

E. W. Maxson,

Washing Machine.

No. 111,958.

Patented Feb. 21, 1871.

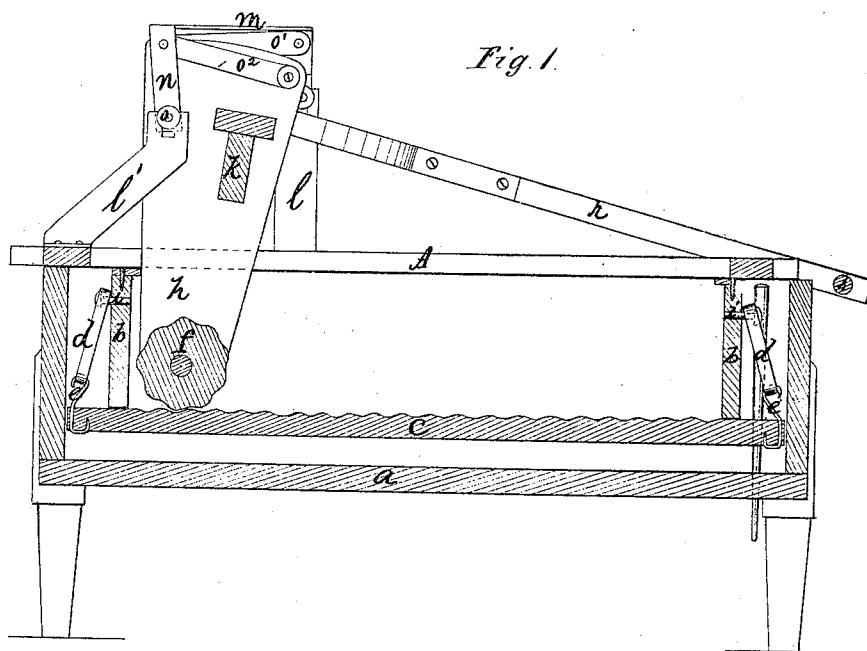


Fig. 1.

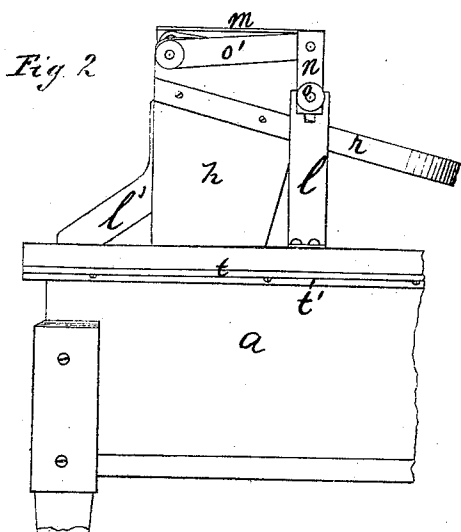


Fig. 2.

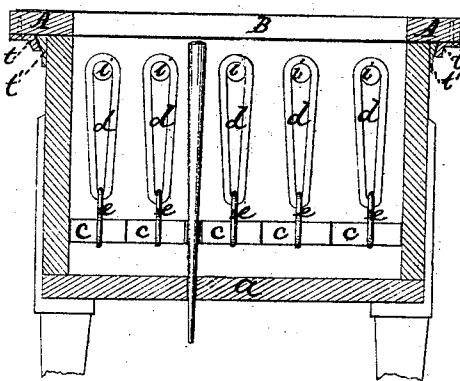


Fig. 3.

Witnesses.

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United States Patent Office.

ERWIN W. MAXSON, OF SCRANTON, PENNSYLVANIA.

Letters Patent No. 111,958, dated February 21, 1871.

IMPROVEMENT IN WASHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

I, ERWIN W. MAXSON, of Scranton, Luzerne county, Pennsylvania, have invented certain Improvements in Washing-Machines, of which the following is a specification.

Figure 1 is a sectional elevation;

Figure 2, a partial side elevation; and

Figure 3, a transverse vertical section.

This invention relates to a washing-machine having an elastic sectional false bottom, and a fluted roller hinged in a peculiar manner, whose office is to play back and forth over said bottom, and which is mounted in a slide that enables said roller to be transferred from one part of the tub to another.

Referring to the drawing—

a is the tub.

b are two bars, secured transversely of the tub, one near each end thereof, and at a suitable distance from the bottom of the same.

c are slats placed side by side lengthwise of the tub, corrugated on their upper surfaces crosswise of the tub, and sufficient in number to form an entire false bottom for the latter, said slats being held above the true bottom and in contact with the cross-bars *b* by springs *d*, of which there are two to each slat, said springs at their lower ends being passed under hooks *e*, fastened in the slats, and at their upper ends being passed over pins *i* driven into the cross-bars.

By this means either the whole of the false bottom, which is the one on which the clothes rest, or any one of its sections, is enabled to yield to any necessary extent.

Friction is put upon the clothes by a fluted roller, *f*, that is mounted crosswise of the tub between the lower ends of a pair of parallel hangers, *h*, that are rigidly connected by a cross-bar, *k*.

Each hanger is supported between a pair of standards, *l*, the standards *l* being attached to the side pieces of the sliding frame A B, and the standards *l* being attached to the end pieces thereof, and the two standards of each pair being connected at their upper extremities by rails *m*, from diagonally opposite corners of each of which rails arms *n* extend downward

to the standards, said arms being provided with set-screws *o* that pass through slots in the standards, the office of the slots and set-screws being to enable the rails *m* to be fixed at any height above the false bottom of the tub that may best be suited to the quantity of clothes therein.

To one of the upper outside corners of each hanger *h*, is jointed one extremity of a plate, *o*¹, the other extremity of which is jointed to that one of the arms *n* that is on the same side of the hanger with itself.

To the diagonally-opposite inside upper corner of each hanger is likewise jointed one extremity of an exactly similar plate, *o*², the other extremity of which is also jointed to that one of the arms *n* which is on the same side of the hanger with itself.

This double hinge enables the hangers to be vibrated to each side of the perpendicular by means of the levers *r*, which are fastened to the outsides of the hangers, and are bent outward so as to clear the frame A B, and are connected at their outer ends by cross-bar *s*. By vibrating the hangers, the roller *f* is drawn backward and forward over the clothes.

The side pieces A of the sliding frame have longitudinal rails *t* attached to their lower and outer corners, which rails have inner inclined sides and fit plates *t* secured to the upper and outer corners of the tub *a*, by which arrangement the frame is kept in place and rendered capable of being moved lengthwise of the box so as to place the roller wherever it may be most needed.

I claim as my invention—

1. The hanger *h*, when connected with its supporting standards by bars *o*¹ *o*², all constructed, arranged, and operating as specified and shown.

2. The arrangement of the hangers *h*, bars *o*¹ *o*², adjustable rails *m*, standards *l*, sliding frame A B, and roller *f*, all constructed and operating as specified and shown.

ERWIN W. MAXSON.

Witnesses:

O. B. WRIGHT,
H. W. BESSAC.