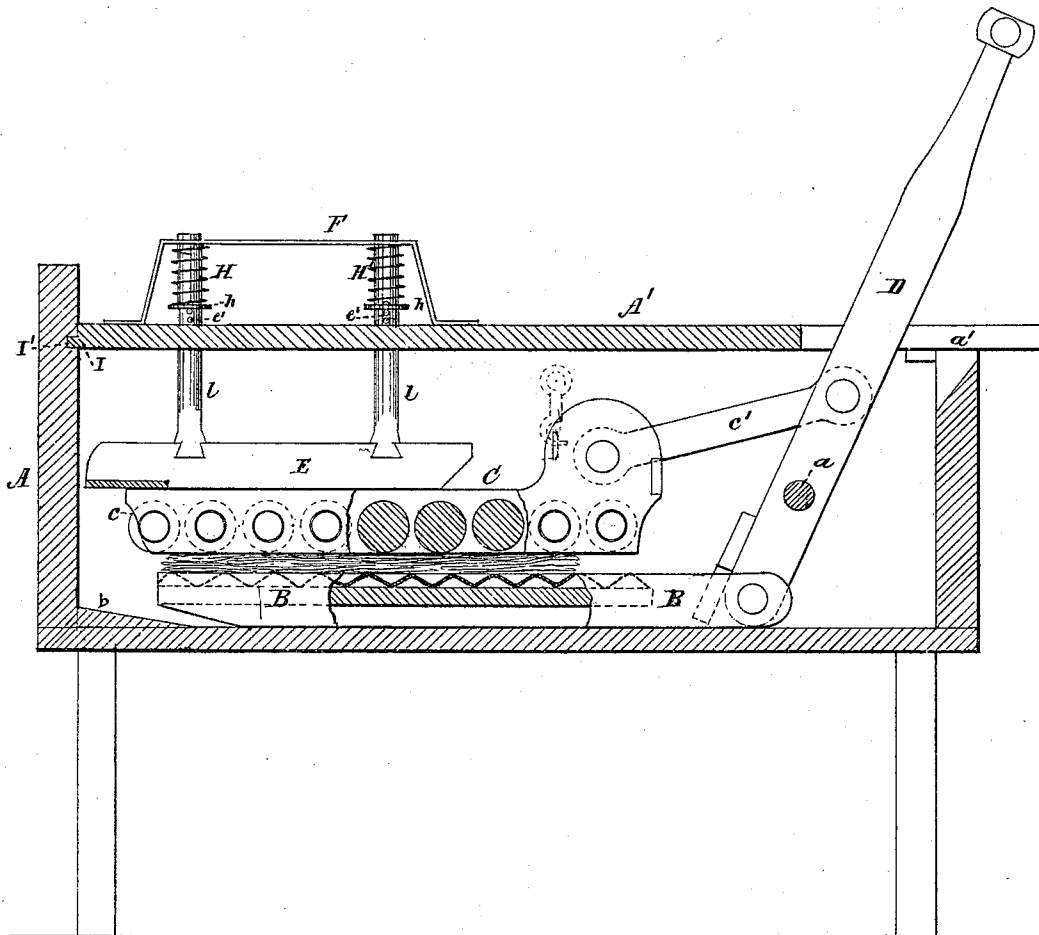


W. H. DEROSEAR.

Improvement in Washing-Machines.

No. 132,816.

Patented Nov. 5, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. DEROSEAR, OF PRIMROSE, IOWA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 132,816, dated November 5, 1872; antedated November 2, 1872.

To all whom it may concern:

Be it known that I, WM. H. DEROSEAR, of Primrose, in the county of Lee and State of Iowa, have invented a Washing-Machine, of which the following is a specification:

The invention consists in reciprocating the two rubbers of a washing-machine simultaneously, with a pressure toward one another, and in reverse direction over the clothes placed between them, in combination with a stationary spring-presser applied to produce a continuous but yielding pressure upon the rubbers and clothes. It also consists in the mode of arranging the springs and adjusting them to different tensions.

The drawing is a horizontal, longitudinal, and sectional elevation of my machine.

A represents the oblong washing-box, having end incline *b*; B, the corrugated bottom rubber; and C, a top rubber, formed of a series of rollers placed in a frame, *c*. D is a lever-frame, itself pivoted to shaft *a* in the box A, and provided with a strap-board, *a'*, while to it is pivoted the bottom rubber B and arms *c' c'*. These latter are pivoted to the top rubber C *c*. E is the presser, having standards *l l l l*, which protrude through the cover A' and angular straps F F, and are provided with perforations *e'*. Upon each of these standards is placed a spring, H, between a metallic guide or straps F, and the cover A'. The cover A' has two slots, *a'*, at one end, through which work the arms of lever-frame D, and a

projecting ledge, I, that enters a corresponding recess, I', in the box A.

The mode of operation is as follows: The cover A' is inserted, with the ledge I, in recess I', whereby the presser E is held down firmly, but with a yielding pressure upon the top rubber C. Then, by vibrating the lever-frame D, the top and bottom rubber are both moved, but in reverse directions across each other and over the clothes. The tension of the springs may be changed by changing the position of a pin against which bears the movable plate *h*, on which each spring rests. The rubbers do not move in a horizontal plane, but on an inclined plane so as to exert a continual pressure in the direction of each other, and thus squeeze the clothes intermittently, allowing the water to percolate through them and then expressing it.

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

1. The combination, with rubbers B C, of the stationary and spring-held presser E, lever-frame D, and arm *c'*, as and for the purpose described.

2. The metallic guides or straps F F, and standards *l l l l*, combined with springs H and plates *h*, resting on detachable pins, as and for the purpose described.

Witnesses: WM. H. DEROSEAR.

CHAS. A. PETTIT,

THOS. D. D. OURAND.