No. 678,900. Patented July 23, 1901.

P. A. PETERSON.

CORN PLANTER.

(Application filed Mar. 12, 1901.)

(No Model.) 2 Sheets—Sheet 1.

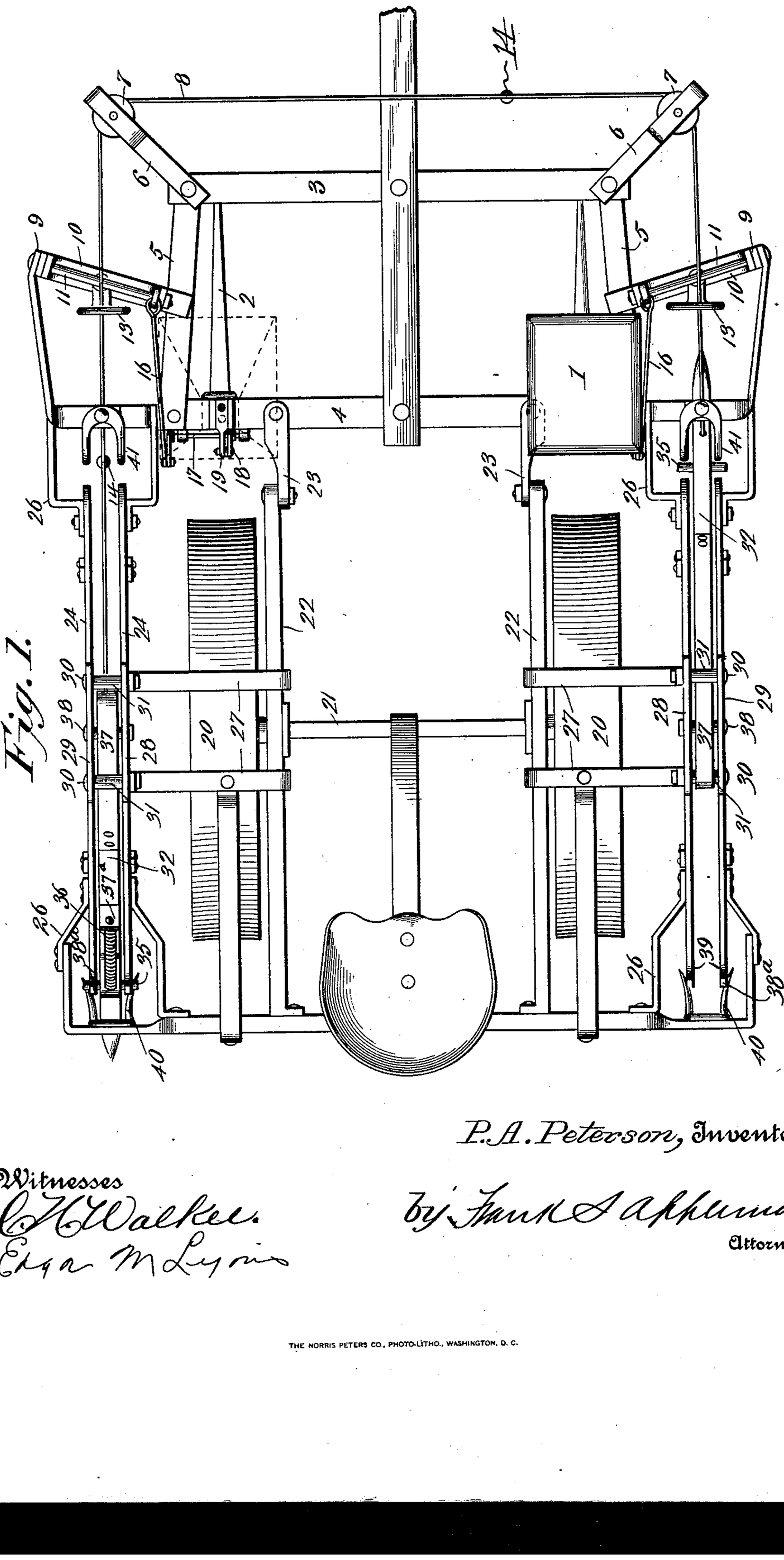

Fig. 1.

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Fig. 3.

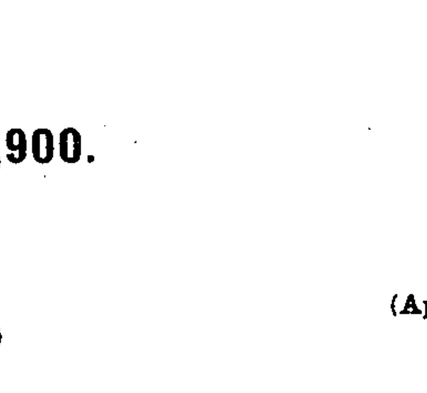
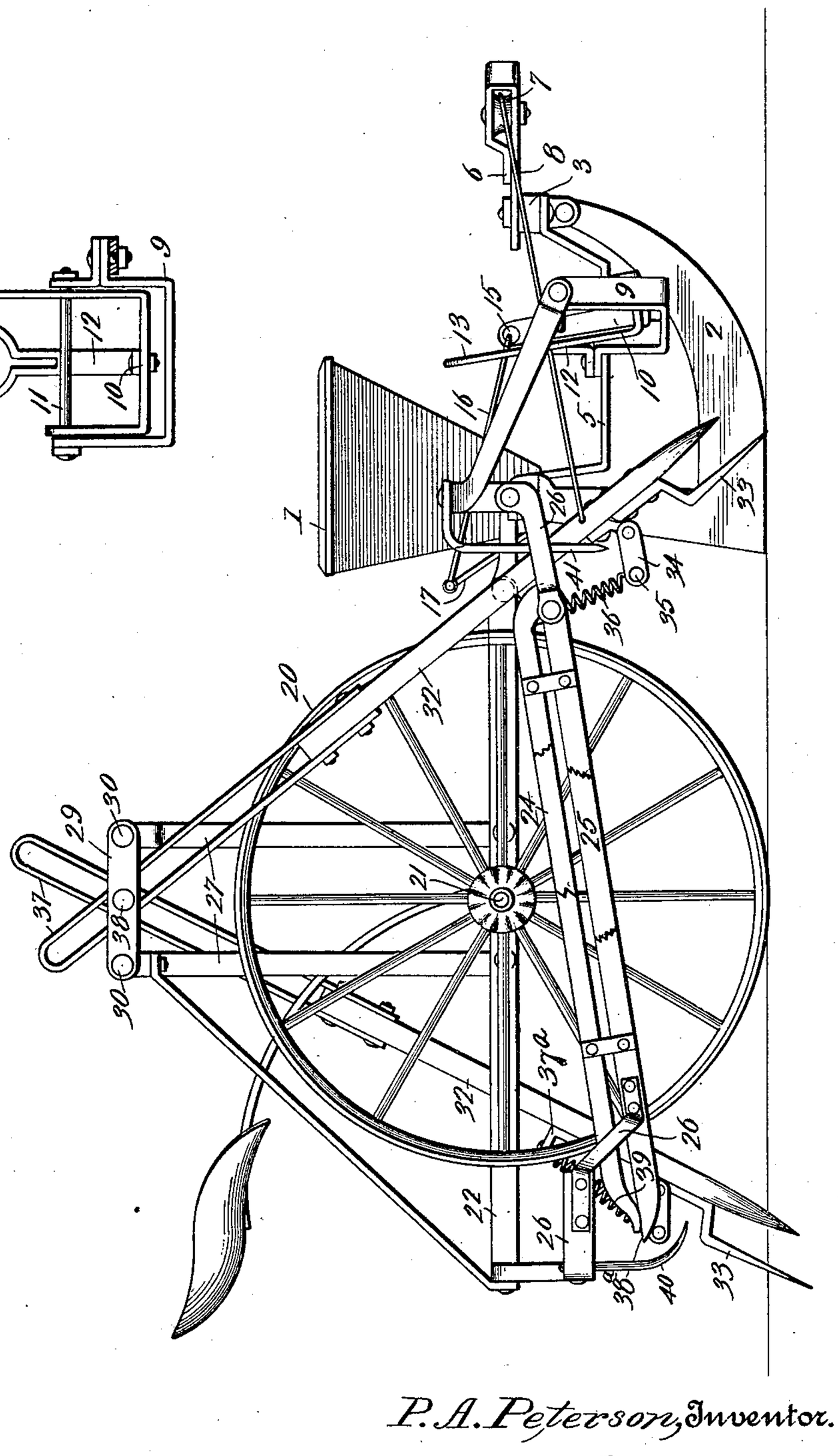


Fig. 2.



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UNITED STATES PATENT OFFICE.

PETER A. PETERSON, OF LAKE MILLS, IOWA.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 678,900, dated July 23, 1901.

Application filed March 12, 1901. Serial No. 50,874. (No model.)

To all whom it may concern:

Be it known that I, PETER A. PETERSON, a citizen of the United States of America, residing at Lake Mills, in the county of Winnebago and State of Iowa, have invented certain new and useful Improvements in Corn-Planters, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to corn-planters, and particularly to that class known as the "check-row" type.

The object of the invention is to produce a corn-planter in which the feeding mechanism of the hopper is actuated through the medium of a reciprocating flexible connection extending from one side of the planter to the other.

Furthermore, the object of the invention is to produce actuating means whereby as the planter is drawn forward the feeding mechanism is intermittently operated.

Furthermore, the object of the invention is to produce a corn-planter which will possess advantages in points of efficiency and durability, proving at the same time comparatively inexpensive.

With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts, to be hereinafter more fully set forth and specifically claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming a part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 is a top plan view of a planter embodying the invention. Fig. 2 is a view in side elevation. Fig. 3 is a view in elevation of the feeding mechanism.

In the drawings, 1 denotes the seedboxes, 2 the furrow runners or opener, and 3 the front beam, which may be of any ordinary construction. A beam 4 is supported at the rear of the runners. The beams 3 and 4 are connected by curved brackets 5, forming a front frame for supporting parts of the seeding mechanism. Arms 6 are bolted to the front beam 3 and carry pulleys 7, over or around which the wire or cable 8 reciprocates. Brackets 9 are secured to the brackets 5, and yoke-like trips 10 are hung on the bolts 11. The trips are approximately U shape and have secured thereto arms 12, having eyes 13 in their upper ends through which the cable runs, said cable being provided with balls 14, which engage the arms and cause the yokes to swing. One end of each yoke is extended and provided with an eye 15, to which a link 16 is pivoted. The link is pivoted to the cranked end of a rock-shaft 17, and the rock-shaft 17 carries an arm 18, connected to the feeding-rod 19 of the hopper. As the yoke is swung, therefore, through the action of the balls on the cable the feeding is reciprocated.

The wheels 20 are mounted on an axle 21, and the frame 22 is secured to the axle in any convenient manner. The front end of the frame is pivotally connected to the arms 23 on the beam 4 of the front or runner frame.

On each side of the planter I provide parallel guides, each set of guides comprising two upper and two lower metallic strips 24 and 25, respectively, the strips 24 and 25 on each side being rigidly connected and supported by brackets 26, joined to the frames.

Standards 27 are secured to the frames and have angular ends extending out over the wheels. A guide is formed on the end of each standard by the plates 28 and 29, which are connected by bolts 30, and the bolts each have an antifriction-sleeve 31 mounted thereon.

Levers 32 have the ends of the cable attached and reciprocate in alternate directions as the planter is drawn forward. The lower end of the lever is provided with a prong 33, projecting below the end of the lever. A link 34 is connected to each lever, and a pin 35 projects on each side, said pin riding in the edges of the guides 24 and 25 as the lever reciprocates. A spring 36 extends from the pin 35 to a lug 37^a of the lever, so that as the pin rides over the guides a yielding action is afforded. The upper end of the lever 32 has attached thereto a metallic strap 37, bent upon itself to form a loop, which embraces a bolt 38 between the guide-plates 28 and 29, and the strap is adapted to move up and down in said guide.

In operation one lever projects forward and the prong 33 is partially embedded in the ground. As the planter is drawn forward the lever remains fixed until the rear ends of the guides approach. Then as the forwardly-dis-

posed lever descends into the ground the pin 35 on the rearwardly-disposed lever passes the point 38ª, and owing to the pull on the cable the said pin rides over the inclined end 39 and is drawn back on the upper edges of the guides 24. The depending arms 40 limit the rearward movement of the lever, and the arms 41 limit the forward movement thereof.

From the foregoing it will be seen that the anchored lever pulls the one which is released through the medium of the cable, and as said cable has the tripping-balls thereon the feeding is operated. It will be observed also that as the lever is inclined rearwardly it will have a tendency to rise to and travel on the surface of the ground, so that the pull required to bring it up the inclined surface to the upper edge of the guides will be inconsiderable.

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

1. In a corn-planter, a suitable frame, feeding mechanism, a cable for actuating the feeding mechanism, levers to which the cable is secured and means for causing the levers to move longitudinally and vertically of the planter.

2. In a corn-planter, a suitable frame, feeding mechanism carried thereon, a cable for operating the feeding mechanism, guides on each side over the frame, levers having pins riding over the guides, and arms at each end of the guides to limit the travel of the levers, substantially as described.

3. In a corn-planter, a suitable frame and feeding mechanism, a cable for actuating the feeding mechanism, levers to which the cable is secured, guides over which the levers travel and means for affording a yielding connection between the levers and guides.

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

PETER A. PETERSON.

Witnesses:

L. W. TORPSON,

S. S. LARSON.