

S. RUSSEL.
Washing-Machine.

No. 202,475.

Patented April 16, 1878.

FIG. I.

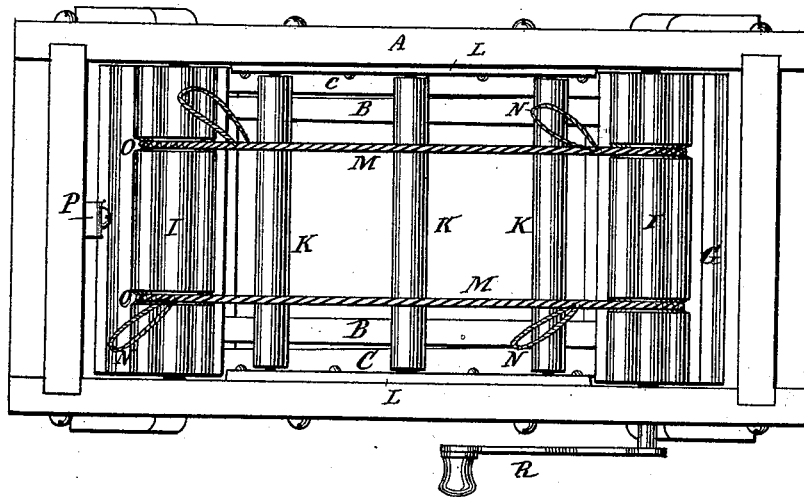
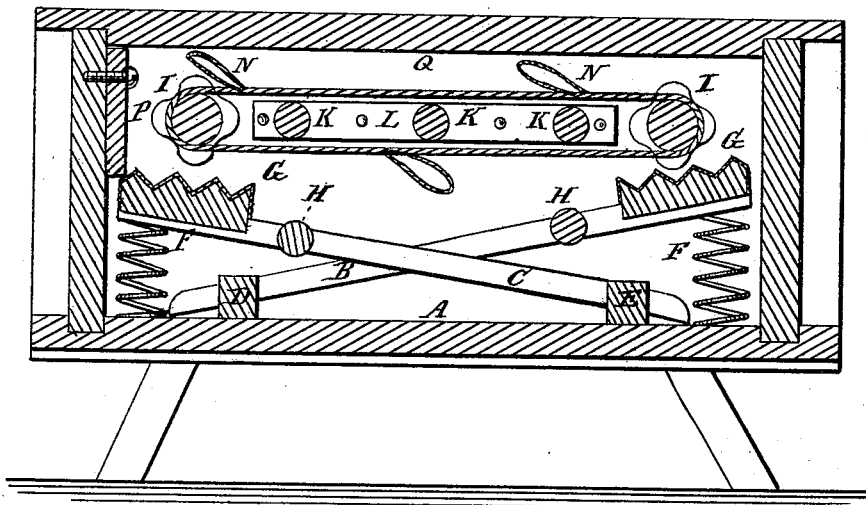


FIG. II.



WITNESSES:

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Frank L. Peley

INVENTOR.

Samuel Russell.
By *Theodore Mungen,*
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UNITED STATES PATENT OFFICE.

SAMUEL RUSSEL, OF LEWISVILLE, ASSIGNOR OF ONE-HALF HIS RIGHT TO
ALFRED COX, OF SPICELAND, INDIANA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **202,475**, dated April 16, 1878; application filed
February 12, 1878.

To all whom it may concern:

Be it known that I, SAMUEL RUSSEL, of Lewisville, in the county of Henry and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 is a plan view of the machine, the lid being removed; and Fig. 2 is a sectional elevation, showing the internal mechanism in section.

This invention has relation to washing-machines; and consists in the improvements in the construction of the same hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawing similar letters of reference indicate like parts of the invention.

A box or tub, A, is mounted on legs to give it convenient height for ready manipulation. Reciprocating frames B C, having bearings at the ends of the cross-pieces D E secured to the bottom of the box A, are supported at their outer ends by vertical spiral springs F, located between the projecting ends of the side pieces of the said frames and the ends of the box A, there being a spring, F, in each corner, and carry wash-boards G and rollers H. Corrugated rollers I, having stationary bearings in the sides of the box A, are placed one over each wash-board G. A series of rollers, K, have their bearings in strips L fixed to the inside of the sides of the box A between the rollers I. Endless cords M, having loops N, run over the rollers I in grooves O made in the same. A button, P, is placed at one end of the box A, and may be turned to come in contact with the wash-board, for the purpose of creating a space between the wash-board and the roller I, when desired. A cover, Q, is provided for the box A, to prevent the water from splashing out when the machine is in operation. The shaft of one of the rollers I is extended beyond the outside of the box A, and receives a crank, R, by which the machine is operated.

The operation of the machine is as follows: The tub A should be partially filled with water, care being taken that the wash-boards be not submerged. The pieces of clothing to be washed are inserted in the loops N on the endless cords M, and the crank turned to cause the pieces to be carried around the rollers I. While between the wash-boards the pieces will be drawn through the water, and will afterward be passed between the wash-boards and the rollers I, where they will be both compressed and rubbed by the rollers and wash-boards. The reciprocating wash-boards, in connection with the corrugated rollers, compress the water from the clothing when it passes between them, and with it the dirt that may be in it, while the corrugations rub it, similarly to the common wash-board operated by hand, so that by repeatedly passing the clothes between them the former will be thoroughly washed. The series of rollers K permit the clothing to be carried from one roller, I, to the other without sagging the cords M, and the rollers H facilitate the passage of the clothes to the wash-boards and rollers I. The crank may be turned in either direction. Where heavy pieces of clothing are to be washed, and it is desired to use only one roller, I, and one wash-board, the button P may be turned against the other wash-board, to create a space between it and the roller I, to permit the clothing to pass through without being acted upon by the corrugations of that roller and wash-board.

Having thus described my improvements, what I claim as new and useful, and desire to secure by Letters Patent, is—

In a washing-machine, the button P, in combination with the reciprocating wash-board G and corrugated roller I, substantially as and for the purpose set forth.

In testimony that I claim the foregoing improvements, as above described, I have hereunto set my hand and seal this 4th day of February, 1878.

SAMUEL RUSSEL. [L. s.]

Witnesses:

ROBERT M. RUSSEL,
W. L. HOUSTON.