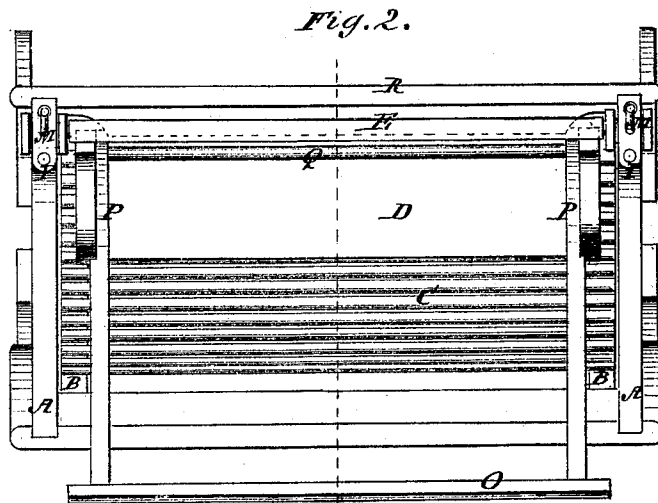
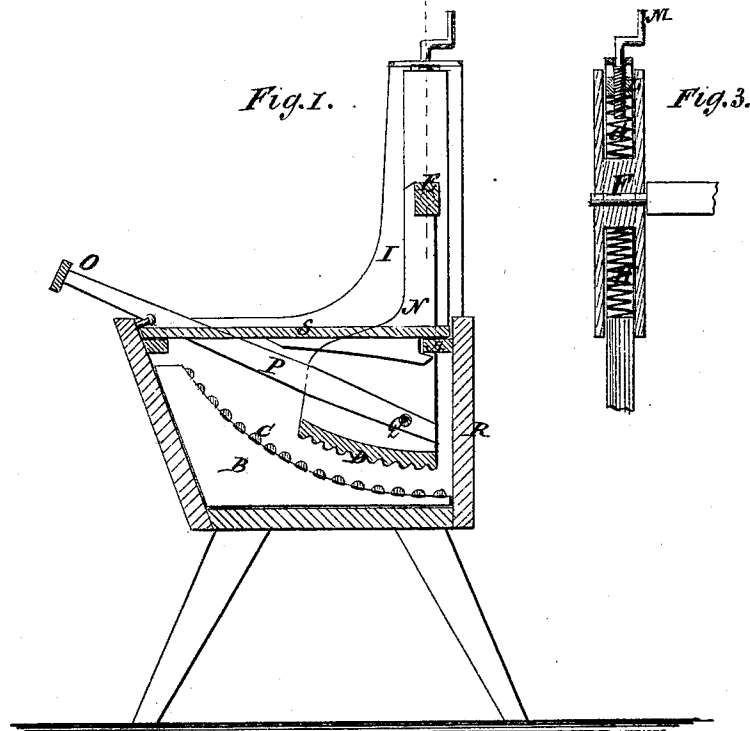


T. Beebe,
Washing Machine.

No. 112,110.

Patented Feb. 28, 1871.



Witnesses:

E. Wolff
Wm H. C. Smith

Inventor:

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PER

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Attorneys.

United States Patent Office.

THEOPHILUS BEEBE, OF NORTHPORT, NEW YORK.

Letters Patent No. 112,110, dated February 28, 1871.

IMPROVEMENT IN WASHING-MACHINES.

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

To all whom it may concern:

Be it known that I, THEOPHILUS BEEBE, of Northport, in the county of Suffolk and State of New York, have invented a new and improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in washing-machines; and

It consists in a fixed rubber of round rods of wood, connected to end pieces, being about one-sixth of a circle, more or less, placed in a case so as to be readily removed, and a suspended rubber, consisting of a grooved board, which is suspended on journals supported on springs and adjusting-screws in posts at one side of the case, in a manner to allow a wide range of movement to the said rubber for accommodating it to the quantity of clothes in hand, all as are hereinafter described.

Figure 1 is a transverse section through my improved machine;

Figure 2 is a top view; and

Figure 3 is a section through one of the parts, in which the movable rubber is suspended.

Similar letters of reference indicate corresponding parts.

A is a long narrow case, with vertical ends and one vertical and one oblique side, in which I place a fixed rubber, consisting of the end pieces B, with concave upper sides, plane bottoms, and oblique ends, fitting the bottom and oblique sides of the case, as clearly shown in fig. 2, and the round semicircular or other-shaped rods C connected to them; and above this I suspend the convex rubber D, consisting of a grooved board, from the oscillating shaft E, which is mounted in bearings F, arranged between spiral springs G H, in a slot in the posts I, one in each, which slots are covered by pieces K, attached to the bearings, and working up and down with them.

L represents blocks, one above each spring G, and M, a temper-screw, one for each of said blocks, screwing down through the top of the posts, to vary the tension of the springs.

The hangers N, by which the board D is suspended,

are widened considerably on that side of the vertical plane of the axis to which the rubber is swung in operating, so that the gravity will assist in the return movement, in which the greatest amount of the rubbing is done.

O is the break or handle for operating the rubber D, which is taken in the hands for working it back and forth.

The end pieces P of this brake, which slide into grooves arranged obliquely in the inner sides of the hangers N, are connected at the lower ends by a springing rod, Q, which, being sprung so as to shorten the distance between the ends to admit the said end pieces into the grooves, holds the said pieces therein by its tension, so that they need no other fastening, and may be readily taken out when required for any purpose.

The movable board is swung up over the axis so that the brake bears against the side R, where it will rest while clothes are being put in or taken out.

The springs G H afford a wide range for the movable board to work close to the fixed rubber, or a considerable distance from it, for a small or large quantity of clothes to be washed, as may be required.

A detachable cover, S, is applied, so as to afford space to each end for the hangers N and the end pieces P of the break.

Having thus described my invention,

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

1. The combination, with the fixed rubber, of the swinging board D, suspended on the shaft E, supported in bearings F, said bearings being arranged between the springs G H in the slotted posts, and having the blocks L and temper-screws M combined with them, all substantially as specified.

2. The end pieces N of the brake O, confined in the slots in the hangers by the tension of the rod Q, substantially as specified.

The above specification of my invention signed by me this 24th day of January, 1871.

THEOPHILUS BEEBE.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.