(No Model.)

J. M., T. D. & N. TOY.

CHECK ROW ATTACHMENT FOR CORN PLANTERS.

No. 261,279. Patented July 18, 1882.

Fig: 1.

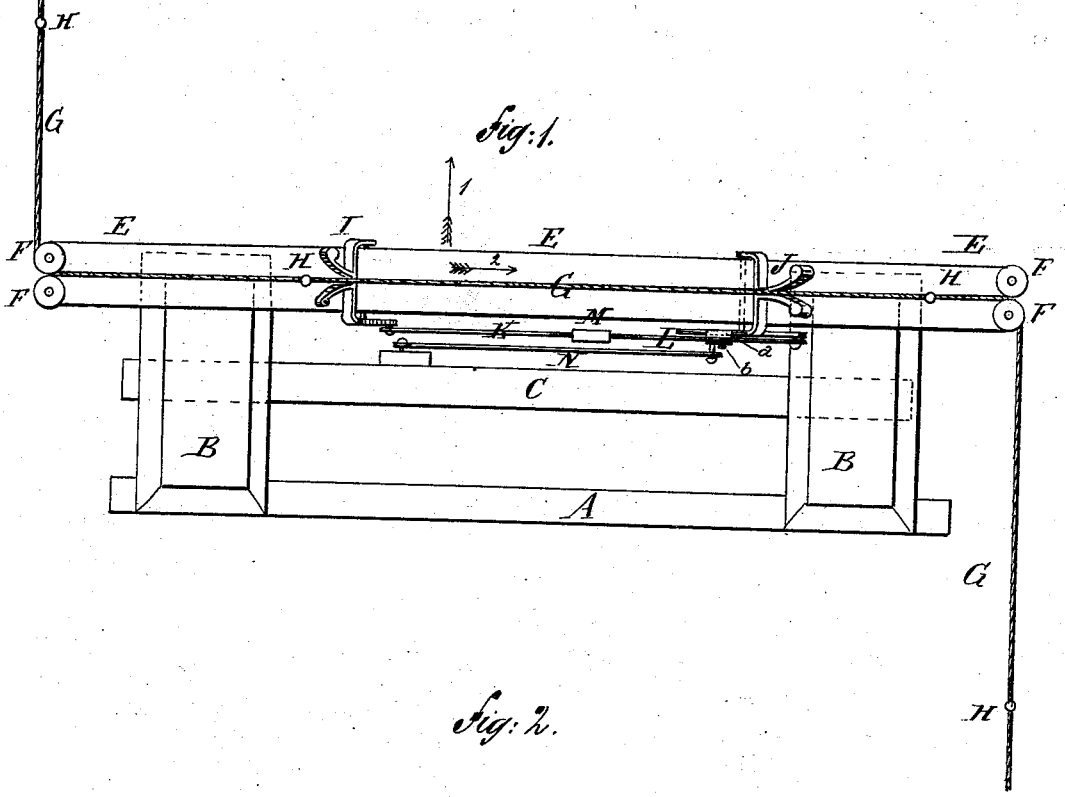


Fig: 2.

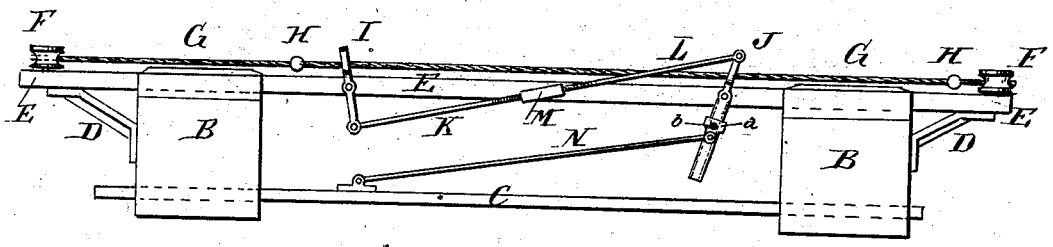
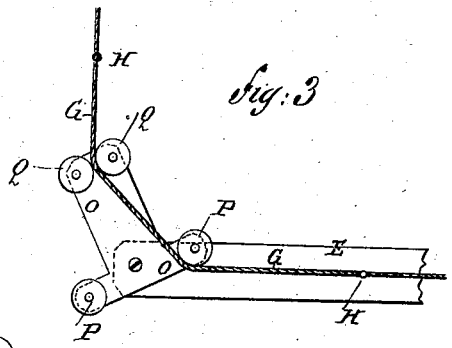


Fig: 3



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UNITED STATES PATENT OFFICE.

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CHECK-ROW ATTACHMENT FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 261,279, dated July 18, 1882.

Application filed April 11, 1882. (No model.)

To all whom it may concern:

Be it known that we, JAMES M. TOY, THOMAS D. TOY, and NELSON TOY, all of Washburn, in the county of Woodford and State of Illinois, have invented a new and useful Improvement in Check-Row Attachments for Corn-Planters, of which the following is a specification.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of our improvement. Fig. 2 is a rear elevation of the same. Fig. 3 is a plan view of a modification of the same.

The object of this invention is to facilitate the planting of corn in accurate check-rows.

The nature of this invention consists in the combination and arrangement of parts, substantially as hereinafter fully set forth and claimed.

A represents the cross-bar of a planter-frame, to which the seed-boxes B are attached.

C is the slide by which the seed is removed from the seed-boxes B and dropped to the ground.

To the seed-boxes B, or to arms D attached to the said seed-boxes, or other convenient part of the frame, is attached a cross-bar, E, the ends of which project beyond the sides of the planter-frame.

To each end of the bar E are pivoted two guide-pulleys, F, between which the cord or wire G passes. The cord G extends across the field, and is provided with knots or knobs H to operate the seed-dropping mechanism.

To the cross-bar E, upon the opposite sides of its center, are pivoted two levers, I J, the upper ends of which are forked in such a manner that the said levers will be turned by the knots of the cord G, but will allow the smooth parts of the said cord to pass through the said forks freely.

To the lower end of the forked lever I is pivoted the outer end of a rod, K, the inner end of which is connected with the inner end of the rod L by a right-and-left nut, M. The outer end of the rod L is pivoted to the upper part of the forked lever J or to an upwardly-projecting arm attached to the said lever. With this construction the operator, by turning the right-and-left nut M, can adjust the forked levers I J to cause the hills to be planted wider apart or closer together, the knots H upon the cord G being placed at a corresponding distance apart.

To a clamp, *a*, secured by a set-screw, *b*, to the lower part of the forked lever J, is pivoted the upper end of a rod, N, the lower end of which is pivoted to the seed-dropping slide C. With this construction, as the planter is drawn forward in the direction of arrow 1 the cord G will be drawn across the machine in the direction of arrow 2. As each knot H strikes the forked upper end of the lever I it turns the said upper end to the right and then passes on. This movement of the forked lever I moves the upper end of the forked lever J to the left, so that it will be in proper position to be struck by a knot, H, of the cord G and turned to the right, which movement of the forked lever J turns the upper end of the forked lever I to the left ready to be operated by the next knot H. Each movement of the levers I J moves the slide C and drops the seed, so that the hills will be at a distance apart equal to the distance apart of the knots H on the cord G.

The lower part of the forked lever J may be perforated with a number of holes, or may be slotted to receive the pivoting-bolt of the rod N, so that the upper end of the said rod can be adjusted nearer to or farther from the pivot of the said forked lever J, to give a longer or shorter movement to the seed-dropping slide C, as may be required.

If desired, the upper end of the rod N can be connected with the right-and-left nut M, or the rod N can be omitted and the inner ends of the rods K L connected with the seed-dropping slide C, which receives the same movement in either case. These different arrangements adapt the attachment to be applied to any of the ordinary corn-planters.

In case a wire be used for operating the seed-dropping mechanism the pulleys F can be detached and a three-armed bar, O, pivoted to each end of the cross-bar E. The bar O has a pulley, P, pivoted to each of its opposite arms and a pair of pulleys, Q, pivoted to its

third arm, as shown in Fig. 3, so that the said wire will not have to make so short a turn as it would if it passed around a single pulley.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

In a check-row attachment for corn-planters, the combination, with the cross-bar E, having the three-armed pivoted bars O, provided with pulleys P Q and knotted rope or wire G, of the bifurcated levers I J, pivoted to the cross-bar E and connected together by the sectional rod K L, one section having a right-hand screw-thread and the other section a left-hand screw-thread, and said sections united by an adjusting-nut, M, pitman N, and seed-slide C, substantially as and for the purpose set forth.

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Witnesses:
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