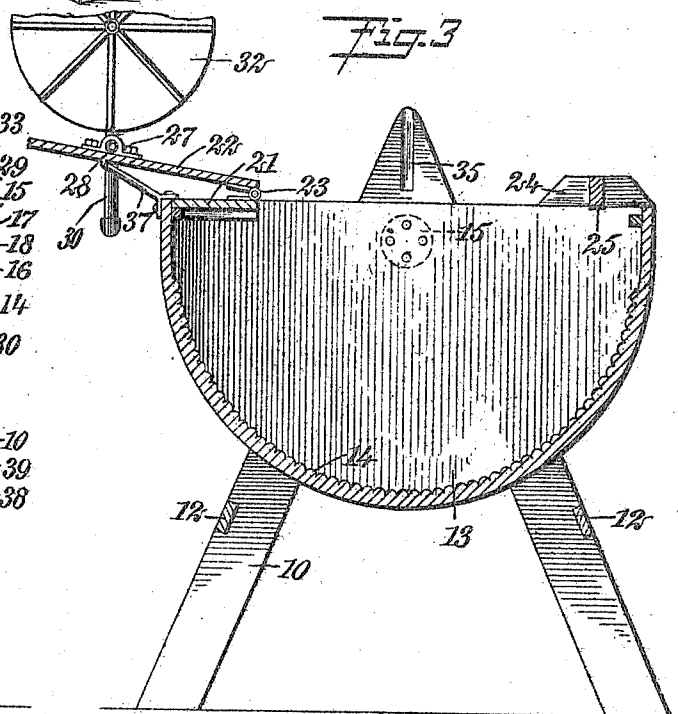
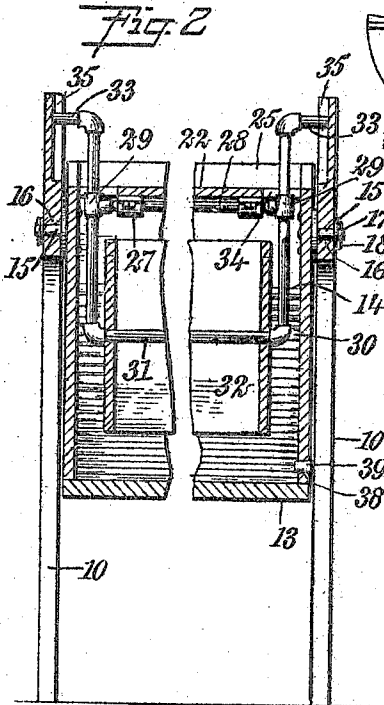
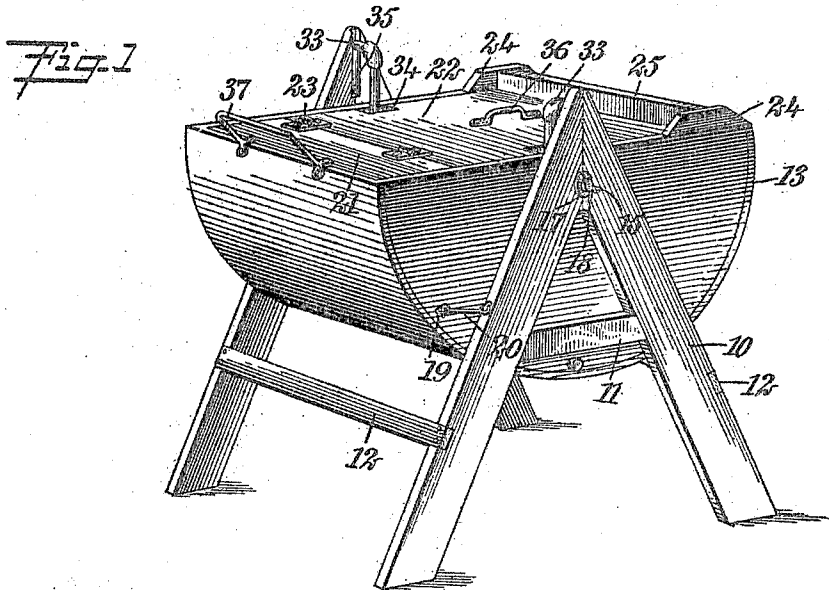


J. H. BULLOCK.
WASHING MACHINE.
APPLICATION FILED JAN. 19, 1909.

951,629.

Patented Mar. 8, 1910.



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UNITED STATES PATENT OFFICE.

JOHN H. BULLOCK, OF LOGAN, UTAH.

WASHING-MACHINE.

951,629.

Specification of Letters Patent.

Patented Mar. 8, 1910.

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To all whom it may concern:

Be it known that I, JOHN H. BULLOCK, a citizen of the United States, and a resident of Logan, in the county of Cache and State of Utah, have invented a new and Improved Washing-Machine, of which the following is a full, clear, and exact description.

My invention relates to washing machines, and constitutes an improvement upon the washing machine disclosed in my United States Patent No. 601,121, dated March 22, 1898.

Specifically, the improvement consists in the provision of a rotatable rubber mounted upon the lid or cover of the tub and adapted to engage the tub supporting standards, so that as the tub is oscillated the rubber is oppositely oscillated, to effect the rubbing or cleansing action between the corrugated tub bottom and the rubber, the latter having a rotatable part which facilitates this action.

The object of the invention is to provide a simple, inexpensive and efficient washing machine, by means of which clothes and similar articles can be easily and rapidly washed; which is so constructed that the articles to be operated upon can be simply and expeditiously inserted or removed from the tub; which requires the exertion of little force to operate it, and which is inexpensive to manufacture.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view of an embodiment of my invention; Fig. 2 is a transverse section of the device having parts broken away; and Fig. 3 is a longitudinal section of the washing machine showing the cover or lid open.

Referring more particularly to the drawings, I provide standards 10 which are preferably of inverted V form and have cross pieces 11 between the inclined sides. The opposite standards 10 are connected by transverse braces 12. A casing or tub 13 is arranged between the standards and is preferably semi-circular in form, having the lower side rounded and provided interiorly with transverse ribs or corrugations 14. At the

sides, the tub has trunnions 15 which are journaled in bearing openings 16 located near the apexes of the standards 10. The trunnions may be secured against accidental displacement in any suitable manner, for example, by means of washers 17 and cotter pins 18.

The tub, at one side, has an eye 19 adapted to receive the end of a hook 20 movably secured upon one of the standards, so that the tub can be held stationary with respect to the standards when it is desired to introduce or remove the garments and the water or other substances used for their cleansing.

The tub, at one end, has a fixed top portion 21 to which is movably secured by means of hinges 23, a lid or cover 22. At the opposite end, the tub has upward edge extensions 24 between which is located a transverse ridge member 25. The latter serves to carry, if so desired, a clothes wringer. The cover, at the under side has bearings 27 in which is journaled a shaft 28. The latter, at the ends, has transverse sleeves 29 which receive the sides of a U-shaped rubber member 30. The latter has loosely mounted upon the cross bar 31 a paddle wheel rubber 32. The ends 33 of the members 30 are outwardly and laterally disposed and extend through openings 34 of the cover. The ends 33 when the cover is closed, normally project into grooves 35 formed at the inner sides of the standards. The cover is provided with a handle 36 by means of which it can be easily opened or closed.

As the ends 33 of the rubber member engage the grooves 35, the sleeve bearings cause the member to swing in a direction opposite to the swinging of the tub. That is to say, as the tub is being oscillated, the rubber is at the same time being oscillated, but oppositely to the movement of the tub. The sleeves 29 which are carried by the cover of the tub, engage the sides of the rubber member at points below the ends 33, and as the ends are held fixed in the grooves 35, the rubber is swung back and forth by the oscillation of the tub. The latter is provided with a handle 37 so that it can be easily manually operated in this manner. As the paddle of the rubber is movably mounted the paddle itself is rotated by the relative movement of the tub and the rubber. The latter can be removed from within the tub by swinging the lid backward upon

the handle 37, the ends 33 moving out of engagement with the grooves 35. This leaves the tub free for the insertion or removal of clothes or the like. Furthermore, the construction permits the rubber to be placed upon the clothes after the same have been introduced into the tub, and the rolling movement of the rubber paddle upon the clothes facilitates the cleansing of the clothes, without the danger of tearing or otherwise injuring them.

Near the bottom, the tub has an outlet 38 by means of which it can be drained, and which can be easily closed by means of a plug 39 or the like.

The sides of the U-shaped member 30 are slidably arranged in the sleeves 29, so that the paddle can adjust itself automatically in accordance with the quantity of clothes or other articles in the tub. After the garments are placed within the tub the cover is closed and the paddle will then slide downward until it rests upon the clothes.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a washing machine, the combination of standards, a tub mounted to swing between the standards, a cover for said tub, a

shaft journaled upon said cover and having sleeves at its ends, a member having side portions extending loosely through the sleeves and the cover and into sliding engagement with the standards, and a revoluble paddle carried by said member.

2. In a washing machine, in combination, standards, a tub arranged to swing thereon and having a corrugated, curved bottom, a cover mounted upon said tub, a shaft journaled at the under side of said cover and having at the ends transverse sleeves, a U-shaped member having the sides mounted in said sleeves, and a paddle loosely mounted upon the cross bar of said U-shaped member, said cover having openings permitting of said sides to project therethrough, the ends of said sides being laterally disposed at the outside of said cover, said standards having grooves adapted removably to receive the ends of said sides.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN H. BULLOCK.

Witnesses:

ANDREAS PETERSON,
DOUD BYRON NAPPER.