

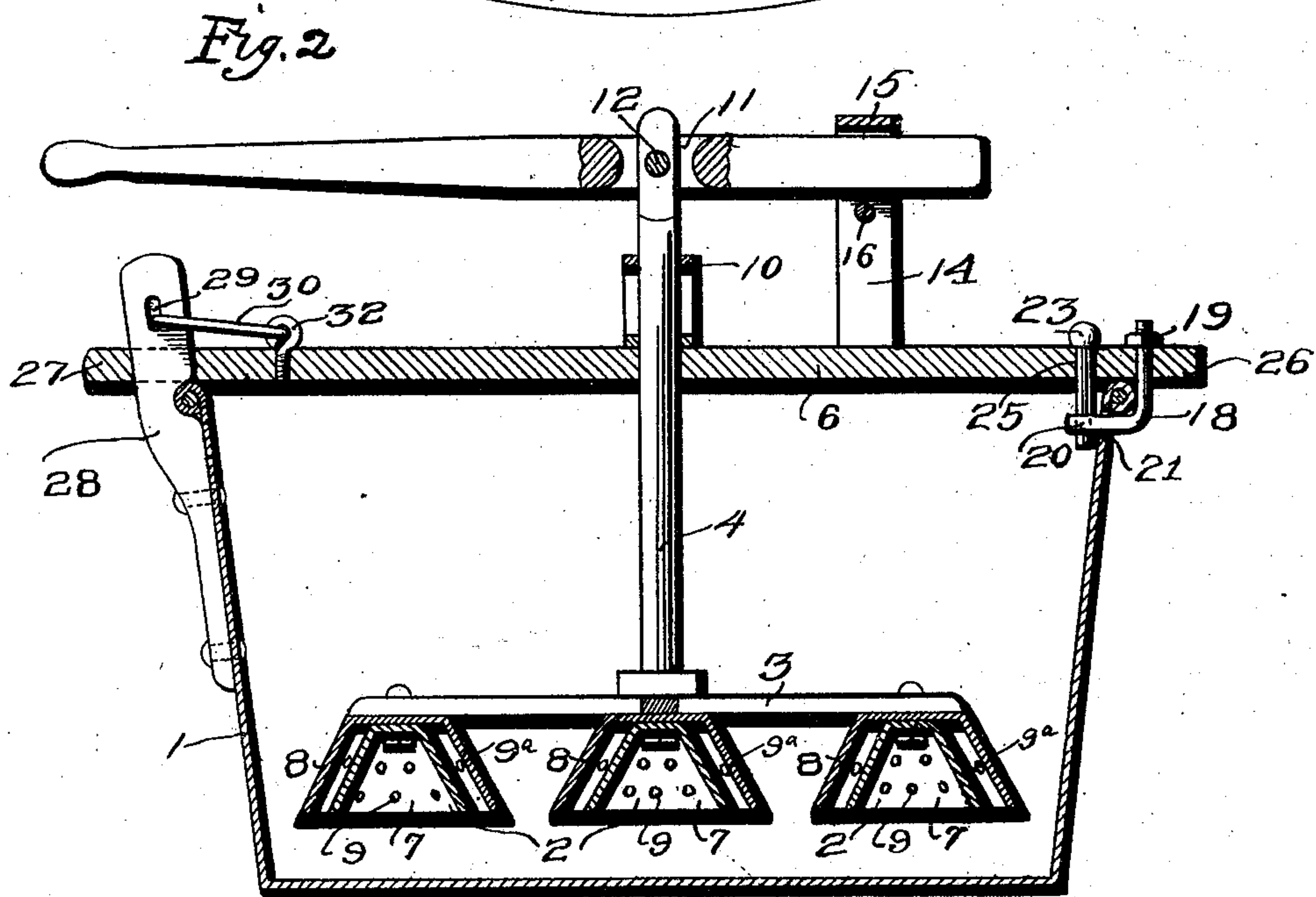
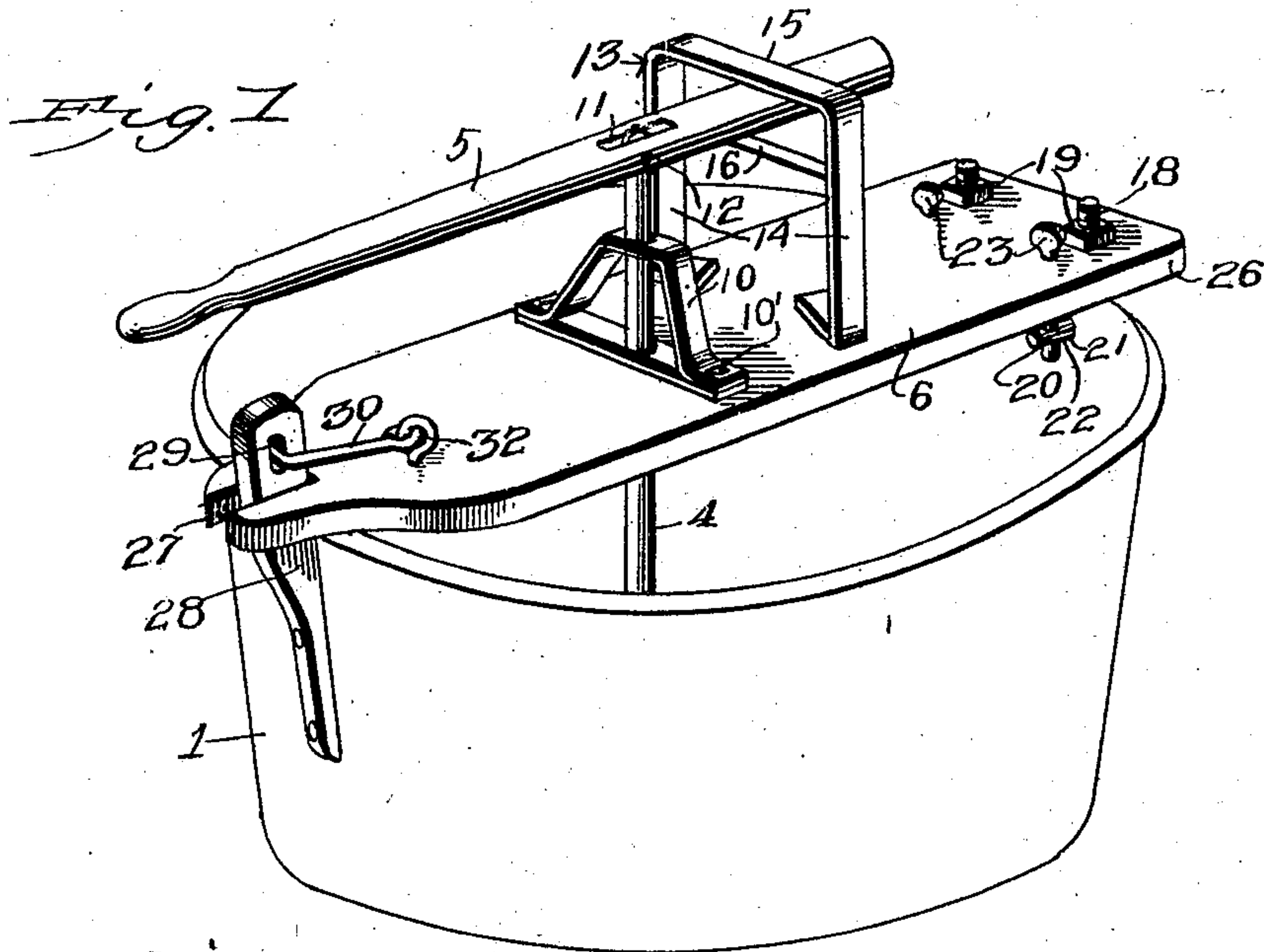
No. 698,154.

Patented Apr. 22, 1902.

A. Z. THOMAS.
WASHING MACHINE.

(Application filed Jan. 23, 1902.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

ABRAHAM Z. THOMAS, OF WOOSTER, OHIO.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 698,154, dated April 22, 1902.

Application filed January 23, 1902. Serial No. 90,957. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM Z. THOMAS, a citizen of the United States, residing at Wooster, in the county of Wayne and State of Ohio, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing-machines.

10 The object of the present invention is to improve the construction of washing-machines, more especially the manner of securing to the tub or receptacle the support for the operating mechanism and to enable the
15 latter to be readily swung backward out of the way or entirely removed from the tub or receptacle.

20 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

25 In the drawings, Figure 1 is a perspective view of a washing-machine constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the same.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

30 1 designates a washing-machine body or suds-box consisting, preferably, of a galvanized-iron washtub; but any other form of receptacle may be employed. The washing-machine body receives a group of pounders 2,
35 mounted on a suitable spider or frame 3 and carried by a stem 4, which is pivoted at its upper end to an operating-lever 5, and the latter extends through a support 6. The group of pounders, which are located at the center
40 of the spider and at the ends of the arms thereof, are adapted to be raised and lowered to operate on the clothes and are also capable of being partially rotated or oscillated to arrange them at different portions of the wash-
45 ing-machine body, whereby the clothes may be uniformly operated on. Each pounder is preferably composed of inner and outer conical shells 7 and 8, spaced apart at their sides, as clearly illustrated in Fig. 2, and adapted
50 to exert a pressure on the clothes and agitate the water, whereby clothes are rapidly washed. The inner and outer conical shells are pro-

vided at their sides with perforations 9 and 9^a, and they have imperforate parts, which prevent any water from being thrown upward
55 upon the operator. The stem, as clearly shown in Fig. 1, passes through an opening of the support 6 and through openings of a guide 10, secured upon the support and composed of a horizontal bottom piece and an inverted
60 approximately U-shaped piece secured to the ends of the horizontal piece by the fastening devices 10^a, which secure the guide to the support.

The operating-lever 5 is provided between
65 its ends with a slot 11 to receive the upper end of the stem, which is reduced and which is secured to the lever by a pivot 12. The front end of the operating-lever is provided with a
70 suitable grip or handle, and the rear portion of the lever, which is arranged horizontally when the parts are disposed as shown in Fig. 2, extends through a horizontal guide-opening of a frame 13, consisting of vertical sides
75 14, a connecting top piece 15, and a transverse rod 16, located between the ends of the sides and arranged parallel with the horizontal top piece 15. The vertical sides are provided at
80 their lower ends with arms 17, which are secured to the upper face of the support 6. The space between the horizontal top portion of
85 the vertical frame 13 and the horizontal rod 16 forms a guideway or opening for the lever to permit the latter to be oscillated horizontally to rotate the stem and the group of pound-
90 ers partially to enable the said pounders to operate on all of the clothes or other fabrics within the washing-machine body. The pin or pivot 12 is removable, and it detachably
95 connects the lever and the stem. By detaching the pin or pivot 12 the lever and the pounders may be readily removed from the support and the frame 13.

The support 6 may, as illustrated in Fig. 1 of the drawings, consist only of a single
95 board or piece, or it may be circular and constitute a top or cover for the washing-machine body or tub, if desired. The rear end of the support is provided with a pair of approxi-
100 mately L-shaped arms 18, having threaded upper ends to receive nuts 19 and provided with horizontal lower portions 20, extending through apertures 21 of the tub or receptacle from the exterior thereof and spaced from the

lower face of the support to provide a recess for the rim of the tub or receptacle. The ends of the horizontal portions of the L-shaped arms are provided with openings 22, which are engaged by removable pins 23, arranged vertically in perforations 25 of the support 6 and having heads at their upper ends. The rim of the tub is rounded, and it constitutes a pintle for the support, the L-shaped arms forming eyes for the reception of the said pintle, and the support is adapted to be swung upward and backward to carry the washing mechanism out of the washing-machine body or tub to afford access to the clothes or other fabrics being washed. The arms are spaced from the rear end of the support to provide a projecting portion 26, which is adapted when the support is swung upward to abut against the back of the tub to limit the movement of the support and to hold the same in an inclined position. The pins 23 are adapted to be readily withdrawn to permit the arms of the support to be disengaged from the apertures of the washing-machine body or tub for removing the support and the washing mechanism.

The front end of the support is extended and provided with a bifurcation 27, arranged to receive an arm 28, which is fixed to the tub or receptacle at one side of the same and which is arranged on the exterior thereof. The arm or post is slotted and extended above the support, and the slot 29, which is located above the support 6, is adapted to be engaged by a hook 30, which is hinged to the support by an eyebolt or screw 32. The hook is provided at the inner end of its shank with an eye, which is linked into that of the screw-eye. The hook detachably engages the post or arm 28 and is adapted to be readily swung

out of such engagement to permit the support to be swung upward.

The pair of arms which form the eyes for hinging the rear end of the support 6 to the washing-machine body or receptacle are located at opposite sides of the center of the rear end and are adapted to support the same against lateral movement in either direction when the said support is elevated.

What I claim is—

1. In a washing-machine, the combination of a receptacle provided with an aperture, a support, an L-shaped arm depending from the support and extending through the aperture of the receptacle from the exterior thereof, a fastening device passing through the support and detachably engaging the inner end of the arm and securing the support to the tub, said support being adapted to be swung backward and upward, and washing mechanism mounted on the support, substantially as described.

2. In a washing-machine, the combination of a receptacle provided with apertures, a support arranged upon the receptacle, arms depending from the support and extending inward through the apertures from the exterior thereof, means for engaging the terminals of the arms for preventing the same from being withdrawn from the apertures, and washing mechanism mounted on the support, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ABRAHAM Z. THOMAS.

Witnesses:

JESSE MCCLELLAN,
J. G. SANBORN.