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United States Patent Office.

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IMPROVEMENT IN WASHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

I, WILLIAM JAMES DODGE, of the city of Syracuse, in the county of Onondaga and State of New York, have invented certain Improvements in Washing-Machines, of which the following is a specification.

Nature and Objects of Invention.

My invention relates to the construction of a metallic or wooden cylinder, to be rotated in an ordinary boiler or other vessel while the water is boiling upon the stove, or off, if not desired to use boiling water.

The cylinder has journals attached to the center of each of the circular sides, outside. These journals rest in bearings suitably attached to the boiler, and the same is made to revolve by a crank, for the purpose of washing clothes.

The novelty of my invention consists in the construction of this cylinder.

The upper portion of the same is attached to the main part by hinges on one side, which allow it to be opened and shut at will, when desired to put in or take out the clothes, and fastened shut when the machine is being turned to wash.

This trap has an opening on and across the top to admit the water freely to the cylinder, and discharge the same on the flat side or inside of this trap; and across the face of the same I attach a series of rods or bars to prevent the clothes from falling too far and closing the water openings.

On the opposite side of the cylinder is a similar opening for ingress and egress of water, and a series of bars to stop the clothes from falling too far in this direction.

I divide the cylinder into two clothes-chambers by running a partition from the lower series of bars through the center of the cylinder to the center of the opening covered by the trap.

The chambers are thus formed and bounded by this partition, the bars, the sides, and the periphery or circular face of the cylinder.

I corrugate the sides, the face, and the partition, thus presenting a uniform rubbing-surface to the clothes on all sides when changing their positions by revolving the cylinder, and make the inside of these clothes-chambers perfectly smooth, so that no clothes can be torn.

As the cylinder is revolved the clothes slide and rush from one end of the chambers alternately to the other, coming in contact on all sides with a corrugated or wash-board surface. They rub themselves clean in addition to the concussion when stopped by the

bars, and followed and soused continually by the suds or water. A very few moments washes the dirtiest clothes perfectly clean. It works easy, is durable, thorough in its work, simple in construction, and comparatively cheap.

Description of the Accompanying Drawing.

Figure 1 is a sectional side view of the cylinder and a boiler.

Figure 2 is a perspective view of the cylinder when closed.

General Description.

In fig. 1—

A A are the openings for the ingress and egress of the water.

B B B B are the rods or bars.

C is the corrugated partition

D D is the corrugated periphery.

E E, the clothes-chambers.

F, the cover to boiler.

J, the trap or opening to cylinder.

H H, the wash-boiler.

In fig. 2—

A is the water-opening.

H H, the cylinder.

J, the trap.

D D, the corrugated periphery.

I, the crank.

To operate my machine I suspend the cylinder in the boiler upon the bearings, put in the proper quantity of water, and place the same upon the stove. The trap being opened, an equal quantity of clothes is put in each of the chambers, filling them about one third; soap is added if necessary, the trap closed, cover put on, and the cylinder rotated. A few moments is sufficient to wash the dirtiest clothes.

For calico or flannels the machine is taken off the stove, the suds properly tempered, and the washing done while same remains off.

I claim as my invention—

A washing-cylinder, constructed with openings A A, rods or bars B B B B, partition C, corrugated periphery D D, and with plain or corrugated sides, substantially as and for the purpose hereinbefore set forth.

WILLIAM JAMES DODGE.

Witnesses:

F. N. MORLEY,
WM. DUNCAN.