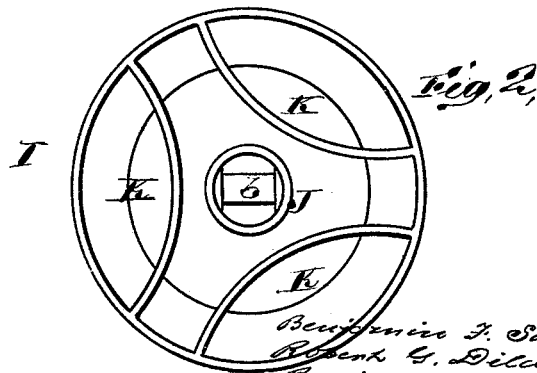
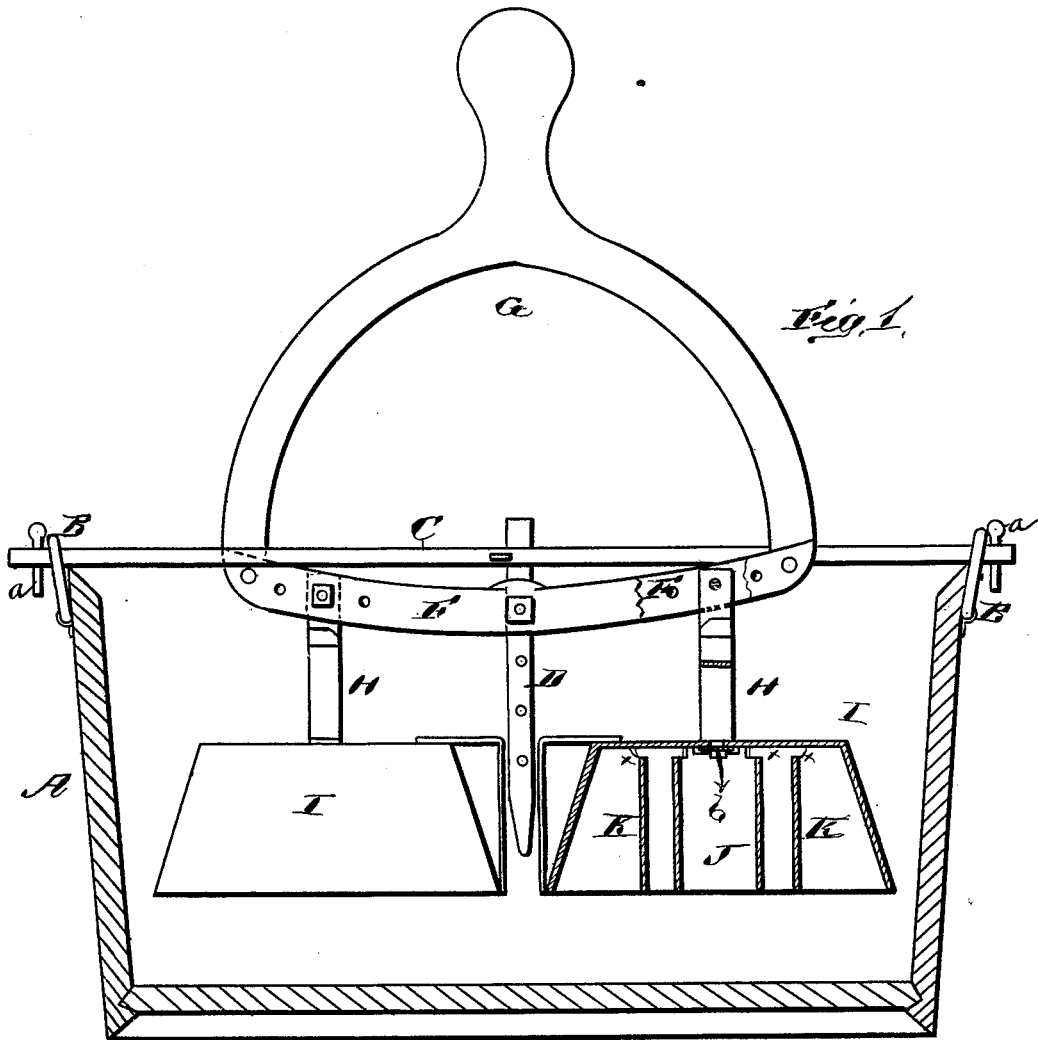


B. F. SANDERS, R. G. DILDINE & B. F. HEAD.
Washing-Machine.

No. 204,616.

Patented June 4, 1878.



WITNESSES
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UNITED STATES PATENT OFFICE.

BENJAMIN F. SANDERS, ROBERT G. DILDINE, AND BENJAMIN F. HEAD, OF
PARDEE, KANSAS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **204,616**, dated June 4, 1878; application filed
March 30, 1878.

To all whom it may concern:

Be it known that we, BENJAMIN F. SANDERS, ROBERT G. DILDINE, and BENJAMIN F. HEAD, of Pardee, in the county of Atchison and State of Kansas, have invented a new and valuable Improvement in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a vertical sectional view of our washing-machine, and Fig. 2 is a bottom-plan view of the washers.

The nature of our invention consists in the construction and arrangement of a pounder washing-machine, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate our invention.

A represents an ordinary wash-tub provided on two opposite sides with two hinged bails, B B, which are to be turned up over the ends of a cross-bar, C, laid across and resting on the edge of the tub, it being held by means of pins *a*, as shown.

In the center of the cross-bar C is swiveled a pin, D, which extends below said cross-bar, and the entire pin below the same is flattened and perforated with a series of holes. To this flattened portion of the swiveled pin D are pivoted two curved bars, F F, to the ends of which are attached the ends or arms of a forked lever, G, the bars F forming the lower side of the lever-frame. This lever-frame can be adjusted up and down, as required, by changing the pivot in different holes on the pin D.

The ends of the bars F F are perforated for

the lateral adjustment of the washers I I, each washer being provided on top with a forked brace, H, the center arm of which is pivoted between the bars F F, and can be moved from or toward the central pin, D, as required.

Each washer I is in the form of an inverted cup, with a valve, *b*, in the center of its top. Inside of the washer is a central tube, J, and curved flanges or divisions K K, which extend flush with the edge of the washer, and in their upper edges are formed air-passages *x x*, as shown.

The washer is operated by working the lever G F back and forth on its pivot, whereby one washer is raised and the other lowered alternately, and it can be swung around by means of the swiveled pin D, so as to bring the washers to bear at any point in the tub desired.

The air-passages *x* at the upper ends of the central tube J and partitions K allow the air to escape up through the valve *b*, so that there will be no suction in the upward motion.

What we claim as new, and desire to secure by Letters Patent, is—

The cross-bar C, attached to an ordinary wash-tub and provided with a perforated swiveled pin, D, in combination with the lever G F, having inverted cup-washers I I, which are laterally adjustable, substantially as shown, and for the purpose set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

BENJAMIN F. SANDERS.
ROBT. G. DILDINE.
BENJAMIN F. HEAD.

Witnesses:

R. T. SMITH,
H. C. SOLOMON.