

No. 653,330.

Patented July 10, 1900.

C. H. WELCH.
CHECK ROW PLANTER.
(Application filed Mar. 14, 1900.)

(No Model.)

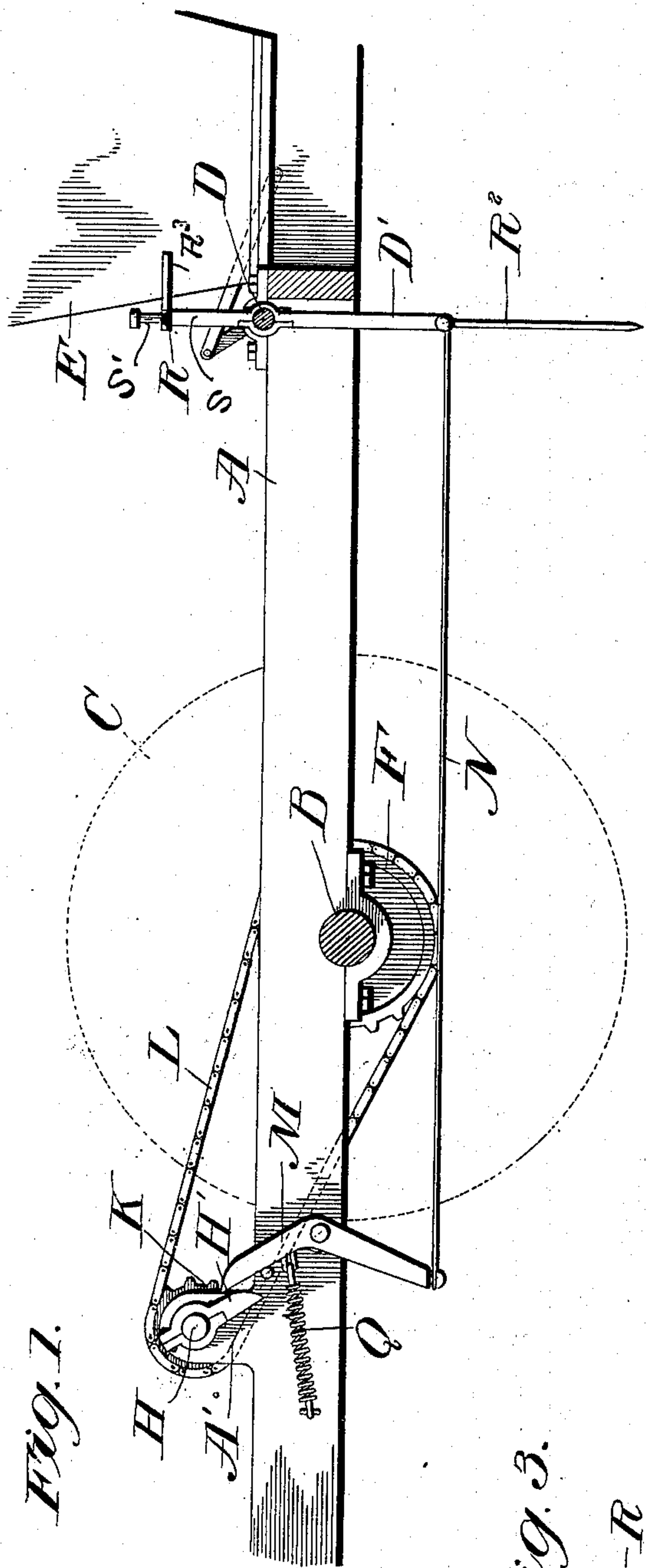


Fig. 1.

Fig. 2.

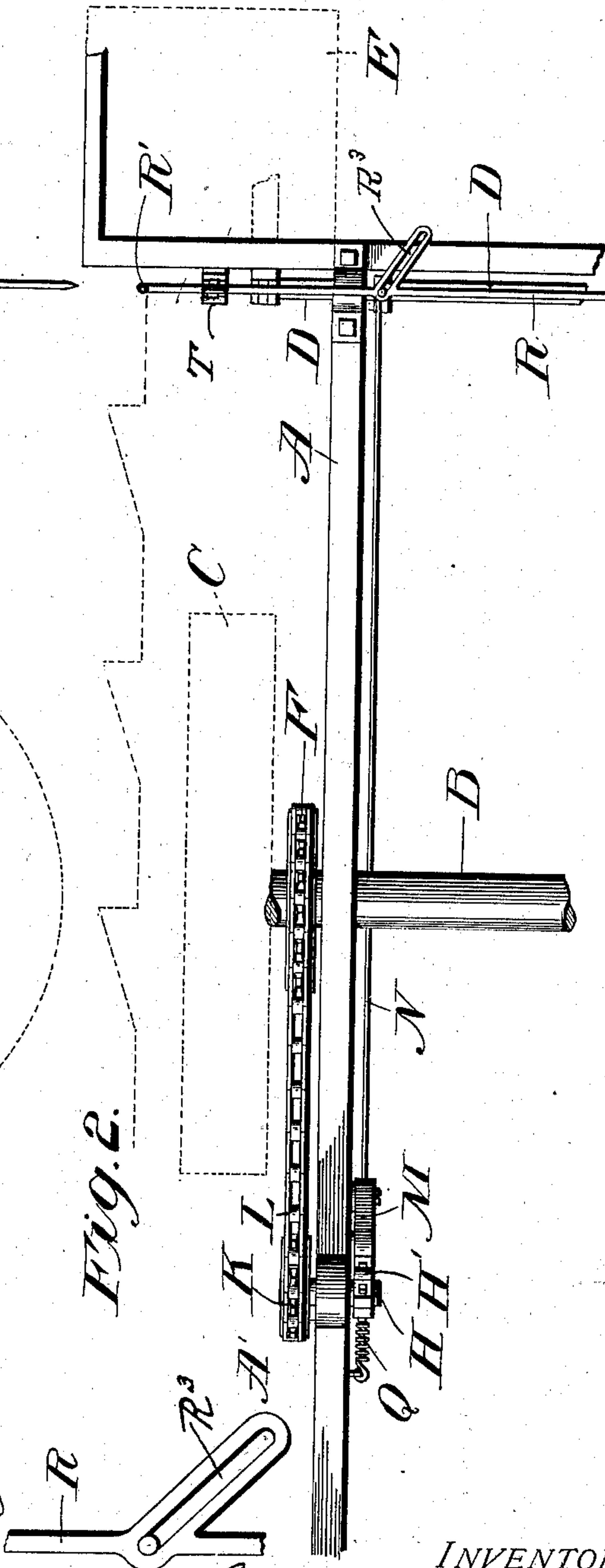


Fig. 3.

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CHARLES H. WELCH, OF HINDSBOROUGH, ILLINOIS.

CHECK-ROW PLANTER.

SPECIFICATION forming part of Letters Patent No. 653,330, dated July 10, 1900.

Application filed March 14, 1900. Serial No. 8,653. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. WELCH, a citizen of the United States, residing at Hindsborough, in the county of Douglas and State of Illinois, have invented certain new and useful Improvements in Check-Row Planters; and I do 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 drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in planters, and especially to a wireless check-row corn-planter and marker, and in carrying out my invention I provide means for dropping the corn at predetermined locations without the use of check-row wire and at the same time actuate means for marking the locations for the hills; and the invention resides, further, in the provision of a pivoted treadle which has connections with the shaft regulating the exit-apertures in the seedboxes, said treadle adapted to be tripped at each revolution of a shaft carrying an arm adapted to contact with the treadle, said shaft having sprocket-chain-and-wheel connection with the main driving-shaft.

To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and arrangement of parts, as will be herein- after more fully described, and then specifically defined in the appended claims.

My invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form part of this application, and in which—

Figure 1 is a vertical sectional view through the corn-planter, showing my attachment secured thereto. Fig. 2 is a top plan view showing the arrangement of the marking attachment, and Fig. 3 is a detail view.

Reference now being had to the details of the drawings by letter, A designates the frame of the planter, in which is mounted in suitable bearings a shaft or axle B, on which are mounted the ground-wheels C. On the forward part of the frame is mounted a rock-shaft D, which as the latter is rocked allows

seed to be dropped from the seedboxes E in any well-known manner. (Not illustrated.) This rock-shaft and connections between the same and the seedbox are of ordinary construction common in the art and for which I claim no invention. Keyed to rotate with the operating-shaft is a sprocket-wheel F, and mounted upon a standard A' on the frame is a shaft H, which has keyed to one end a sprocket-wheel K, between which and the sprocket-wheel F is a sprocket-chain connection L. Pivoted to the inner face of one of the side rails of the frame A is a pivoted angle-lever M, to the lower end of which is pivoted one end of the rod N, the other end of said rod N being pivoted to a pin carried by the arm D', which is secured to and rocks with the shaft D. On the inner end of the shaft H is a beveled arm H', secured to and rotating with said shaft, and the free end of said arm is adapted at each revolution to strike against the free end of said lever M, thus causing the latter to turn upon its pivot and through its connections with the rock-shaft D to cause the latter to rock, and as said shaft rocks the seed is allowed to drop from the said boxes. In order to return the lever M to its normal position after being tripped by the arm H', a spring Q is provided, one end being secured to said pivoted lever and its other end to the frame A.

The marker which forms a part of the present invention consists of the rod R, which is horizontally mounted upon the frame of the planter and has an angled end R² downwardly bent, the free end of which contacts against the ground. The rod R is journaled in suitable bearings T, and the crank-arm S, which actuates said rod, has a contracted portion S' near its end, which contracted portion passes through the slot R³, formed in a portion of said rod. As the rod N rocks the shaft or rod D the upper end of the crank-arm S will slide back in said slot and impart a longitudinal movement to the marker, and the ends of the marker will describe the line shown in dotted lines in Fig. 2.

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

1. In a check-row planter, the combination with the frame, the shaft and ground-wheels,

a rock-shaft for regulating the dropping of the seed, an arm on said rock-shaft, an angle trip-lever pivoted to said beam, a rod connecting said arm and lever, a shaft H, and
5 means for driving same by connections with the main shaft, an arm H' at right angles to and rotating with said shaft H, and adapted to trip the upper end of said angle-lever, at each revolution of the shaft A, and a spring
10 for returning the angle-lever to its normal position, as set forth.

2. In combination with the frame of a check-row planter, the pivoted and spring-actuated angle-lever, the shaft with arm rotating there-
15 with, which latter is adapted to trip said an-

gle-lever, the rock-shaft with arm D' thereon, and connections between the latter and the said angle-lever, the longitudinally-movable angled marker-rod D having a slotted arm disposed at an angle as shown, an upright 20 arm carried by the rock-shaft, and provided with a contracted portion near its free end, which is designed to work in said slotted arm, as set forth.

In testimony whereof I affix my signature 25 in presence of two witnesses.

CHARLES H. WELCH.

Witnesses:

C. H. CARNAHAN,

WM. L. WORLEY.