

No. 615,949.

Patented Dec. 13, 1898.

J F AMOS, JR.  
CORN PLANTER.

(Application filed Aug. 10, 1898.)

(No Model.)

3 Sheets—Sheet 1.

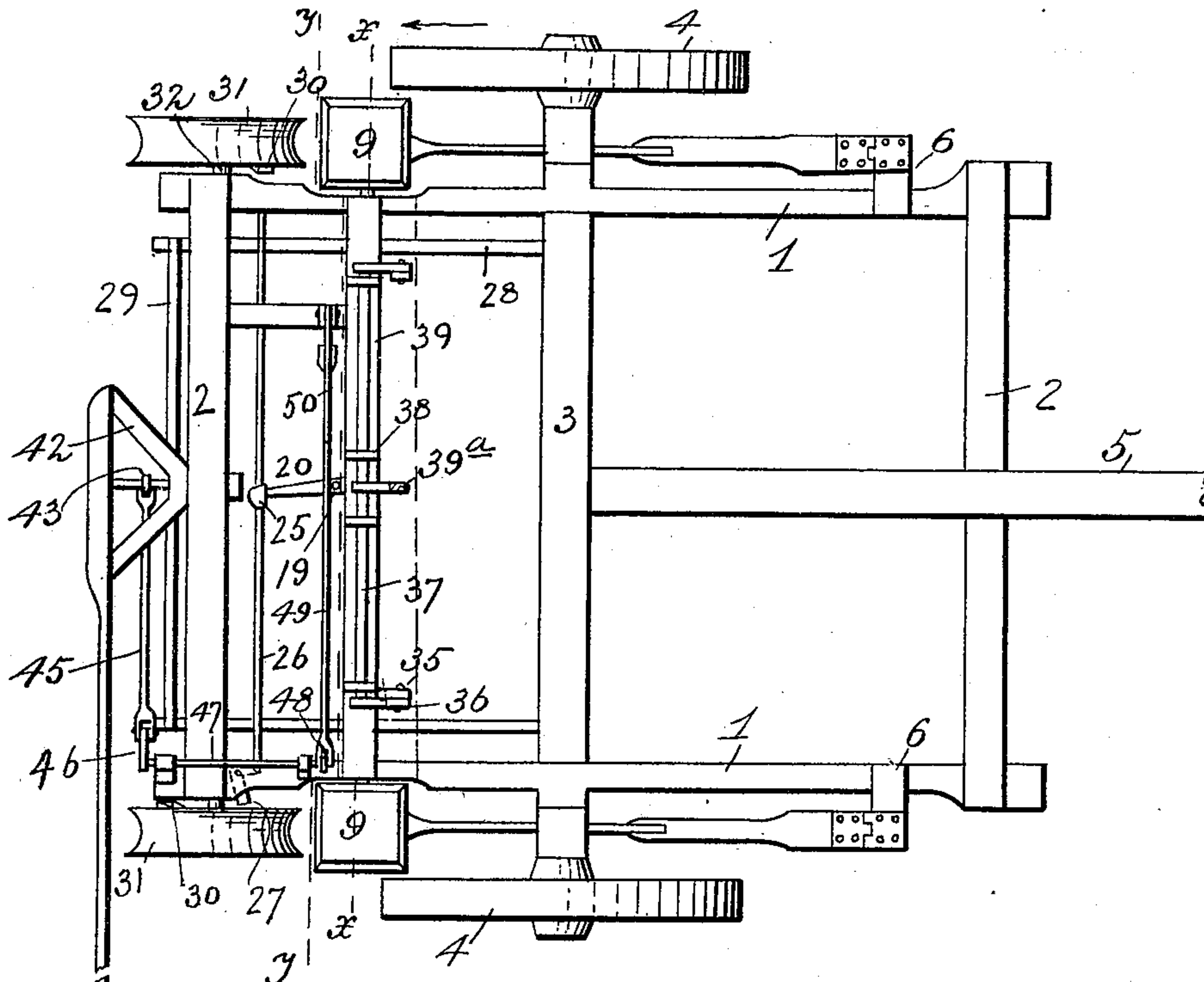


Fig. 1.

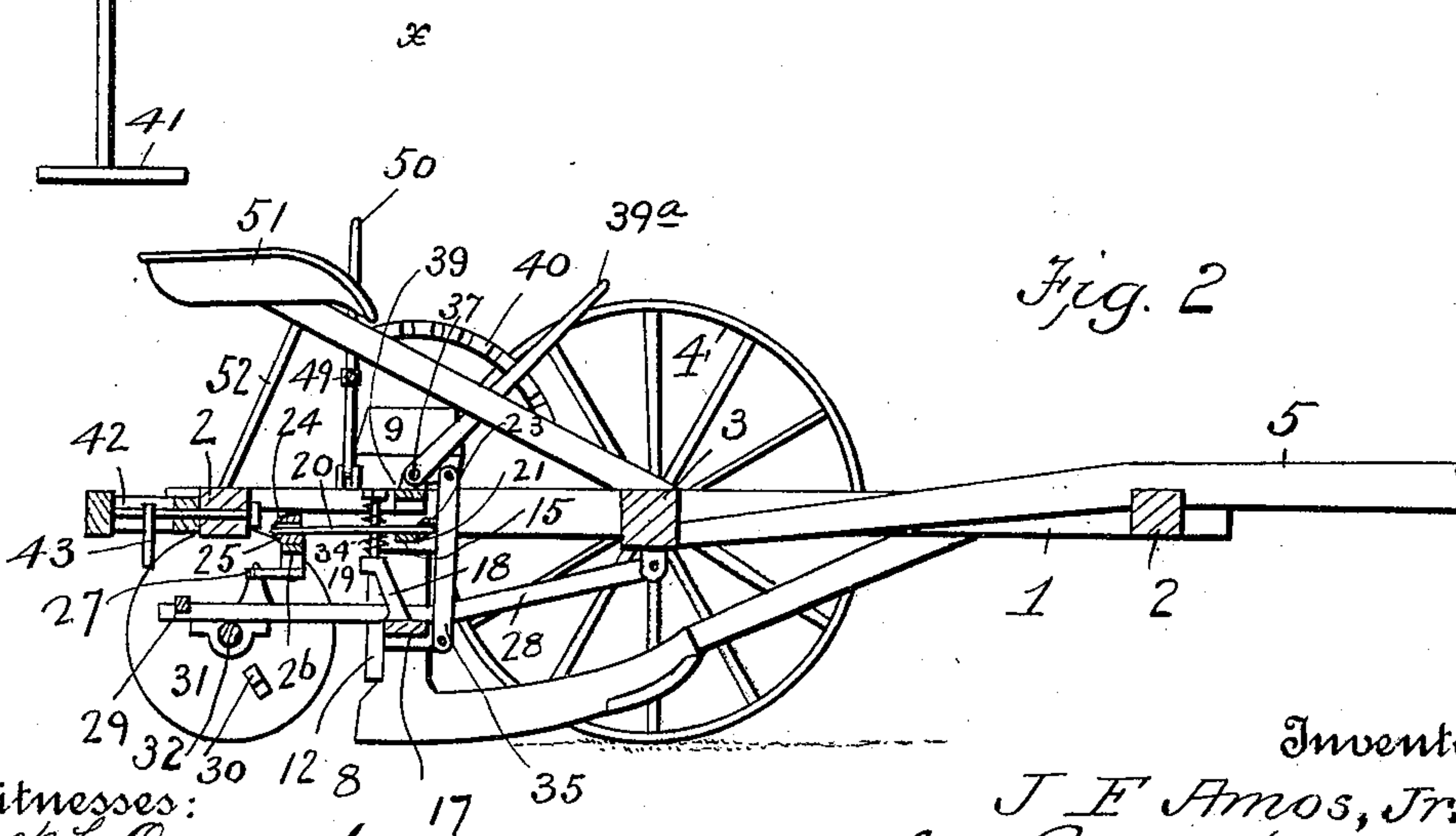


Fig. 2.

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Fig. 3.

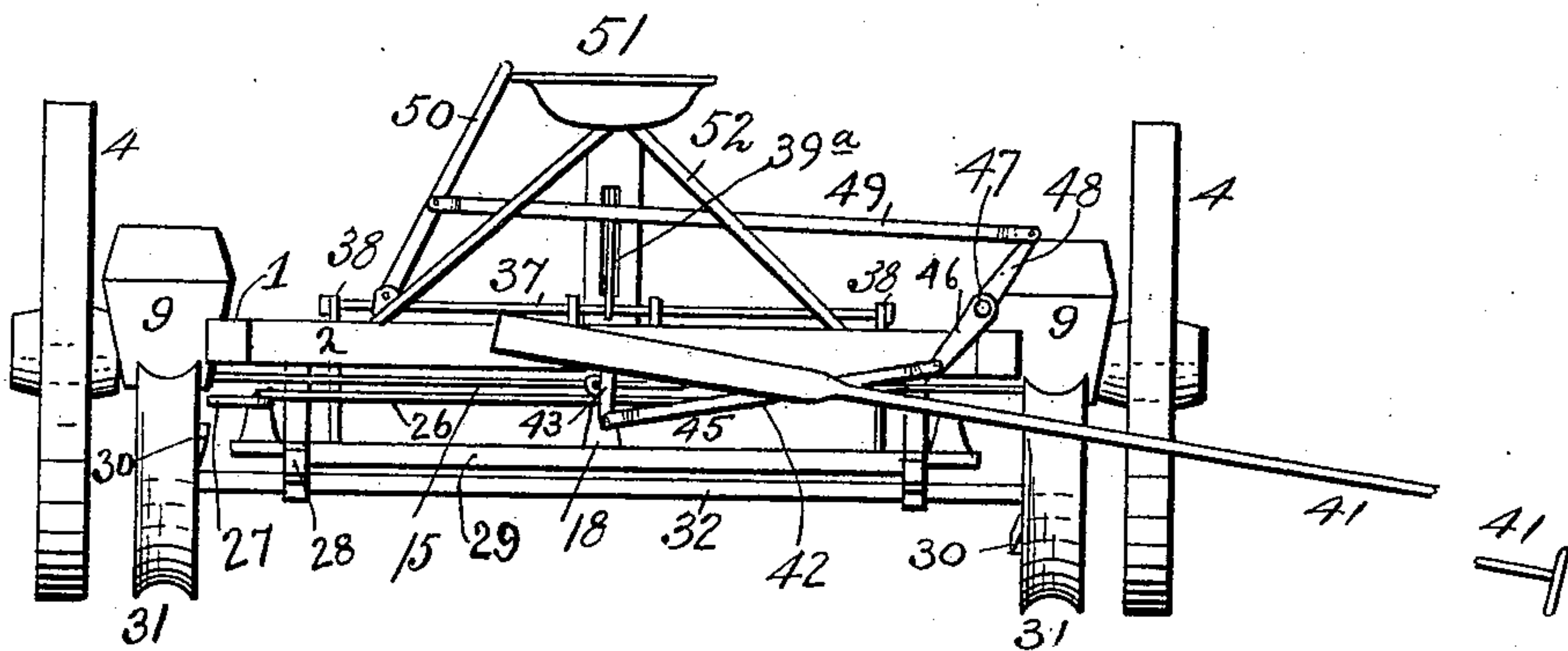
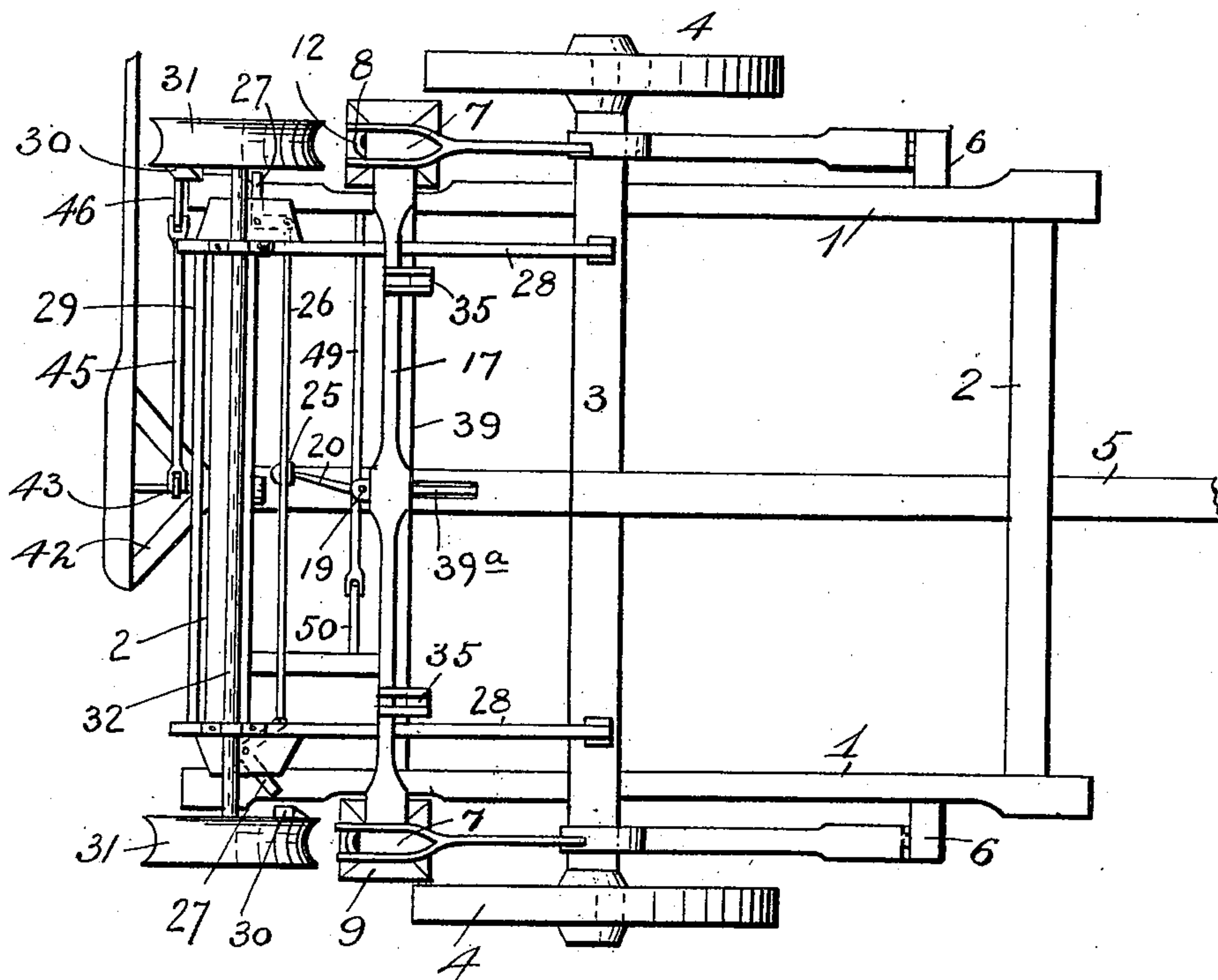


Fig. 6.



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Fig. 4.

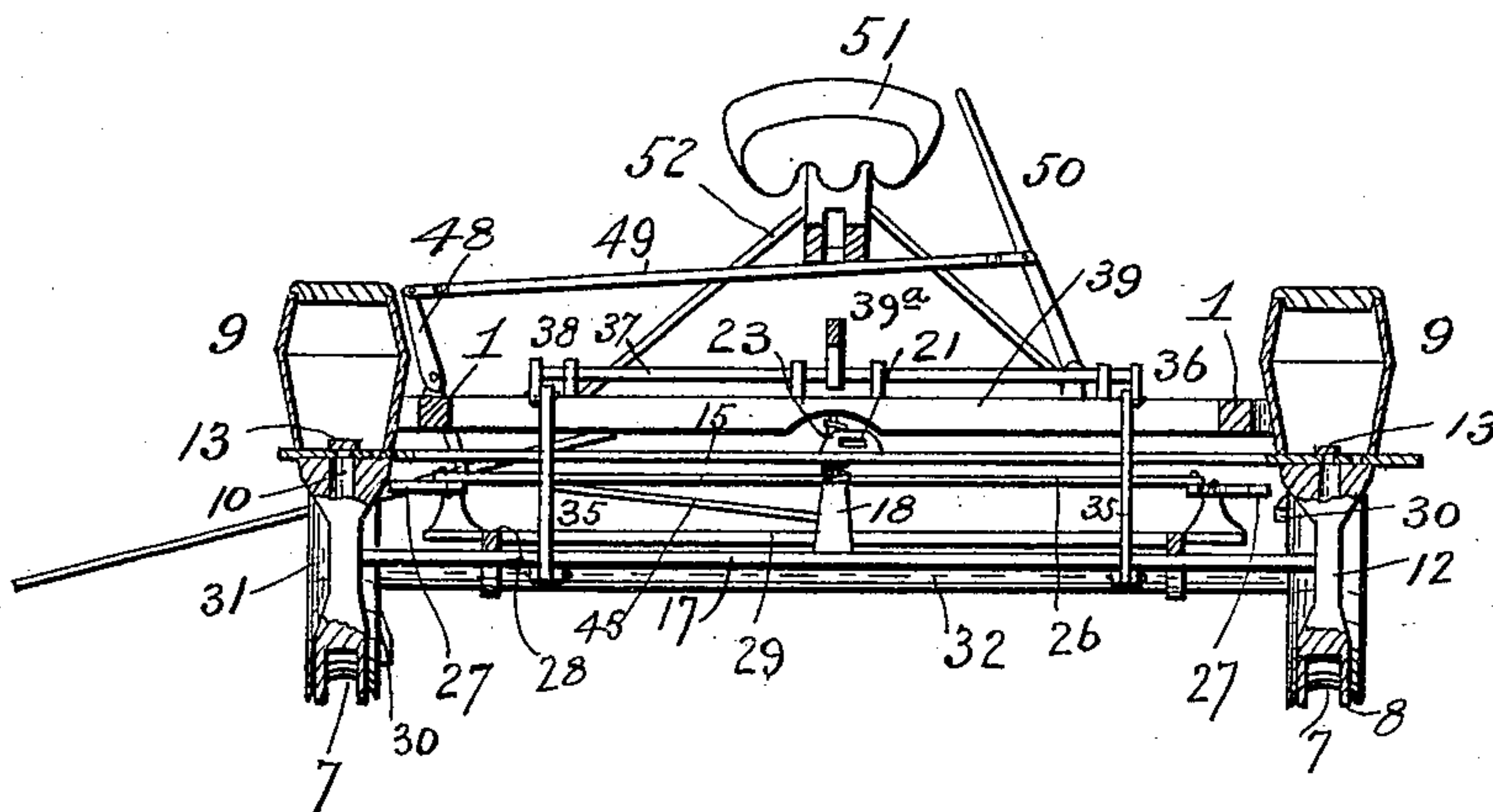


Fig. 5.

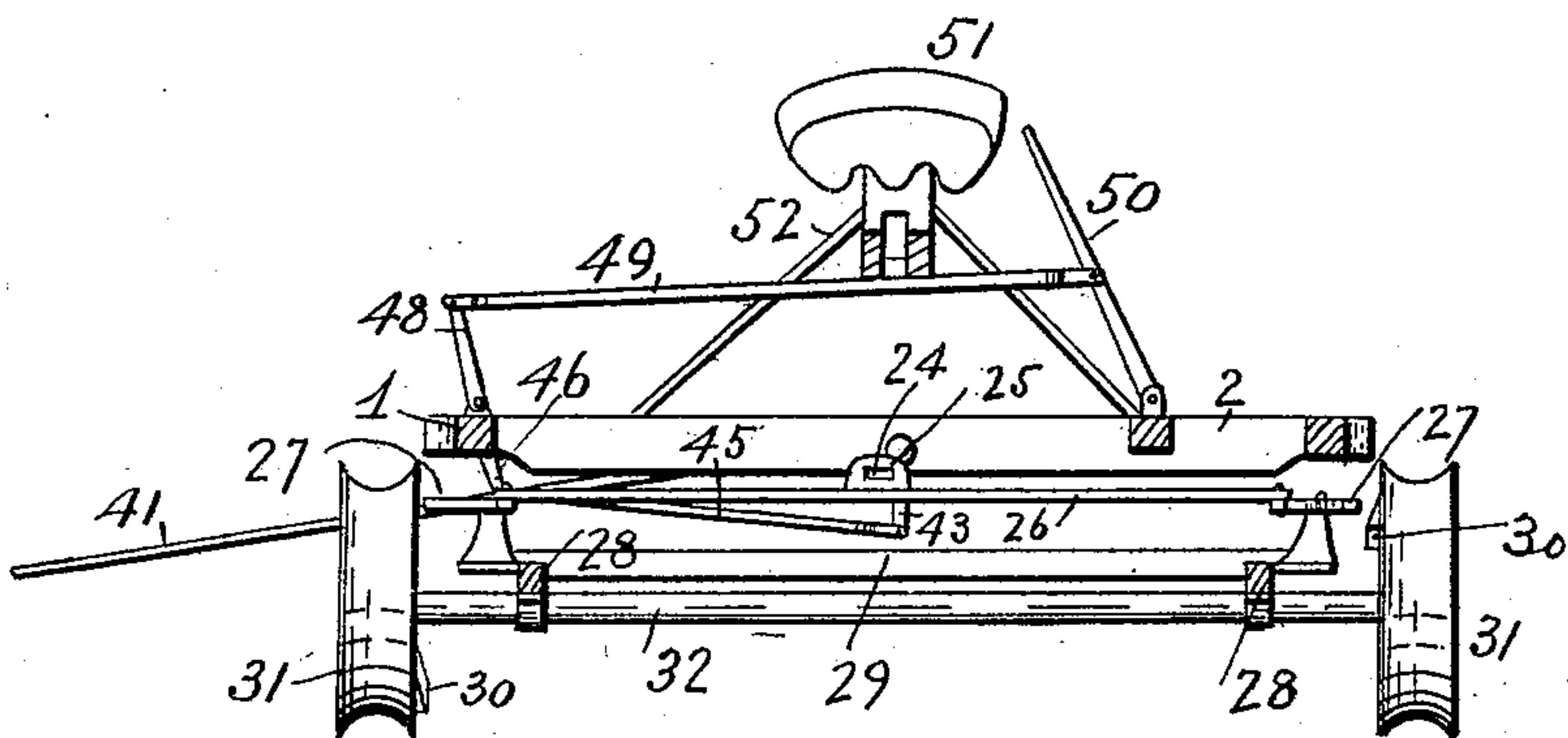


Fig. 7.

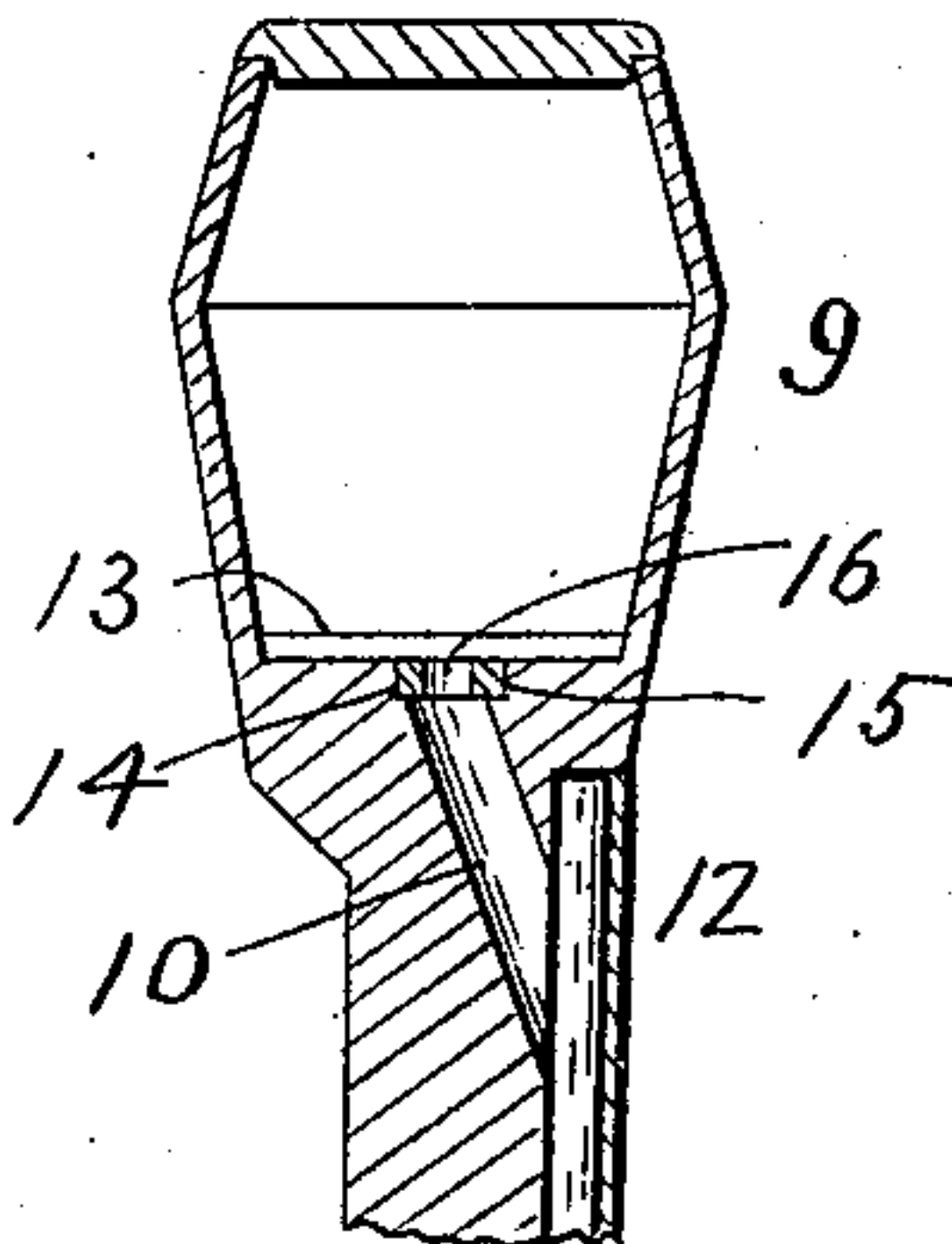
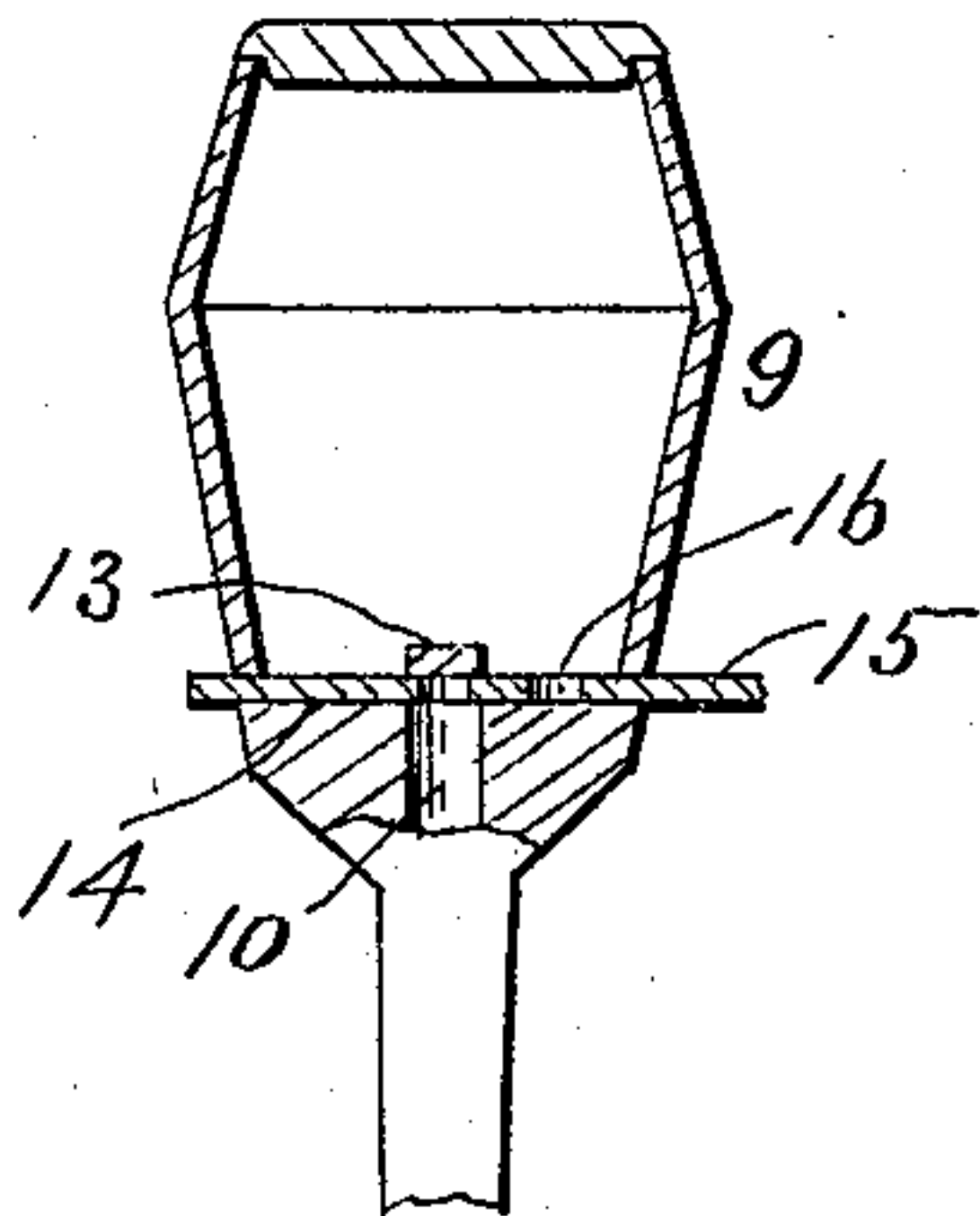


Fig. 8.



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# UNITED STATES PATENT OFFICE.

J F AMOS, JR., OF FREDERICKTOWN, OHIO.

## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 615,949, dated December 13, 1898.

Application filed August 10, 1898. Serial No. 688,270. (No model.)

*To all whom it may concern:*

Be it known that I, J F AMOS, Jr., a citizen of the United States, residing at Fredericktown, in the county of Knox and State of Ohio, have invented new and useful Improvements in Corn-Planters, of which the following is a specification.

My invention relates to corn-planters; 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 herein-  
after fully described and claimed.

In the accompanying drawings, Figure 1 is a plan view of a corn-planter constructed in accordance with my invention, the seat and seat-supports being removed to more clearly show the parts. Fig. 2 is a central longitudinal section. Fig. 3 is a rear view. Fig. 4 is a cross-section on the line  $x x$ , Fig. 1. Fig. 5 is a similar section on the line  $y y$  of Fig. 1. Fig. 6 is a bottom view. Fig. 7 is a detail sectional view of one of the seedboxes. Fig. 8 is a similar view in a plane at a right angle to Fig. 7.

In the said drawings the reference-numeral 1 designates two side bars, connected together at the front and rear by end bars 2, forming the frame of the machine.

The numeral 3 designates the axle, 4 the wheels, and 5 the tongue.

Hinged to projections 6, near the front of the machine, are rearwardly-extending shovels or shoes, which extend backwardly beyond the wheels, thus making the draft lighter than if they were in front of the wheels. The rear under sides of these shovels are grooved, as seen at 7, and are also provided with guide-arms 8 for directing the seed into the furrow formed by the shovels. Secured to said shovels are the seedboxes 9, provided with a central recess 10, leading to the seed-spout 12, the lower end of which is just above the guide-arms 8. Above the recess 10 is a bar 13, and underneath the same and located in grooves 14 in the seedbox is a seed-slide 15, formed with two holes 16. The construction of this seed-slide is such that as it is reciprocated, as hereinafter described, said holes will alternately come into coincidence with the recess

10 and allow a seed carried thereby to fall into the seed-spout.

The numeral 17 designates a transverse bar secured to the seedboxes, provided with a central lug 18, to which is secured a stud-shaft 19, and pivoted to this shaft is a lever 20, the front end of which engages with a slot 21 in a lug 23, secured to the seed-slide. The rear end of this lever engages with a recess 24 in a block 25, secured to a transverse reciprocating bar 26. This bar, at each end, is pivotally connected with one arm of a bell-crank lever 27, pivoted to a swinging frame comprising side bars 28, connected at the rear ends by a cross-bar 29 and the front pivotally connected to the axle of the machine. The other arms of said bell-crank levers are adapted to be struck by a projection 30 on the grooved covering-wheels 31, secured to a shaft 32, journaled to said swinging frame. By this construction as the covering-wheels are rotated the projections thereon will alternately strike the bell-crank levers, causing the bar 26 to be reciprocated, which, through its connections, will reciprocate the seed-slide. The stud-shaft 19 is provided with coiled springs 34, bearing against the upper and lower sides, respectively, of the lever 20.

Pivotally connected with the bar 20 are vertical arms 35, the upper ends of which are pivoted to cranks 36 on the ends of a transverse shaft 37, journaled in lugs 38 of a transverse bar 39, secured to the side bars 1. This shaft is provided with an operating-lever 39<sup>a</sup>, adapted to engage with a rack-segment 40, secured to the seat-support for holding it in place. By operating the lever the shaft 37 is turned, raising or elevating the shovels and also the swinging frame, which rests on the bar 17.

The numeral 41 designates the marker, secured to a bracket 42, journaled in the rear end bar 2. This bracket is provided with a crank 43, to which is pivoted a rod 45, the other end of which is pivoted to a crank 46, secured to a shaft 47, also provided with a crank 48 at the opposite end. Pivoted to this crank 48 is a rod 49, pivoted to a lever 50. By operating this lever the marker may be thrown into and out of contact with the ground.

The numeral 51 designates the seat, and 52 supporting-legs therefor.



The operation is as follows: As the machine is drawn over a field the shovels will make a furrow at each side of the machine and the seed will be dropped by the seed-slide, 5 which is operated as before described. The grooved covering-wheels will cover the seed after they have been dropped. The shovels and swinging frame can be elevated out of contact with the ground when desired.

10 By my invention the seed can be dropped in straight rows both ways of the field without marking off the ground, and the shovels being back of the wheels the draft is much lighter.

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

1. In a corn-planter, the combination with the frame, the axle, the shovels hinged to said frame, the seedboxes having a central 20 recess, the seed-spouts, the bars located in said seedboxes, the reciprocating seed-slide formed with seed-openings, of the frame pivotally connected with said axle, the covering-wheels provided with projections, and means 25 for operating the seed-slide by the movement of the covering-wheels, substantially as described.

2. In a corn-planter, the combination with

the frame, the axle, the shovels hinged to said frame, the seedboxes, and the seed-slide, 30 of the swinging frame pivotally connected with the axle, the box secured thereto provided with a central lug, the stud-shaft, the lever journaled thereon, the lug secured to the seed-slide having an opening with which 35 the front of said lever engages, the transverse rod, the recessed block secured thereto, the bell-crank levers to which said bar is pivotally connected and the covering-wheels provided with projections engaging with said 40 bell-crank levers, substantially as described.

3. In a corn-planter, the combination with the frame, the shovels hinged to said frame, the seedboxes and the axle, of the swinging 45 frame pivotally connected with said axle, the vertical arms connected with said swinging frame, the crank-shaft and lever, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 50

J F AMOS, JR.

Witnesses:

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WM. A. ACKERMAN.