

A. F. FISCHER.
SCRUBBING MACHINE.
APPLICATION FILED SEPT. 22, 1908.

924,443.

Patented June 8, 1909.

3 SHEETS—SHEET 1.

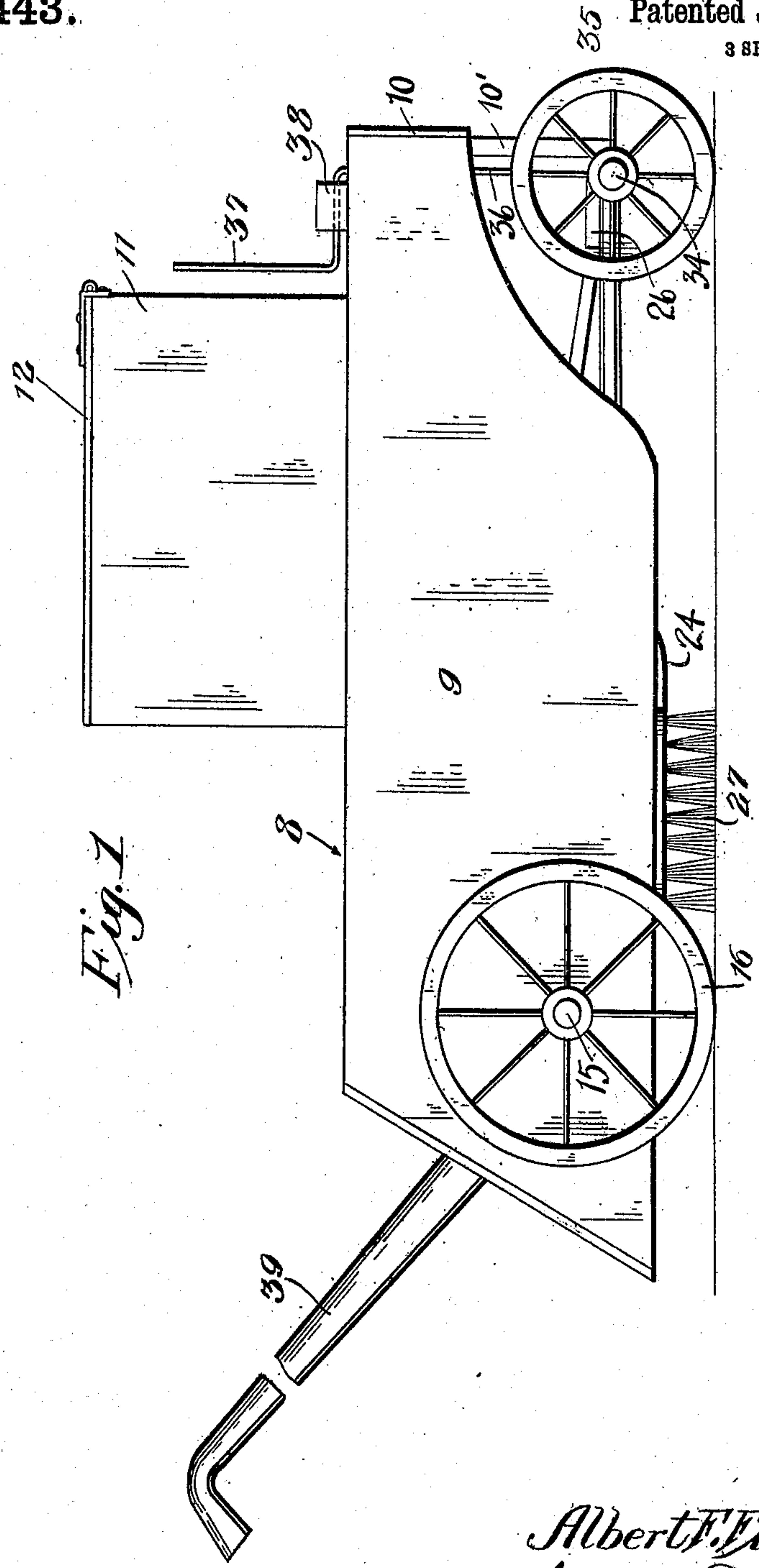


Fig. 1

Witnesses
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A. O. Sandeen

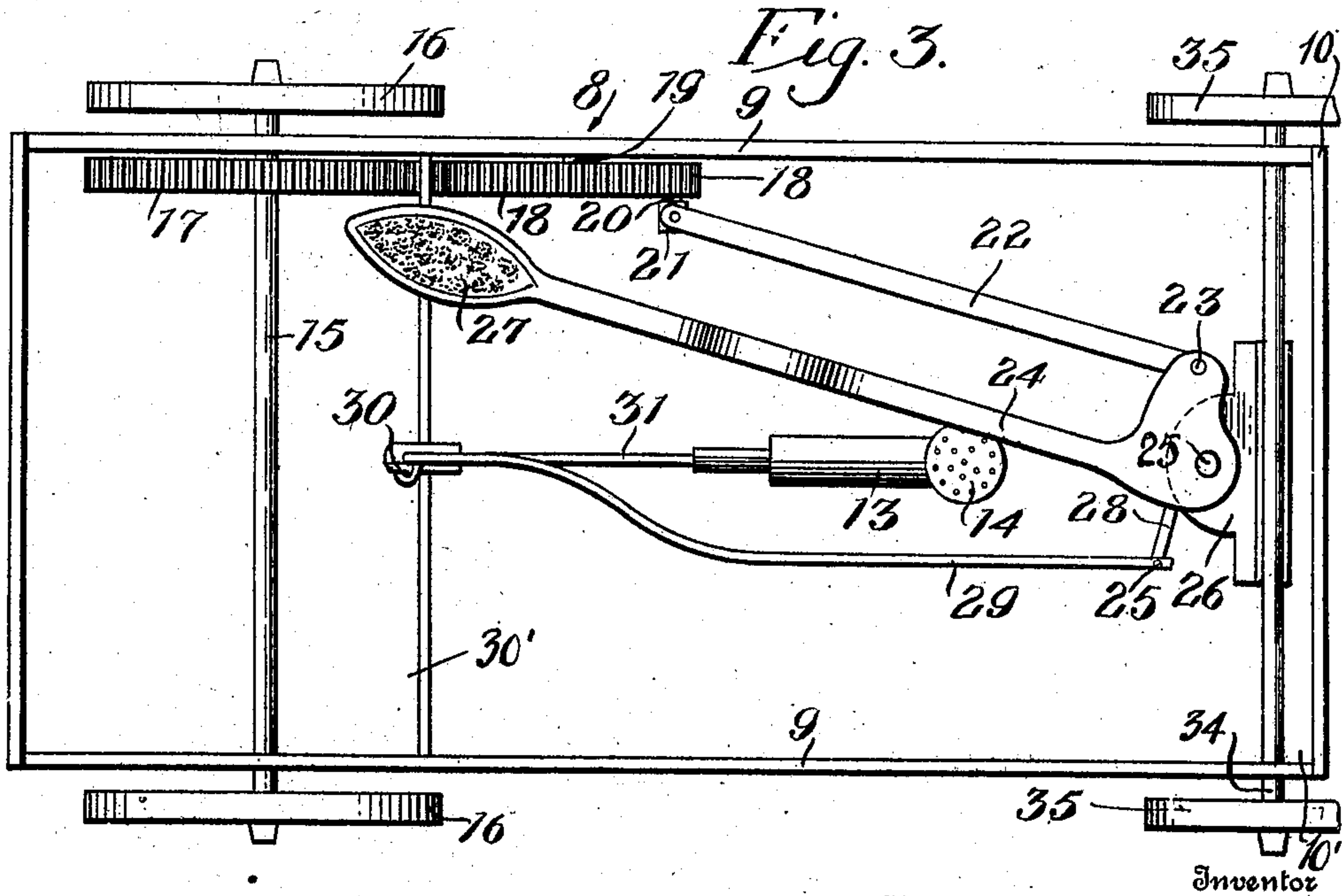
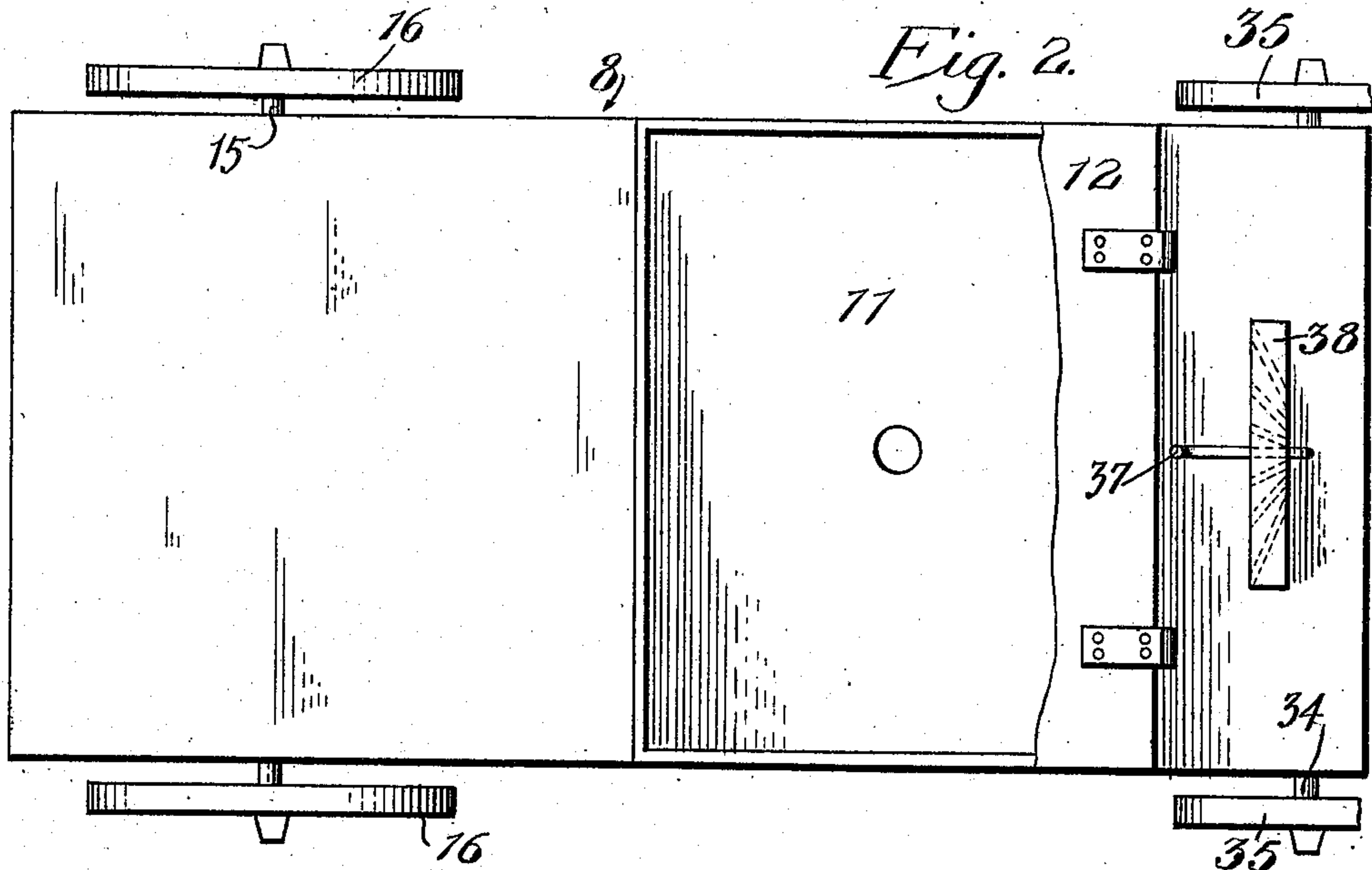
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By [Signature]
Attorneys

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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

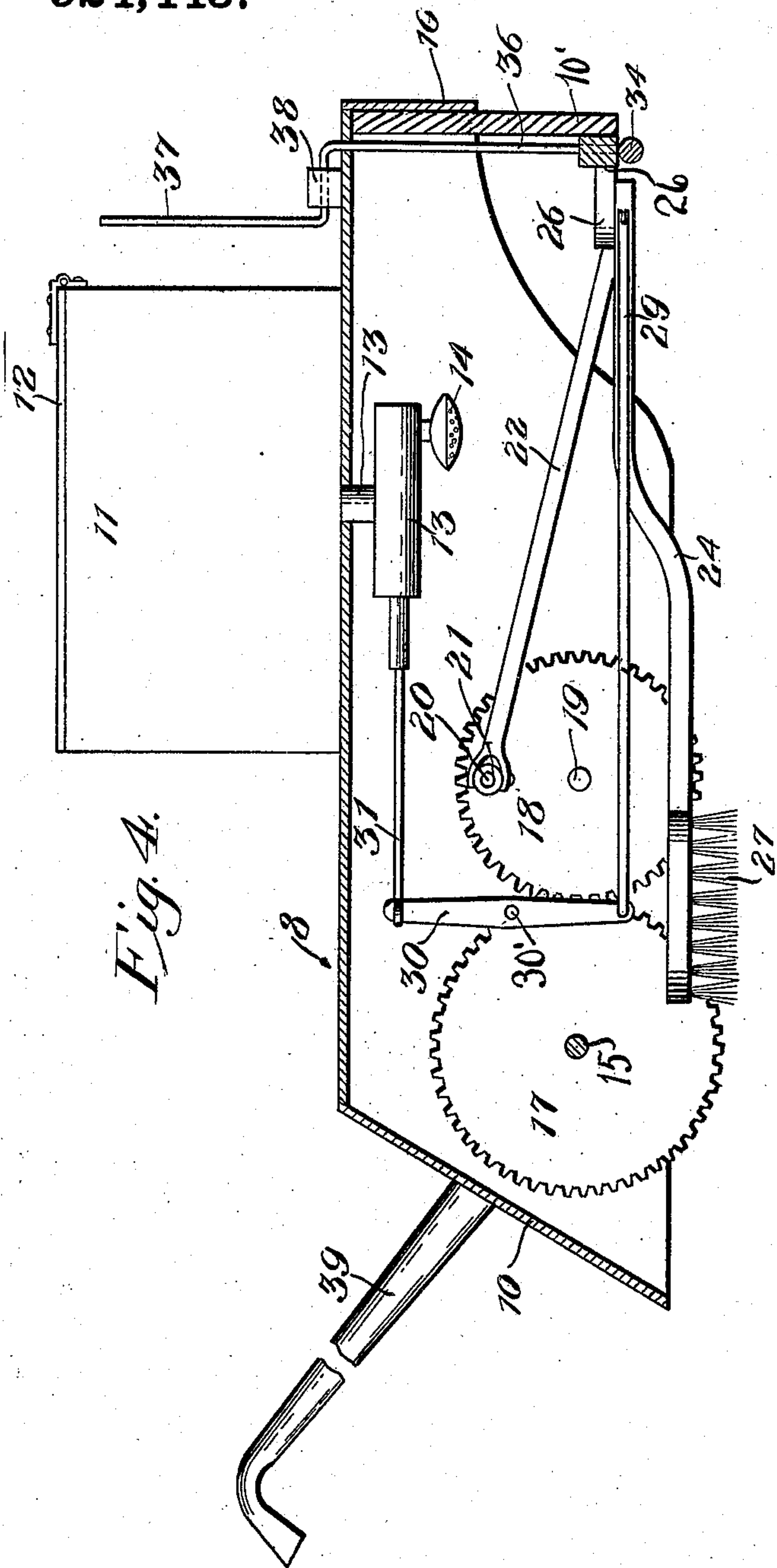


Fig. 4.

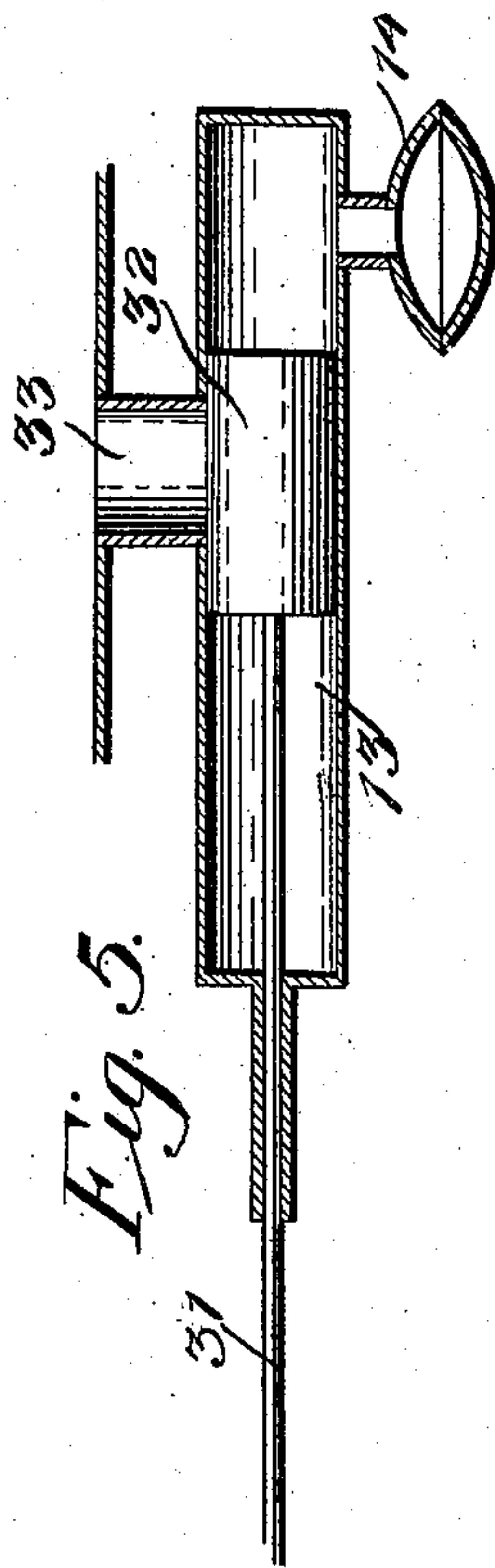


Fig. 5.

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UNITED STATES PATENT OFFICE.

ALBERT F. FISCHER, OF WOODLAND, WISCONSIN.

SCRUBBING-MACHINE.

No. 924,443.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed September 22, 1908. Serial No. 454,212.

To all whom it may concern:

Be it known that I, ALBERT F. FISCHER, a native of Pomerania, Germany, and subject of the Emperor of Germany, residing at Woodland, in the county of Dodge, State of Wisconsin, have invented certain new and useful Improvements in Scrubbing-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 a scrubbing machine and more particularly to the class of machines for automatically scrubbing floors or the like.

The primary object of the invention is the provision of a scrubbing machine comprising a wheeled frame having mounted thereon a water reservoir, scrubbing means actuated from the wheels supporting the frame to scrub a floor, a water supply tube leading from the reservoir in advance of the scrubbing means to sprinkle the floor, and an automatic cut off valve for controlling the water supply from said reservoir to the sprinkling tube.

Another object of the invention is the provision of a scrubbing machine adapted to move over a floor or the like and which will automatically sprinkle water upon the floor and scrub the latter.

The construction of this invention is simple, efficient in operation and inexpensive in the manufacture.

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

In the drawings: Figure 1 is a side view of the invention. Fig. 2 is a top plan view with the reservoir partly broken away. Fig. 3 is a bottom plan view. Fig. 4 is a longitudinal sectional elevation. Fig. 5 is a sectional view through the reservoir and sprinkling tube leading therefrom.

Similar reference characters indicate cor-

responding parts throughout the several views in the drawings.

In the drawings the numeral 8 designates the main supporting frame having spaced side sections 9 united at opposite ends by cross pieces 10 and supported upon the said frame near the front thereof is a water reservoir 11 the latter having a hinged top or cover 12 and leading centrally from the said reservoir is the branch of a water supply tube 13 the latter disposed transversely across the bottom of the reservoir and terminating at its forward end in a depending sprinkler nozzle 14.

Mounted upon an axle 15 having its bearings in the side sections 9 are rear driving wheels 16 the latter fixed to said axle and carried upon this axle is a large gear wheel 17 in mesh with a gear 18 journaled upon a short shaft 19 and having projecting from its inner face an eccentric pin 20 carrying a rotatable sleeve 21 to which is connected a pitman rod 22 which latter has its opposite end pivoted as at 23 to an offset portion of an oscillatory brush arm 24. The brush arm is pivoted as at 25 to a bracket 26 projecting inwardly from a front board 10' secured to the front crosspiece of the main frame and depending from the latter. Depending from the said brush arm 24 in rear of the sprinkler nozzle 14 is a scrubbing brush 27 which receives its movement from the rear driving wheels to contact with a floor and move back and forth across the same for scrubbing action thereon upon the advancement of the machine. On the said brush arm 24 and projecting therefrom at right angles near its pivoted end is an extension 28 having connection with one end of a link 29 the opposite end of which is connected to a rocking lever 30 at its lower end which lever at its upper end is connected to a valve rod 31 working in the supply tube 13 and carrying a cut off valve 32 to open and close a port 33 forming the communication between the water reservoir 11 and said water supply tube. The rocking lever is supported by a transverse shaft 30' carried by the side sections of the main frame.

Below the bracket 26 is a front axle 34 having the usual front guide wheels 35 and rising centrally from the said axle is a steering shaft 36 the same swiveled in the said bracket 26 and the top of the main frame and having connected to its upper end a

manually operable steering lever 37 which is adapted to engage with a toothed rack 38 mounted centrally at the front end of the frame whereby the said front axle having its
5 guide wheels can be locked in its shifted or swung position. Extending outwardly at an upward inclination from the rear cross piece 10 of the main frame are guide handle
10 bars 39 whereby the machine can be pushed over a floor and to facilitate the movement and easy operation of the said machine.

What is claimed is—

1. In a scrubbing machine, a main frame, an arm pivoted to the frame to have horizon-
15 tal movement therein, an offset portion on said arm extending at an angle therefrom in the plane of movement of said arm, and means having connection with said offset portion to impart movement to said arm.

20 2. In a machine of the class described, a frame, an arm pivoted to the frame to have horizontal movement therein, an offset portion on said arm extending at right angles therefrom and in the plane of movement of

said arm, a brush on said arm, a lever con- 25 nected to said offset portion, and means to oscillate the lever.

3. In a machine of the class described, a frame, an arm pivoted to the frame to have horizontal movement therein, a brush on 30 said arm, an offset portion extending at right angles from said arm at its pivot point, a rocking lever mounted in the frame, a link connection between the offset portion and the lower end of the rocking lever, a tank 35 upon said frame, a valve casing in communication with said tank and having a discharge nozzle, a valve working in said valve casing and having a valve rod connected to the up-
40 per end of the rocking lever, and means to oscillate the arm.

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

ALBERT F. FISCHER

Witnesses:

WM. WEGWART,
T. E. MELCHER.