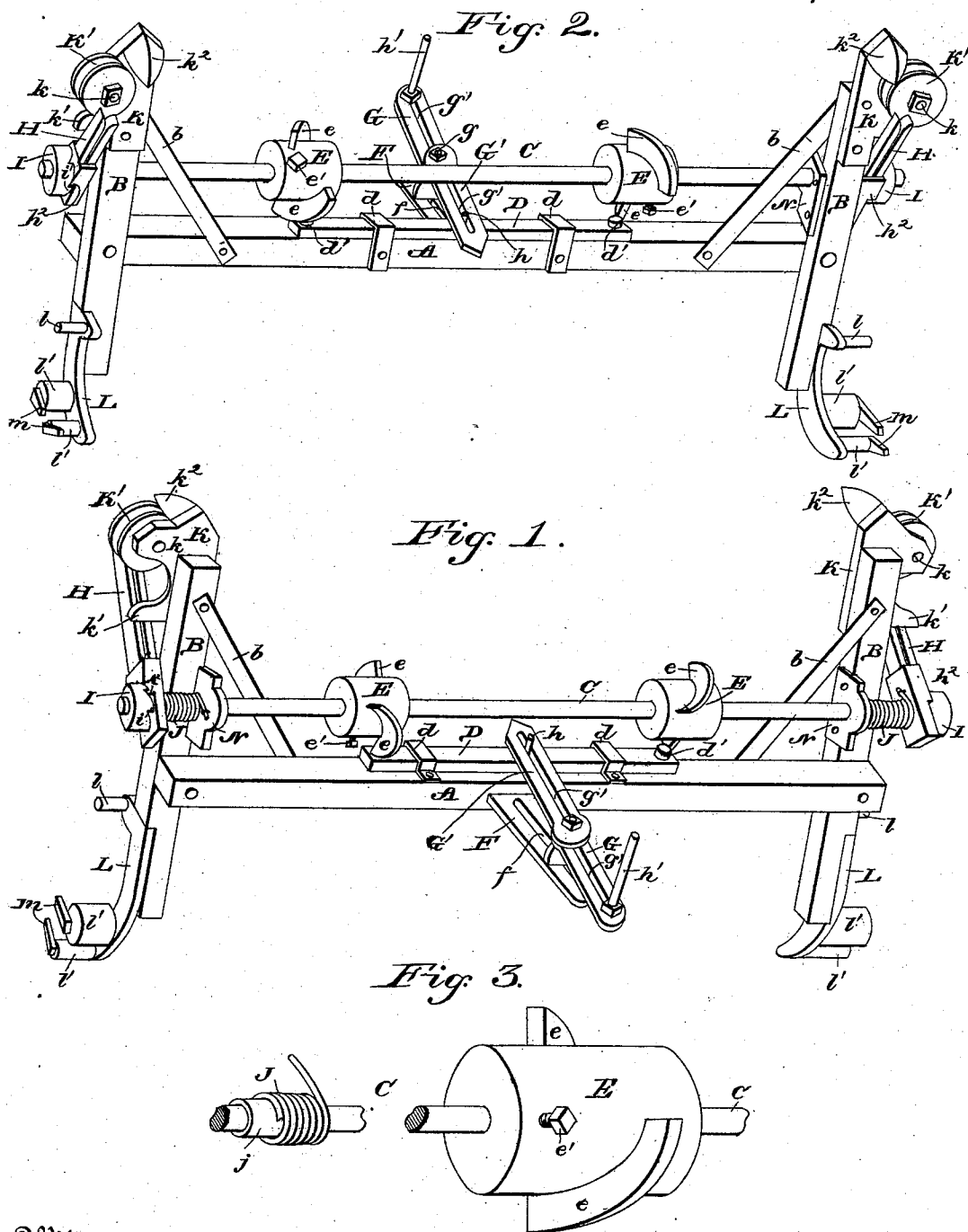


(No Model.)

H. M. REESOR.
CHECK ROW CORN PLANTER.

No. 352,202.

Patented Nov. 9, 1886.



Witnesses

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UNITED STATES PATENT OFFICE.

HARRY MYRON REESOR, OF MACOMB, ILLINOIS.

CHECK-ROW CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 352,202, dated November 9, 1886.

Application filed July 20, 1886. Serial No. 208,556. (No model.)

To all whom it may concern:

Be it known that I, HARRY MYRON REESOR, a citizen of the United States, residing at Macomb, in the county of McDonough and State of Illinois, have invented a new and useful Improvement in Check-Row Corn-Planters, of which the following is a specification.

My invention relates to mechanism for actuating the dropping-slides of corn-planters, such mechanism being operated by a knotted wire stretched across the field; and the object of my invention is to improve the construction and increase the efficiency of this class of mechanism.

To the above purpose my invention consists in certain peculiar and novel features of construction and arrangement, as hereinafter described and claimed.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved check-row attachment, looking at the front of the same, the parts being partially inverted in order to more clearly show details of construction of the mechanism. Fig. 2 is a similar view looking at the rear of the same, the position of the parts being reversed as compared with Fig. 1. Fig. 3 is a detached view illustrating certain details of construction.

In the said drawings, A designates a beam which rests upon the seed-planting machine. At each end of this beam is secured a horizontal beam, B.

C designates a shaft, which extends from one bar, B, to the other, above the beam A, and parallel to the latter, the ends of said shaft resting in bearing-plates N upon the said beams B. The beams B are strengthened against lateral strains by the oblique braces b, leading to the beam A.

Upon the beam A is secured a sliding bar, D, the movement of which is controlled by straps d d, embracing the bar and secured to the beam. At each end of the bar D is placed a friction-roller, d', and these rollers are engaged by cams e upon sleeves E, which are secured to shaft C by set-screws e', as shown. Upon the front side of beam A is secured a

bracket, F, having a longitudinal slot, f, within which slot works a pivot, g, for the seed-slide-operating arm G. This operating-arm is really formed in two parts, G G', each of which is formed with a longitudinal slot, g'. In the slot of section G' works a pin, h, upon sliding bar D, while a pin, h', working in slot g' of section G engages the dropping-slide of the planter.

At each end of the shaft C is loosely mounted a forked lever, H, between the arms of which passes the check-row wire, and the tappets upon said wire throwing the levers as the machine is drawn along. At the point of attachment of each lever H to the shaft C said lever is formed with a notch or shoulder, h², which engages one of four teeth, i, upon the contiguous clutch I, which is secured rigidly to the end of shaft C. By this means each throw of the levers H serves to partially turn the shaft C, and through the cams e and sliding bar D to actuate the dropping-slide of the planter. Each lever H is returned, after each throw by the check-row wire, by a spring, J, surrounding the end of shaft C, and interposed between the contiguous bearing-bracket N on bar B and the lever H. In order to prevent the springs J from wearing the shaft C, a sleeve, j, is interposed between each spring and the shaft.

At one end of the outer extremities of the bar B, at the front thereof, is secured a bracket, K, in the form of a casting, said bracket having a lug, k, upon which the pulley K' for the check-row wire is mounted; also a lug, k', which serves as a stop to limit the backward throw of the forked levers, and an upwardly-extending lug, k², which serves to guide the check-row wire to the pulley K'. At the opposite rear end of each bar B is secured a bracket, L, at the inner end of which is a projection, l, which serves as a stop for the forked lever, to limit the throw of the same, while upon the rear end of said bracket are mounted two rollers, l' l', between which passes the check-row line from the pulley K', guards m being placed upon the outer ends of the spindles of said rollers to confine the check-row wire properly between said rollers.

The operation of the above-described mechanism is as follows: As the planter is drawn

along, the tappets upon the wire successively
throw the forked lever downward, and turn
the shaft C intermittently at each throw. The
cam-blocks E on the shaft C are so set that
5 their cams *e* work oppositely to each other
upon the rollers *d'* of sliding bar D, and thus
throw said bar first one way and then the other
to actuate the arm G, and through it the drop-
ping-slide of the planter. The length of throw
10 of the arm G, and consequently the degree of
movement of the dropping-slide, may be reg-
ulated either by varying the positions of the
cam-blocks upon shaft C or by varying the
position of pivot *g* in slot *f* of bracket F, by
15 varying the length of arm G or the position
of pin *h'* in slot *g*; hence a very accurate ad-
justment of the mechanism may be effected.

Having thus described my invention, what I
claim as new, and desire to secure by Letters
20 Patent, is—

The combination of a horizontal beam, a

rotary shaft having the tappet-arms, the cams
carried by the rotary shaft, a reciprocating
bar, D, supported on the beam and having the
rollers at its ends arranged in the path of the
cams, and a projecting pin, *h*, at its middle, a
25 slotted arm, F, affixed to the beam and having
a pin, *g*, adjustably connected thereto, a slot-
ted bar, G', pivoted centrally to the pin *g*, and
having the pin *h* fitted in the slot in its inner
30 end, and an adjustable pin, *h'*, fitted in the
slot of the opposite end of the bar and adapted
to connect the latter with the seed-slide, sub-
stantially as described, for the purpose set forth.

In testimony that I claim the foregoing as
35 my own I have hereto affixed my signature in
presence of two witnesses.

HARRY MYRON REESOR.

Witnesses:

H. C. AGNEW,

GEORGE STICKEL.