

No. 748,386.

PATENTED DEC. 29, 1903.

J. LEYHTWINE.
CORN PLANTER.

APPLICATION FILED MAY 26, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.

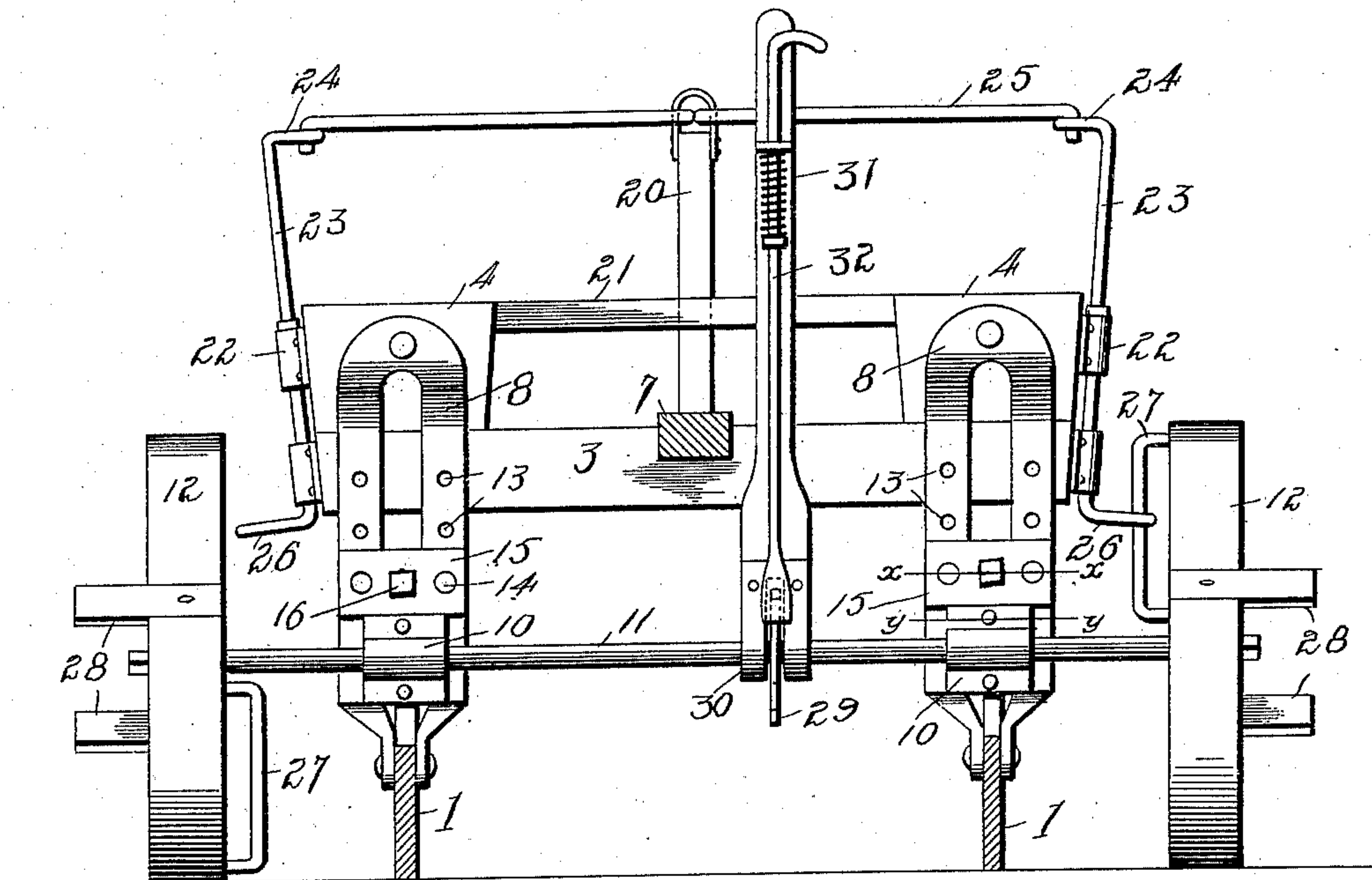
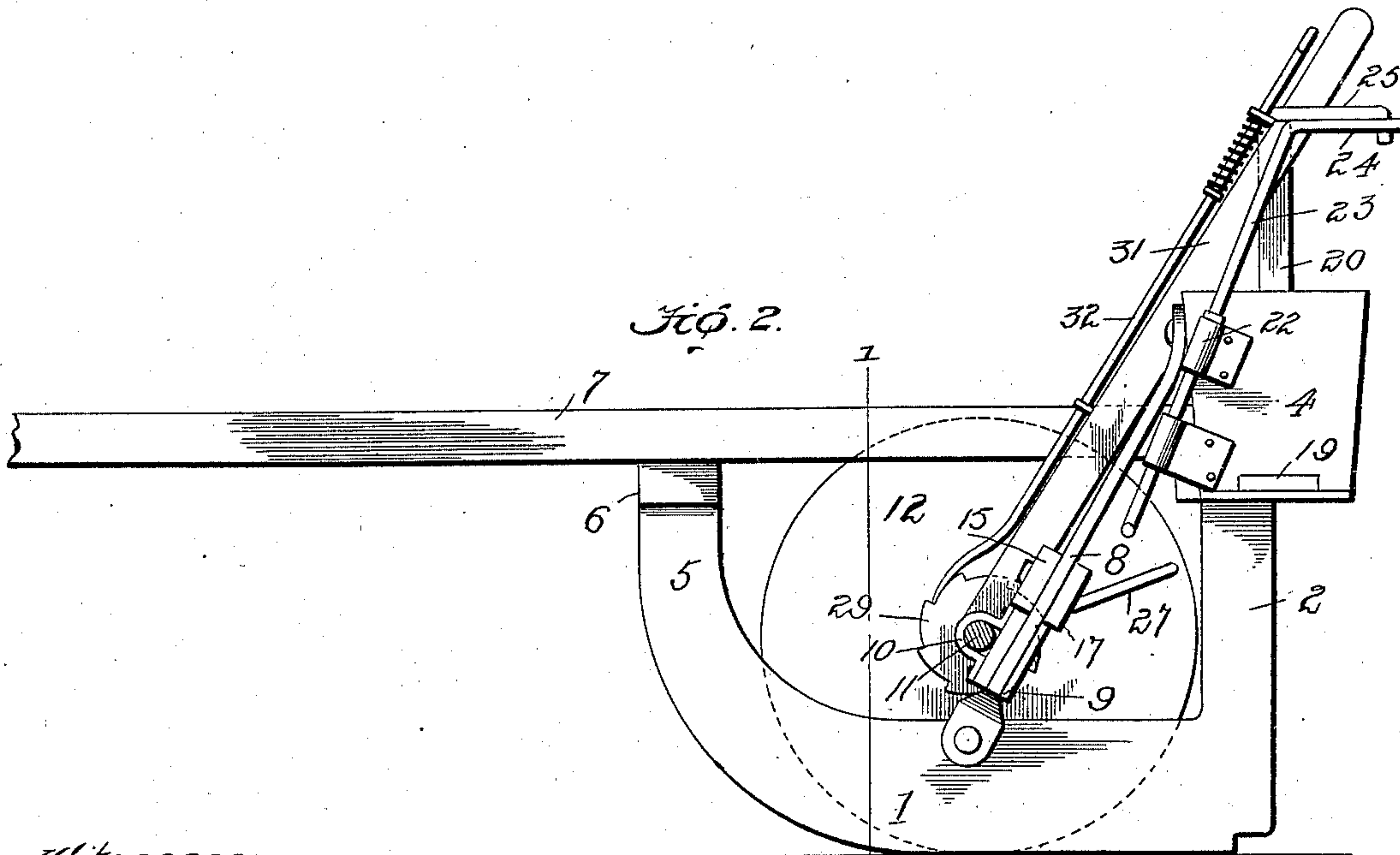


Fig. 2.



Witnesses:

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2 SHEETS—SHEET 2.

Fig. 3.

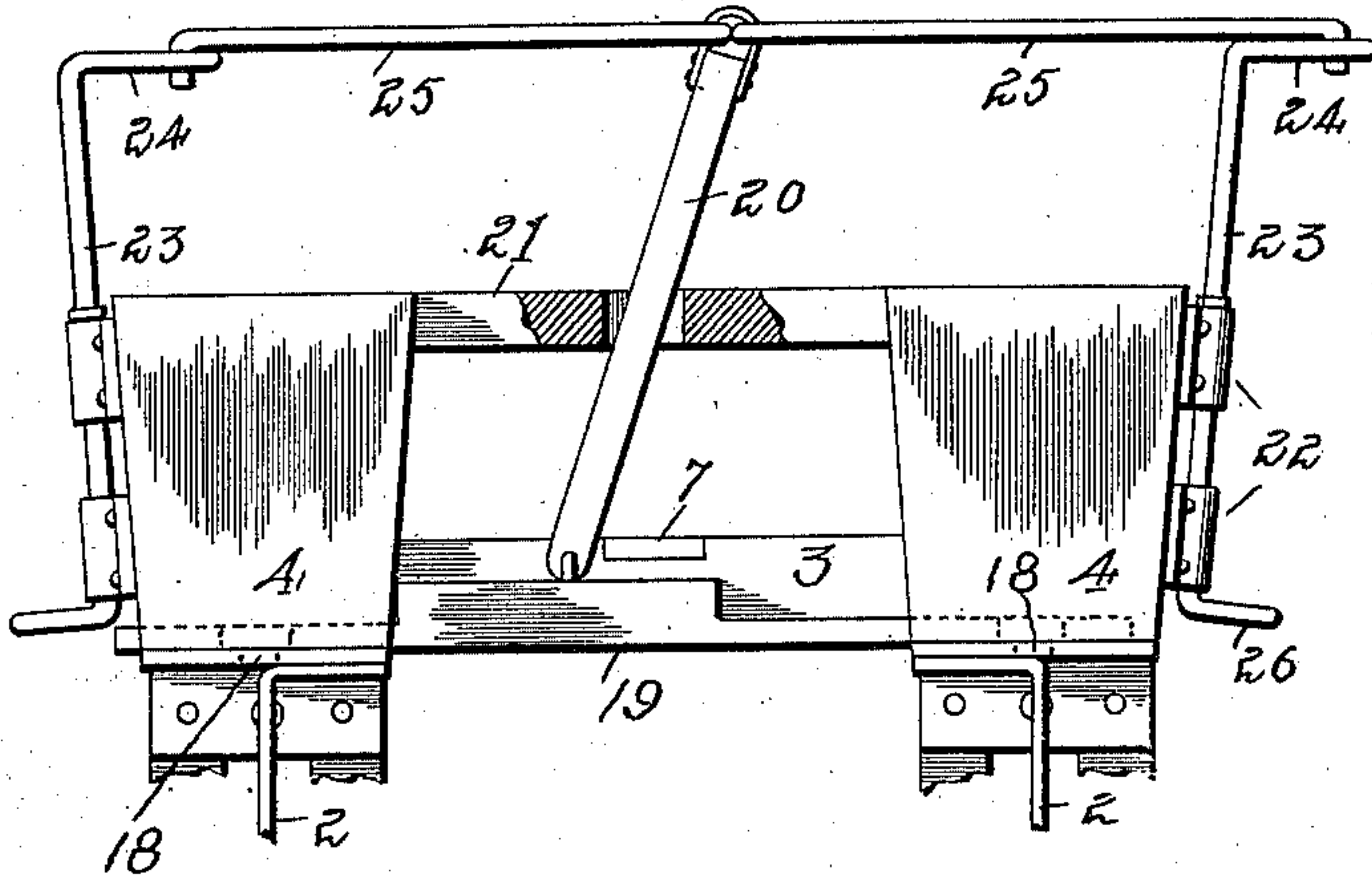


Fig. 4.

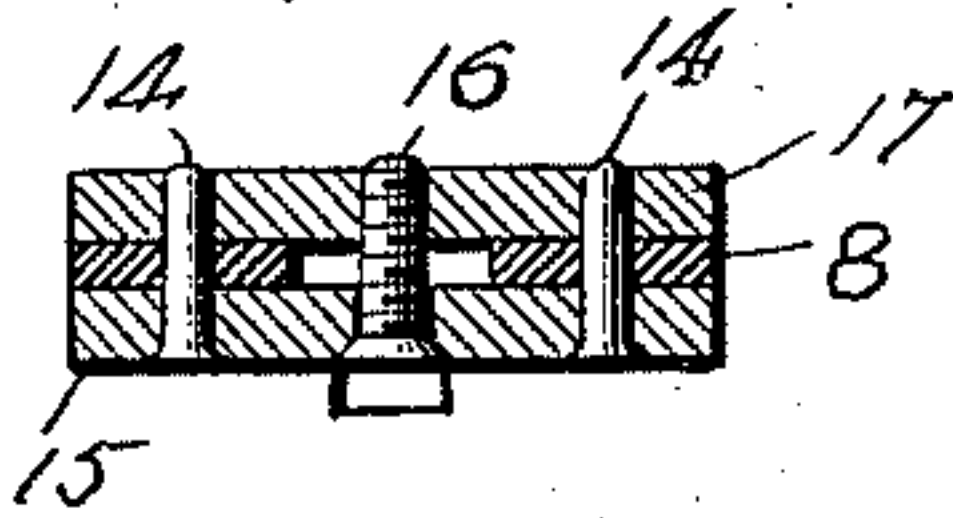
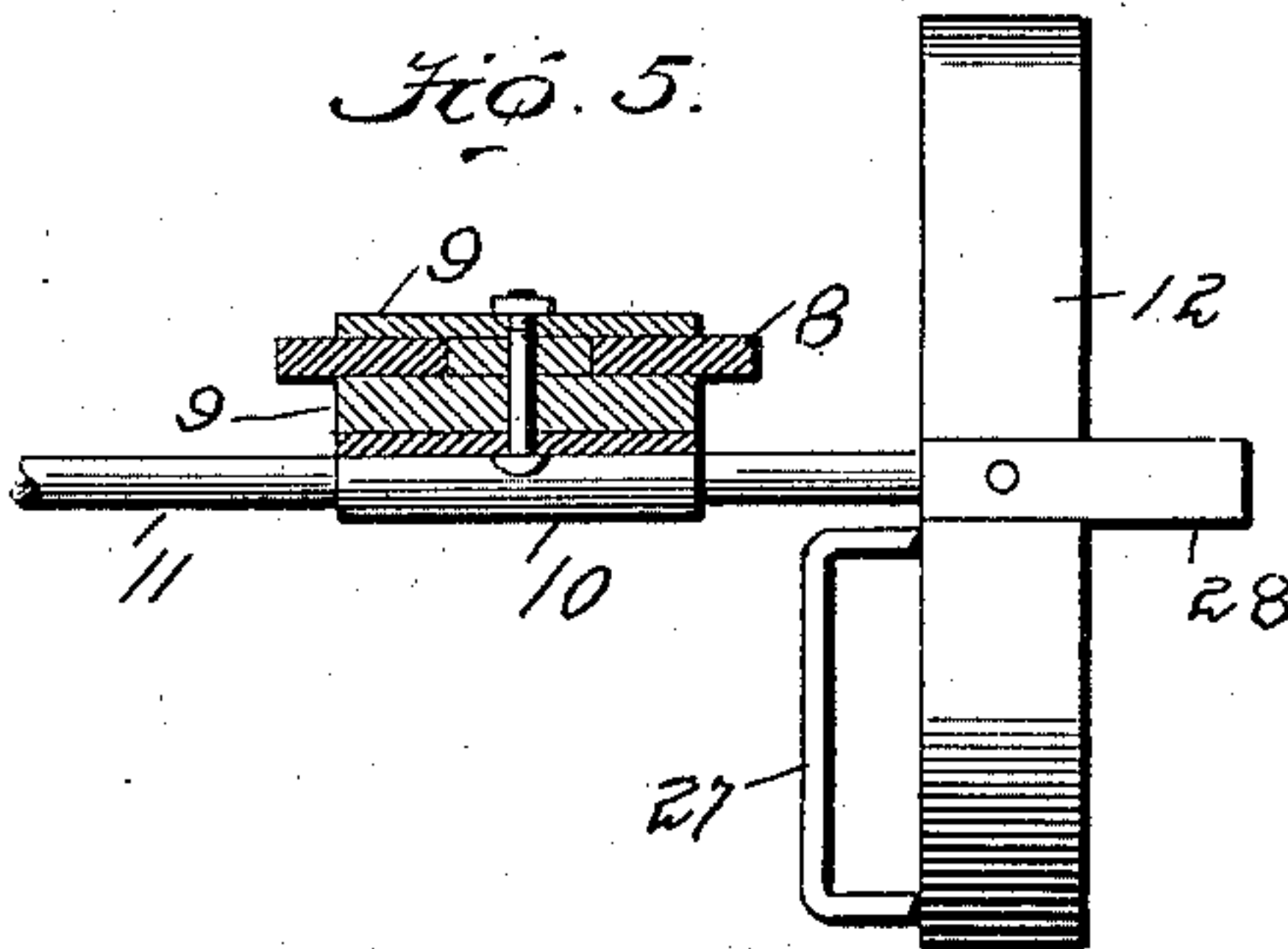


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOSEPH LEYHTWINE, OF WOODHILL, MISSOURI, ASSIGNOR OF ONE-HALF TO
W. E. LEYHTWINE, OF WOODBINE, IOWA.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 748,386, dated December 29, 1903.

Application filed May 26, 1902. Serial No. 108,989. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH LEYHTWINE, a citizen of the United States, residing at Woodhill, in the county of Dallas and State
5 of Missouri, 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.

10 My invention relates to new and useful improvements in corn-planters; and its object, among other things, is to provide a light device of simple construction which is adapted to automatically deposit the corn in rows at
5 regular intervals.

Another object is to employ means whereby the corn can be planted at a desired depth.

A further object is to provide means whereby the traction-wheels which operate the
20 dropping mechanism may be adjusted so as to start each row at the proper point.

With the above and other objects in view the invention consists in the novel construction and combination of parts hereinafter
25 more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a section on line 1 1, Fig. 2.
30 Fig. 2 is a side elevation with a wheel removed. Fig. 3 is a rear elevation of the dropping mechanism. Fig. 4 is a section on line $x x$, Fig. 1; and Fig. 5 is a section on line $y y$, Fig. 1.

35 Referring to the figures by numerals of reference, 1 1 are runners or furrow-openers, the rear ends of which are formed integral with the upright, as shown at 2, and support a cross-beam 3, to each end of which is secured
40 a seed box or hopper 4. The upwardly-curved front ends 5 of the runners are connected by a cross-beam 6, and the two beams 3 and 6 are connected by the forwardly-extending tongue 7 of the device.

45 Secured to opposite sides of each runner 1 are the ends of a forked plate 8, which is secured to and extends downward at an incline from a hopper 4. A guide-plate 9 is mounted between the members of each plate 8, and
50 secured to the forward face of the guide-plate is a bearing-plate 10, within which is jour-

naled the axle 11 of the traction-wheels 12. Each member of plate 8 is provided with a series of apertures 13 for the reception of lugs or pins 14, extending from the inner face of
55 a plate 15. This plate is held in engagement with the forked plate 8 by means of a screw 16, extending through the slot in said forked plate and engaging a block 17 in rear thereof. It is obvious that by adjusting the plate
60 15 up or down upon the plate 8 the runners 1 and the entire body of the planter are adjusted in relation to the axle.

Each hopper 4 is provided in its bottom with an outlet 18, (see dotted lines in Fig. 3,) and
65 these outlets are adapted to be simultaneously opened and closed by a slide 19, extending horizontally into each hopper. A lever 20 is pivoted to this slide and is fulcrumed at a point between its ends in a cross-strip 21,
70 connecting the hoppers, as shown.

Journalled in brackets 22 on the outer or side face of each hopper 4 is a rod 23, having arms extending from the ends thereof at right angles. The upper arms 24 of these rods are
75 connected to the upper end of lever 20 by means of links 25, and the lower arms 26 extend into the paths of trips 27, arranged upon the inner faces of the wheels 12. The trips are in the form of staples and extend from
80 the rims to the hubs of their respective wheels and at opposite sides of the axle 11. As wheels 12 are secured to and revolve with the axle, it is obvious that the trips will always be maintained at the same relation to each
85 other. A marker or indicator 28 is arranged upon each wheel and is so located as to touch the ground when one or the other of the arms 26 is tripped by the trips 27.

A ratchet-wheel 29 is secured to axle 11, and
90 the forked end 30 of a lever 31 extends thereover and loosely engages said axle. A spring-controlled plunger 32 is mounted on the lever and normally engages the ratchet.

It is thought that the operation of the drop-
95 ping mechanism will be readily understood from the foregoing description, taken in connection with the drawings. It will be seen that as the wheels 12 revolve the lever 20 will be rocked back and forth once during each
100 revolution by the trips 27 coming into contact with arms 26 and swinging them and

their rods 23. Each time the lever is operated the slide in each hopper is opened and corn is dropped into the furrow formed by the runner 1. When the end of a row has
5 been reached and the machine turned for the return trip, the lever 31 is swung outward, thereby turning the axle 11 and wheels 12 until markers 28 are brought into alinement with the hills already dropped. It will be
10 understood that the weight of the planter will force the runners 1 into the ground until further downward movement is prevented by the plates 15, which are connected to the plates 8, coming into contact with fixed guide-
15 plates 9.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without
20 departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

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

1. In a planter the combination with runners and seedboxes secured thereto and having outlets; of slide for said outlets, a slot-
30 ted plate connecting each runner with a box, an axle, bearings therefor slidably mounted in the slotted plates, a plate for limiting the upward movement of each bearing, pins thereto engaging the slotted plate, means for
35 locking said pins in engagement with said slotted plate, wheels upon, and revoluble with, the axle, trips thereon adapted to op-

erate the slide, and means for revolving the axle and wheels independently of the movement of the planter.

2. In a planter the combination with runners and seedboxes secured thereto and having outlets; of slide for said outlets, a slot-
40 ted plate connecting each runner with a box, an axle, bearings therefor slidably mounted 45 in the slotted plates, adjustable means for limiting the upward movement of the bearings, wheels upon, and revoluble with, the axle, trips thereon adapted to operate the slide, markers upon the wheels, a ratchet-
50 wheel upon the axle, a lever loosely engaging the axle, and a plunger secured to the lever and engaging the ratchet-wheel, whereby the axle and wheels may be revolved or held independently of the movement of the
55 planter.

3. In a planter, the combination with an axle, and traction-wheels thereon; of guide-plates secured to the axle, runners, boxes connected thereto, forked plates connecting
60 the runners and slidably mounted on the guide-plates, blocks adjustably secured to the forked plates and adapted to limit the movement thereof on the guide-plates, a slide in the boxes, means for imparting reciprocating
65 motion to the slide from the wheels, and mechanism for rotating the wheels independently of the movement of the planter.

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

JOSEPH LEYHTWINE.

Witnesses:

J. G. MCCALL,

LILLIAN C. IRWIN.