

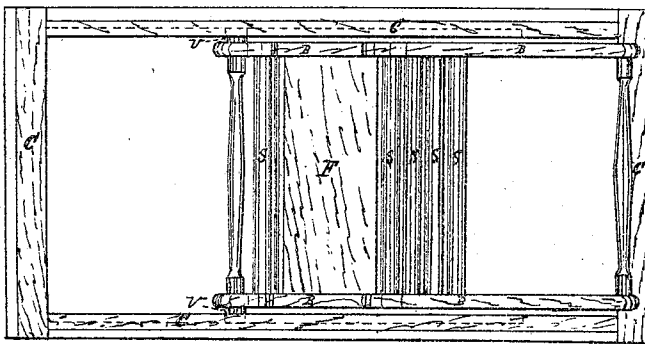
O. SNELL & A. S. SNELL.

Improvement in Washing-Machines.

No. 128,187

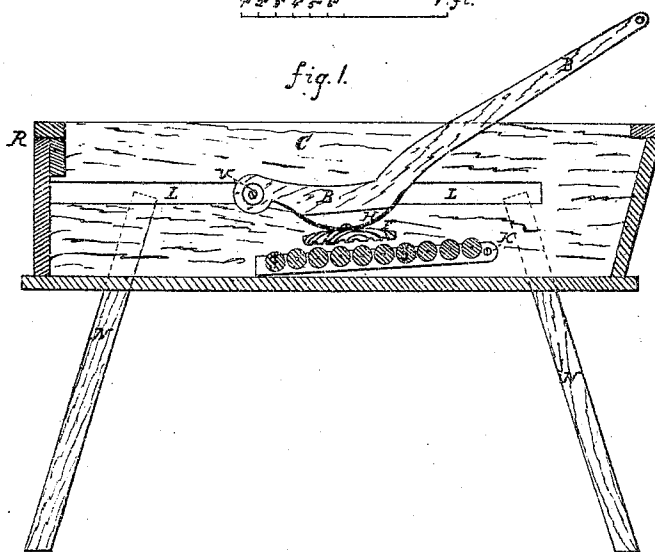
Patented June 18, 1872.

fig. 2.



1 2 3 4 5 6 1 ft.

fig. 1.



Witnesses:

Byron Williams.
Peter W. Snell.

Inventors:

Oscar Snell.
Hinsworth S. Snell.

UNITED STATES PATENT OFFICE.

OSCAR SNELL AND AINSWORTH S. SNELL, OF WILLIAMSBURG, OHIO,
ASSIGNORS OF ONE-HALF OF THEIR RIGHT TO JOSEPH BOYD, OF
SAME PLACE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 128,187, dated June 18, 1872.

Specification describing certain Improvements in Washing-Machines, invented by OSCAR SNELL and AINSWORTH S. SNELL, of Williamsburg, in the county of Clermont and State of Ohio.

The objects of this invention are to furnish a machine in which the rubbing mechanism shall have a more elastic hold on the clothes than formerly, and at the same time dispense with all such complications as treadles, springs, and eccentrics to raise the rubber from the same while washing; arranging the incline of the roller-bed relative to the rubbing-lever, to give a motion the least tiresome to hands and arms, and allow it to be used as a common wash-board if required; also, attaching the rub-board to the lever by means of the springs in such manner that it will conform itself more nearly to irregularities, and permit the springs to have the requisite tension for violent rubbing.

In the accompanying drawing, Figure 1 is a vertical longitudinal section directly through the center of the machine, showing the conformity of the springs, rubbing-lever, and position of the bed of rollers. Fig. 2 is a top or plan view, showing better the construction of the rubbing-lever.

Similar letters of reference indicate corresponding parts.

C represents the water-box or tub, which is elevated to a convenient height by the legs N. S are rollers making an inclined roller-bed whose ends are pivoted into the side pieces that are supported by means of screw or pin at K and the bottom of the water-box C. F is the clothes-rubber. H is the spring by which the rubber is attached to the lever B. V V are rollers attached to the sides of the lower ends of the rubbing-lever. They run in grooves or slots cut in the sides of the box at L. R is the rear end of the box, showing construction adapted to receive a wringer. The rubbing-lever B consists of two side pieces, into which, at the sides, near the ends, are tenoned the cross-pieces, the one at the upper end to be used as a handle and the lower one to brace the lever and receive the screw upon which turn the guide rollers V that run in the

slots or grooves L. There are two half-elliptic springs, one at each end of the rub-board, their ends being attached to the under side of the side pieces of the rubbing-lever, their centers attached to the upper side of the rub-board by means of one screw, better to allow it to conform to all kinds of clothes. The rollers V are made of cast-iron or other suitable material. They are fastened to the sides of the rubbing-frame or lever by means of screws of about one-quarter of an inch diameter, which act as journals.

The clothes to be washed are placed upon the bed of rollers, and a reciprocating motion, with a gentle downward pressure, is given to the rubbing-lever, which carries the rubber F with the clothes over the rollers. They, turning on their journals, allow an easy passage, while at the same time the rollers V are rolling in the grooves at the side of the box, and acting as fulcrums for the rubbing-lever while in the act of washing. The rubbing-lever can be taken out of the box by lifting it to a perpendicular position, and turn it either to the right or left, which will slip the rollers out of the grooves. The box can then be used to rinse in without the interference of any of the rubbing-mechanism. If required, the bed of rollers can be turned upon the fastening-screw at K against the front of the box, and be used as a wash-board in hand-washing.

What we claim as new, and wish to secure by Letters Patent, is—

1. The combination of the reciprocating rubbing-frame or lever B, half-elliptic springs H, and corrugated rubber F with the other parts of the machine.

2. The combination of the grooves L, rollers V, and inclined roller-bed, for the purpose described.

3. The combination of the bed of rollers with the other parts of the machine, as shown and described.

OSCAR SNELL.
AINS WORTH S. SNELL.

Witnesses:

BYRON WILLIAMS,
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