

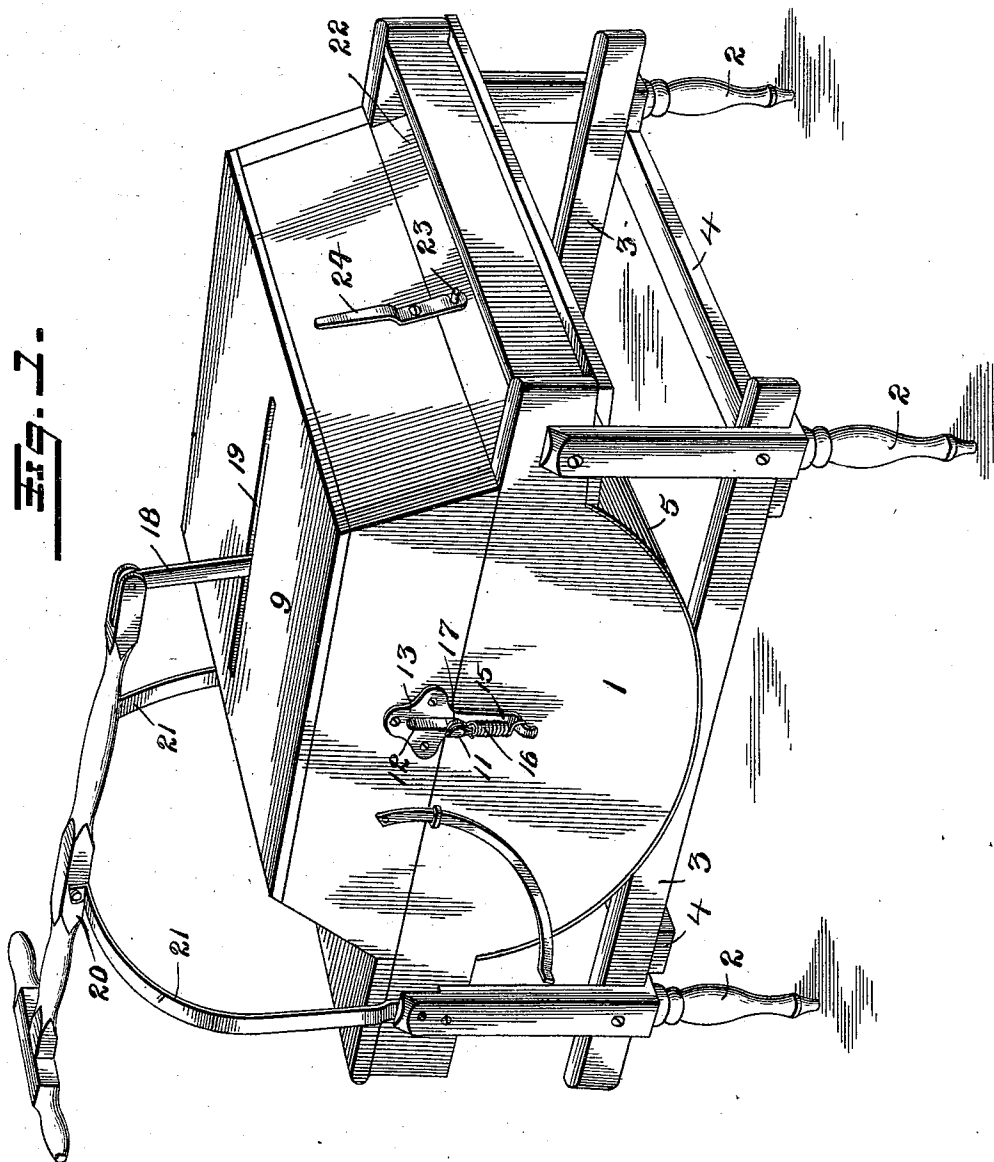
(No Model.)

2 Sheets—Sheet 1.

J. H. LAMSON.
WASHING MACHINE.

No. 555,012.

Patented Feb. 18, 1896.



Inventor
James H. Lamson,

Witnesses

A. J. Keorth.
J. H. P. Pily

By *his* Attorneys.

C. Snow & Co.

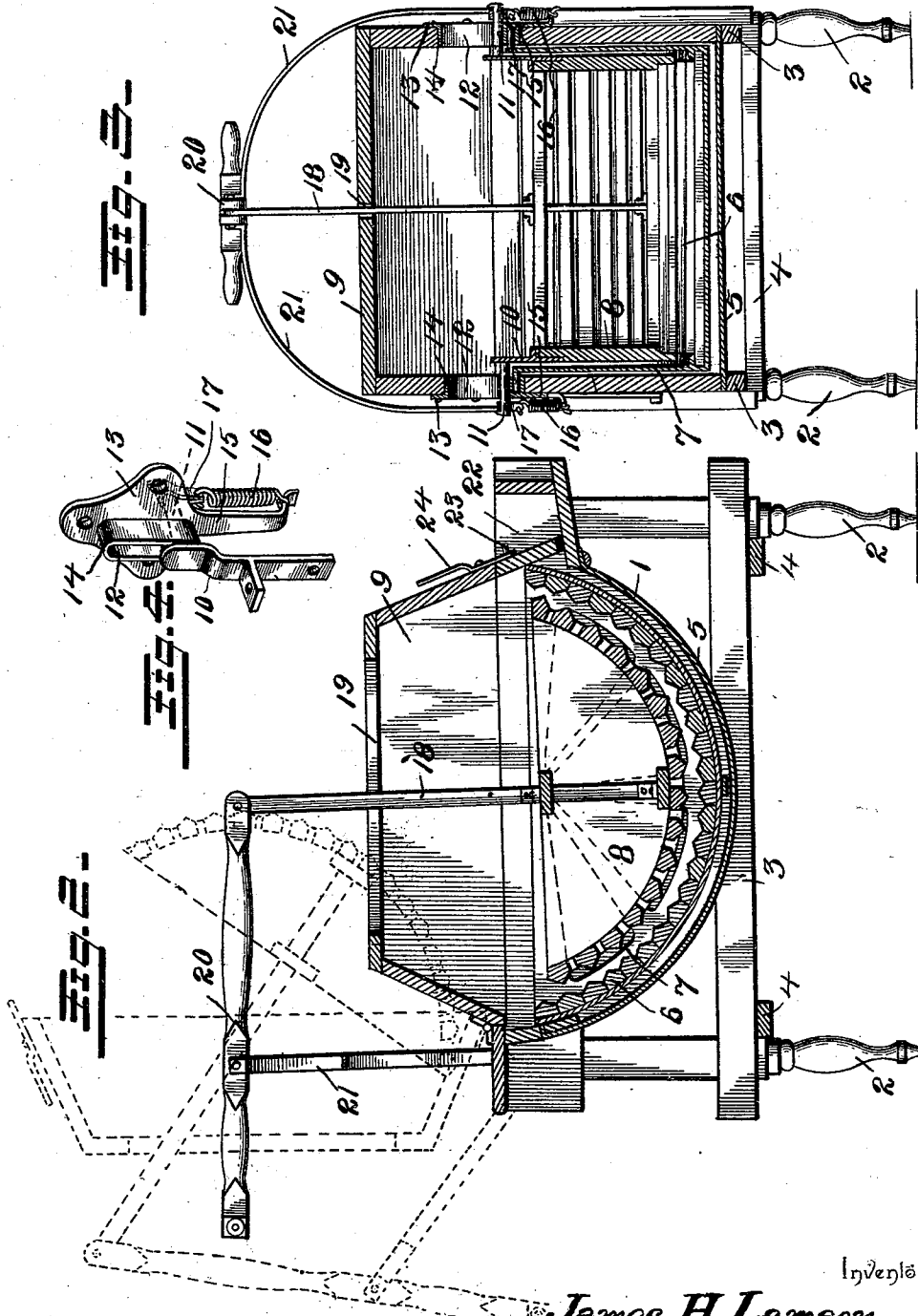
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2 Sheets—Sheet 2.

J. H. LAMSON. WASHING MACHINE.

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Inventor

James H. Lamson,

Witnesses

W. J. North
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UNITED STATES PATENT OFFICE.

JAMES H. LAMSON, OF STREATOR, ASSIGNOR OF ONE-HALF TO WILLIAM A. BASS, OF OSWEGO, ILLINOIS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 555,012, dated February 18, 1896.

Application filed July 10, 1895. Serial No. 555,532. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. LAMSON, a citizen of the United States, residing at Streator, in the county of La Salle and State of Illinois, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing-machines.

The object of the present invention is to improve the construction of washing-machines, and to provide a simple, inexpensive and efficient one capable of thoroughly and rapidly washing clothes without injuring the fabrics.

The invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a washing-machine constructed in accordance with this invention. Fig. 2 is a central longitudinal sectional view, the lid being shown swung back in dotted lines. Fig. 3 is a transverse sectional view. Fig. 4 is an enlarged detail perspective view of one of the bearing-brackets.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a substantially semicylindrical suds-box or washing-machine body, mounted upon a suitable supporting frame or stand, comprising vertical legs 2 and longitudinal and transverse connecting-bars 3 and 4, located beneath the washing-machine body. The upper edges of the longitudinal bars 3 are recessed to receive, support and conform to the configuration of the curved bottom 5 of the washing-machine body.

Within the washing-machine body, on the curved bottom thereof, is arranged a stationary removable rubber 6, presenting an upper concave rubbing-surface, and consisting of transverse bars or slats. The bars or slats are provided with angular upper faces, and are arranged within a metal supporting-frame 7, having substantially semicircular sides and transverse connecting end bars. After the operation of washing has been completed, by

the means hereinafter described, the stationary rubber 6 may be removed for the purpose of cleaning the washing-machine.

The stationary rubber 6 co-operates with an oscillating rubber 8, which is segmental and presents a lower convex rubbing-surface, and which is composed of segmental end pieces and transverse bars or slats secured to the end pieces at the curved ends thereof and forming the rubbing-surface. The oscillating rubber 8 is journaled on and carried by a hinged cover 9 of the washing-machine body, and when the cover is swung upward, as illustrated in dotted lines in Fig. 2 of the accompanying drawings, the oscillating rubber is carried upward with the same to afford access to the interior of the washing-machine body without detaching the oscillating rubber from its mountings.

Upwardly-extending arms 10 are secured to the oscillating rubber at opposite sides thereof, and are provided at their upper ends with laterally-extending horizontally-disposed journals 11, which are arranged in bearing slots or openings 12 of a bracket 13, and the journals 11 are capable of vertical movement in the slots or openings, when the cover is closed, to enable the oscillating rubber to adapt itself to the quantity of clothes being washed and to yield to any unevenness in the clothes to prevent the fabrics from being worn and injured by too great a pressure on them. Each bearing-bracket consists of a plate secured to the outer face of the adjacent side of the cover and provided with the said opening, and having a flange 14 extending inward from the plate at the edges of the opening and increasing the bearing-surface thereof.

The bearing-bracket is provided with a rigid depending arm 15, having a lug at its lower end and engaged by a spring 16, which is provided at its upper end with a collar 17 for engaging the journal 11. The journal 11 is provided at its outer end with a lug which retains the collar or band on the journal, and the spring maintains the journal normally at the bottom of the opening or slot 12 and creates a pressure on the clothes being washed. This manner of mounting the journals enables the oscillating rubber to be carried by the cover 9 of the washing-machine and all

the parts to move therewith, and it is unnecessary to disconnect the spring or change the relation of the parts when the cover is swung upward.

5 The oscillating rubber is provided with a centrally-arranged upwardly-extending bar 18, secured at its lower portion and lower end to transverse bars, which connect the sides of the rubber 8, and the bar 18 extends through a slot 19 of the top of the cover and is pivoted in a bifurcation of the inner end of a substantially horizontally-disposed operating-lever 20. The operating-lever 20 is fulcrumed intermediate of its ends on a substantially inverted-U-shaped support 21 and is provided at its outer end with handles. The support 21 is composed of two similar curved sides constructed of metal and having their lower ends pivotally connected with the washing-machine body at opposite sides thereof and their upper ends similarly attached to the operating-lever. The operating-lever is adapted to move horizontally to and from the operator, and this movement produces an oscillation of the rubber 8, whereby the clothes operated on are rubbed between the two rubbing-surfaces.

The washing-machine body is provided at one end with a transverse trough 22, the outer side of which serves for the attachment or wringer-board of the body, and the wringer may be readily mounted thereon, and the water expelled from the clothes during the operation of wringing will fall into the trough and run back into the washing-machine body through recesses or openings at the bottom of the inner side of the trough. The inner side of the trough is provided with a projection 23, which is engaged by a pivoted latch-lever 24, which locks the cover in its closed position.

It will be seen that the washing-machine is simple and inexpensive in construction, that it is positive and reliable in operation, and that the oscillating rubber is adapted to yield upwardly against the action of the springs to yield to the clothes being washed to prevent injury to the fabrics.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

In a washing-machine, the combination of a washing-machine body, a hinged cover, bearing-brackets secured to the cover at the sides thereof comprising a plate having a vertical bearing-opening, a flange 14 surrounding the bearing-opening and arranged at the inner side of the plate, and a depending rigid arm 15 formed integral with the plate and provided at its lower end with an outwardly-extending lug, the journals arranged in the bearing-openings and provided at their outer ends with upwardly-extending lugs and having at their inner ends arms 10, an oscillating rubber secured to the arms 10 and carried by the cover and adapted to be swung backward with the same, and the spiral springs provided at their ends with loops receiving the journals and the outwardly-extending lugs of the arms 15, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES H. LAMSON.

Witnesses:

JOHN BERGE,
W. H. CORBIN.