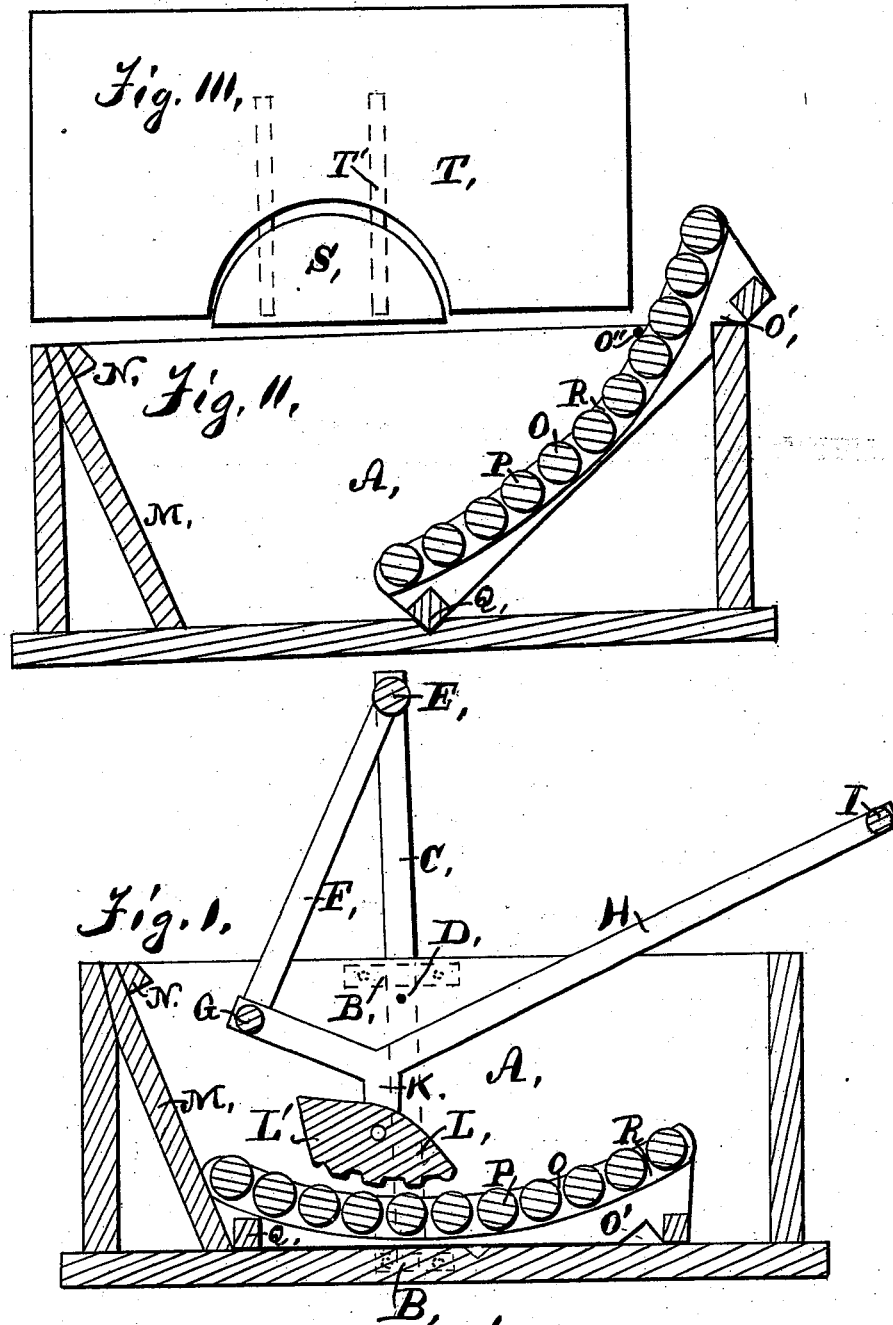


R. M. WIEDER.
Washing-Machine.

No. 210,175.

Patented Nov. 19, 1878.



Witnesses:
A. Holland,
W. J. Rankin.

Inventor:
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UNITED STATES PATENT OFFICE.

REUBIN M. WIEDER, OF CARTHAGE, ILLINOIS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **210,175**, dated November 10, 1878; application filed September 17, 1878.

To all whom it may concern:

Be it known that I, REUBIN M. WIEDER, of Carthage, Hancock county, Illinois, have invented a new and useful Improvement in Washing-Machines. This is made substantially as set forth hereinafter, referring to the accompanying drawings, in which—

Figure I is a vertical section of the machine. Fig. II is same differently arranged. Fig. III shows top of same.

This invention consists in an improved machine for washing by rubbing, rolling, and pounding, having the features substantially as set forth hereinafter.

The machine has a box portion, A, on suitable legs. It has bearings B in its two sides. The bars C fit into these removably, so as to be held, and have removable pins D to hold them in place.

The shaft E has bearings in the upper ends of bars C. Arms F descend from this, so as to swing back and forth, and bear shaft G, pivoted in their lower ends.

Bars H are pivoted on shaft G, and reach back with a cross-bar, I, at their ends, as a handle to operate them by. They bear downward branches K, into which is pivoted a rubber-board, L, extending the width of chamber A between branches K. This has a broad curved and corrugated working-face, with one edge, L', turned up to form a face at an angle to the working-face.

At one end of chamber A is an inclined beating-board, M, with a cross-rib, N, above, against which the clothing is pounded by beater L, operated by handles H I.

In the bottom is a curved frame, O. This bears rollers P, pivoted in its sides and reaching an elevation above the level of the side bars, so that the rubber-board L reaches over

the side bars. Iron plates are borne on these side bars, to receive the pivots of the rollers. On these rollers the clothing is rubbed by rubber-board L until the main work is done. Then it is pushed forward and is beaten by rubber-board L against board M.

The frame O is removable, and can be set in the form shown in Fig. IV, with its notches O' fitting over the back of box A and pins O'' put in to hold it in place. In this form it is used as a wash-board for rubbing parts of the clothing requiring it.

The machine has a lid, T, to use when the working parts are not in use by removing the bars C and putting them in chamber A. This forms a table. This lid has a removable part, S, which, being taken out, leaves it as a lap-board.

There are two guide parts, T', under the table, by which part S is held in place, or may be removed to the opposite side or taken off.

I claim—

1. A washing-machine with bearings B and removable bars C, combined with swinging arms F, having bars H pivoted to them, and bearing rubber-board L, having an upward face on one edge, and arranged to act on rollers P and on board M by rubbing and beating, substantially as set forth.

2. A washing-machine with a swinging frame, F H, bearing rubber-board L, arranged to be moved up and down and back and forth by handles, combined with rollers P and board M, for rubbing and beating, substantially as set forth.

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Witnesses:

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