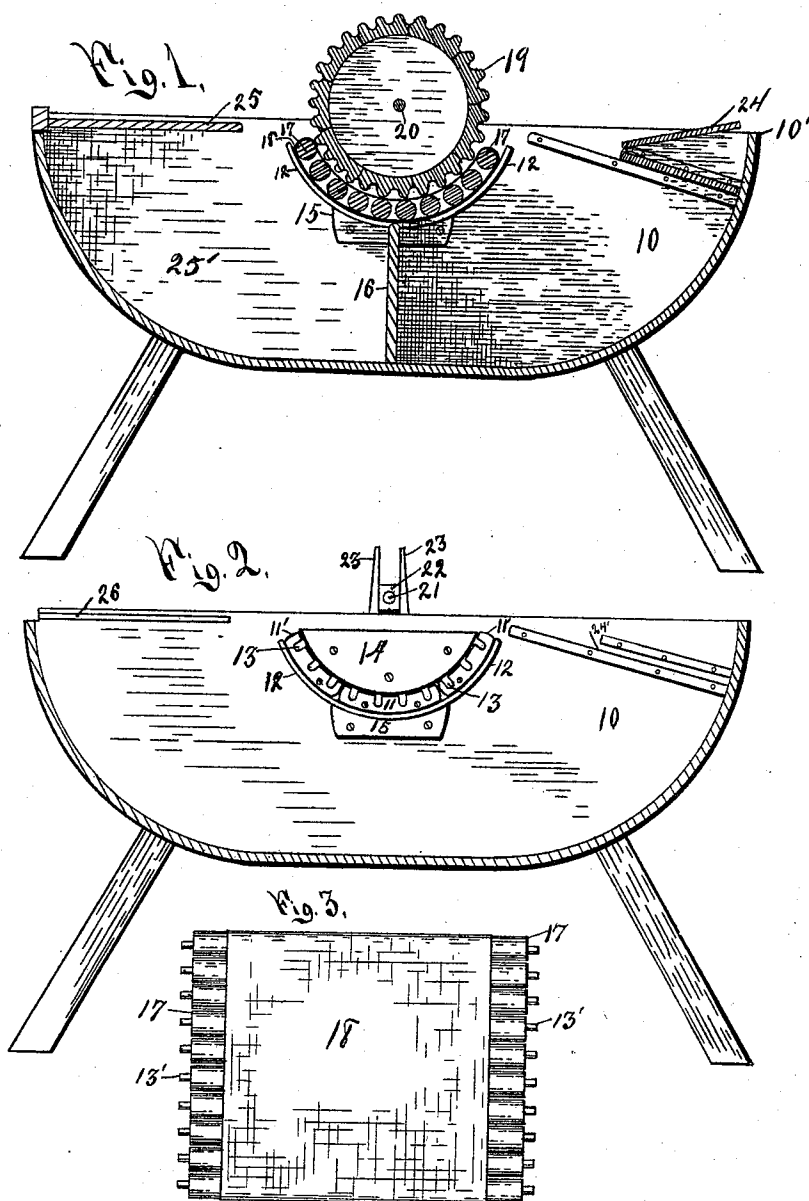


(No Model.)

J. HOLMES.
WASHING MACHINE.

No. 582,206.

Patented May 11, 1897.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES HOLMES, OF JAMESTOWN, NEW YORK.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 582,206, dated May 11, 1897.

Application filed January 28, 1897. Serial No. 621,048. (No model.)

To all whom it may concern:

Be it known that I, JAMES HOLMES, a citizen of the United States, residing at Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Washing-Machines; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

The object of my invention is to make a strong and durable washing-machine, and one in which any part of the garment may be thoroughly cleansed without overrubbing the less-soiled parts; and the improvements consist in the combination and arrangement of the parts, which will be fully set forth in the specification and shown in the accompanying drawings, in which—

Figure 1 is a sectional elevation showing the inside of a washing-machine having my improvements. Fig. 2 is a view, partly in section, showing one of the sides with corrugated cylinder, rolls, lids, and center board removed. Fig. 3 shows rolls and band.

In the drawings, 10 represents one of the sides of my washing-machine.

11 is a metal bearing rigidly secured near the center of both sides, and has metal bearings 11' 11' on each side, pivotally secured to sides 10 of the machine near their lower end. These metal pieces have slots 13 cut on their upper side to receive the journals 13' 13' of the rolls 17 17.

14 is a stop-block secured to each of the sides of the machine and curved on its lower side to conform to the upper side of metal bearings 11 11' 11' to lock rolls 17 17 in place.

12 is a heavy flat spring turned on a curve to hold the upper ends of metal pieces 11' 11', so that they will conform to the corrugated cylinder 19 and allow the rolls to adapt themselves to the clothes. The spring 12 is held in place by the block 15, curved at the top, which is secured to the sides of the machine.

16 is a division-board dividing the washer

into compartments, the side having the sliding cover 25 being used to soak the clothes, and the side having cover 24 is used to receive the clothes after they have been rubbed and before they are wrung out. This compartment may be used for rinsing purposes.

10' is the end of the box to which the wringer is secured, lid 24 and slideways 24' occupying a slanting position to allow room for attaching the wringer. Lid 24 is made in two parts and hinged together. The upper part when thrown back allows free access to the clothes. Covers 24 and 25 prevent the slopping of water over the ends when washing the clothes.

17 17 are a series of rolls extending across the body of the washer, having journal-pins 13' 13', which turn in the metal bearing-slots 13 13, the slots being of sufficient depth to allow the rolls to rise and fall somewhat to adapt themselves to the inequalities of the clothes, spring 12 assisting in this work. 18 is a cloth band, made, preferably, of cotton duck, passing around rolls 17 17, its object being to prevent the ends or corners of the clothes from being caught between the rolls, and when worn may be replaced by a new one.

19 is a corrugated cylinder of suitable size, and has a journal 20 at each end to rest in holes 21 of sliding box 22, this box being held between the metal standards 23 23, as shown in Fig. 2.

The clothes after being soaked in compartment 25' are caught between the cylinder and the banded rolls and drawn in between them, and by giving the crank a short quick motion back and forth and only part way round the clothes are given a backward-and-forward motion, and after being well washed are turned through into the other compartment, from which they may be rinsed and wrung out.

The washer would serve a good purpose if division-board 16 were left out, but would not be as convenient.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A washing-machine, having a compartment at each end, central blocks extending into each compartment and secured to the sides of the washer, supporting long curved springs,

stationary bearings for movable rolls placed
above the center of the springs, metal bear-
ings pivotally mounted at each side of the
stationary bearings, rolls journaled in the
5 bearings and carrying an endless band, and a
rotatable corrugated cylinder, substantially
as shown and described.

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

JAMES HOLMES.

Witnesses:

N. E. THOMAS,
H. H. WARREN.