

987,353.

2 SHEETS—SHEET 1.



Fig. 1.

Fig. 5.

Witnesses

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ATTACHMENT FOR WRINGERS AND WASHING MACHINES.
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2 SHEETS-SHEET 2.

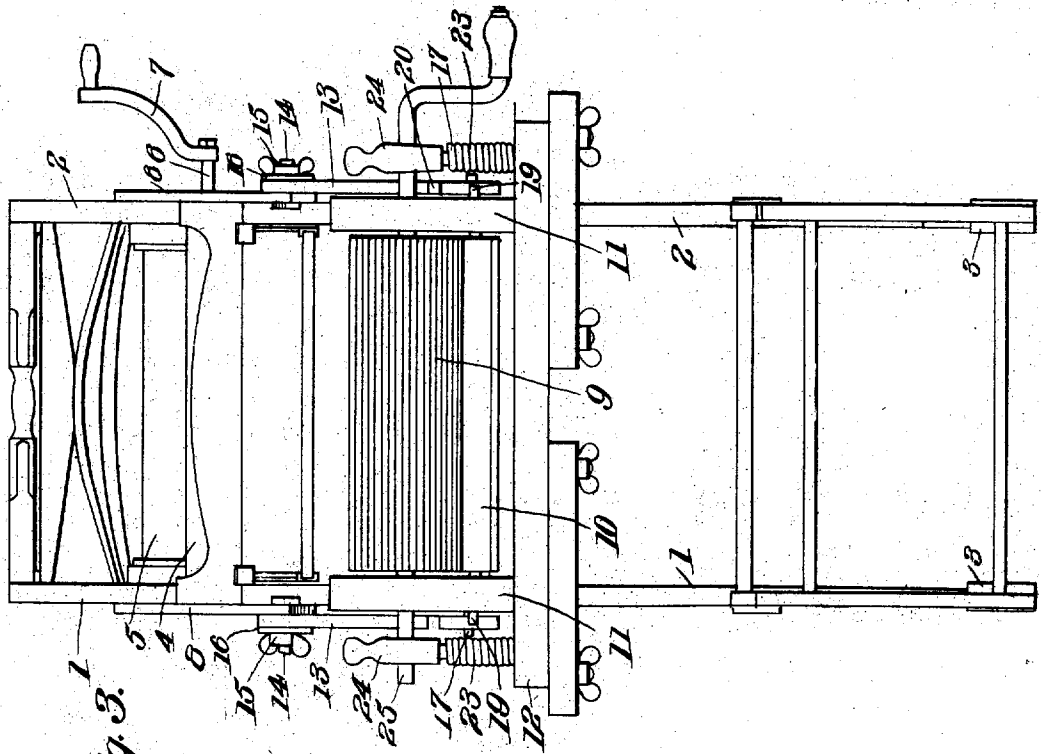


Fig. 3.

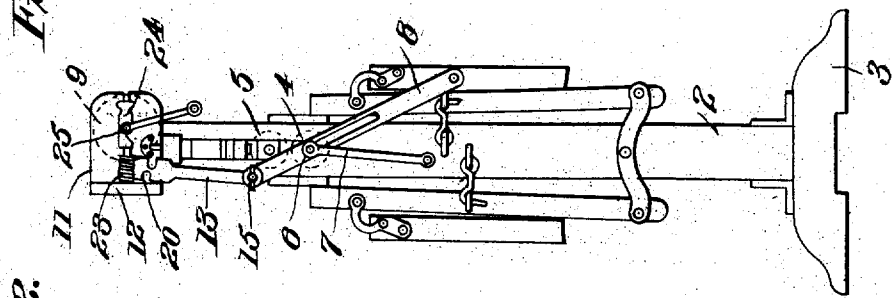


Fig. 2.

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR WRINGERS AND WASHING-MACHINES.

987,353.

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Application filed December 27, 1910. Serial No. 599,574.

To all whom it may concern:

Be it known that I, WILLIAM E. FLOOD, citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Attachments for Wringers and Washing-Machines, of which the following is a specification.

This invention relates to certain attachments for washing machines and wringers and more particularly to reversing devices.

In the use of washing machines and wringers of the type illustrated in the drawings it is desirable to have one tub or vessel for washing the clothes or other garments and another tub for rinsing the clothes or other garments arranged in convenient relation to both the wringer and the washing machine so that clothes can be transferred directly from one tub to the other through the wringer.

The object of this invention is to provide certain attachments by which the washing machine can be swung from the washing tub directly to the rinsing tub and also by which the washing machine can be reversed to bring the same to operative position after or when swung from one tub or vessel to another.

Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Figure 1 is a side elevation of the improved attachments, as applied to a wringer and washing machine of ordinary construction, a part of the washing machine being omitted to expose the attachments. Fig. 2 is a side elevation of the attachments, as applied to the washing machine in the folded position. Fig. 3 is a front view of the washing machine, on a larger scale, with the attachments applied thereto. Fig. 4 is an end view of the washing machine, with the bearing and other mechanism removed to illustrate the type of washing machines to which the attachments are applicable. Fig. 5 is a detail view, showing a portion of one of the reversing arms and the bolt therefor.

Similar characters of reference are used to indicate the same parts throughout the several views.

An upright frame is provided and the principal parts of this frame are the uprights 1 and 2 and the foot pieces 3. The wringer is provided with the usual rollers, a roller 4 journaled in stationary bearings and a roller 5 journaled in movable bearings (not necessary to be described herein). The roller 4 is provided with a shaft 6 and a crank 7. The improvements include slotted lever arms 8 which are fulcrumed on the shaft 6.

The washing machine has the usual fluted or corrugated roller 9 and feed rollers 10 and bearing uprights 11 attached to a common base 12. The improvements include carrying arms 13 which are pivotally connected to the washing machine and adjustably connected to the fulcrum arms 8 by means of bolts 14 and thumb nuts 15 and washers 16. These adjusting devices, the bolts and nuts and washers, are necessary when reversing the washing machine and also for adapting the attachments to different sized tubs or vessels. The nuts 15 can be loosened and the carrying arms 13 set at different angles to the lever arms 8. The carrying arms 13 are connected to the washing machine by pivot lugs or trunnions 17 which are rigid in the bearing uprights 11. The openings in the arms 13 for the pivot lugs 17 are elongated as shown in Fig. 1 for adjusting the arms 13 relative to the holding lugs 18 and 19. After the washing machine and the arms 13 have been adjusted, something is necessary to hold the same in rigid relation to each other. The arms 13 have notches 20 for engaging the lugs 18 and 19.

In Fig. 1, the washing tub or vessel 21 is shown with the washing machine mounted thereon and the rinsing tub 22 is shown on the opposite side of the frame, and the washing machine is shown in dotted outline. The lugs 18 hold the carrying arms 13 rigid with the washing machine when the washing machine is mounted on the washing tub and the lugs 19 hold the arms 13 rigid with the washing machine when the washing machine is mounted on the rinsing tub. It is apparent that the use of the tubs can be reversed in practice by the operator. The pivot lugs 17 must be made longer than the lugs 18 and 19 for the purpose of reversing the washing machine. The arms 13 can be moved axially outward (and still be engaged by the lugs 17) far enough to miss the lugs 110

18 and 19 while swinging the washing machine from one position to the other. The springs 23 will yield sufficiently to allow the arms 13 to be moved axially outward, but these springs will in working position hold the arms 13 in engagement with either the lugs 18 or 19. The reason why the springs 23 will yield in changing the washing machine is that the bearing hooks 24 are removed from the shaft 25 and the roller 9 removed from the washing machine during the reversing of the washing machine.

The lever arms are fulcrumed on the shaft 6 and are provided with slots therein for the purpose of adjusting the arms for washing vessels of different heights and also for folding the washing machine and the wash benches.

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

1. Attachments for wringers and washing machines comprising an upright frame, a washing machine provided with pivot lugs, slotted lever arms fulcrumed on said frame, and carrying arms engaging said pivot lugs and fixedly adjusted on said lever arms whereby said washing machine can be swung from one side of said frame to the other and inverted to operative position on either side of said frame.

2. Attachments for wringers and washing

machines comprising a washing machine provided with pivot lugs and holding lugs projecting therefrom, an upright frame, slotted lever arms fulcrumed on said frame, and carrying arms fixedly adjusted on said lever arms and engaging said pivot lugs and having notches for engaging said holding lugs.

3. Washing machine attachments comprising pivot lugs inserted rigidly in the sides of the washing machine and projecting therefrom, holding lugs on each side of said pivot lugs rigid with the washing machine, an upright frame, slotted lever arms fulcrumed on said frame, and carrying arms fixedly adjusted on said lever arms and having elongated bearings engaging said pivot lugs whereby said washing machine may be swung from one side of said frame to the other and having notches in each side thereof for engaging said holding lugs and said pivot lugs being longer than said holding lugs whereby said carrying arms may be disengaged from the holding lugs for reversing the washing machine.

In testimony whereof, I set my hand in the presence of two witnesses, this 8th day of December, 1910.

WILLIAM E. FLOOD.

Witnesses:

A. L. JACKSON,
J. W. STUT.