

No. 877,087.

PATENTED JAN. 21, 1908.

J. W. KENNEDY.
SPRING WASHING MACHINE.

APPLICATION FILED APR. 12, 1907.

2 SHEETS—SHEET 1.

FIG. 1.

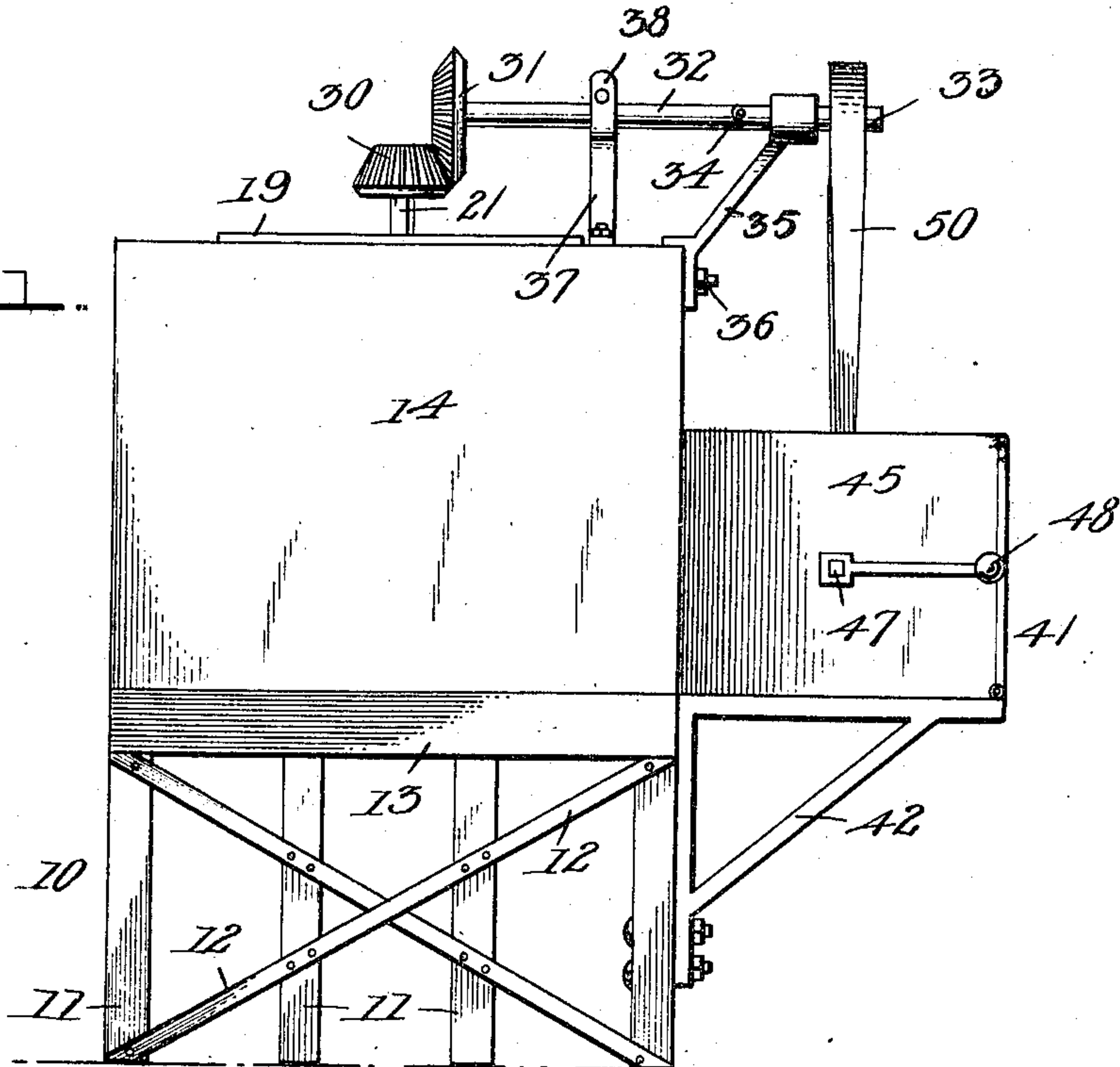
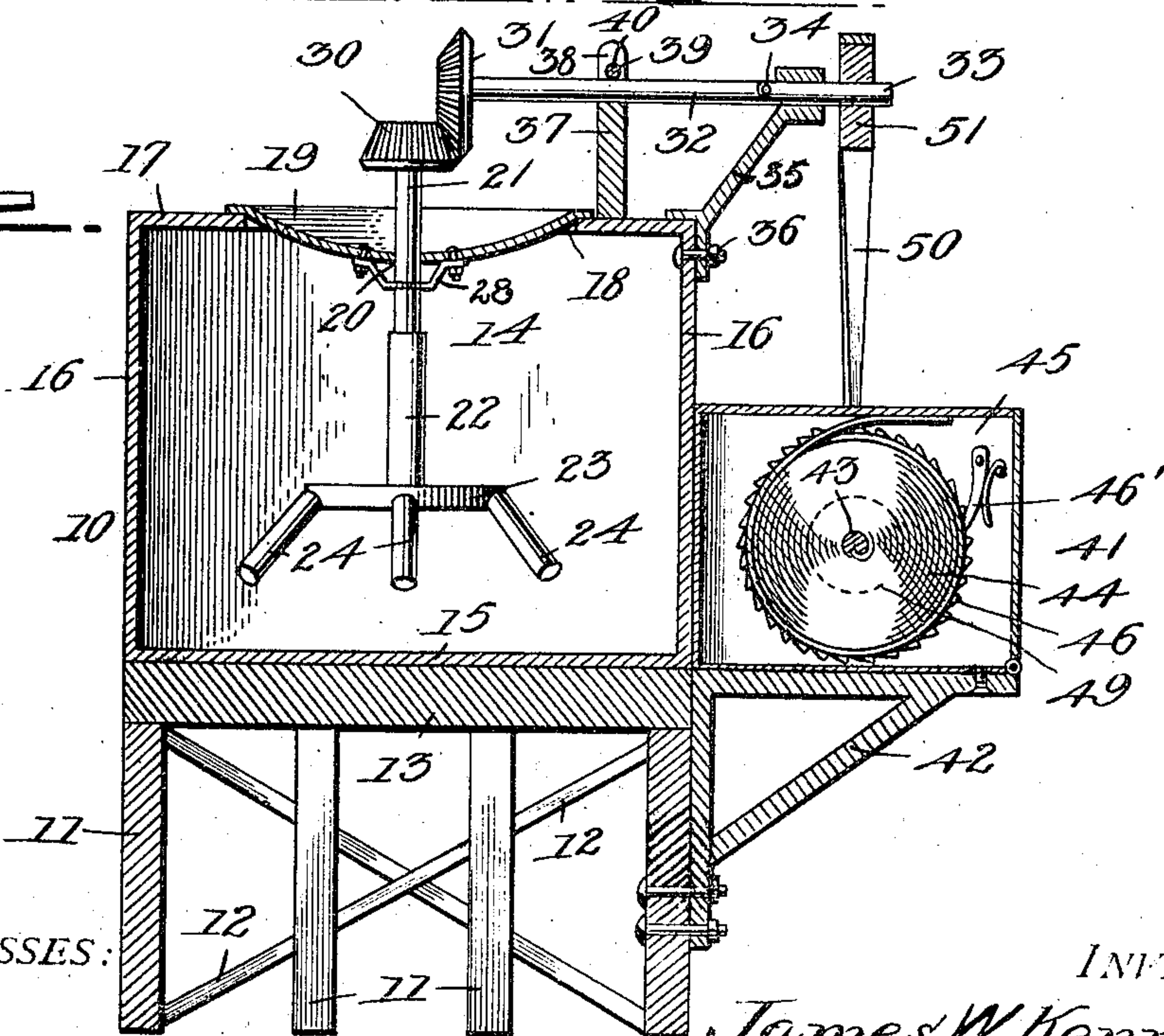


FIG. 2.



WITNESSES:

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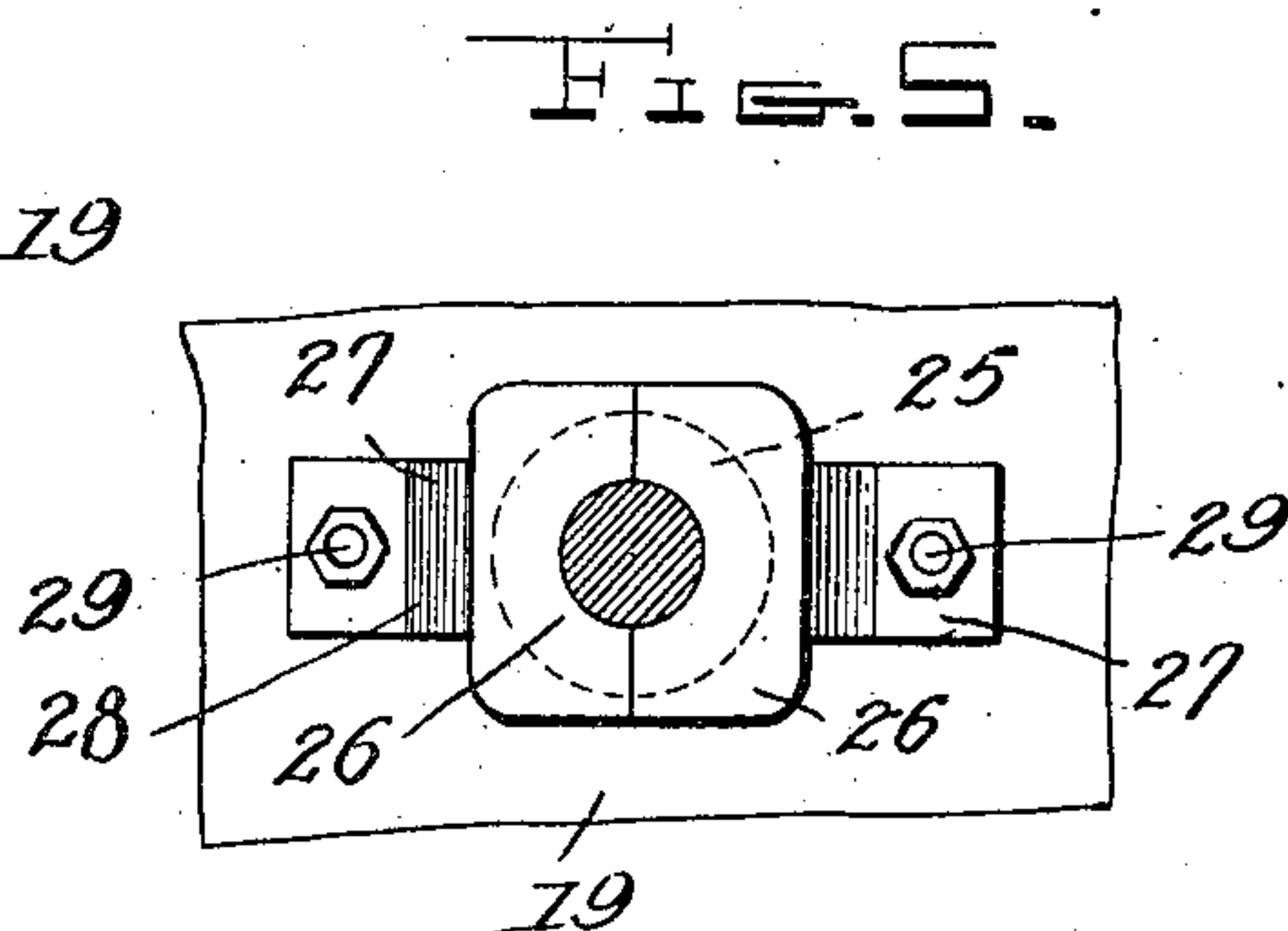
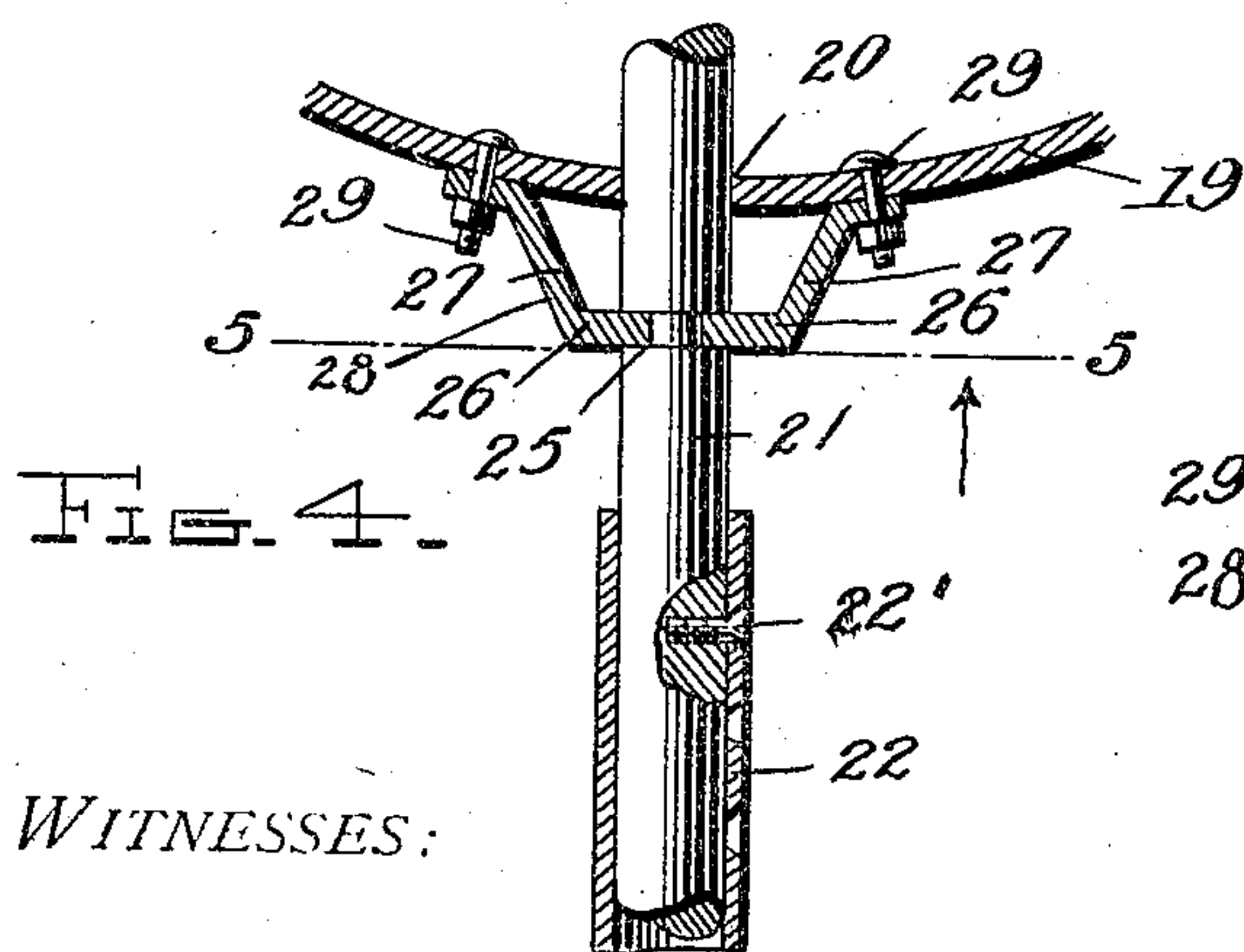
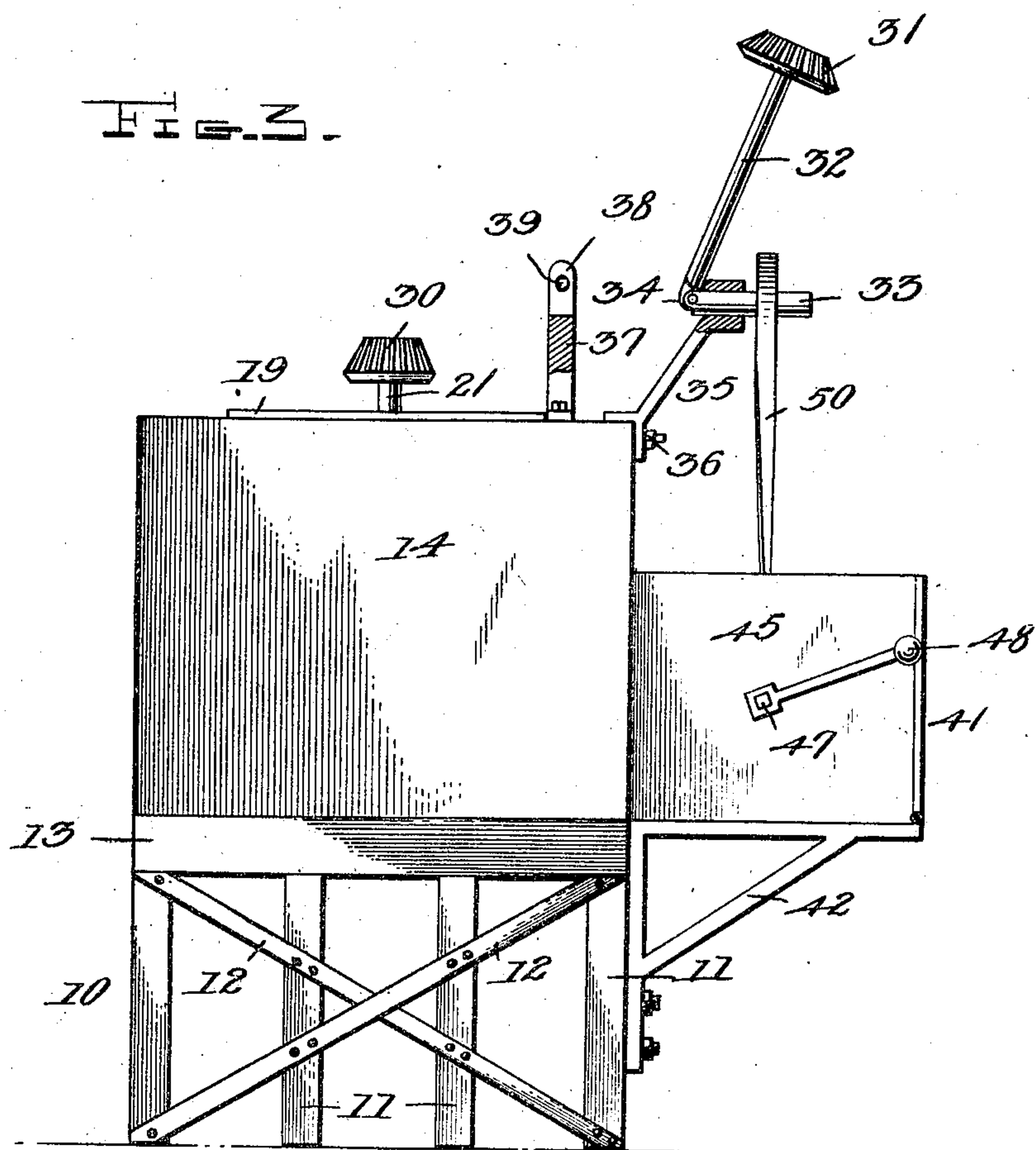
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UNITED STATES PATENT OFFICE.

JAMES WILLIAM KENNEDY, OF BURKE, NEW YORK.

SPRING WASHING-MACHINE.

No. 877,087.

Specification of Letters Patent.

Patented Jan. 21, 1908.

Application filed April 12, 1907. Serial No. 367,862.

To all whom it may concern:

Be it known that JAMES WILLIAM KENNEDY, a citizen of the United States, residing at Burke, in the county of Franklin and State of New York, has invented certain new and useful Improvements in Spring Washing-Machines, of which the following is a specification.

This invention is a washing machine and has for an object, to provide a simple machine of this character whereby the clothes may be placed in the machine and automatically washed.

The invention further consists in providing the driven shaft of the motor, with a hinged joint, whereby the shaft may be swung vertically after an operation of the machine and the lid removed therefrom, thus allowing the operator to conveniently work without obstruction by operating parts of the machinery.

In the drawings: Figure 1. is a side elevation of the machine. Fig. 2. is a vertical section. Fig. 3. is a side elevation with the shaft swung up. Fig. 4. is a detail section of the agitator shaft, showing the manner of mounting the same to the lid. Fig. 5. is a section on the line 5—5 of Fig. 4.

Referring more specifically to the drawings, a support for the tub is indicated at 10, which comprises legs 11, connected and braced by rods 12, and supported on top of the legs is a table 13.

The tub or suds box is indicated at 14, and comprises the bottom 15, the sides 16 and a top 17, which is provided at its center with an opening 18. A lid 19, is provided for closing said opening, and has at its center an opening 20 through which is adapted to pass a vertical shaft 21. Adjustable vertically on the shaft 21, is a lower tubular section 22, which carries at its lower end a head 23, provided with the usual agitators 24. A screw 22', is provided for holding the section 21 to the section 22 in its adjusted position. For holding the shaft to the lid 19, I form therein a circumferential groove 25, around which is adapted to pass the forked ends 26 of a bracket 28, secured to the bottom of the lid 19, by bolts 29. On the upper end of the shaft 21 is shown a bevel gear 30, which meshes with a bevel gear 31 on a horizontal shaft.

The horizontal shaft comprises the inner section 32, and an outer section 33, hinged

together at 34. The outer end of the shaft is journaled in a bearing 35, secured to one of the sides 16 by a bolt 36, and the inner end 32 of the shaft is supported by a bracket 37 secured to the top 17, and is provided at its upper end with ears 38, between which the shaft 32 is adapted to rest. Openings 39 are formed in the ears through which and above the shaft 32, is passed a pin 40, whereby the shaft is locked to the bracket.

A motor 41 is provided for operating the shaft 32, and is supported on the side of the table 13 by a bracket 42. This motor comprises a shaft 43 to which is attached one end of a coil spring 44, the other end being fixed to the casing 45. The motor is provided with the usual ratchet wheel 46, and detent 46'. One end of the shaft is squared at 47, for a winding key 48. A pulley 49 is fixed to the other end of the shaft for the belt 50, which is passed over a pulley 51, on the section 33 of the shaft 32.

I do not wish to limit myself to a washing machine, but it will be seen, that my invention may be used in connection with churns, and the like, with equally effective results.

I claim:

The combination with a washing machine including an agitator shaft and a gear carried by the shaft, of inner and outer brackets supported upon the machine, the inner bracket having ears at its upper end, the outer bracket having a passage and arranged to lie in line with the ears, the ears of the inner bracket having alining passages, a horizontally extending shaft disposed between the ears of the inner bracket and arranged beneath the passages in the ears, the outer end of the shaft being arranged in the passage in the outer bracket, a portion of the horizontal shaft between the inner and outer brackets being hinged, the horizontal shaft having a gear and arranged to mesh with the first mentioned gear, and a removable pin disposed through the passages in the ears and above the horizontal shaft, for holding the shaft with its gear in mesh with the gear carried by the agitator shaft.

In testimony whereof he affixes his signature, in presence of two witnesses.

JAMES WILLIAM KENNEDY.

Witnesses:

WM. S. COOPER,

W. E. DEMMING