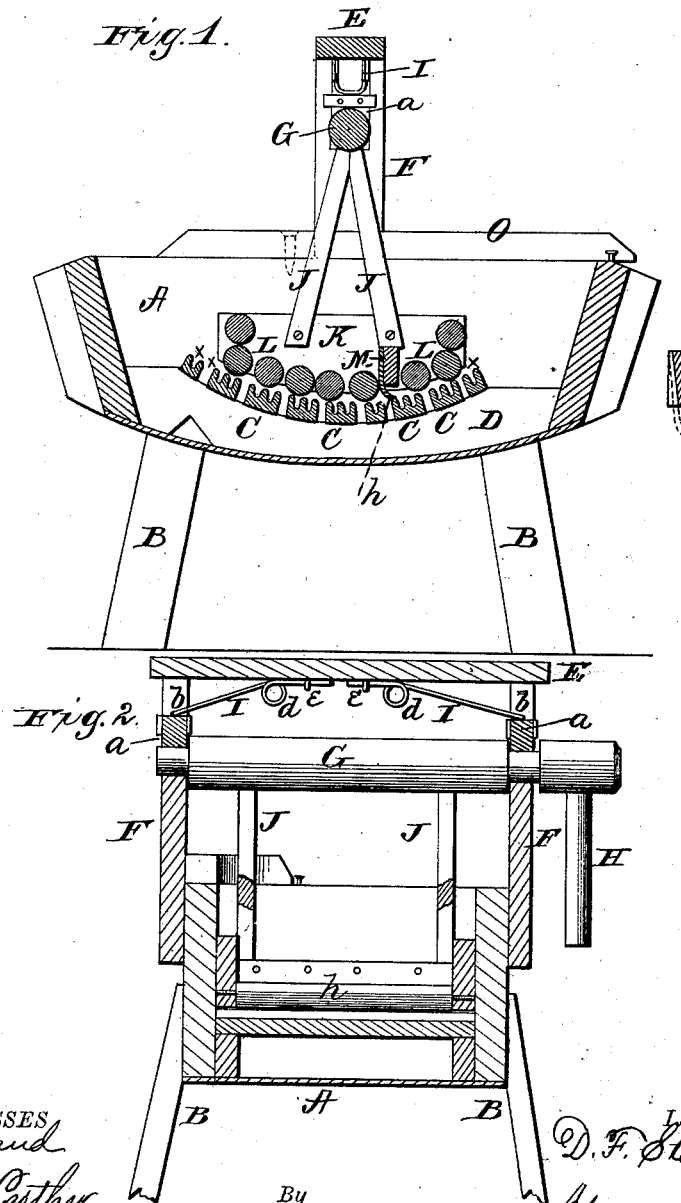


D. F. STAMBAUGH.
Washing-Machine.

No. 216,581.

Patented June 17, 1879.



WITNESSES
P. L. Curand
J. J. McCarthy

By

INVENTOR
D. F. Stambaugh
ATTORNEYS

UNITED STATES PATENT OFFICE.

DAVID F. STAMBAUGH, OF NEWTON, ILLINOIS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **216,581**, dated June 17, 1879; application filed February 1, 1879.

To all whom it may concern:

Be it known that I, DAVID F. STAMBAUGH, of Newton, in the county of Jasper and in the State of Illinois, have invented certain new and useful Improvements in Washing-Machines; and do hereby declare that the following is a full, clear, and exact description of the invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to certain improvements upon that class of washing-machines which have a swinging rubber pressed downward by springs and working over a wash-board in the bottom of the box, 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 drawings, in which—

Figure 1 is a longitudinal vertical section of a washing-machine embodying my invention. Fig. 2 is a transverse vertical section of the same.

A represents the washing-machine box, of any suitable dimensions, and supported upon legs B B, firmly secured to the sides of the box. In the bottom of the box is placed a wash-board, composed of a series of bars or slats, C C, arranged in curved form at suitable distances apart, and secured to side pieces, D D, which rest upon the bottom of the box. To the sides of the box are attached standards F F, the upper ends of which are slotted and connected by a cross-bar, E. In the slots in the standards F is placed a shaft or roller, G, which has a handle or crank, H, at one end, for rocking the same and operating the rubber connected to said shaft.

The shaft or roller G is held down in the standards by means of bearing-blocks *a a* and springs I I, the blocks being placed in the slots in the standards and the springs bearing on top of said blocks. Each spring I is made of a single piece of wire, bent in the center to form a double foot, *b*, which bears on top of

the block *a*. The two ends of the wire are coiled to form the springs *d d*, and the extreme ends secured at *e* to the under side of the cross-bar E.

To the shaft or roller G are secured arms J, to which are attached side pieces, K K, and in these side pieces a series of rollers, L, have their bearings, said rollers being arranged on the arc of a circle to correspond with the curvature of the wash-board formed of the slats C. The slats C are grooved longitudinally on their upper sides, as shown at *x*, to present a better washing-surface, and yet retain all the strength of the bars themselves.

At one or more points between the rollers L is a rubber strip, *h*, projecting below the rollers, and attached to a cross-bar, M, fastened in the side pieces, K K, as shown. One or more of these rubber strips, acting in conjunction with the rollers L, facilitate the washing and hasten the operation very materially.

The rubber formed by the rollers L and one or more of the strips *h* is operated by a crank or handle, H, attached to one end of the shaft or roller G.

In putting in and removing the clothes the rubber is held elevated by means of a lever, O, pivoted on top of one side of the box, as shown.

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

The combination of the wire springs I I, constructed as described, each spring forming a double foot, *b*, and coils *d*, with arms *e*, secured to the cross-bar E, the roller or shaft G, slotted standards F, boxes *a*, arms J, side pieces, K, rollers L, and rubber strip or strips *h*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 16th day of January, 1879.

DAVID F. STAMBAUGH.

Witnesses:

WM. SHUP,
JOHN B. HARRIS.