No. 719,887. PATENTED FEB. 3, 1903.

E. M. SELL.

CORN PLANTER.

APPLICATION FILED NOV. 6, 1902.

NO MODEL. 2 SHEETS—SHEET 1.

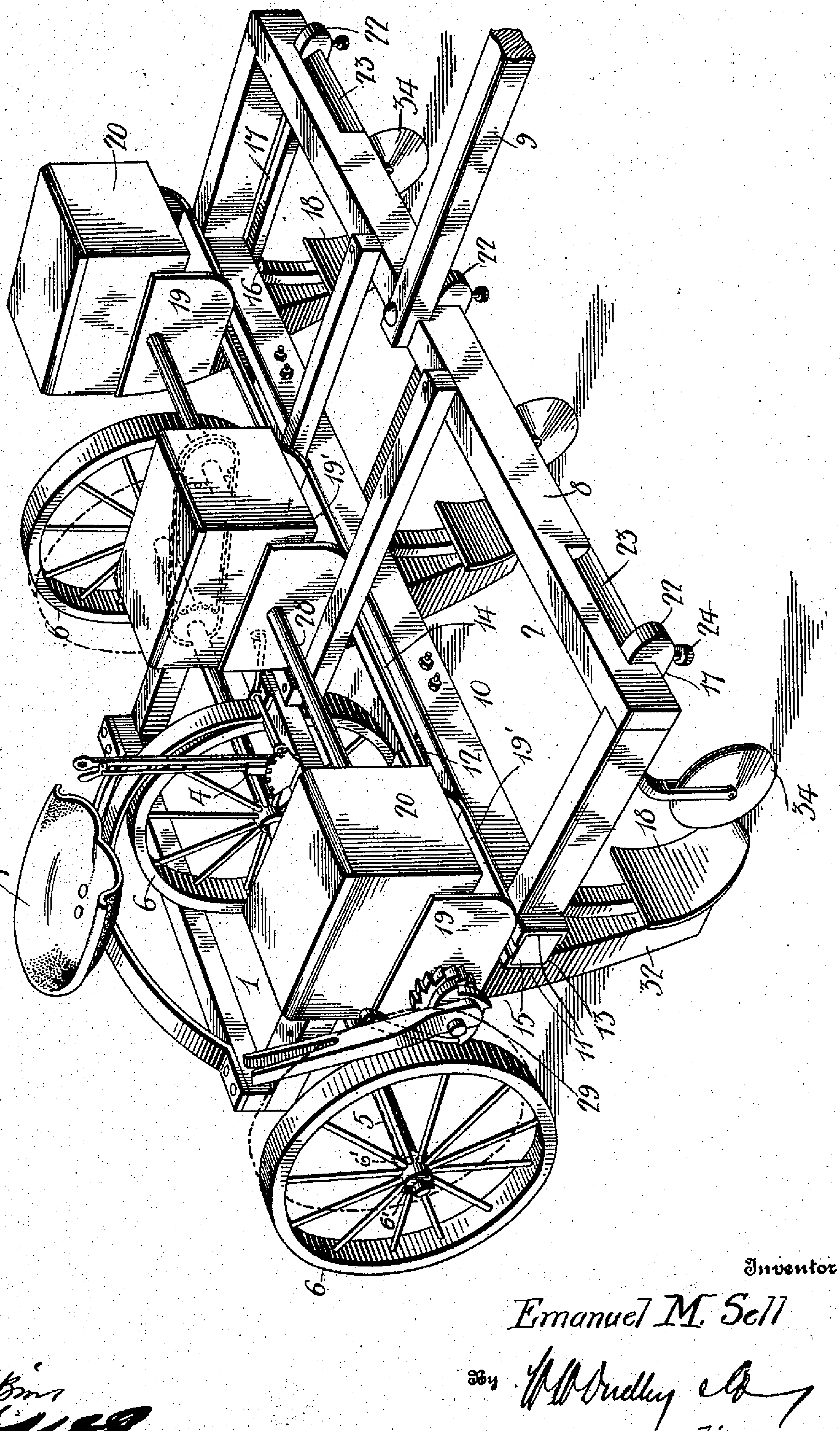

FIG. 1

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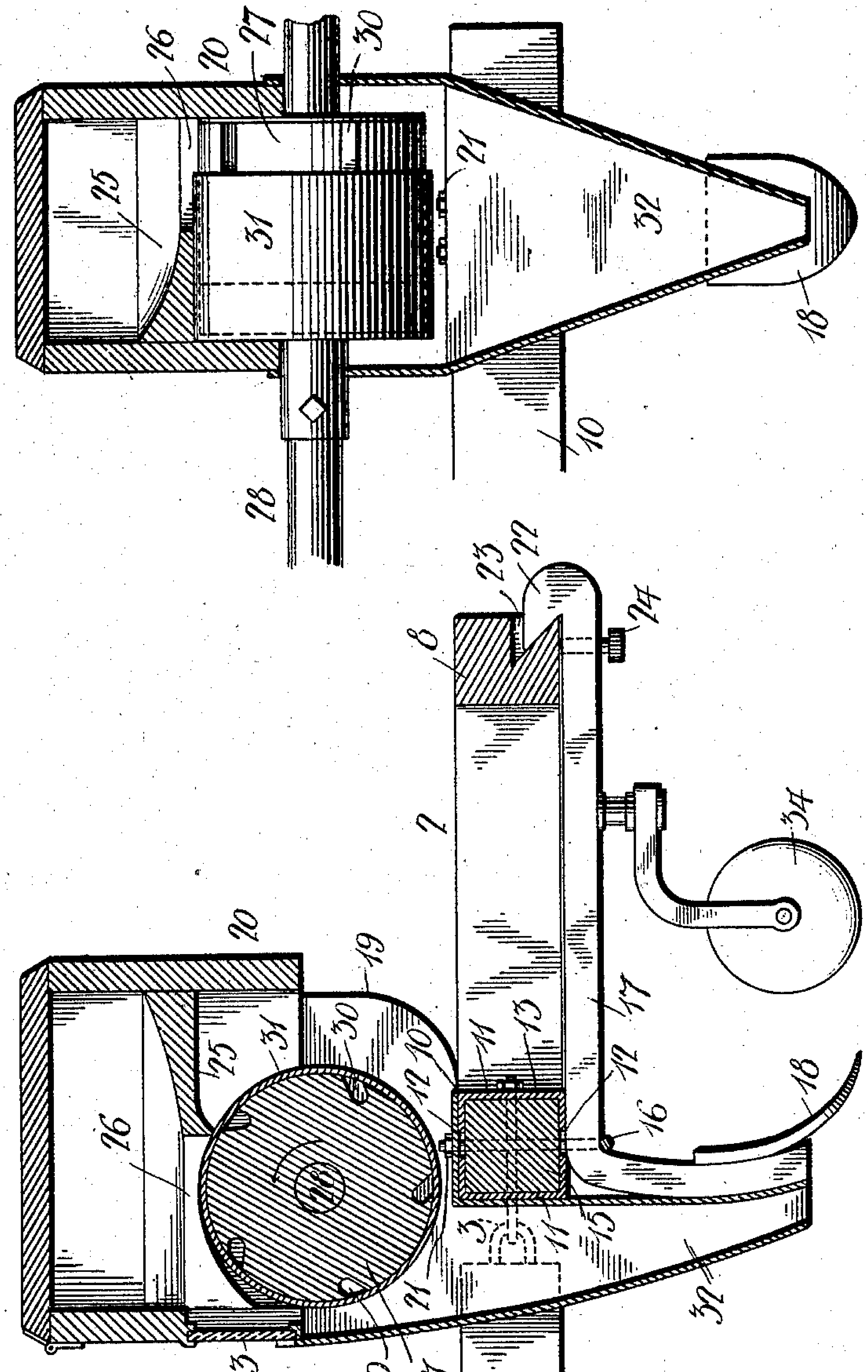
NO MODEL. 2 SHEETS—SHEET 2.

FIG. 3

FIG. 2



Witnesses

[signature]

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UNITED STATES PATENT OFFICE.

EMANUEL M. SELL, OF CAMERON, MISSOURI.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 719,887, dated February 3, 1903.

Application filed November 6, 1902. Serial No. 130,238. (No model.)

To all whom it may concern:

Be it known that I, EMANUEL M. SELL, a citizen of the United States, residing at Cameron, in the county of Clinton and State of Missouri, have invented certain new and useful Improvements in Corn-Planters; and I do hereby 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.

This invention relates to an improved corn-planter; and it consists of certain novel elements and combinations of parts, hereinafter described and specifically claimed.

The nature of the improvements will be readily comprehended, reference being had to the following detailed description and to the accompanying drawings, in which—

Figure 1 is a perspective view of a corn-planter embodying my invention. Fig. 2 is a vertical longitudinal sectional view through one of the feed-boxes and showing a portion of the frame and parts carried thereby. Fig. 3 is a transverse sectional view through one of the feed-boxes, showing the feeding-cylinder in elevation.

Referring to the drawings by numerals, 1 denotes the rear frame of the planter, and 2 is the front frame, hinged to the rear frame by coupling-links. (Shown at 3.) Any suitable device, such as a lever, &c., (illustrated at 4,) may be employed to adjust the angle of the front frame. An axle 5 extends through the side bars of the rear frame, and fixed on the axle are three wheels 6 6 6, it being understood that the planter is of the three-row type, although obviously it may be operated, if desired, to plant a less number of rows. The wheels operate as coverers, being provided with wide treads, and the outer wheels are slidably adjustable on the axle to correspond to the adjustment of the dropping devices, presently to be described, the adjustment of said wheels being maintained by any suitable means, such as the keys 6′ 6′ shown, which keys are insertible in holes provided at proper intervals in the axle 5. The rear frame supports the driver's seat 7, which rests upon bow-springs.

The front frame consists of side bars, a front bar 8, to which the tongue 9 is connected, and a rear bar 10, formed of two separated channel-beams 11 11, providing upper and lower slots 12 and an intermediate opening 13. Centrally of the beam 10 and occupying the opening therein is a spacing-block 14, and similar blocks, but of less width, may be inserted at the ends of the beam.

15 15 are blocks slidable in the beam-opening at each side of the spacing-block. Through each block 15 extends the ends of a clip 16, which secures the rear end of a shovel-plow beam 17 to the block, a shovel-plow 18 being fixed to a depending portion of said beam. The ends of the clip project beyond the block and through the bottom plate 19′ of a frame 19, which supports a feed-box 20, and said ends are threaded and receive nuts 21, whereby the box-supporting frame 19 and the plow-beam are firmly fixed to the block and move therewith in the adjustment of the parts for planting rows of different widths. The threaded ends and the loop end of the clip extend through the upper and lower slots 12 in the rear beam 10 of the front frame. The nuts 21 bind against the plate 18 and draw the plow-beam against the beam 10, thereby tightly gripping the latter and maintaining the adjustment.

The plow-beams each extend forwardly to the front frame-beam 8, and their outer ends 22 are hook-shaped to engage correspondingly-shaped recesses in the beam 8, whereby to support said outer ends. The center plow and feed-box, like the center wheel 4, are fixed; but the end plows and boxes are, as above suggested, laterally adjustable, and to permit this the end recesses 23 in the front beam are elongated, and the adjusted position of the plow-beam end is fixed in said recess by a set-screw 24.

The feed-boxes or seed-hoppers each have a bottom 25, which slopes toward an opening 26. Below the bottom is a feed-cylinder 27, all of said cylinders being fixed to a common shaft 28. The cylinders may be rotated to feed the corn through the medium of sprocket-wheel and chain mechanism, (shown in dotted lines in Fig. 1,) or said cylinders may be rotated by the check-row attachment 29. Each cylinder 27 is provided in its periphery with a plurality of seed-cups 30, arranged, preferably, at an angle to the radius, and to regulate the feed a sleeve 31 is provided, which

is moved to cover a greater or less portion of the cups, as will be understood. The seed leaving the cups falls through a spout 32, which has its lower end closely adjacent to a plow 18. Obviously the spout, which is carried by the feed-box-supporting frame, is adjusted with the box and plow. The rear end of each feed-box is provided with a glass-covered sight-opening 33, whereby the feed may be observed by the driver.

To each plow-beam may be attached a colter-wheel 34, and in the case of stumpy ground a runner may be attached to the beam in front of the shovels.

Obviously the machine by proper adjustment may be used as a drill.

I claim as my invention—

1. In a corn-planter, the combination of a slotted beam, a plow-beam below the beam, a seedbox above the beam, connections between the box and plow-beam passing through said slot and permitting the simultaneous adjustment of the box and plow along the beam, and means for maintaining the adjustment.

2. In a corn-planter, a beam formed of channel-beams separated by a spacing-block to provide an opening and upper and lower slots, a block slidable in said opening, a plow-beam, a seedbox, and means connecting the sliding block, the plow-beam and box whereby they are simultaneously adjustable along the beam.

3. In a corn-planter, a rear frame carrying a plurality of laterally-adjustable coverer-wheels, a front frame hinged to the rear frame and having a slotted beam, a plurality of seed-boxes and plows adjustable along the slotted beam, and means for maintaining the adjustments.

4. In a corn-planter, a frame consisting of a slotted rear bar and a front bar having elongated recesses, a plow-beam carrying a plow and adapted to receive a colter attachment, said plow-beam having a forward end hooked into the recesses in the front bar and provided with a set-screw, a seedbox, a connection between the seedbox and plow-beam passed through said slotted bar, and means forming part of said connection for maintaining the adjusted position of the box and plow-beam along said slotted bar.

5. In a corn-planter, a feed-box having a bottom provided with an opening to which said bottom slopes, a cylinder in the box below the bottom having a series of cups arranged at an angle to the radius, and a sleeve within the box movable along the cylinder to adjust the cup-openings, and a set-screw for maintaining the adjustment.

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

EMANUEL M. SELL.

Witnesses:
WILBUR S. CORN,
IRA I. BARNARCH.