

H. F. VILLWOCK, JR.
WIRE REELING MACHINE.
APPLICATION FILED AUG. 26, 1908.

914,998.

Patented Mar. 9, 1909.

2 SHEETS—SHEET 1.

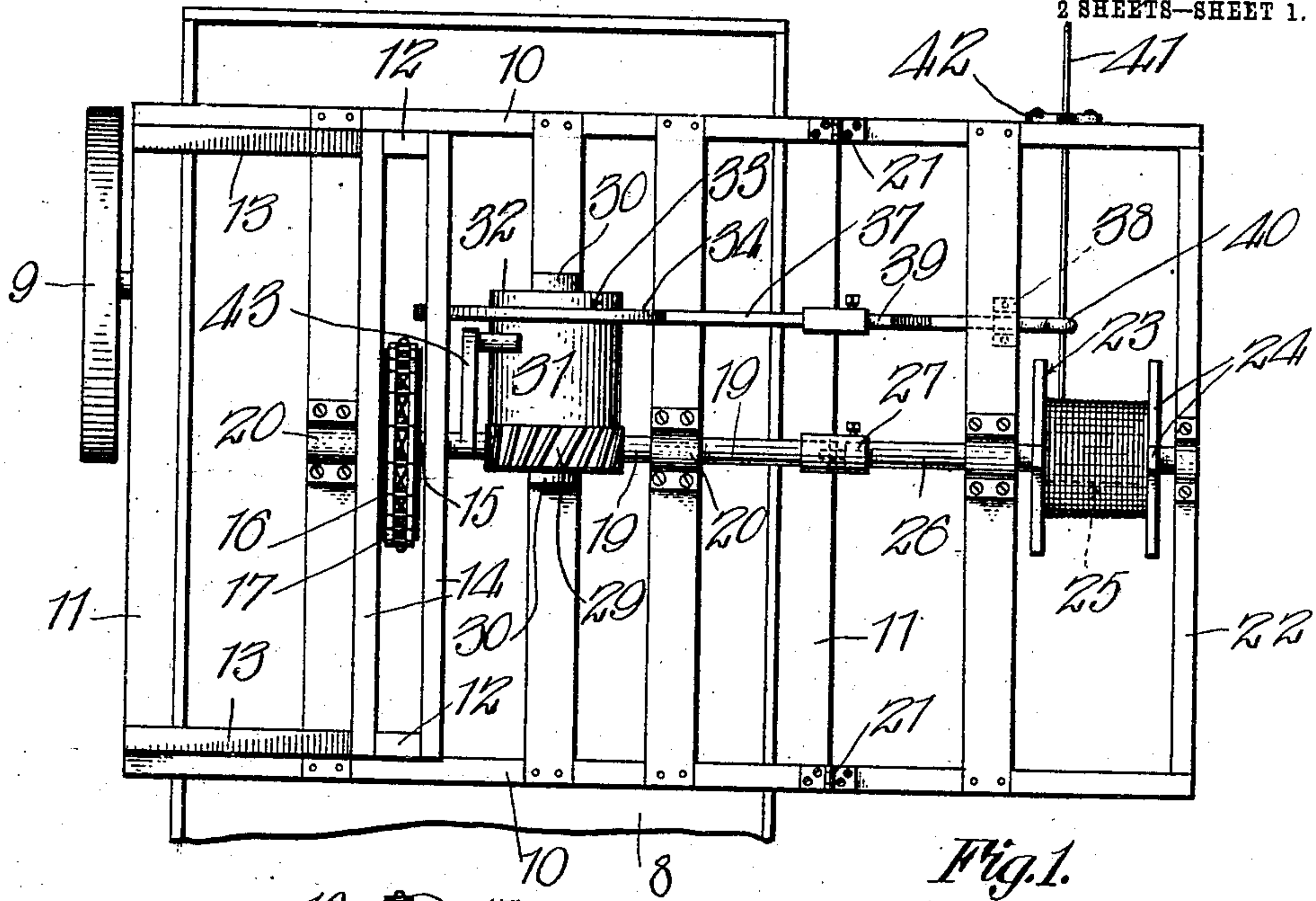


Fig. 1.

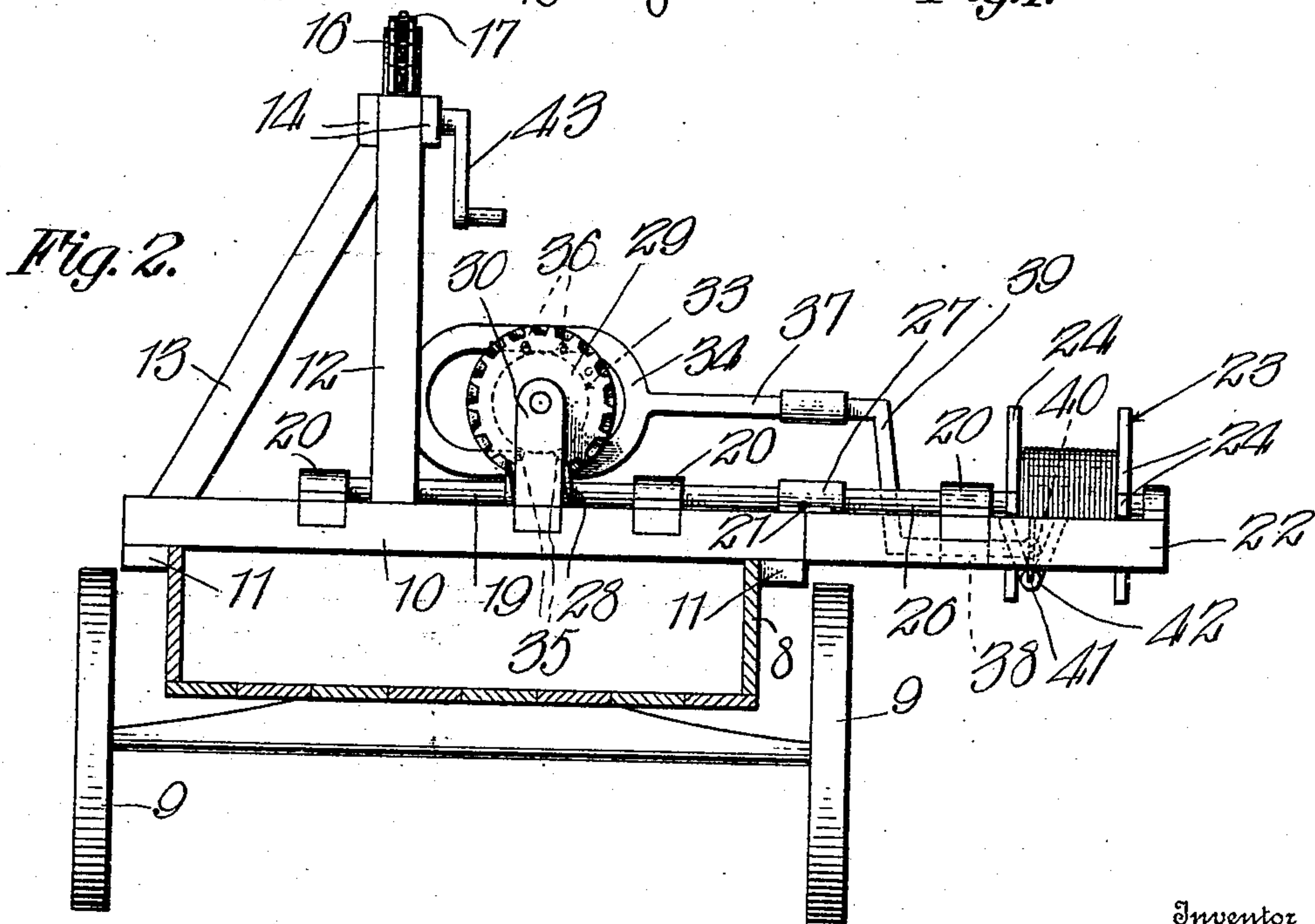


Fig. 2.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

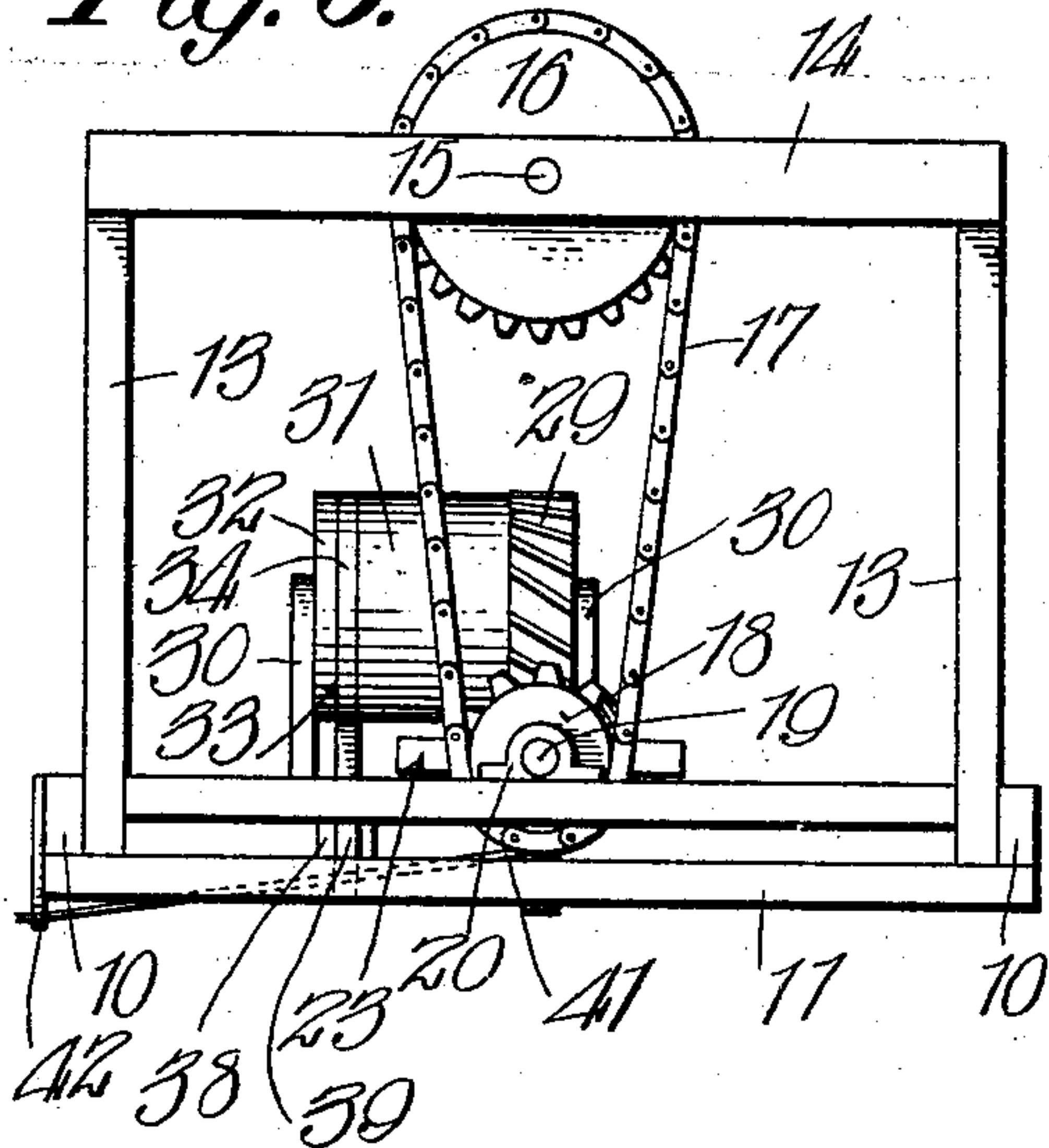


Fig. 4.

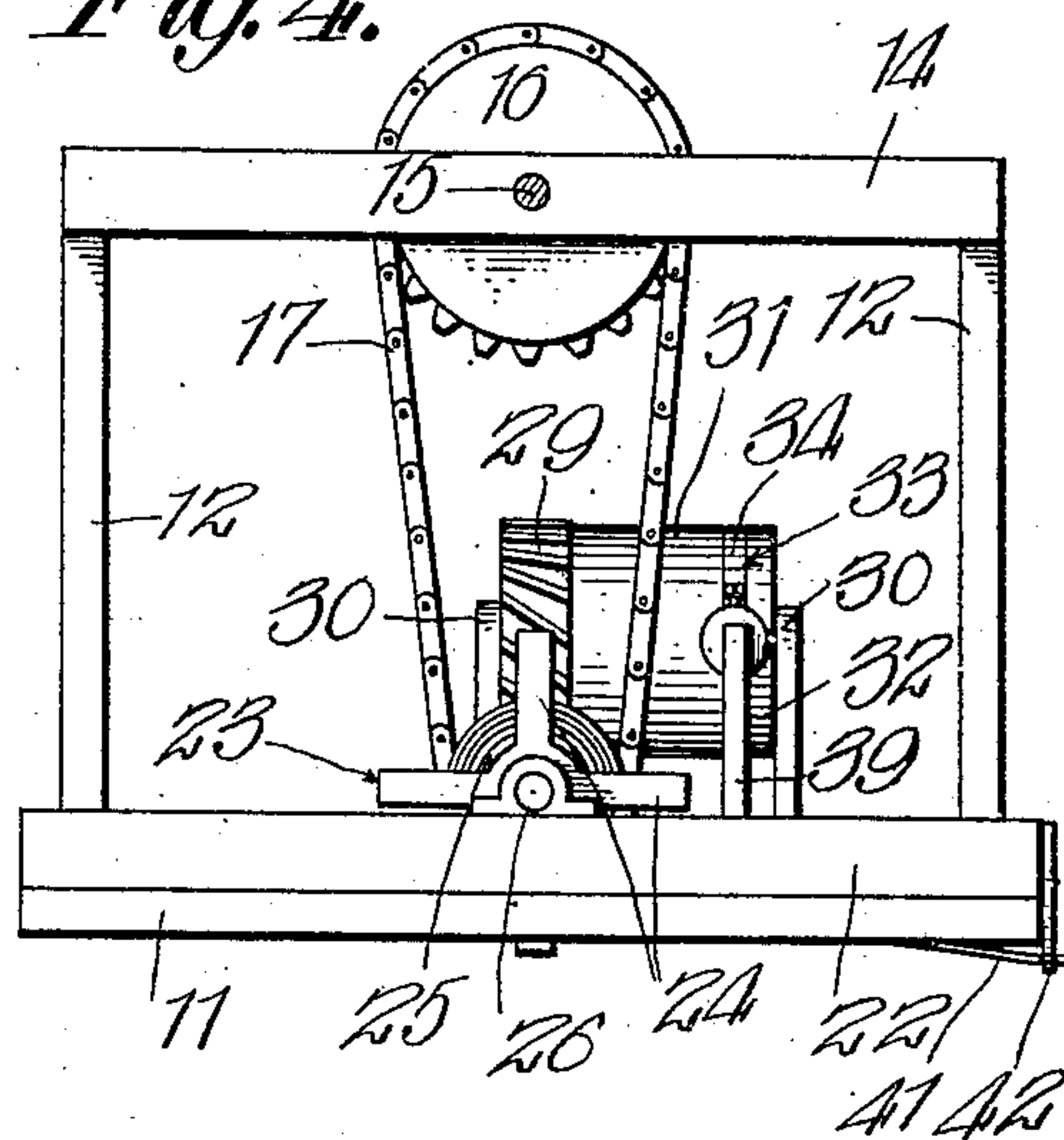
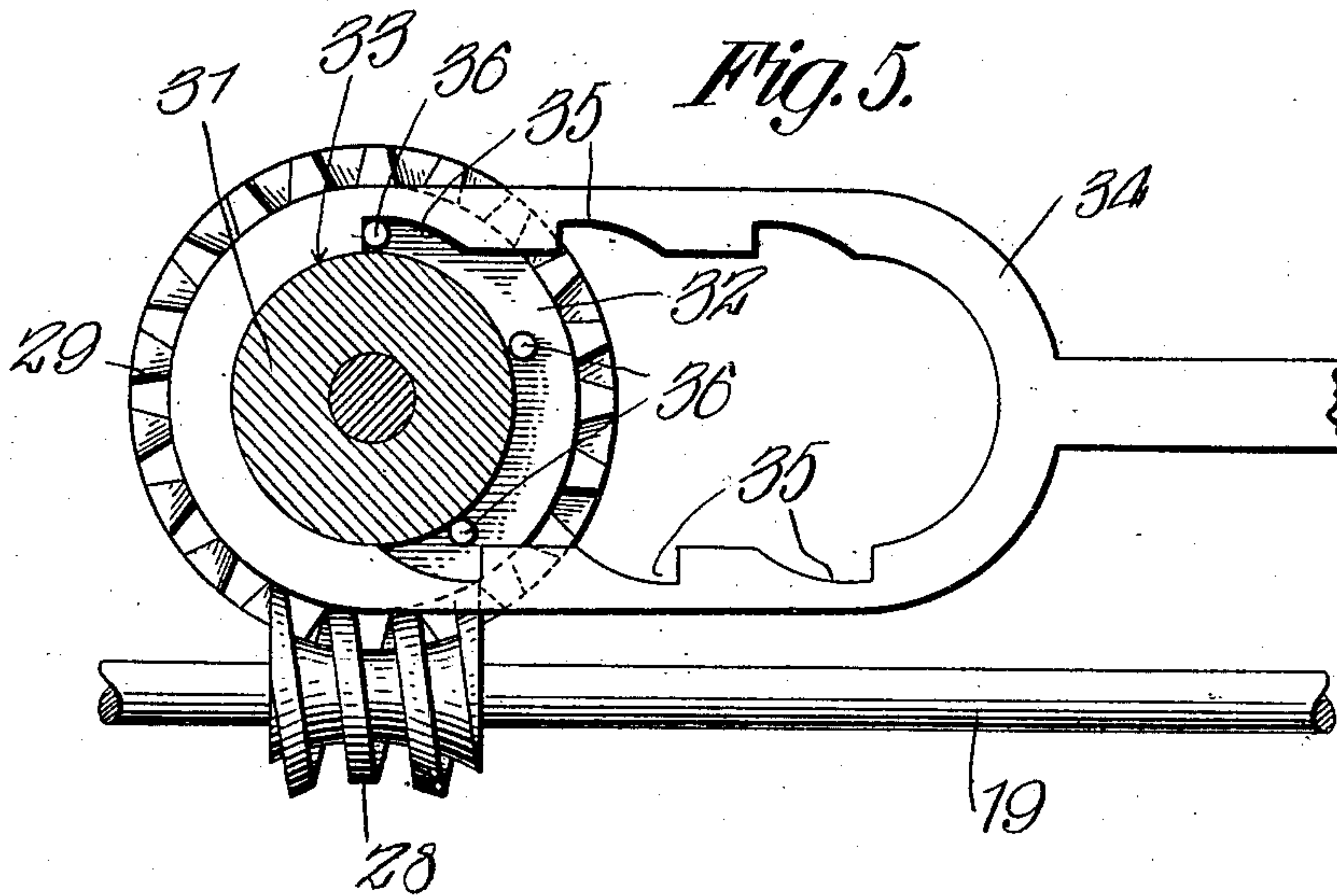


Fig. 5.



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UNITED STATES PATENT OFFICE.

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WIRE-REELING MACHINE.

No. 914,998.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed August 26, 1908. Serial No. 450,323.

To all whom it may concern:

Be it known that I, HERMAN F. VILLWOCK, Jr., a citizen of the United States, residing at Millston, in the county of Jackson, State of Wisconsin, have invented certain new and useful Improvements in Wire-Reeling Machines; and I do hereby 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.

The invention relates to wire reeling machines and more particularly to the class of machines having mechanism for winding up wires such as fence wires upon a reel when it is desired to remove and save the wires of the fence.

The primary object of the invention is the provision of a wire reeling machine that may be mounted or applied to a wagon body and operated to wind up wires as the wagon is driven along and which wires will be automatically coiled evenly upon the reel of the machine.

Another object of the invention is the provision of particular mechanism as will permit the ready winding of wires such as fence wires upon the reel and will assure a proper and even coiling of the wire on said reel.

A further object of the invention is the provision of a machine for winding a wire on a reel, which is simple in construction, thoroughly efficient, durable, and inexpensive in the manufacture.

With these and other objects in view the invention consists in the construction, combination and arrangement of parts as will be hereinafter more fully described and as illustrated in the accompanying drawings. However, it is to be understood that changes, variations and modifications may be resorted to such as come properly within the scope of the claim hereunto appended without departing from the spirit of the invention.

In the drawings: Figure 1 is a plan view showing a portion of a wagon equipped with the invention. Fig. 2 is an end elevation showing the wagon with the reel mechanism thereon. Fig. 3 is a view looking toward one end of the machine removed from the wagon body. Fig. 4 is a similar view looking toward the opposite end. Fig. 5 is a side elevation of the driving gear of the reciprocating rod to feed the wire evenly upon the reel.

Similar reference characters indicate cor-

responding parts throughout the several views in the drawings.

In the drawings, the numeral 8 designates a wagon body having the usual wheels 9 and upon the said body is suitably mounted a frame structure comprising spaced side beams 10 united to cross beams 11 and rising from the side beams are uprights or standards 12 supported in their vertical position by angle brace bars 13 and to the upper ends of said uprights or standards are secured spaced parallel horizontal beams 14 having journaled centrally in the same a shaft 15 having fixed thereto a driving sprocket wheel 16 carrying a sprocket chain 17 trained over the same and a sprocket wheel 18 on a driven shaft 19 disposed in bearings 20 and across the center of the frame structure. To the said frame structure is hinged as at 21 a swinging section 22 in which is journaled a reel 23 the latter having radial arms 24 projecting from the sleeve 25 fixed to a rotatable reel shaft 26 the same in alignment with said driven shaft and detachably connected thereto by a coupling 27 whereby motion is imparted through the shaft to the reel.

The driven shaft 19 is provided with a worm thread 28 in mesh with a worm gear 29 which latter is supported by a bracket bearing 30 and said gear 29 at one side of the same is provided with an integral hub 31 with an annular flange 32 to form a groove 33 in which travels an elliptical rack loop 34 having internal spaced notches 35 to engage rack teeth or pins 36 intersecting and arranged in the groove 33 to convert a slow rotating movement from gear 29 into a reciprocating movement to the said rack loop 34 which latter is formed at the end of a sliding bar 37 having a detachable extension 39 mounted in bearings 38, said extension containing at its outer edge an open eye 40 through which passes the wire 41 to be wound upon the reel. This reciprocating movement imparted to the slide bar 37 having the extension 39 traveling back and forth in front of the reel thereby guides the wire to effect an even coiling and laying of the same as it is wound upon said reel. Depending from the former side beam 11 is a guide bracket 42 through which passes the fence wire as it is wound upon the reel. To the shaft 15 carrying the driving sprocket wheel 16 is connected a hand crank 43 whereby the machine can be manually operated.

It is obvious that upon reverse movement of the reel a wire can be effectually unwound therefrom.

When the machine is not in use the swinging section is raised to a substantial vertical position and held supported in such position in any suitable manner and the same is effected by uncoupling the reel shaft and the extension of the slide bar.

10 What is claimed is—

In a wire reeling machine, a frame, a rotatable shaft journaled on said frame and having a worm thread, a reel having connection with the free end of said shaft and
15 operated thereby, a worm gear journaled on said frame and in mesh with the worm thread and having an annular guide groove, rack teeth disposed within said groove and arranged at intervals throughout half the
20 circumference of the worm gear, a reciprocating bar having a loop terminal engaging

said annular groove, oppositely directed teeth projecting inwardly from opposite sides of the loop and engaging the rack teeth in said groove, an eye formed on said reciprocating bar at its free end and movable across the reel in advance of the same, standards rising from the frame, a driving sprocket wheel supported by said standards, a driven sprocket wheel fixed to the shaft, a chain trained over the said sprocket wheels, and a hand crank for rotating said driving sprocket wheel.

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

HERMAN F. VILLWOCK, JR.

Witnesses:

HERMAN JESKA,
L. L. CHAPMAN.