





# UNITED STATES PATENT OFFICE.

PIERCE HIBBS, OF KNOBNOSTER, MISSOURI.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **146,071**, dated December 30, 1873; application filed November 22, 1873.

*To all whom it may concern:*

Be it known that I, PIERCE HIBBS, of Knobnoster, in the county of Johnson, State of Missouri, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a washing-machine, which is simple in construction, easy of operation, durable and effective, and not liable to get out of order, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 a longitudinal vertical section, of my washing-machine.

A represents the wash-tub or box, of any suitable dimensions, provided with a semicircular bottom, B, and supported upon suitable legs. Inside of the box A is located a semicircular wash-board, composed of two side pieces, C C, connected by suitable cross-bars, and having a series of rollers, D D, arranged in semicircular form along their edges, between the two side pieces. These rollers D D may be either plain, fluted, or corrugated, as desired. At one end of the wash-board C D, thus constructed, a shaft, E, passes transversely through it, and the ends of said shaft rest in slots *a a* in the sides of the box A. Around each end of the shaft E passes a rubber band, *b*, connecting the same with a pin, *d*, below the shaft in the side of the box. On top of the wash-board is fastened, longitudinally, in the center, a bar or lever, G, which extends beyond the other end of the wash-board over the end of the box, and is connected by a rubber band or ring, *b'*, with a pin, *d'*, in the end of the box. By means of the rubber rings *b b'*, the wash-board is allowed to yield upward to the

pressure of the clothes, and is pressed downward upon the clothes. By removing or unhooking the ring *b'*, the wash-board may be thrown over upon the shaft E as a pivot, out of the way, for putting in or removing clothes. On the inside, to each side of the box A, is pivoted an arm or lever, H, which extends down between the side of the box and the wash-board. To the lower ends of the levers H H is attached and braced a rubber, consisting simply of two curved side rails, I I, connected by means of angular slats or bars J J, placed suitable distances apart. This rubber is located below the wash-board, and is moved or swung back and forth by means of the levers H H.

In operation, the clothes are washed by the rubber operating on the clothes against the rollers D D of the wash-board, the clothes being placed on the rubber, and the wash-board then turned down on them and hooked in place. The dirt in the clothes will, as it becomes loosened, settle down between the slats of the rubber into the bottom of the box.

This machine, though simple in construction and easily operated, is durable and effective in use, and can be operated with very little trouble.

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

1. The combination of the removable board C D and box A B, shaft E, lever G, and yielding bands *b'*, all constructed and arranged for operation as and for the purpose specified.

2. The box A, slotted at *a*, and board C D, arranged on shaft E, bands *b'*, pins *d'*, and lever G, in combination with the rubber I J and arms H, all constructed and arranged for operation as and for the purpose specified.

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

PIERCE HIBBS.

Witnesses:

S. G. KEELY,  
MARION BIGLEY.