

No. 885,494.

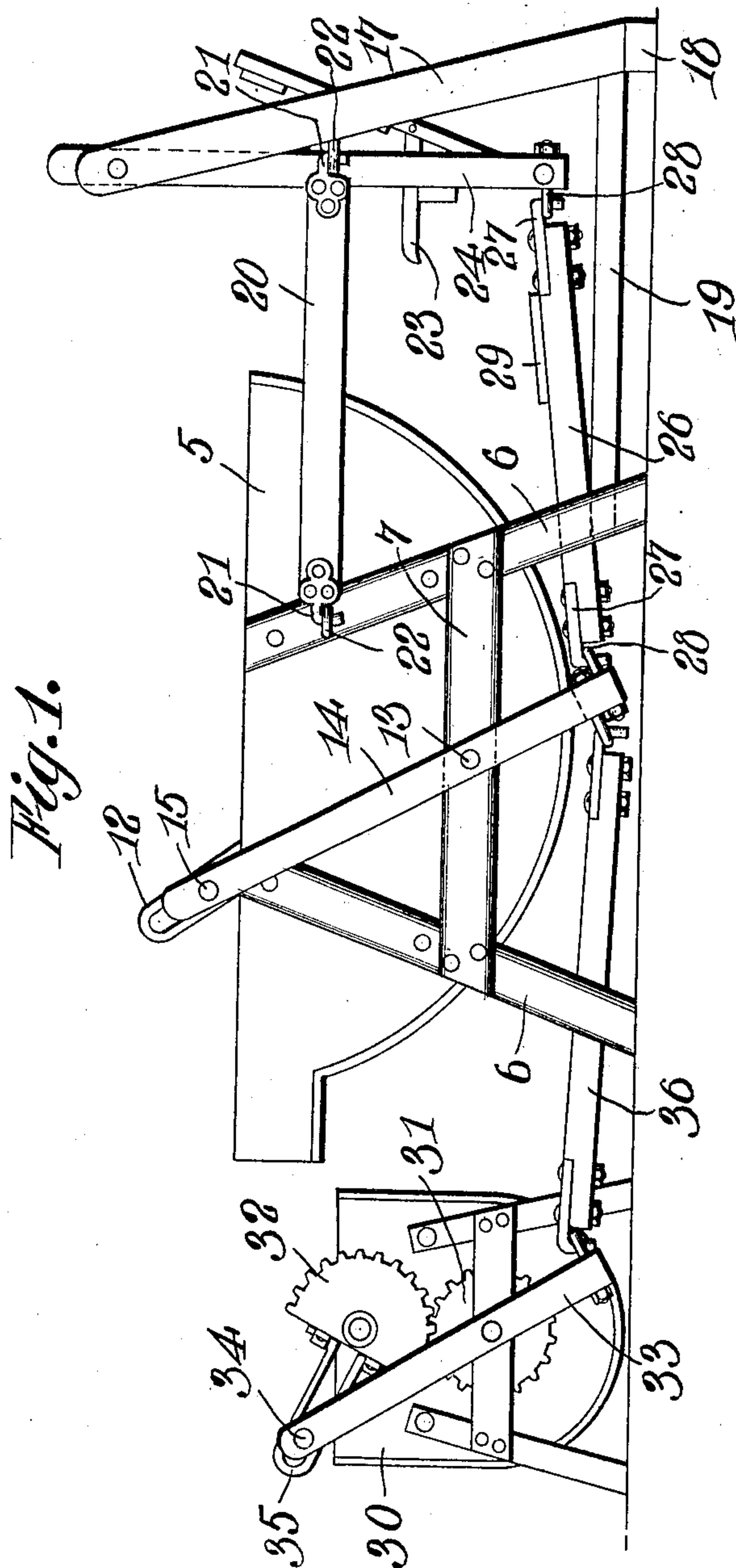
PATENTED APR. 21, 1908.

A. LARSON.

MECHANICAL MOTOR.

APPLICATION FILED JUNE 10, 1907.

2 SHEETS—SHEET 1.



WITNESSES:

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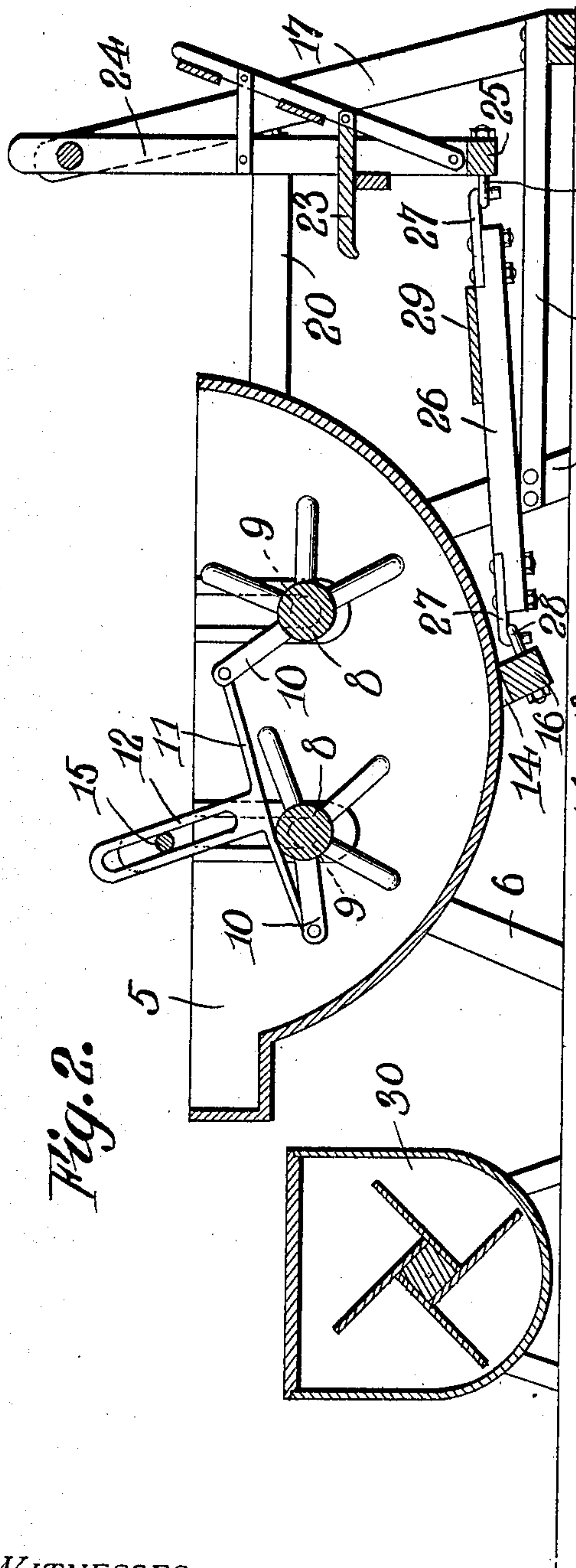


Fig. 2.

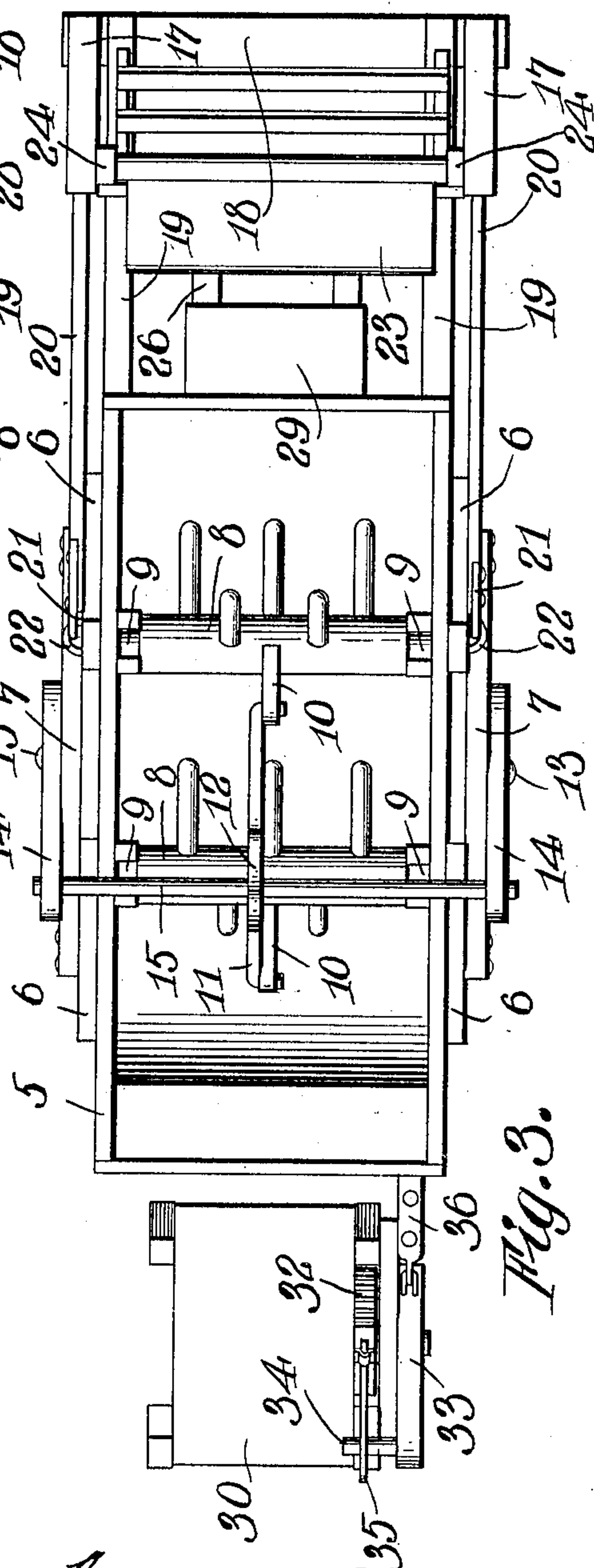


Fig. 3.

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# UNITED STATES PATENT OFFICE.

AUGUST LARSON, OF LA FAYETTE, INDIANA.

## MECHANICAL MOTOR.

No. 885,494.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed June 10, 1907. Serial No. 378,176.

*To all whom it may concern:*

Be it known that I, AUGUST LARSON, a citizen of the United States, residing at La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain new and useful Improvements in Mechanical Motors, of which the following is a specification.

This invention is a mechanical motor, and more particularly an operating device for washing-machines, churns and the like, and has for its object a swing and connection between the same and the machine whereby the oscillation of the swing is communicated to the beater or dasher of the machine.

In the accompanying drawings, Figure 1 is an elevation showing the application of the invention. Fig. 2 is a longitudinal section. Fig. 3 is a plan view.

Referring specifically to the drawings, 5 denotes the tub of a washing-machine which is mounted on legs 6 connected by a cross-bar 7. The tub contains a pair of oscillating beaters 8, the shafts 9 of which are journaled in suitable bearings on the tub. On the shafts are mounted radial stems 10 which are connected by a rod 11 having a yoke 12. To the cross-braces 7 are pivoted, as indicated at 13, levers 14 which are connected at their upper ends by a rod 15 which passes through the yoke 12. The lower ends of the levers are connected by a cross-bar 16 which extends under the bottom of the tub.

Adjacent one end of the tub is a swing 35 which is connected to the cross-bar whereby the oscillation of the swing is utilized to operate the beater. The swing comprises supporting standards 17 connected at their lower ends by a cross-sill 18 which is connected by braces 19 to the legs 6 at one end of the tub 5. Near their upper ends the standards are also braced by bars 20 having hooks 21 at the ends which enter staples 22 on the standard and tub legs. The seat 23 of the swing is carried by hangers 24 pivotally connected at their top ends to the standards. At their lower ends, the hangers are connected by a cross-bar 25 which is connected by bars 26 to the cross bar 16. The

bars 26 have hooks 27 at their ends which enter staples 28 on the cross-bars 16 and 25 by reason of which connection the bars 26 may be removed if the machine is to be manually operated, and by disconnecting the braces 19 the swing may be removed from the washing-machine. On the bars 26 is a foot-rest 29, which also serves to actuate the swing by pressing down thereon with the feet.

In use, the beaters 8 are actuated by a person swinging back and forth in the seat 23. The movement of the swing is communicated by the connections 26 and the levers 14, and the latter through their connection with the beaters actuate the same.

The device can also be employed for operating a churn 30. On the shaft thereof is a pinion 31 which is in mesh with a segment-gear 32. To the churn frame is pivoted a lever 33 having at one end a laterally projecting stem 34, which passes through a yoke 35 carried by the gear 32. The other end of the lever is connected by a bar 36 to the cross-bar 16. By this arrangement the washing-machine and the churn can be operated simultaneously by the swing.

By the device herein described the washing and churning operation is rendered easy and but little strength is required to actuate the swing.

I claim:

The combination of a supporting frame, a pair of upright parallel levers fulcrumed on the frame and connected together and adapted for connection to the machine to be operated, a swing frame connected to said supporting frame and having a pair of oscillating side bars which swing in planes parallel to those in which the levers vibrate, connecting bars between the levers and the side bars, and a foot rest supported on said connecting bars.

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

AUGUST LARSON.

Witnesses:

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