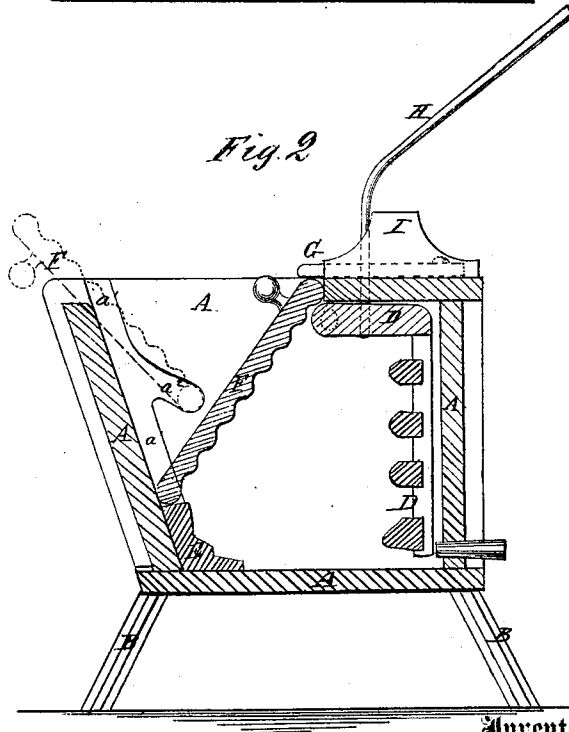
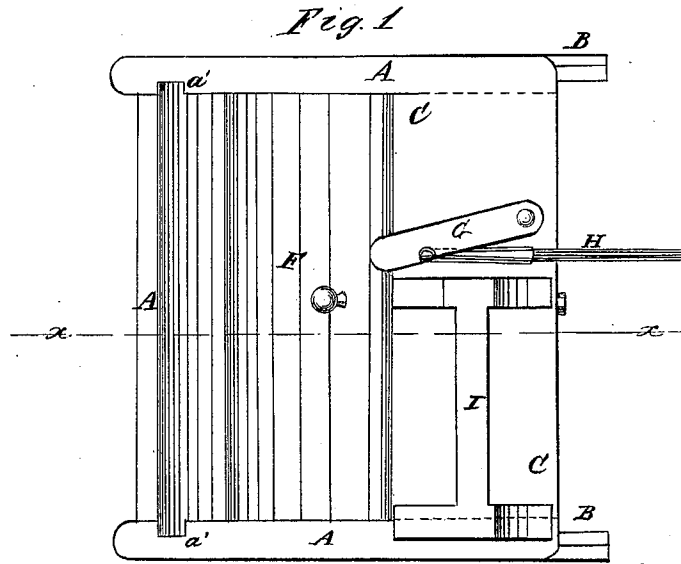


J. KING.
Washing-Machines.

No. 150,245.

Patented April 28, 1874.



Witnesses.

A. W. Almquist
C. Edquist

Inventor.

J. King
Attorneys.

PER

UNITED STATES PATENT OFFICE.

JAMES KING, OF SUCKASUNNY, NEW JERSEY.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **150,245**, dated April 23, 1874; application filed March 5, 1874.

To all whom it may concern :

Be it known that I, JAMES KING, of Suckasunny, in the county of Morris and State of New Jersey, have invented a new and useful Improvement in Washing-Machine, of which the following is a specification:

Figure 1 is a top view of my improved washing-machine. Fig. 2 is a detail vertical section of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved washing-machine, simple and compact in construction, convenient in use, and effective in operation, washing the clothes quickly and thoroughly, and without injuring them; and it consists in the arrangement of the detachable rubbing-board; in the combination of the detachable pivoted rubbing-board, angle-block, beater, coverer, and box, with each other; and in the combination of a button with the cover, pivoted rubbing-board, and the lever that operates the beater, for the purpose of locking said lever, as hereinafter fully described.

A is the box or tub of the machine, which is made with a flat bottom, vertical ends, and rear side and inclined forward side, as shown in Fig. 2. The box A is supported upon legs B, of such a length as to raise the machine to a convenient height. The rear part of the box A is provided with a stationary cover, C, as shown in Figs. 1 and 2. D is the beater, which is formed by attaching horizontal bars to two or more vertical bars. The lower horizontal bar of the beater D projects a little more than the bars above it, so as to tend, when the beater is swung forward, to raise the clothes from the bottom of the box A. The upper horizontal bar of the beater D is made wide, and is pivoted at its forward edge to the ends of the box A, just below the forward edge of the stationary cover C, as shown in Fig. 2. The beater D is made rectangular in its general form, and of such a size as to fit accurately into the rear part of the box A when swung back, so as to take up no more space than its exact size. E is a corrugated angle-block, fitted into the angle at the bottom of the inclined forward side of the box

A, and against which the lower horizontal bar of the beater D strikes when swung forward. F is the rubber-board, the face of which is corrugated, and upon the lower parts of the end edges of which are formed, or to them are attached, pivots which enter grooves *a'* formed in the end boards of the box A, parallel with and close to the inclined front side board of said box, so that the said rubbing-board can be removed and inserted at will.

By this arrangement the rubbing-board F can be turned forward against the inclined forward side of the box A, for convenience in putting in and taking out the clothes.

When washing, the corrugated board F is turned back, so that its upper edge may rest against the forward edge of the cover C, where it is secured in place by a button or other convenient fastening, G, pivoted or otherwise secured to the said cover C. The corrugated board F and the beater D, when swung forward, form a triangular space, into which the clothes are compressed by the forward movement of the beater, to fall back into the water, and be again saturated as the beater moves back. *a*² are branch grooves extending inward and downward from the grooves *a*¹, into which the pivots of the corrugated board F may be slid to bring the said board into such a position as shown in dotted lines in Fig. 2, that it may be conveniently used for hand-rubbing when desired.

The beater D is operated by a lever, H, the end of which is inserted through a slot in the cover C, into a metallic socket inserted in a hole in the middle part of the wide upper horizontal bar of the beater D. The lever H is bent, as shown in Fig. 2, so that by turning it half around, the beater D may be operated from either side of the machine, as required. When the lever H is moved forward to swing the beater D into the rear part of the box A, it may be locked in that position by turning the button G into such a position that the said lever may enter a notch in the side edge of the said button, as shown in Fig. 1. I is a board or bar secured firmly to the cover C to receive a wringer, for convenience in wringing out the clothes.

Having thus described my invention, I claim

as new and desire to secure by Letters Patent—

1. The combination of the detachable pivoted rubbing-board F, angle-block E, beater D, cover C, and box A, with each other, substantially as herein shown and described, and for the purposes set forth.

2. The combination of the button G with the cover C, pivoted rubbing-board F, and

lever H that operates the beater D, substantially as herein shown and described, and for the double purpose of locking said board and lever, as set forth.

JAMES KING.

Witnesses:

JOSIAH MEEKER,
D. H. YOUNG.