

J. F. TRIDDLE.
Washing-Machine.

No. 208,648.

Patented Oct. 1, 1878.

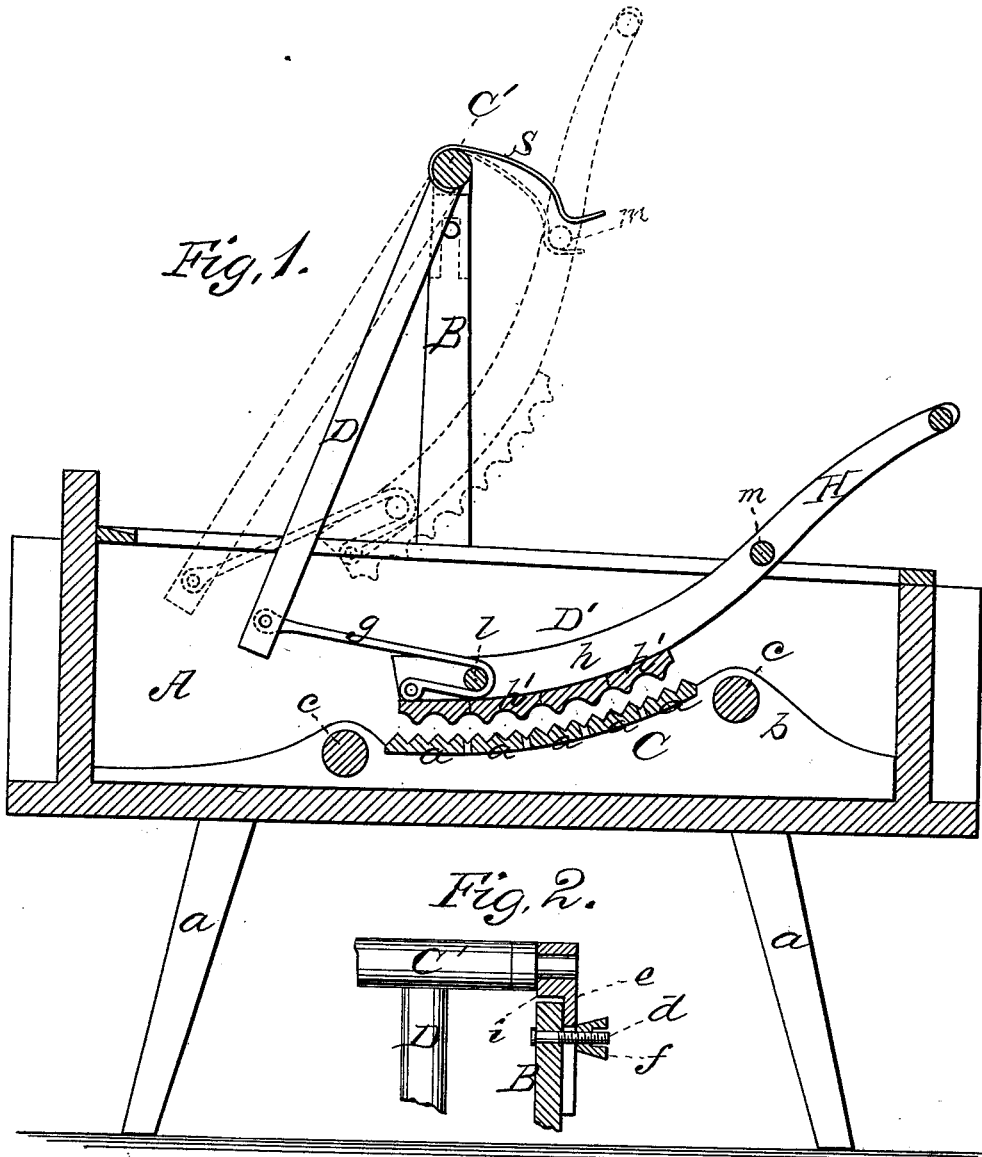


Fig. 1.

Fig. 2.

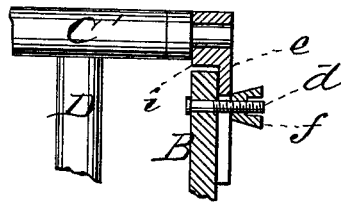


Fig. 3.

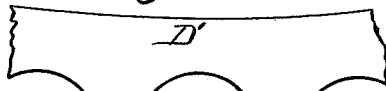


Fig. 4.



WITNESSES
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JOHN F. TRIDLE, OF NORTH MANCHESTER, INDIANA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **208,648**, dated October 1, 1878; application filed July 20, 1878.

To all whom it may concern:

Be it known that I, JOHN F. TRIDLE, of North Manchester, in the county of Wabash and State of Indiana, have invented a new and valuable Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal central section of my improved washing-machine; and Figs. 2, 3, and 4 are details.

This invention has relation to improvements in that class of washing-machines wherein a scrubber reciprocates over a stationary bed arranged inside of a suds-box.

The nature of the invention consists in the construction and novel arrangement, in connection with a suds-box having side uprights and an inside concave rubbing-plate, of the screw-bolt and a thumb-nut applied thereon, and the shouldered bearing-plates straddling said bolts, a rock-shaft journaled in said uprights, and a scrubber swinging from said shaft, as will be hereinafter shown and described.

It also consists in certain other combinations of parts, whereby useful and desirable results are obtained, as will be hereinafter more fully set forth.

In the accompanying drawings, the letter A designates an oblong rectangular tub erected upon suitable legs *a*, and having rigidly secured to its sides the uprights B. Inside of this box is a concave rubbing-board, C, composed of angular slats *a*, secured at a slight distance apart to side pieces, *b*, that fit snugly in the box aforesaid. At each end of the board C is arranged a roller, *c*, the object of which will hereinafter be explained.

As shown in Fig. 1, the board C is higher at the front end than in rear, by which means clothes naturally gravitate down the incline. This board is readily removable from the box A, enabling me to use the latter for rinsing or soaking purposes.

Near their upper ends the uprights B are each provided with a projecting threaded bolt,

d, which is straddled by a forked metallic bearing-plate, *e*, affording bearings to a transverse rock-shaft, C', and clamped against said uprights by a thumb-nut, *f*, applied on said bolt. Plates *e* are shouldered, as shown at *i*, and the said shouldered parts rest upon the ends of the uprights.

D represents rigid arms projecting from the rock-shaft C', and connected by means of hooked spring-rods *g* to the upper scrub-board, D'. This board is composed of side bars, *h*, that are convex upon their under sides, and of corrugated strips *h'*, rigidly secured thereto, the said bars being extended to form a handle, H, and the hooked spring-rods are pivoted at one end to arms D, and, being bent around a brace-rod, *l*, near the rear ends of bars *h*, are secured to the latter by means of screws.

As shown in Figs. 3 and 4, the interspaces between the corrugations of board C are triangular, and those of board D' concave or curvilinear. The distance between the apexes of adjacent corrugations of the board C is also less than in board D'; consequently they do not fit into each other.

A very effective frictional action is thus had upon the clothes between the said rubbing-boards, that effectually rids them of all stains. In introducing the clothes between the rubbers C D', the roller *c* at the upper end of the former greatly facilitates the operation, as the lower roller facilitates their removal therefrom.

The upper rubber, D', is adjusted toward or from the lower board, C, by loosening the thumb-nuts, raising the bearing-plates *e*, and then reapplying the said nuts; or the said plates may be raised off of the uprights, and the rubber D' removed bodily from the box, thus rendering the latter available, after the removal of the rubber C, as a rinsing or soaking vessel.

The rear portion of the walls of the vessel A is made higher than the front portion in order to prevent the movement of the reciprocating rubber from causing the water to slop over upon the floor.

In introducing the clothes between the rubbers C D', the latter is raised until the brace *m* of handle H is sprung over the spring-catch S, projecting from the rock-shaft C'. The

board C being thus exposed, clothing may be readily spread thereon.

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

The combination, with the box A, having side uprights, B, and inside concave rubbing-plate, C, of the screw-bolts *d*, shouldered bearing-plates straddling said bolts, clamp-nuts *f*, a rock-shaft, C', journaled in said uprights,

and a scrubber, D', swinging from said shaft C', substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN F. TRIDDLE.

Witnesses:

GEORGE W. EICHHOLTZ,

JAMES D. BELL.