

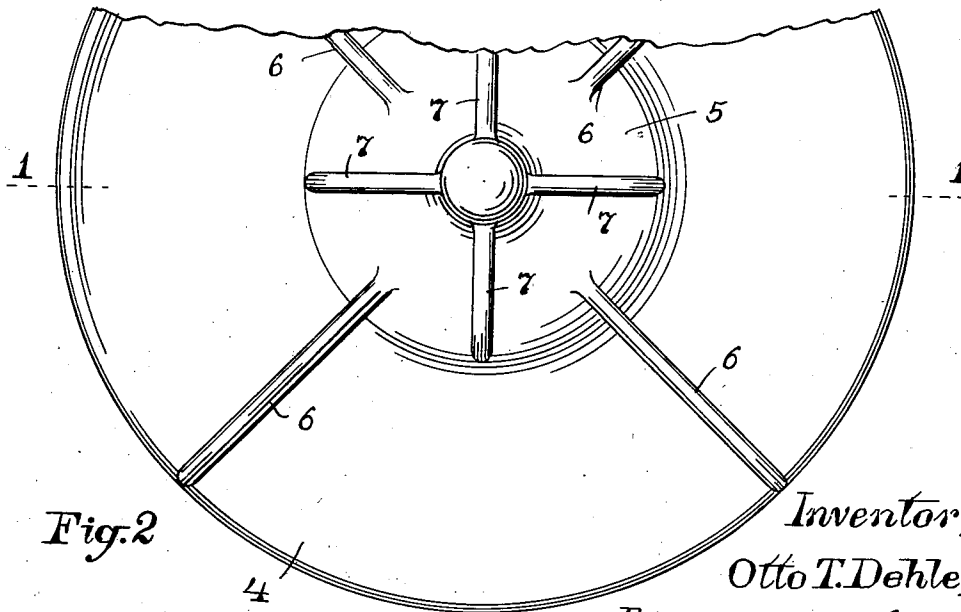
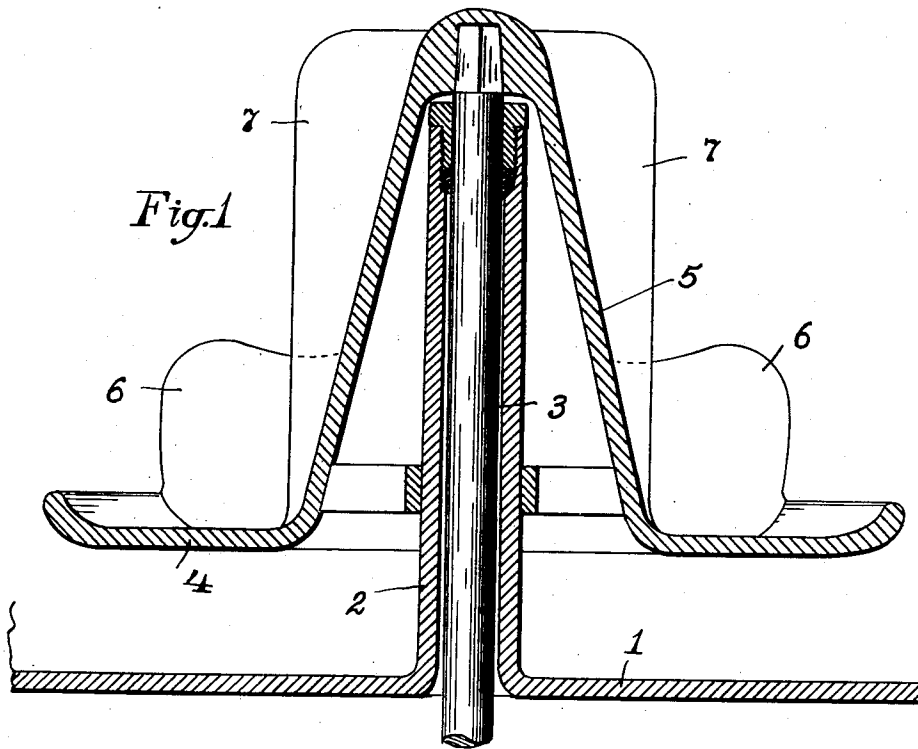
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O. T. DEHLE

WASHING MACHINE

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UNITED STATES PATENT OFFICE.

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WASHING MACHINE.

Application filed September 6, 1924. Serial No. 736,308.

To all whom it may concern:

Be it known that I, OTTO T. DEHLE, a citizen of Australia, and a resident of Watertown, in the county of Middlesex and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Washing Machines, of which the following is a full, clear, and exact specification.

There are on the market certain types of washing machines, which, though quite efficient in their operation of cleansing the garments, possess the drawback of so snarling and tangling the clothes as to render the task of their separation more arduous than that of the washing. In such machines, there is an oscillating table which is provided with radial ribs by means of which the contents of the machine are so vigorously agitated as to thoroughly wash the clothes, but at the same time to wad them up in a tangled mass.

Attempts have been made to obviate this defect, but so far with indifferent success. One method devised has been to provide the table with a central post or stem up whose sides are run several ribs and by means of which the objectionable tangling has been partially overcome. The difficulty with this machine is that the vertical ribs are mere prolongations of the radial ribs, and, further, that the vertical ribs diminish in size as they approach the upper end of the post or stem.

In my improved washing machine, the vertical ribs are not made as prolongations of the radial ribs, but are independent thereof, each rising from a point midway between two of the radial ribs, and, in addition, each is constructed to increase in dimension toward the top of the post or stem. In this way, the powerful centrifugal currents engendered by the radial ribs and transmitted into vertical and inward movements by the sides of the tub, and which are responsible for the central accumulation and snarling of the clothes, are diverted from the center and thereby kept in free agitation until the cleansing operation is completed. Such cleansing being greatly hastened by my construction.

In the drawings forming part of this specification, Fig. 1 is a vertical section of the dolly of a washing machine, drawn on the line 1—1 in Fig. 2, and embodying my improvements.

Fig. 2 is a plan view of the dolly, represented as having a part broken away.

The reference numeral 1 designates a part of the bottom of a washing machine tub, having a tubular post 2 rising centrally therefrom, through which post passes the rotatively oscillating shaft 3 by means of which the agitator is actuated. A suitable distance above the tub-bottom is a table 4 composing a portion of the agitator, and provided with a tapering post or stem 5 whose apex is mounted on and oscillated by the shaft 3.

Reaching from the post 5 to the outer margin of the table 4 are the radial ribs 6, here shown as four in number and equidistant from each other. On the post 5 are an equal number of vertical ribs 7 whose outer edges are approximately vertical, whereby, through the strongly conical form of the post 5, each vertical rib is given a much greater radial dimension as it approaches its upper end.

It is this increased dimension of the vertical ribs at their upper portions which serves to give a strong radial and centrifugal throw to the tub's contents and thereby to prevent the massing and tangling of the clothes at the center; and by having the vertical ribs midway between and independent of the radial ribs, the opposing currents are rendered parallel and intermediate of each other, instead of meeting head-on and thereby neutralizing each other. Such paralleling of the water-currents serves to greatly hasten and more thoroughly accomplish the cleansing of the garments being washed.

What I claim as my invention is:

1. A dolly for washing machines, comprising an oscillating table having radial ribs thereon, and a central post rising therefrom, said post having vertical ribs whose radial dimension is larger at their upper ends than below.

2. A dolly for washing machines, comprising an oscillating table having radial ribs thereon, and a conical central post rising therefrom, said post having vertical ribs whose outer edges are vertical, whereby their upper radial dimension is greater than their lower.

3. A dolly for washing machines, comprising an oscillating table having radial ribs thereon, and a central post rising therefrom, said post having vertical ribs whose

upper radial dimension is greater than their lower radial dimension, and which are independent of said radial ribs.

4. A dolly for washing machines, comprising an oscillating table having radial ribs thereon, and a central post rising therefrom, said post having vertical ribs thereon the lower end of each of which is midway between two of said radial ribs, and the upper ends of which vertical ribs are greater in radial dimension than are their lower portions.

5. A dolly for washing machines, com-

prising an oscillating table having radial ribs thereon, and a central conical post rising therefrom, said post having vertical ribs thereon equal in number to the radial ribs, each vertical rib having its lower end midway between two of said radial ribs, and its outer edge vertical, whereby to render its upper portion greater in radial dimension than its lower portion.

In testimony that I claim the foregoing invention, I have hereunto set my hand this third day of September, 1924.

OTTO T. DEHLE.