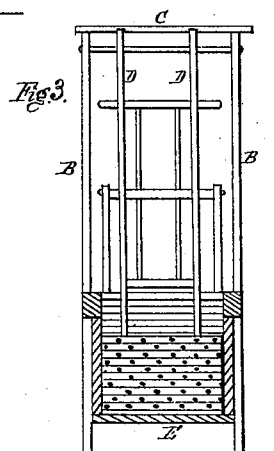
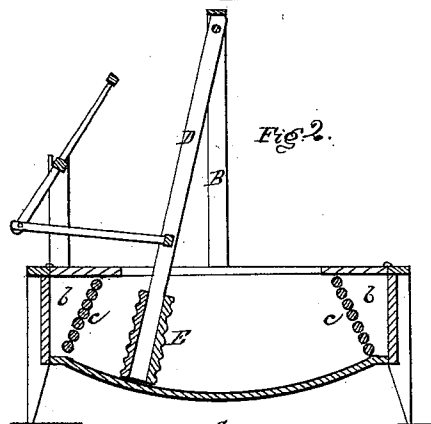
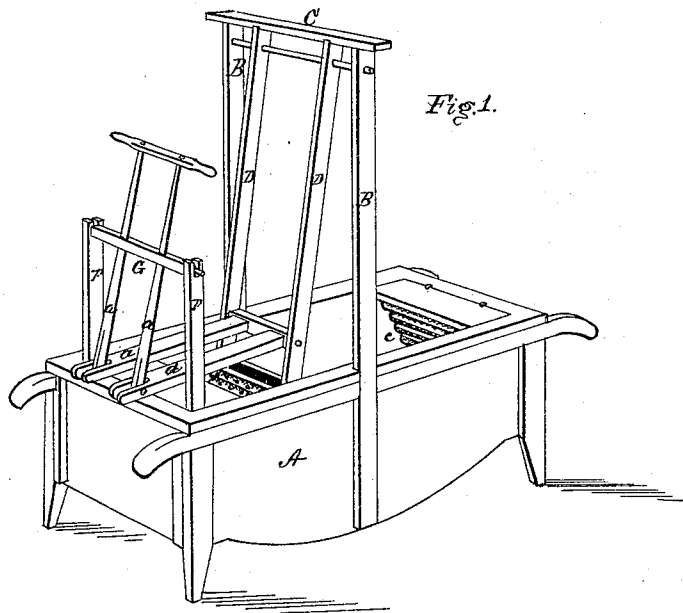


S. WILLIAMS.
WASHING-MACHINE.

No. 174,604.

Patented March 7, 1876.



Witnesses:
F. B. Townsend
Wm. H. Woxon

Inventor:
Samuel Williams
per atty.
A. H. Evans & Co.

UNITED STATES PATENT OFFICE.

SAMUEL WILLIAMS, OF GENOA, OHIO.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **174,604**, dated March 7, 1876; application filed November 20, 1875.

To all whom it may concern:

Be it known that I, SAMUEL WILLIAMS, of Genoa, Ohio, have invented a new and useful Improvement in Washing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my machine. Fig. 2 is a longitudinal section through *x x*. Fig. 3 is a cross-section through *y y*.

My invention relates to that class of washing-machines in which the dasher or pounder oscillates; and it consists in the combination and arrangement of parts, as hereinafter explained and claimed.

In order to enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents the box of a washing machine, provided at its center on each side with the upright beams B, to which is secured the cross-beam C, to brace them in position. Between the upright beams B are pivoted the swinging arms D D, which support a double dasher or pounder E, constructed of corrugated faced boards, thickly perforated, as shown in Fig. 3, with an open space between them to admit of a free passage of water through the perforations uninterrupted by the clothes in the opposite end of the box to that being acted on at the moment.

On one end of the box is secured the standards F F, which furnish bearings for the shaft G that serves as the fulcrum for the jointed lever *a*, by which is operated the dasher E. At

each end of the box A is partitioned off a small water-chamber by means of the horizontal rollers *c c*, which admit of a free passage of a wide sheet of water between them, and allows the soap-suds to pass from the water-chambers *b b* to the clothes without danger of interruptions, as would be the case if perforated partitions instead of rollers were used. The rollers, being journaled in the sides of the machine, also yield to the movement or pressure of the clothes against them, and thus I avoid any danger to fine articles from rubbing, which would necessarily be the case if the rollers and dasher were both unyielding in their surfaces.

Within the chambers *b b* is to be placed the soap or other cleansing material used, and it is fed out to the clothes between the rollers *c c*.

I am aware that oscillating dashers are not new, nor do I claim them broadly; but

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

A washing-machine constructed as described, and consisting of the box A, provided with the upright beams B, cross-beam C, swinging arms D D, and the dasher E, having double face of corrugated and perforated boards, in combination with the partitions constructed of the rollers *c c*, journaled in the sides of the machine, substantially as and for the purpose set forth.

SAMUEL WILLIAMS.

Witnesses:

J. H. H. UTHOFF,
HENRY HAMEL.