(No Model.)

F. M. ELLIOTT.

CHECK ROWER.

No. 288,040. Patented Nov. 6, 1883.

Fig 1

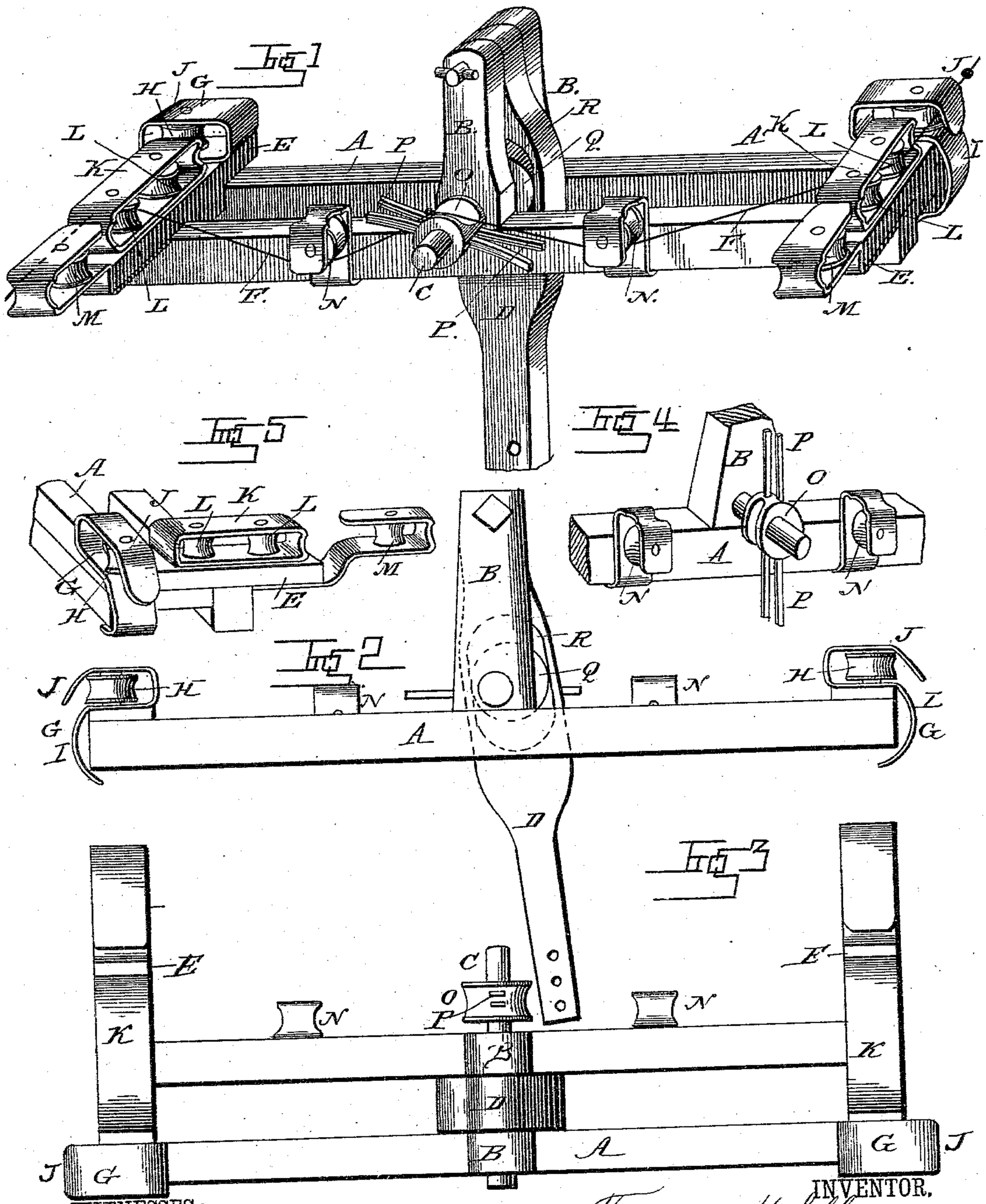

Fig 5

Fig 4

Fig 2

Fig 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANCIS M. ELLIOTT, OF SUMMUM, ILLINOIS.

CHECK-ROWER.

SPECIFICATION forming part of Letters Patent No. 288,040, dated November 6, 1883.

Application filed August 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. ELLIOTT, a citizen of the United States, and a resident of Summum, in the county of Fulton and State of Illinois, have invented certain new and useful Improvements in Check-Rowers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved check-row mechanism for corn-planters. Fig. 2 is a front view of the same. Fig. 3 is a top view, and Figs. 4 and 5 are detail views of the pulleys and of the disk operated by the check-wire.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to check-row mechanism for corn-planters; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the frame, upon the center of which are two uprights, B, forming bearings for the operating-shaft C and for the slide-operating slotted lever D, while the ends of the two parallel bars forming the frame are provided with cross-bars E, upon which the pulleys over which the check-wire F passes are journaled. Upon the forward end of each of the said cross-bars is fastened a bracket, G, consisting of a flat bar bent double, forming a stirrup, between which the forward pulley, H, is journaled, and the lower end of the said flat bar is bent downward upon the outer side of the cross-bar, forming a fender, I, for the purpose of preventing the check-wire from slipping under the frame, and for the purpose of guiding the said wire in under the downwardly-bent upper end, J, of the flat bar, which prevents the wire from slipping off the pulley.

A frame, K, is pivoted with one side upon the center of each of the cross-pieces, turning in a horizontal plane, and two pulleys, L, are journaled in the ends of this frame, leaving a space between them, through which the check-wire passes, passing out at the rear, upon the other side, over a pulley, M, journaled in a bracket upon the rear end of the cross-bar.

Two guide-pulleys, N, are journaled upon the side of one of the frame-pieces, and the wire passes under the said pulleys, which are journaled one upon each side of the operating-shaft, and over a grooved disk or pulley, O, fastened upon the rear end of the said shaft—and having two parallel bars, P, passed diametrically through the said disk and shaft, one upon each side of the groove in the disk.

An eccentric disk, Q, is fastened upon the shaft between the uprights, and turns in a longitudinal slot, R, in the seed-slide-operating lever, rocking the said lever when the shaft is revolved.

It will thus be seen that the knotted wire passes over the forward pulley upon one side, between the pulleys journaled in the frame, under one guide-pulley, over the central grooved pulley, each knot upon the wire engaging two ends of the parallel bars and tilting them, under the other guide-pulley, between the pulleys in the pivoted frame upon the other side, and out at the rear over the rear pulley at that side.

It will also be seen that when the planter is turned it is only needed to move the anchor at the end of the row, the pivoted frame in which the pulleys which guide the wire across the machine swinging sufficiently to allow the wire to slip in under the overhanging upper end of the front bracket, when the machine may be propelled back again, planting a new row, the wire passing in at the side at which it recently passed out, utilizing the forward pulley upon that side and allowing its rear pulley to be idle, while the wire passes out at that side at which it recently passed in, idling the forward pulley and using the rear pulley at that side.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A wire-operated disk in a check-rower, consisting of a grooved pulley fastened upon a shaft, and two parallel bars passed diametrically through the pulley and shaft, one upon each side of the groove in the disk, as and for the purpose shown and set forth.

2. In a check-rower having the wire-op-

erated mechanism in its center, the combination of the forward pulleys, the brackets for said pulleys, having their ends bent downward, the pivoted frame, the pulleys journaled in said frame, the rear pulleys, and the brackets in which said pulleys are journaled, one forward pulley, one pivoted frame, and one rear pulley being on each side of the frame, as and for the purpose shown and set forth.

3. The combination of the forward pulleys, the central pivoted frames having pulleys, the rear pulleys, the guide-pulleys, the grooved pulley having the parallel transverse arms, the knotted check rope or wire, the eccentric disk fastened upon the same shaft as the grooved pulley, and the longitudinally-slotted seed-slide-operating lever pivoted at its end, all constructed to operate as and for the purpose shown and set forth.

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

FRANCIS M. ELLIOTT.

Witnesses:

J. L. BAUMGARTNER,

JOSEPH ELLIOTT.