

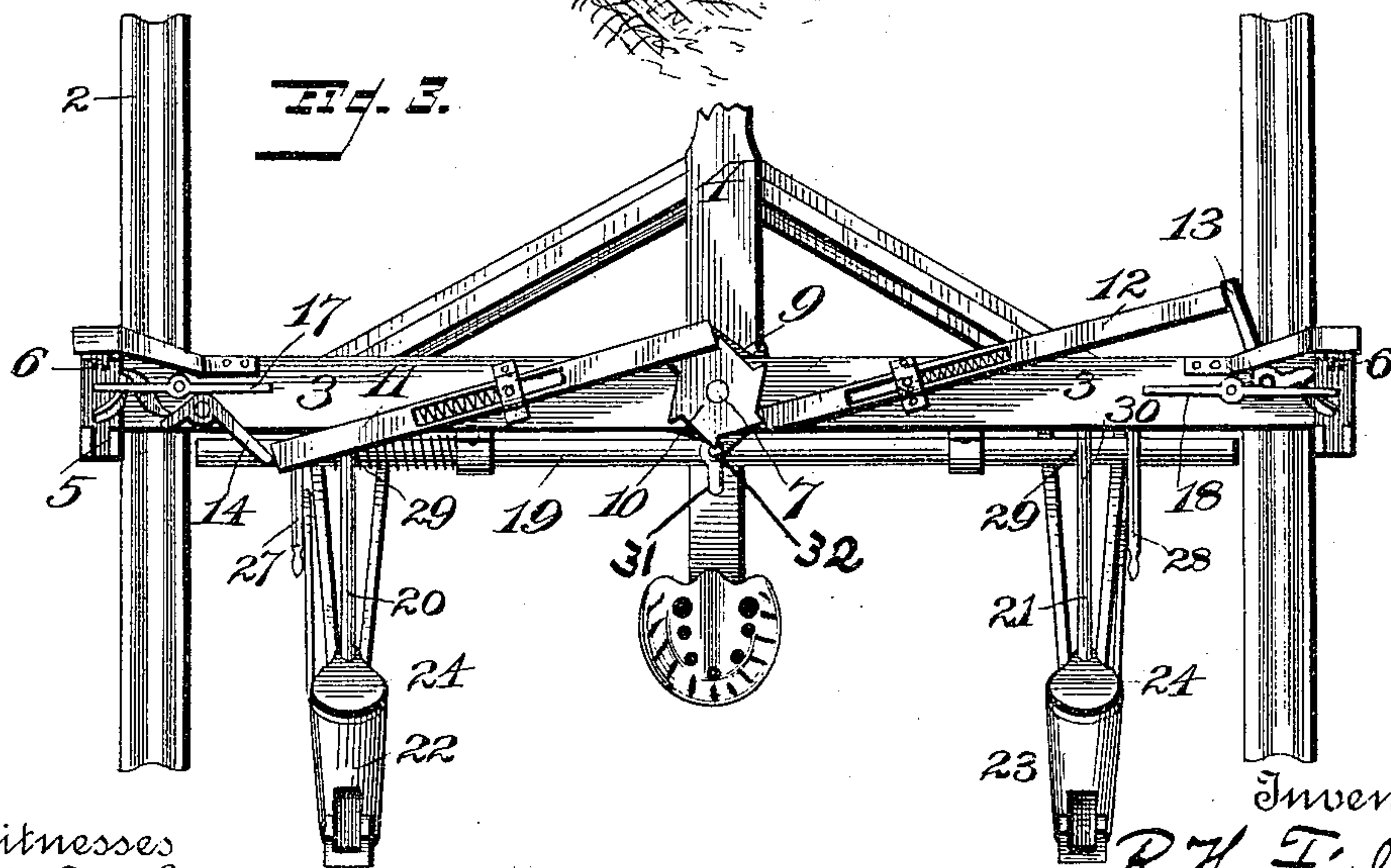
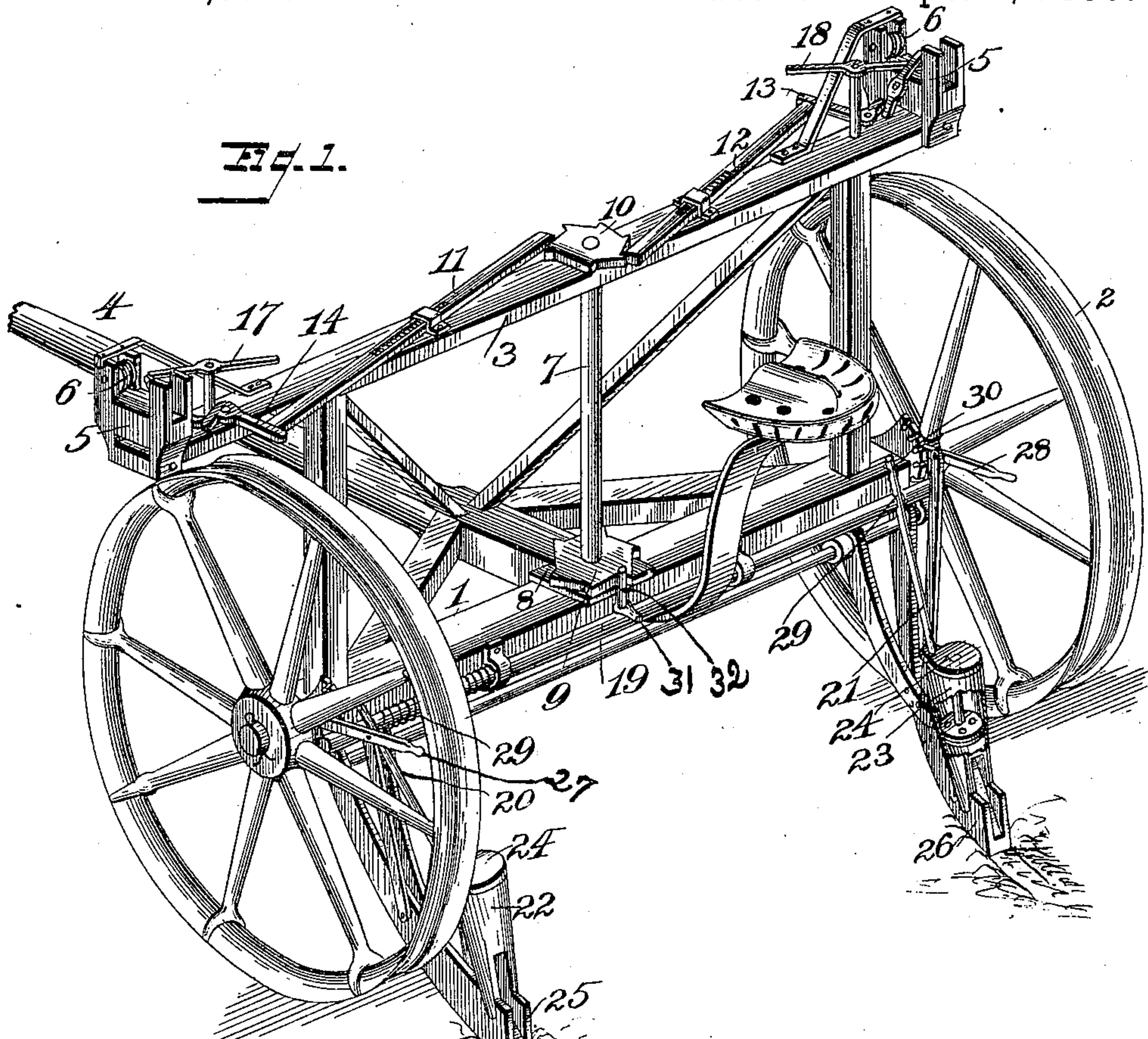
(No Model.)

2 Sheets—Sheet 1.

R. H. FISHBAUGH.
CHECK ROW CORN PLANTER.

No. 566,975.

Patented Sept. 1, 1896.



Witnesses

John D. Miller
C. E. Hunt

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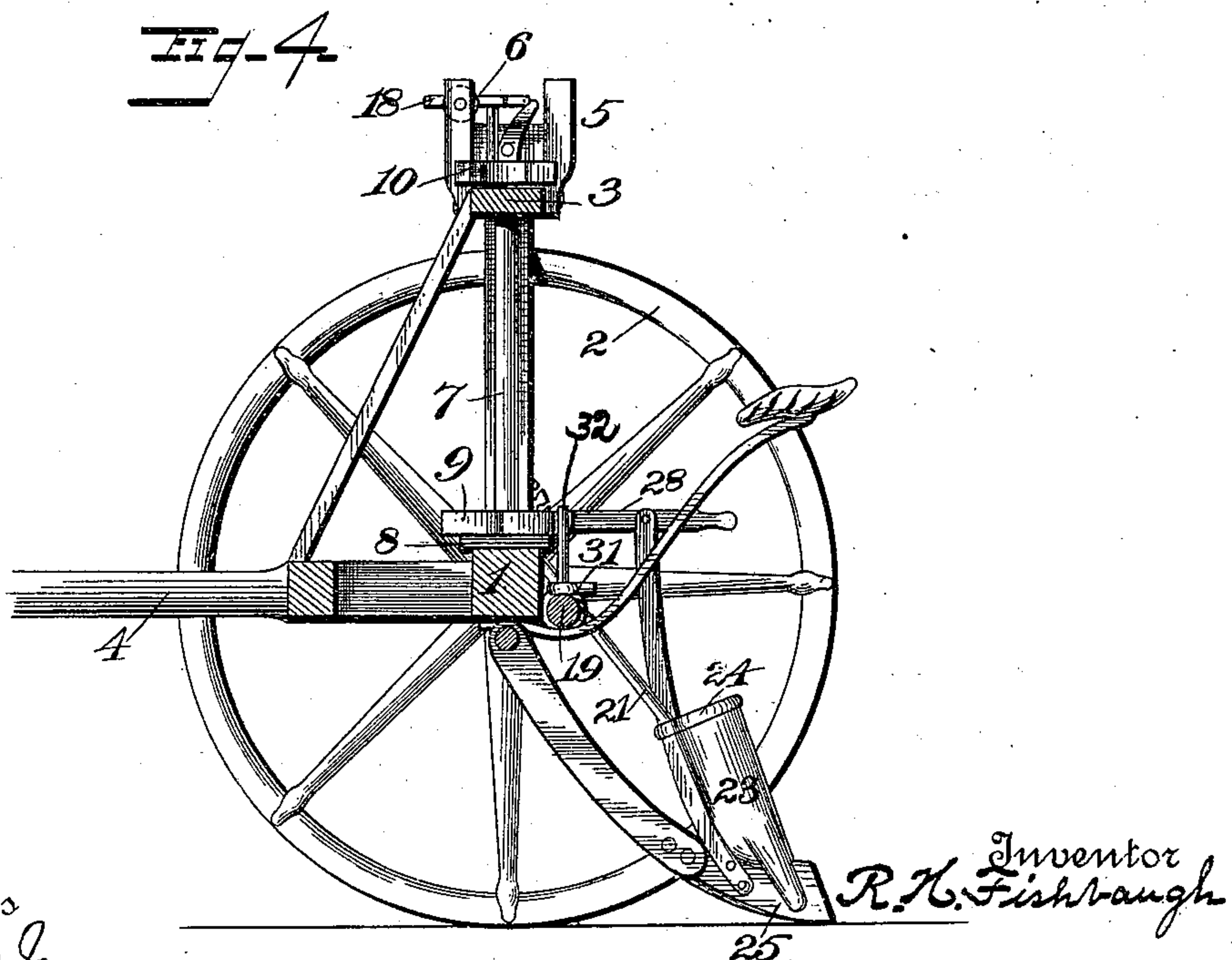
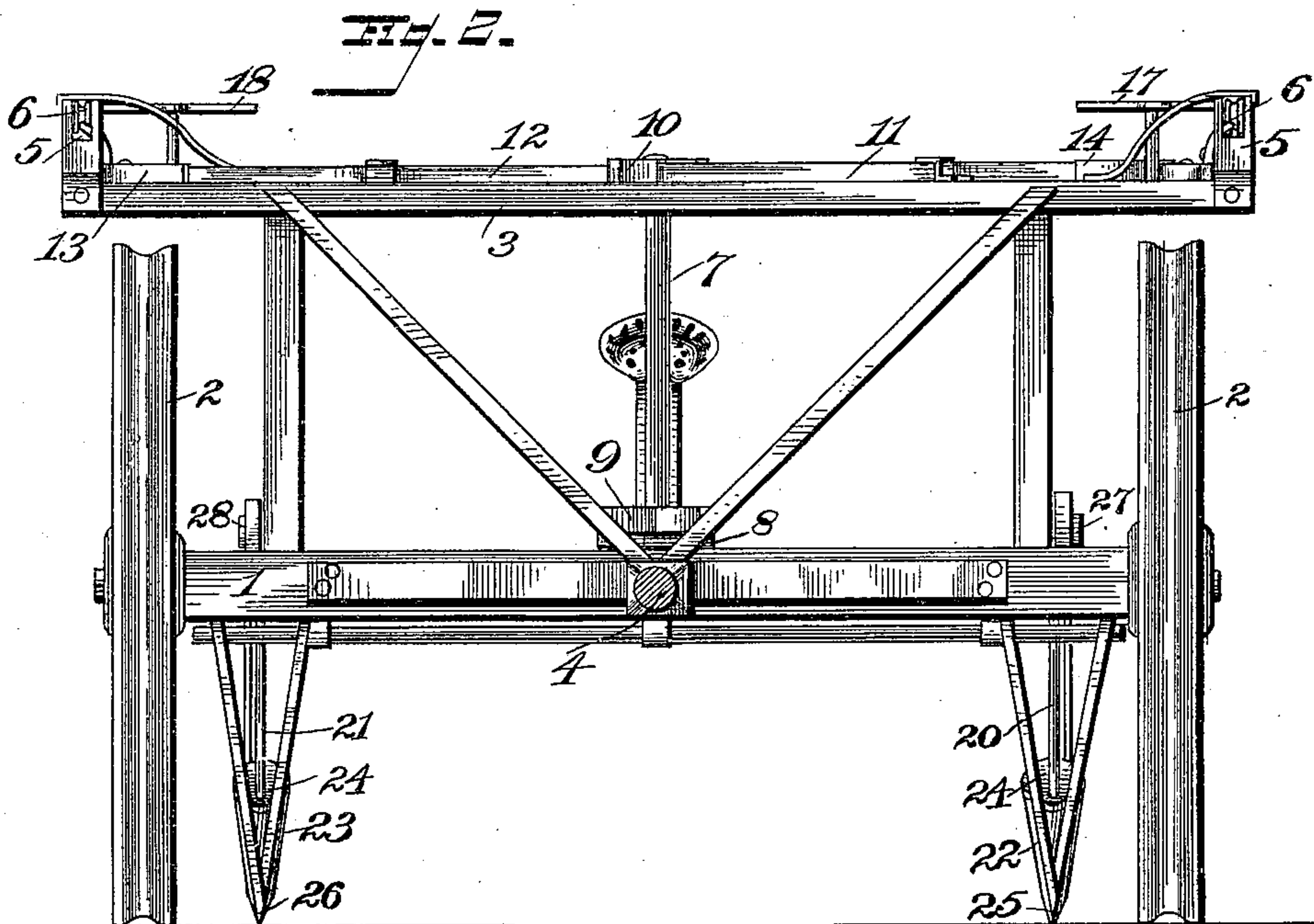
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John James
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Inventor
R. H. Fishbaugh

By *E. H. Bates* Attorney

UNITED STATES PATENT OFFICE.

RUFUS H. FISHBAUGH, OF MARKLE, INDIANA.

CHECK-ROW CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 566,975, dated September 1, 1896.

Application filed May 19, 1896. Serial No. 592,216. (No model.)

To all whom it may concern:

Be it known that I, RUFUS H. FISHBAUGH, a citizen of the United States, residing at Markle, in the county of Huntington and State of Indiana, have invented certain new and useful Improvements in Check-Row Corn-Planters; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to check-row corn-planters; and it consists in the construction and novel combination of the parts of the same as hereinafter fully described, and particularly pointed out in the claims.

The annexed drawings, to which reference is made, fully illustrate my invention, in which—

Figure 1 represents a perspective view from the rear of the machine. Fig. 2 is a front view of the same. Fig. 3 is a plan view, and Fig. 4 is a vertical sectional view.

Referring by numeral to the accompanying drawings, 1 designates the axle of the check-row corn-planter; 2, the transporting-wheels, having concavo-convex tires or rims.

3 indicates the transversely-disposed top cross-bar of the check-row frame, said frame being connected to the axle by vertical brace-bars between the transporting-wheels. The axle is provided with a forwardly-projecting tongue 4, suitably strengthened by braces connected with the axle. At each end the top bar 3 is provided with a guide 5 for the passage of the knotted check-row wire or rope used with this class of machines. Each of these guides 5 is provided at its front upper portion with a grooved sheave 6, beneath which the check-row wire passes when the machine is drawn across the field in a properly-connected condition to operate to drop the corn from the corn-boxes, hereinafter described. The machine has the usual draft-tongue and driver's seat, as shown. At the center of the frame and rising from the axle is a vertically-disposed shaft 7, having at or near its lower end a small rectangular plate 8, projecting rearwardly, and above said plate and axle is a hex-

agonal toothed wheel 9, secured to the lower portion of the vertical central shaft, and at the upper end of said shaft 7, immediately above the top cross-bar, is a smaller hexagonal toothed wheel 10, the points of the teeth of which project in a reverse direction to the points of the teeth of the lower similar wheel.

The upper smaller wheel 10 engages the inner ends of two spring-actuated levers 11 and 12, fulcrumed to the upper surface of the transverse top bar of the frame, and their outer ends are engaged by pivoted angle-levers 13 and 14, which are in engagement with the checks at the outer ends of the top bar. These angle-levers engage outer ends of spring-actuated levers 11 and 12, fulcrumed upon the transverse top bar on opposite sides of the smaller wheel 10, with which the inner ends of said spring-actuated levers are normally engaged, their springs permitting yielding movements of said levers to operate the vertical shaft and its wheels as the machine is propelled. At the end of the rows, when the check-rope may not operate to drop the corn, the hand-levers 17 and 18 may be operated by the driver to drop the corn.

At the rear of the axle and parallel therewith is loosely supported a transverse slide-rod 19, which is notched, at 29, near each end in its rear edge to receive the upper ends or portions of the pivoted dropper-rods 20 21 of the corn-boxes 22 23, said dropper-rods being connected with the axle at their extreme upper ends, as at 30, in bearings or seats which permit a rocking motion of the same when operated by the transverse slide-rod 19. This rocking motion turns the plates or disks 24, secured to the lower ends of the dropper-rods, and causes the valve in each dropper-box to register with fixed perforated plates immediately beneath them in their respective corn-boxes at the proper time to permit the corn to be dropped from the boxes at the intervals to which the machine may have previously been gaged. In front of the corn-boxes are furrowers 25 26 for opening the furrows in which the corn is to be dropped.

The furrow-openers and corn-boxes are removable and adjustable laterally on the frame of the machine to enable the corn to be planted at varying widths in the field. Levers 27 28 are also connected with the axle of the ma-

chine and with the corn-boxes, so that either of said boxes may be elevated from the ground and at the same time be thrown out of operation with the slide-rod in rear of the axle, 5 thereby enabling the operator to use only one, and that may be either one, of the corn-boxes at a time. The pin 32, which engages the lower toothed wheel of the vertical shaft, is provided with a small foot-piece 31, which 10 may be used at any time when the check-ropes are or become inoperative at or near the end of a row to operate the droppers, or either of them, to deposit the corn until the machine has been turned and the check-ropes are 15 again available.

A check-row corn-planter as herein described is simple in construction and operation and durable as well as cheap to manufacture.

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

1. The combination with the axle supported on wheels and provided with the top frame, of 25 the vertical shaft provided with the upper and lower reversely-toothed wheels, the notched sliding bar provided with a pin engaging the lower toothed wheel, the spring-actuated levers engaging the upper toothed wheel, the 30 checks at the ends of the top bar, the angle-levers engaging the spring-actuated levers and the adjustable corn-boxes having valves therein connected to the rods engaged by the notched transverse slide-rod, in rear of the 35 axle substantially as described.

2. The combination with the frame having

the vertically-disposed shaft provided with the upper and lower toothed wheels, the spring-actuated levers engaging the upper toothed wheel, the angle-levers connecting 40 the outer check-slides with said spring-actuated levers, the hand-levers connected with the angle-levers and the notched slide-rod connected with the rods of the corn-boxes substantially as and for the purposes specified. 45

3. The combination with the frame supported on wheels and provided with depending corn-boxes having internal valves mounted on rocking valve-stems, of the notched slide-rod connected with the supporting-frame and 50 adapted to be operated both mechanically and manually to control the dropping mechanism substantially as described.

4. The combination with the supporting-frame mounted on the axle and provided with 55 a vertical shaft having at its upper and lower ends centrally-arranged toothed wheels, the teeth of which project in opposite directions to one another, spring-pressed levers engaging the upper toothed wheel, angle-levers en- 60 gaging the spring-pressed levers, check-guides engaging said angle-levers a notched transverse slide-rod provided with a pin engaging the lower toothed wheel and the bar engaging the notches in the axle and trans- 65 verse sliding bar substantially as described.

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

RUFUS H. FISHBAUGH.

Witnesses:

G. H. QUICK,
W. S. SMITH.