

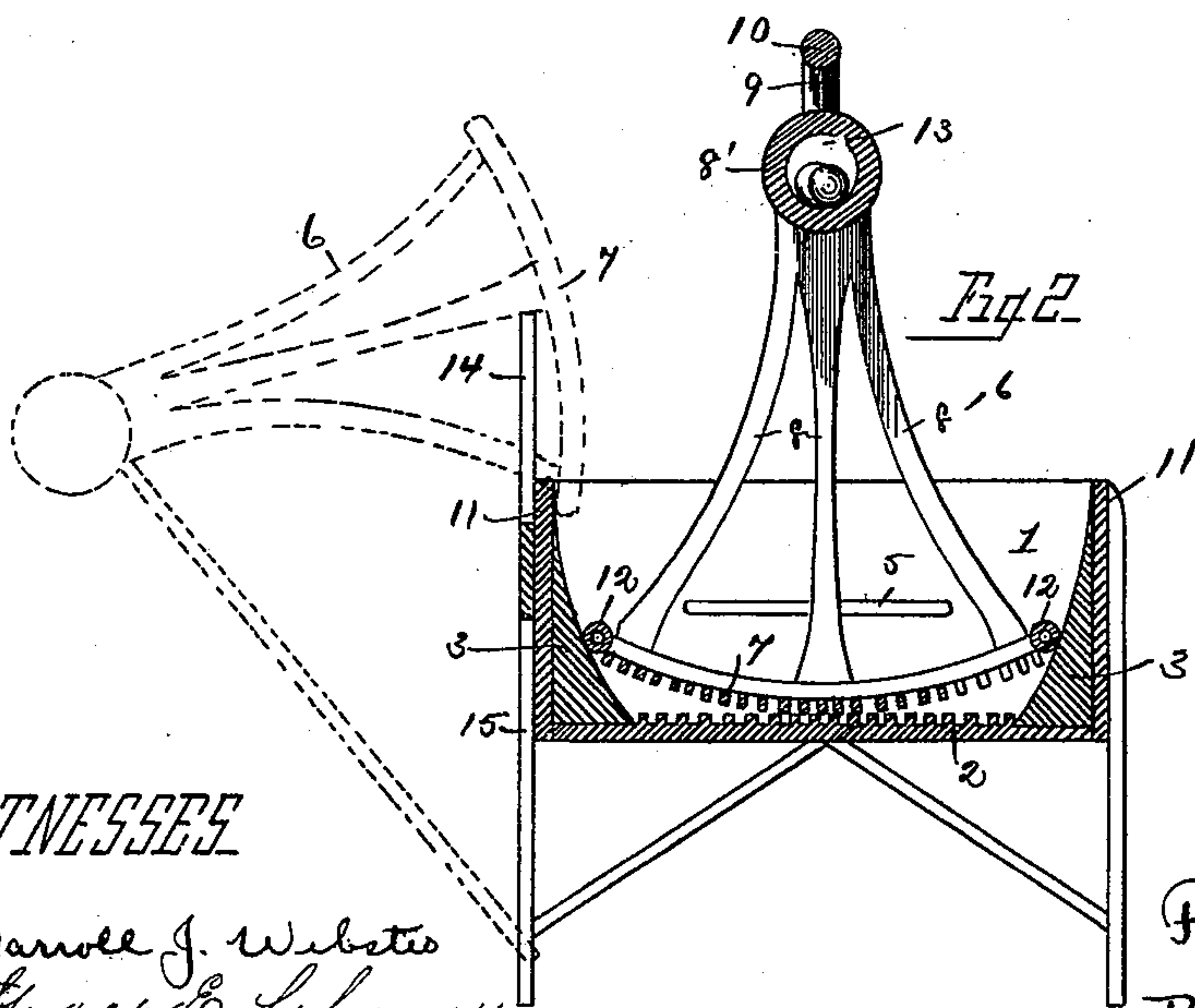
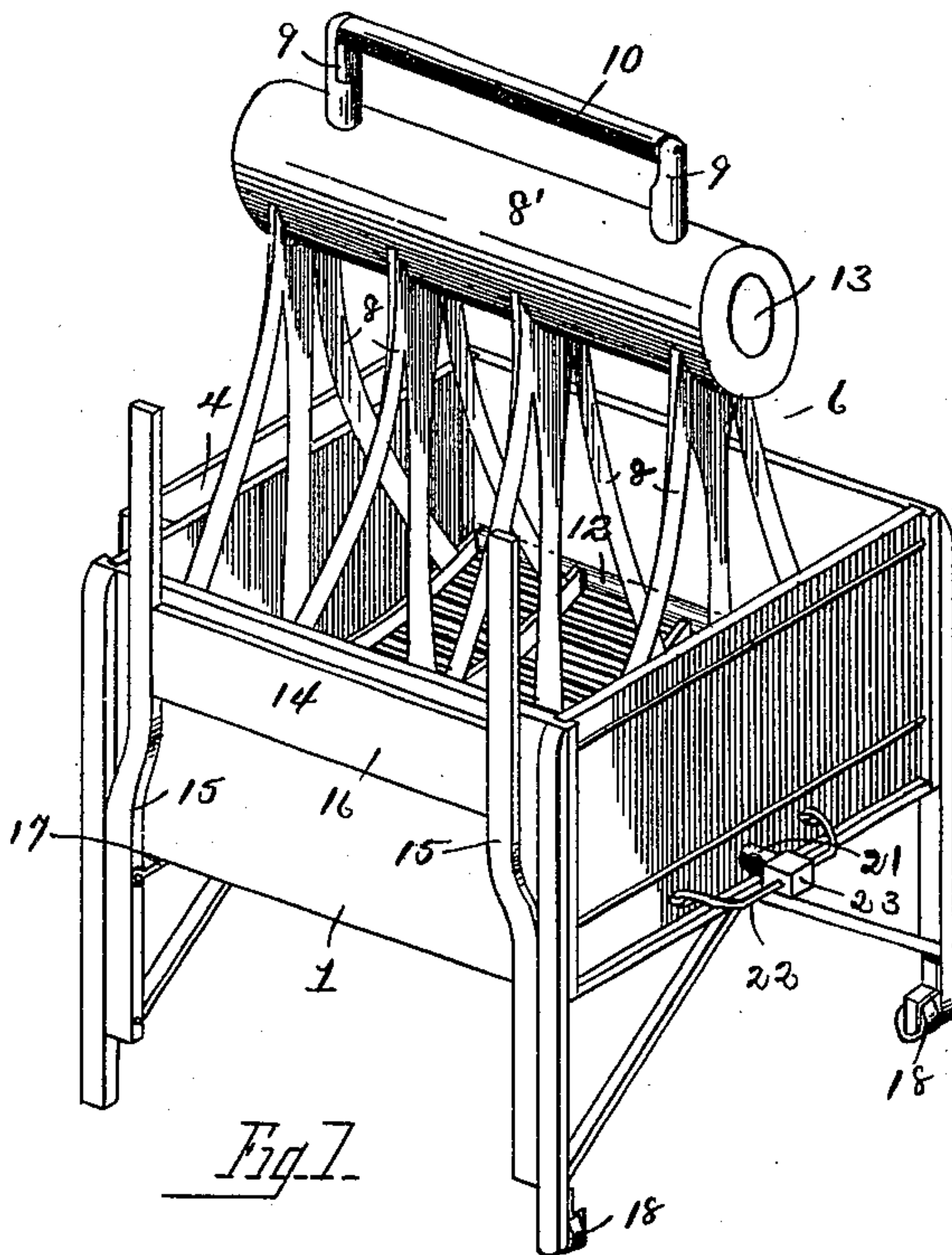
(No Model.)

2 Sheets—Sheet 1.

F. JACKSON.
WASHING MACHINE.

No. 518,407.

Patented Apr. 17, 1894.



WITNESSES

Carroll J. Webster
Grace C. Lehany.

INVENTOR

Francis Jackson

By

William Webster
Atty.

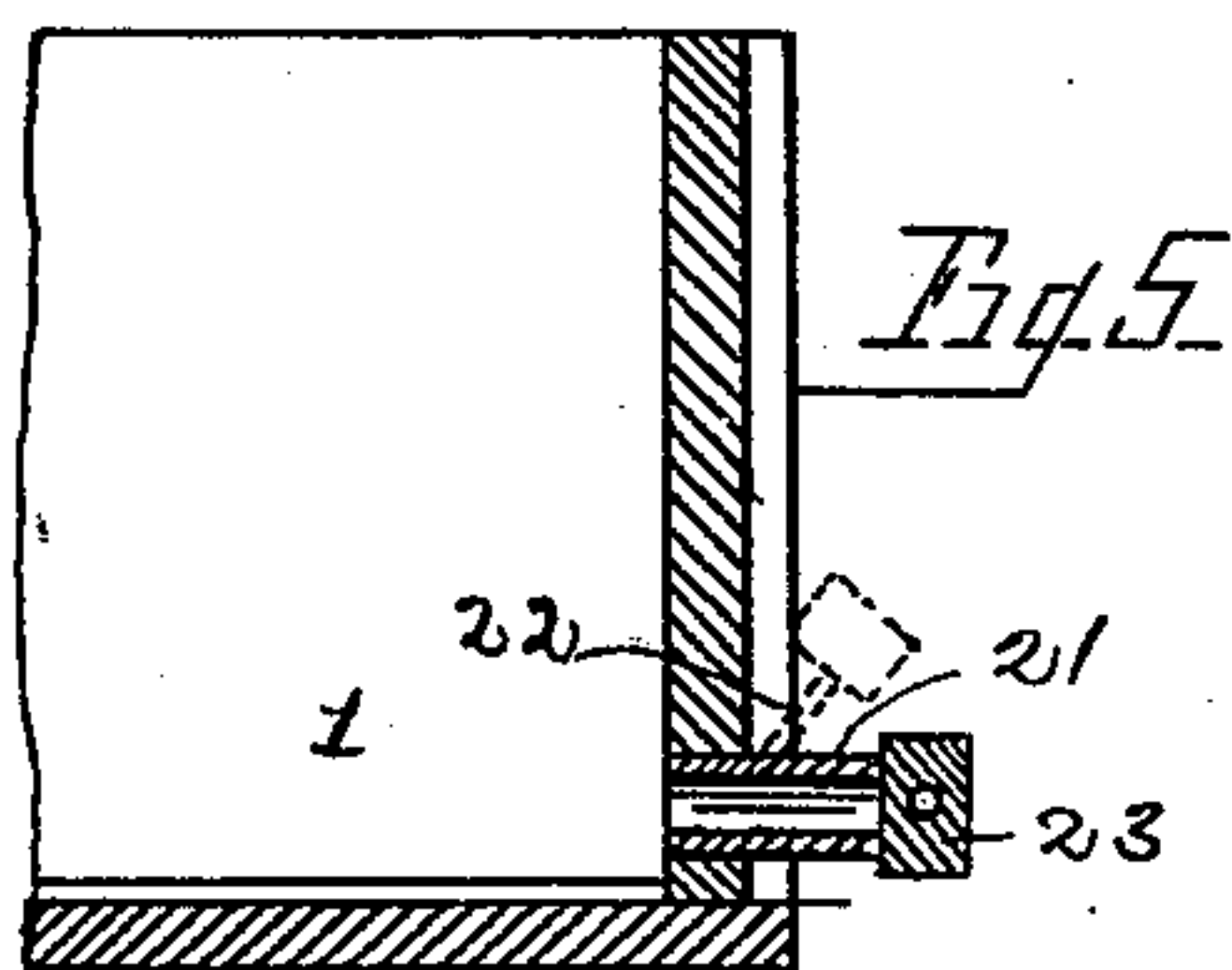
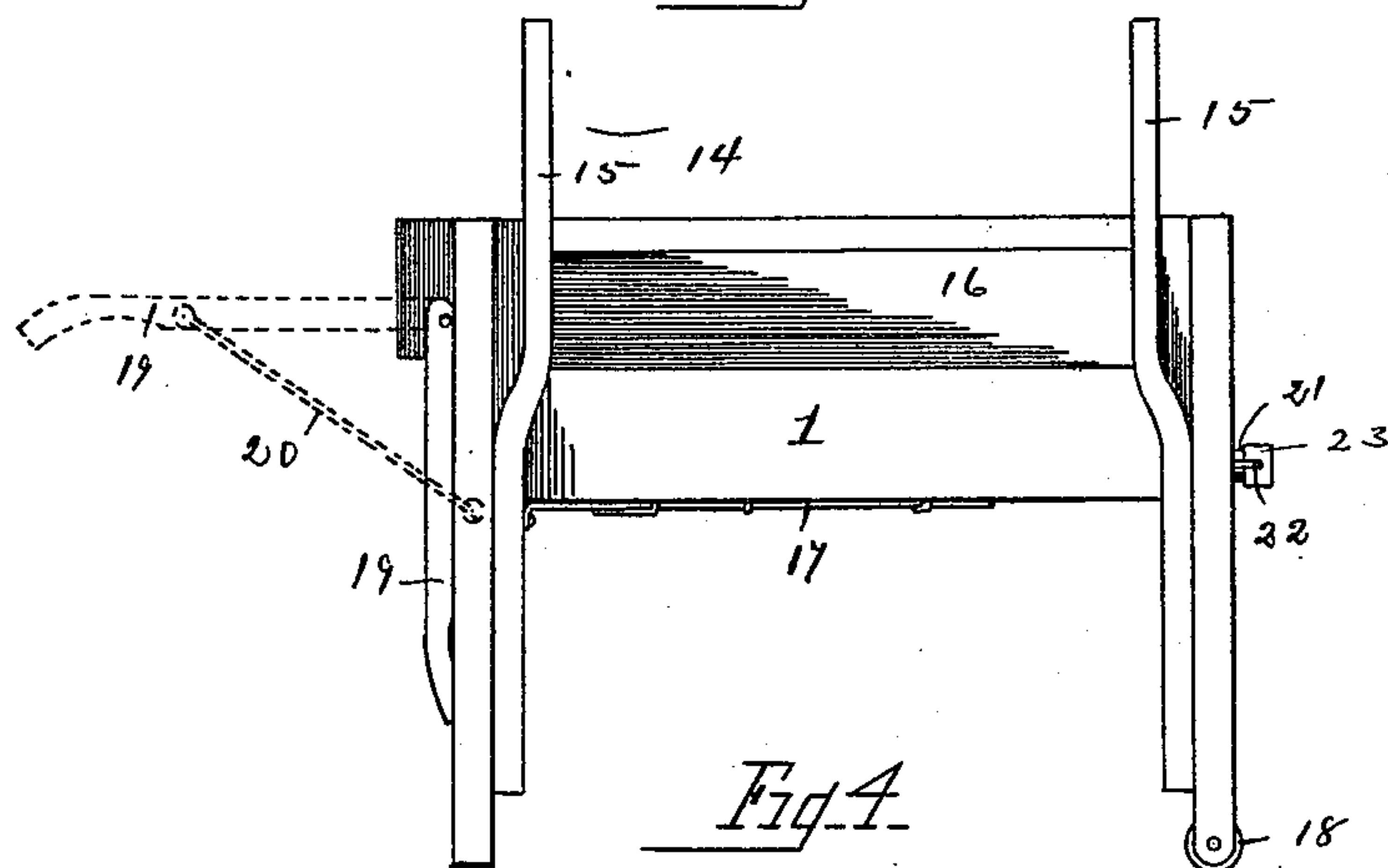
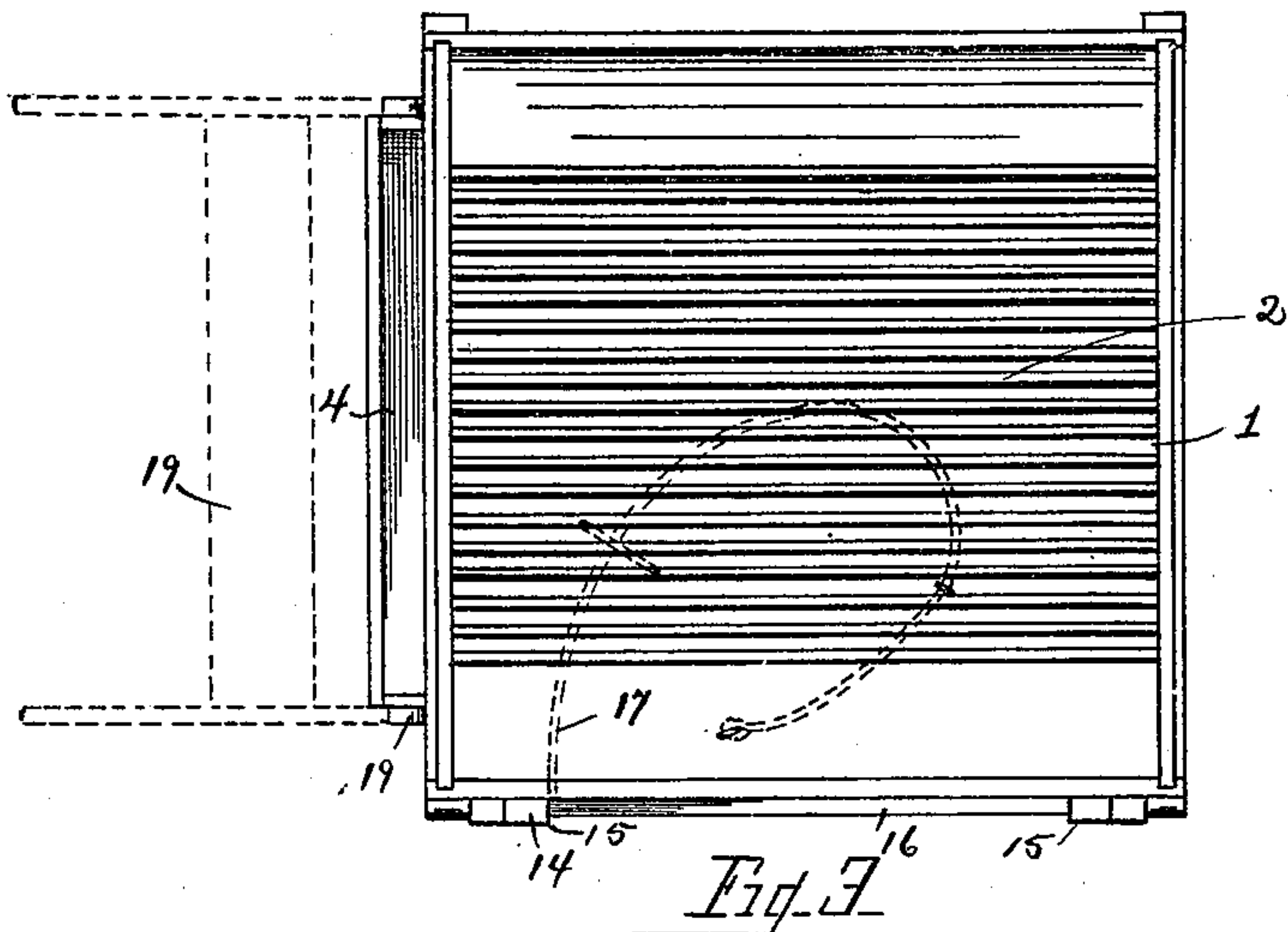
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UNITED STATES PATENT OFFICE.

FRANCIS JACKSON, OF RAISINVILLE, MICHIGAN, ASSIGNOR OF ONE-HALF TO
FRANK ATKINSON, OF SAME PLACE.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 518,407, dated April 17, 1894.

Application filed February 29, 1892. Serial No. 423,150. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS JACKSON, of Raisinville, county of Monroe, and State of Michigan, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

My invention relates to washing machines, and has for its object to construct a machine, in which the rubber shall be given a rubbing motion upon the fabric to be washed instead of a rocking motion as heretofore.

A further object is to simplify a construction and add to the convenience of manipulation of the machine by certain novel details of construction hereinafter specified.

The invention consists in the parts and combination of parts hereinafter described and pointed out in the claims.

In the drawings:—Figure 1 is a perspective view of a washing machine constructed in accordance with my invention. Fig. 2 is a sectional elevation taken transversely of the machine showing the same in end view, the rubber being shown in full lines within the receptacle and in dotted lines resting upon a spring actuated rest. Fig. 3 is a plan view of the suds receptacle, showing in dotted lines the handles elevated for the purpose of moving the same. Fig. 4 is a side elevation of the suds receptacle showing the spring actuated rest in an upright position, the handles showing in full lines as folded and in dotted lines as extended. Fig. 5 is a sectional detail view of a portion of the suds receptacle, showing the closure for the pipe for withdrawing the suds.

1 designates the suds receptacle of rectangular form having a slatted bottom portion 2 and curved side fillings 3 running longitudinally of the same, and with an end apartment 4 having an opening 5 for the egress of suds from the wringer which is attached to the receptacle.

6 designates the rubber having a curved

slatted bottom portion 7 from which rises a plurality of standards 8 secured at their upper ends to a tubular bar 8' from which rise posts 9 having a handle bar 10 secured thereto.

The side filling pieces 3 are of a curve form from the side 11 of the suds receptacle to the bottom of the same, to cause the sides of the rubber when the standards are inclined either to or from the operator to nearly contact with the same, and upon each side of the rubber are journaled rollers 12 which relieve the sides from friction by contacting with the filling pieces thereby causing the slatted face of the rubber to have a sliding or rubbing motion upon the slatted bottom of the suds receptacle, as contra-distinguished from the usual rocking motion of machines of this character, as by my arrangement the rubber handle may have a swing of seventy degrees in the arc of a circle, causing the rubber to move transversely of the bottom of the suds receptacle an extent equal to the width of the filling pieces.

13 designates the bottom bore of the bar 8' which is designed to receive a counter weight as spherical weights or metal of any character to cause the rubber to bear and swing correctly according to the work to be accomplished.

14 designates a spring actuated rest, comprising two standards 15 having a cross bar 16 the lower ends of the standards being pivotally secured to the legs and the upper ends projecting above the side of the receptacle a sufficient height to receive and support the upper end of the rubber frame as shown in dotted lines Fig. 2, the rest being sustained in position by means of a spring 17 (see dotted lines Fig. 3) which allows the rest to yield as the rubber frame is sustained thereby, until the bottom of the rubber engages with the side of the suds receptacle this arrangement being for the purpose of allowing the rubber to be conveniently removed and sustained during the operation of inserting or removing the clothes.

For convenience in moving the machine, I secure casters 18 to the legs of one side of the receptacle and provide foldable handles 19

pivoted to the frame, and held at right angles thereto when raised by flexible supports 20.

5 The water is withdrawn from the receptacle through pipe 21, there being a closure to the pipe comprising a swinging bail 22, having a rubber block 23 secured thereto which compresses tightly over the end of the pipe sealing the same from the egress of water.

10 It will be seen that by the rollers contacting with the curved sides of the filling pieces, the rubber has a rubbing instead of a rocking motion in exact imitation of the hands and washboard, and that by the novel details
15 of construction heretofore enumerated there is provision made for convenience in manipulating and moving the apparatus.

What I claim is—

1. In a washing machine, a suds receptacle, a rubber therein, and a spring actuated rest 20 pivoted to the frame and adapted to swing in the arc of a circle to sustain the rubber.

2. In a washing machine, the combination with a suds box having curved side fillings of a curved rubber having the friction rollers 25 at each end, the standards upon said rubber, the hollow cross bar and handle and the weight adapted to be inserted in the hollow cross bar and produce a pressure on the rubber.

In testimony that I claim the foregoing as 25 my own I hereby affix my signature in presence of two witnesses.

FRANCIS JACKSON.

Witnesses:

CARROLL J. WEBSTER,
M. M. FISHER.