(No Model.) 2 Sheets—Sheet 1.

H. LANIUS.

CORN HARVESTER AND SHOCKER.

No. 577,041. Patented Feb. 16, 1897.

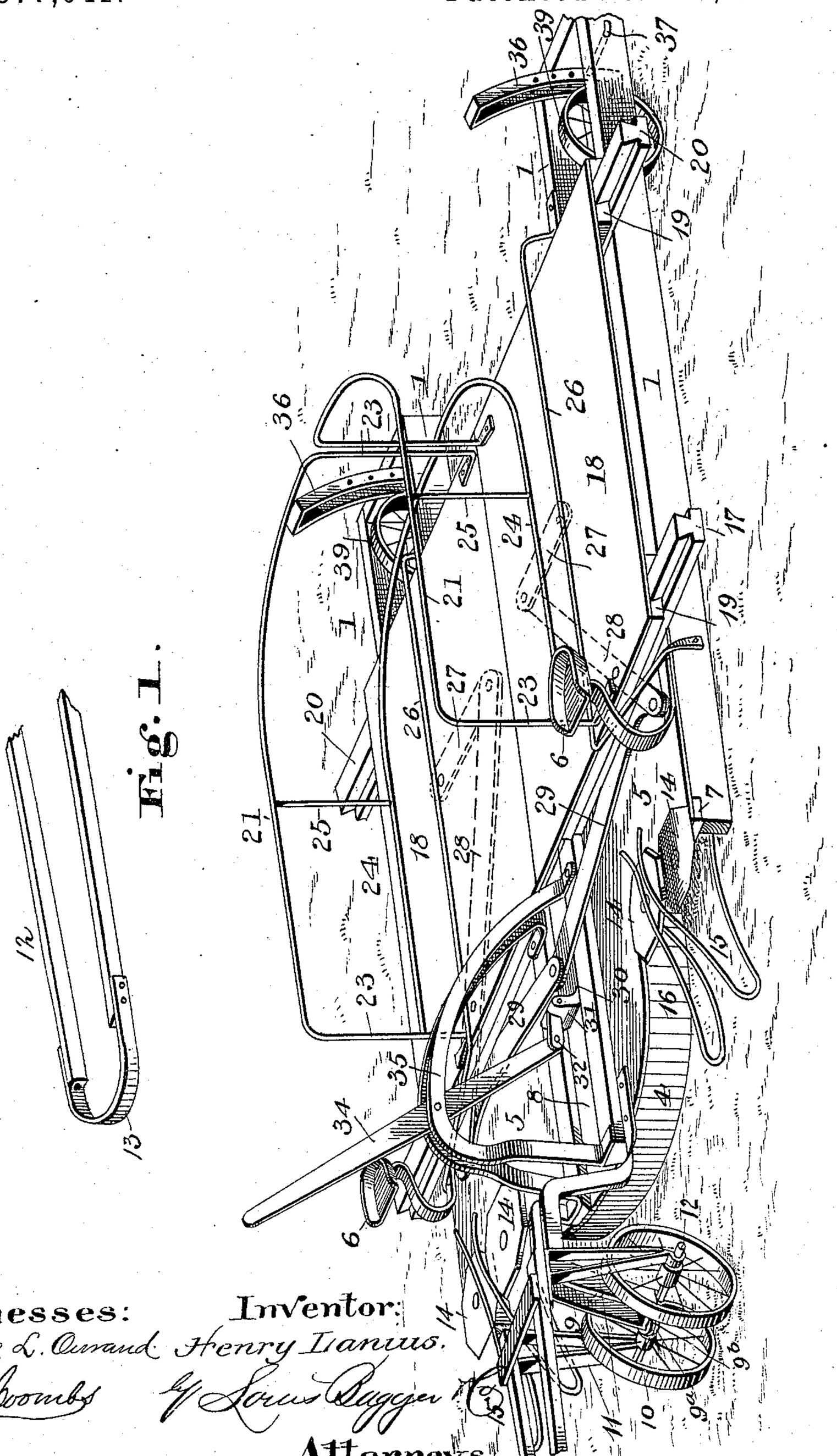

Fig. 1.

Fig. 4.

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 2

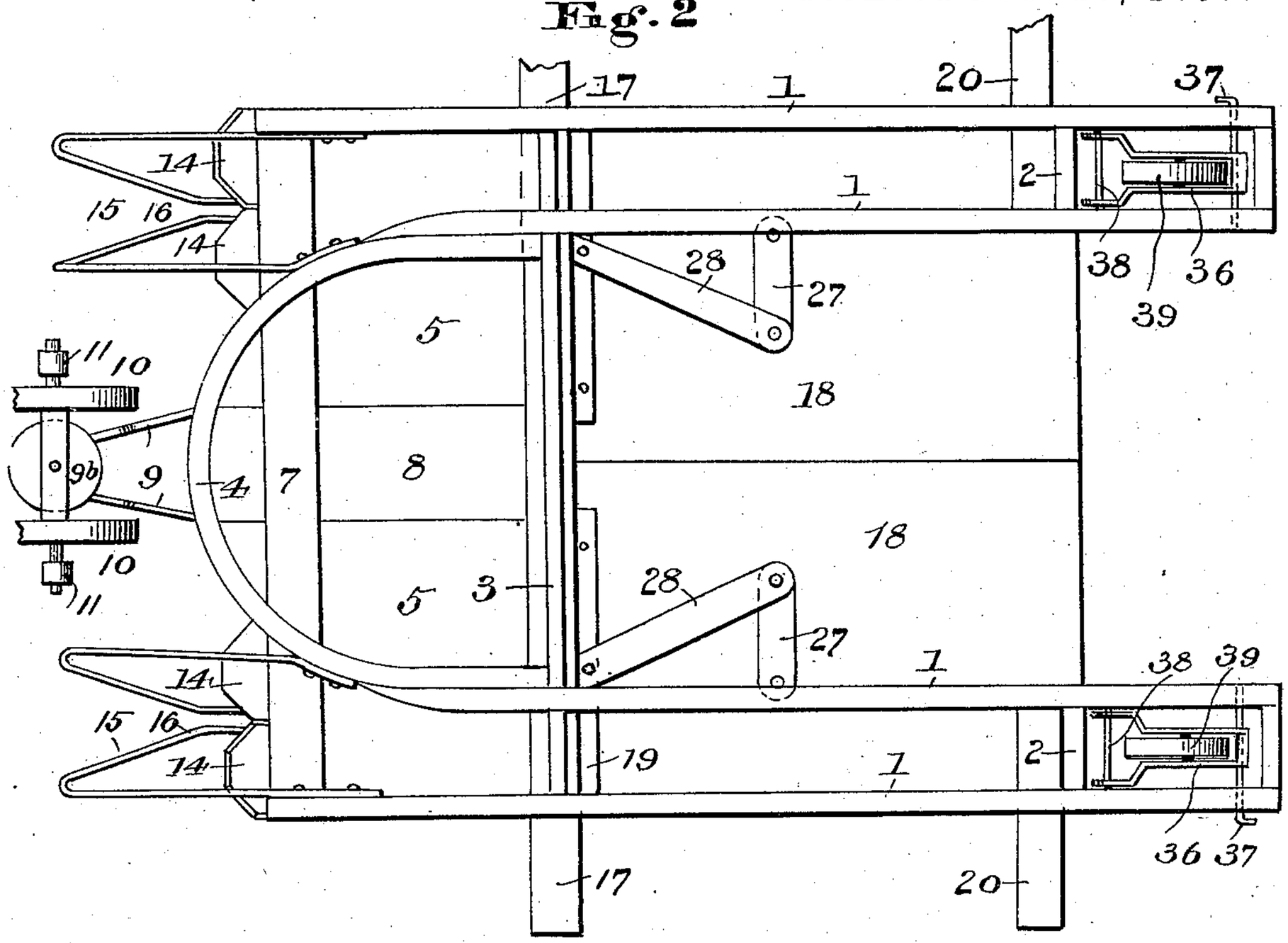
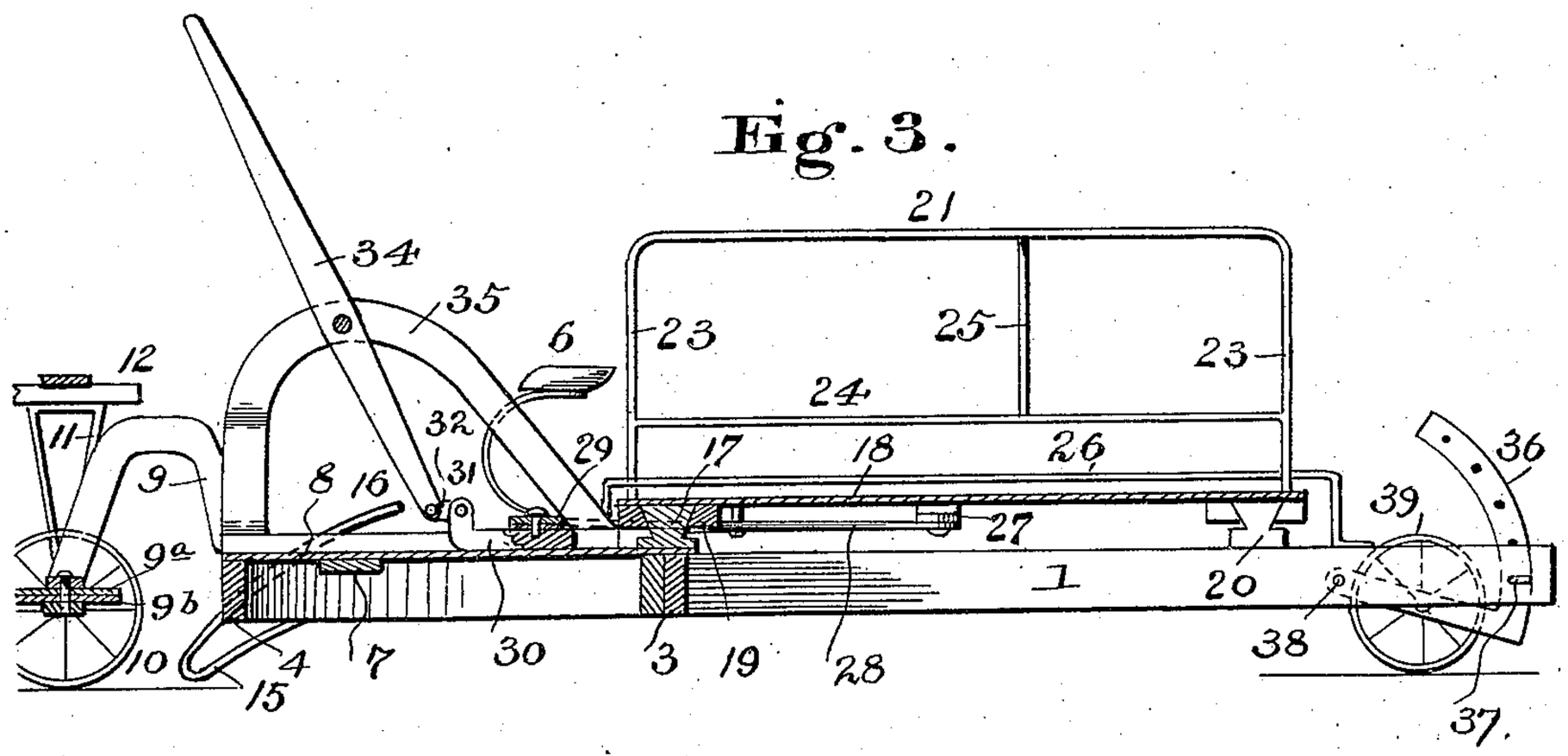


Fig. 3.



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UNITED STATES PATENT OFFICE.

HENRY LANIUS, OF GALION, OHIO.

CORN HARVESTER AND SHOCKER.

SPECIFICATION forming part of Letters Patent No. 577,041, dated February 16, 1897.

Application filed December 18, 1895. Serial No. 572,495. (No model.)

To all whom it may concern:

Be it known that I, HENRY LANIUS, a citizen of the United States, and a resident of Galion, in the county of Crawford and State of Ohio, have invented certain new and useful Improvements in Corn Harvesters and Shockers; 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.

My invention relates to improvements in corn harvesters and shockers; and its object is to provide an improved construction of the same which shall possess superior advantages with respect to efficiency in operation.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a corn harvester and shocker constructed in accordance with my invention. Fig. 2 is a bottom plan view. Fig. 3 is a central longitudinal section of the same. Fig. 4 is a perspective view of the front end of the tongue.

In the said drawings the reference-numeral 1 designates four longitudinal side beams arranged in pairs at each side of the machine and the beams comprising the pairs connected together by transverse pieces 2. Near the front ends the inner beams are connected by means of a transverse beam 3, and said inner beams are provided with a forwardly-extending curved beam 4. Secured to this curved beam and to the outer side beams are two stationary platforms 5, provided at their outer sides with seats 6. These platforms are connected together by means of a transverse bar 7. Secured to said curved beam and to the cross-beam 3 and located between said platforms is a plate 8, having ways on its upper side, for a purpose hereinafter described.

The numeral 9 designates two curved arms secured to the front of the machine and also secured to one section 9^a of a fifth-wheel 9^b. The other section of the fifth-wheel is secured to the axle of the guide or pilot wheels 10.

The numeral 12 designates the shafts, provided with brackets 11, in which said axle is journaled, and having at the front ends a curved fender-bar 13. At the outer sides of said platform are pivoted circular or polygonal cutters or disks 14, arranged in pairs, and the disks of each pair having the edges oppositely beveled and overlapping each other, so as to produce a shearing cut when the cornstalks engage therewith. In the front of each pair of said disks are guides 15, consisting of metal rods, one end of which is secured to the said platforms and then extended outwardly and then upward and inward, forming arms 16, with the free ends terminating above the said disks. There will be a flaring or wedge-shaped space between the arms 16 of the guides, and the corn engaging with the said arms when the machine is traveling over a field will be guided to the disks or cutters. Secured to the side beams 1 intermediate their ends is a transverse dovetailed rail 17, upon which rest and work the transversely-movable platforms 18, provided on the under side with guide-strips 19, which engage with said rail. The rear ends of said platforms are supported by short rails 20, which do not extend across the machine, but are secured to each pair of side beams 1, leaving the rear end of the machine open. Each of these platforms is provided with a railing consisting of the curved rod 21, having its ends bent downward at right angles, forming standards 23, which are secured to the front and rear ends, respectively, of said platforms, the curved lower rod 24, secured to said standards, and the intermediate vertical connecting-rod 25.

The numeral 26 designates fenders, consisting of horizontal rods extending along the platform 18, the rear end being secured to the under side beam and the front end bent outward at a right angle and secured to the outer beam.

Pivoted to the under side of each of the platforms 18 is a link 27, which in turn is pivoted to a lever 28. The opposite ends of these levers are pivoted to inwardly-extending links 29, the inner ends of which are pivoted to a block 30, working in the guideways of the plate 8. This block is provided with lugs 31, to which is pivoted a link 32, connected with a lever 34, pivoted to segments 35, secured to the plate 8.

The rear ends of the side beams 1 extend

beyond the rear of the platforms 18, and are provided with segment-plates 36, formed with a series of apertures for the passage of a removable pin 37. The lower ends of these plates are extended forward and outward and pivotally connected with a pin 38. The numeral 39 designates supporting or truck wheels, which may be raised and lowered by means of the adjustable segment-plates, to which they are journaled.

The operation is as follows: The machine is drawn across the field and the standing corn will be guided to the cutting-disks by the guides in front thereof. As the corn comes into engagement with said disks they will be rotated and by means of their overlapping edges will sever the stalks by a shearing cut. The operators sitting on the seats will now seize the stalks and push them back into the movable platforms, where they will be held in an upright position until sufficient have been cut to form a bundle. They are then tied, when the movable platforms are moved outward by means of the lever 34 and connections, and the fenders will push the bundles off into the space between the platforms, so as to leave them in an upright position on the ground. There being no cross-bars at the rear of the machine, the bundles or shocks, after being deposited on the ground, will not be interfered with by any part of the machine.

Many modifications may be made in the details of construction without departing from the principle of my invention, and I therefore do not limit myself to the precise construction of parts or features herein shown.

Having thus fully described my invention, what I claim is—

1. In a corn-harvester, the combination with the side beams, the stationary platforms, the cutters and the guides, of the laterally-movable platforms, the curved guide-railings secured thereto, the links pivoted to said platforms, the levers pivoted thereto, the links connected with said levers, the horizontally-slidable block, the guideways therefor, the lever pivotally connected with said block, the segments to which said lever is pivoted, and the fenders secured to the side bars of the machine, substantially as described.

2. In a corn-harvester, the combination with the beams arranged in pairs at each side of the machine, the stationary platforms at the front thereof, the dovetailed rail extending across the machine and secured to said beams, and the short dovetailed rails at the rear of said beams with a space between their inner ends, of the laterally-movable platforms, the beveled guides on the under sides thereof engaging with said rails, the links and levers for operating said platforms, the curved guide-rails, and the fenders consisting of the rods secured at their rear ends to the inner side beams and extending horizontally to and beyond the front of the platforms and their ends turned outwardly at right angles and secured to the outer side beams, substantially as described.

3. In a corn-harvester of the character described, the combination with the parallel side beams arranged in pairs, the laterally-movable platforms and the guide-railings consisting of a curved metal rod the ends of which are turned downwardly at right angles and secured to said platforms and the curved horizontal and the vertical brace-rods, of the fenders consisting of the rod secured to the inner side beam near the end thereof, and extending above the platform to and in front of the front end thereof and then bent outwardly at a right angle and secured to the outer side beam, substantially as described.

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

HENRY LANIUS.

Witnesses:
J. H. McCLARREN,
ANDR. PLACK.