

(No Model.)

S. N. NEAL.
WASHING MACHINE.

No. 387,250.

Patented Aug. 7, 1888.

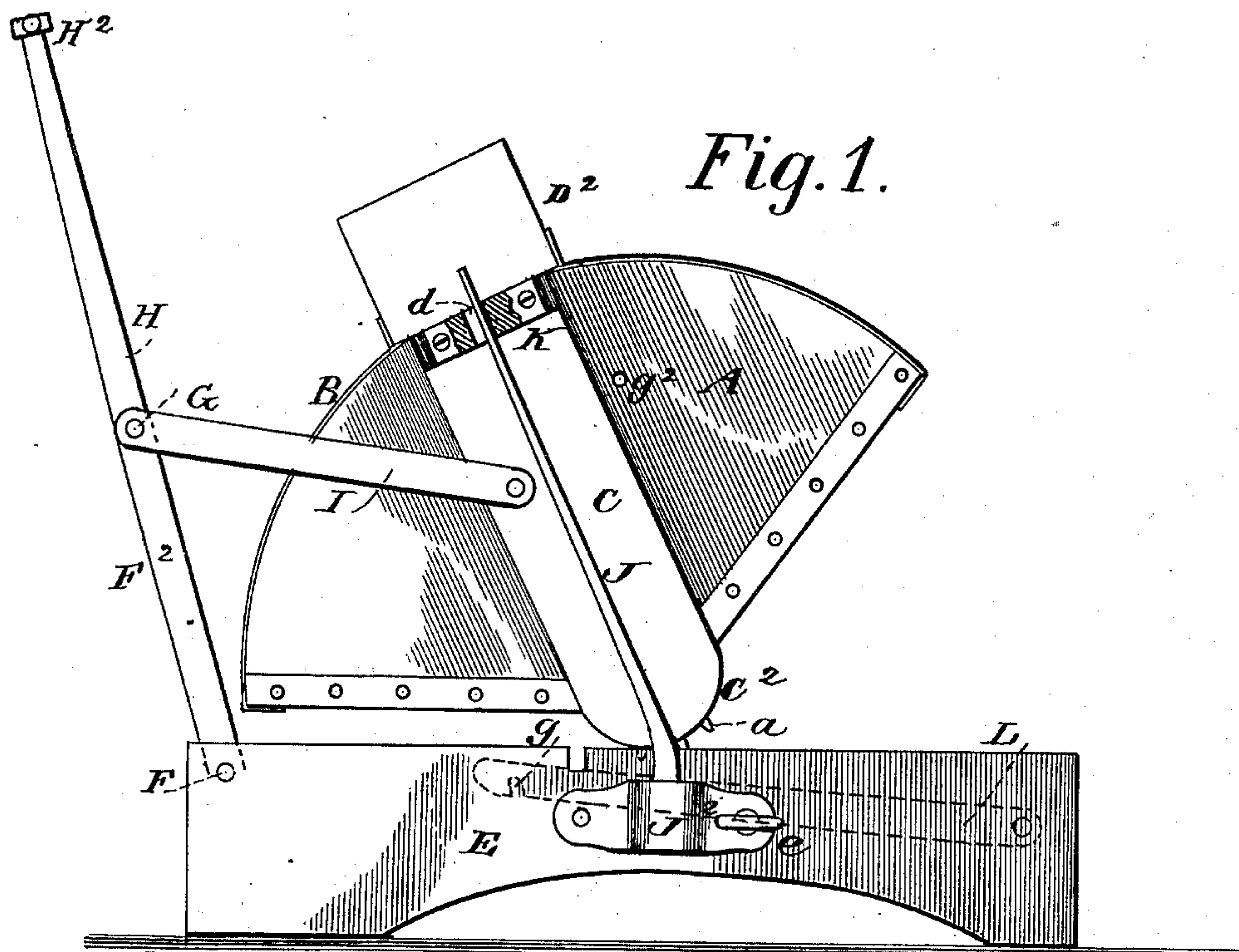


Fig. 1.

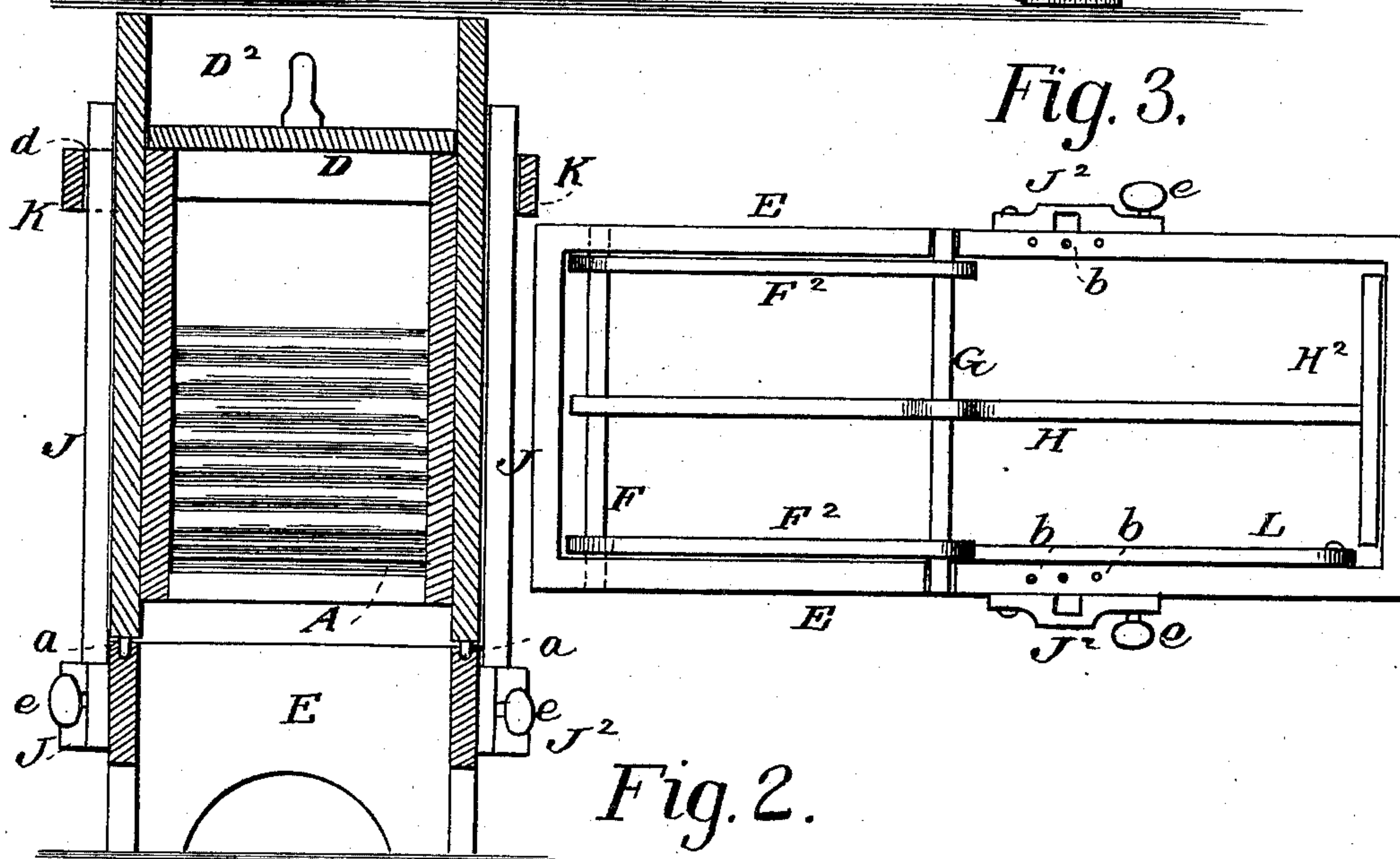


Fig. 3.

Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

STEPHEN N. NEAL, OF DURANGO, TEXAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 387,250, dated August 7, 1888.

Application filed November 9, 1887. Serial No. 254,688. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN N. NEAL, a citizen of the United States, residing at Durango, in the county of Falls and State of Texas, have invented certain new and useful Improvements in Washing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specifica-
15 tion.

My invention relates to improvements in that class of washing-machines which are termed "rocking" or "swinging" machines; and it has for its object to simplify, cheapen, and otherwise improve the construction of and
20 render more efficient that class of devices.

To these ends, and to such others as the invention may relate, the same consists in the peculiar construction and in the novel combination, arrangement, and adaptation of parts,
25 all as more fully hereinafter described, shown in the drawings, and then specifically defined in the claim.

In the drawings, Figure 1 is a side elevation, and Fig. 2 is a vertical longitudinal section, of a washing-machine constructed in accordance with my invention. Fig. 3 is a plan
30 view of the supporting-stand with the suds-box removed, showing the positions assumed by the operating parts when not in use.

The suds-box A is of the irregular substantially hexagonal form shown. The top B is composed of a single thickness of sheet metal, while the inclined sides forming the bottom of the box are each provided with corrugated or
40 roughened surfaces, as shown.

Centrally located one upon each side of the suds-box, and securely attached to the same, are the vertical pieces C, the ends of which extend a short distance above or below the box. The
45 projecting lower ends of the strips C are rounded, so as to form the rockers C², and are each provided with a series of pins, a, adapted to engage the corresponding holes, b, in the upper edge of the sides of the supporting-stand.
50 The top of the suds-box is open for the admission of water and clothing, the opening be-

ing closed by means of a cover, D, which is fitted within the compartment D², formed at the top of the box.

E is the supporting-stand, which consists 55 simply of a rectangular frame, upon the upper edges of the parallel sides of which the suds-box is supported upon the rockers C².

F is a transverse shaft, the ends of which are suitably journaled in the sides of the support- 60 ing-stand at a point near one of its ends, and F² are bars pivoted at their lower ends to the shaft F and at their upper ends to the outer ends of the shaft G.

H is the operating-lever, the lower end of 65 which is pivoted upon the shaft F, and it is provided at its upper end with a suitable handle, H².

Upon each side of the suds-box, and pivotally attached at one end to the same, are arranged 70 the arms I I, the opposite ends of these arms being pivoted upon the outer ends of the shaft G.

J J are springs, of either wood or metal, and are secured at their lower ends to the blocks J² at the sides of the supporting-stand. The up- 75 per ends of the springs J are loosely embraced within the openings d, formed within the cleats K near the top of the suds-box. The blocks J² are each pivotally attached at one end to the side of the supporting-stand, the opposite 80 end being provided with a thumb-screw, e, by means of which the block may be secured so as to retain the spring J in a vertical position when desired.

L is an arm pivoted at one end to the side of 85 the supporting-stand near the rear end of the same, and provided at its free end with a hook or slot, g, adapted to engage a pin, g², thus providing a means for preventing the suds-box from rocking when filling or removing the 90 contents of the same.

The operation of my device will be readily seen and understood. The clothes and suds are placed within the suds-box and the lid fastened in position. The hook g is disengaged 95 from the pin g² and the handle H² is moved backward and forward by the operator. The motion given to the handle will be communicated through the arms I I to the suds-box, which will be thereby caused to rock. The 100 engagement of the pins upon the lower face of the rockers with the corresponding holes in

the upper edge of the supporting-frame serves to prevent the rockers from being accidentally displaced.

5 The action of the vertical springs J will be readily appreciated, serving as they do to assist in reversing the motion of the machine, and also to limit the swing of the same.

10 When not in use, the suds-box may be removed from the supporting-stand by detaching the outer ends of the arms or levers and lifting the box from the frame. The operating parts, which are all pivoted to the frame, may then be folded within small compass for convenience in storage.

15 In this application I do not seek to claim anything broadly, but restrict myself to my peculiar construction, attaching importance to the pivoted blocks J², by means of which the springs J may be readily removed or put in
20 place without removing the suds-box.

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

The combination, with the supporting-stand and the suds-box, of the cleats K at the upper 25 end of said box and formed with openings d, the blocks J², pivotally secured to said stand and provided at one end with the thumb-screw e, and the springs secured at their lower ends in said blocks and their upper ends working 30 loosely in the openings d in the cleats, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

STEPHEN N. NEAL.

Witnesses:

H. T. HURT,

A. A. HENSLER.