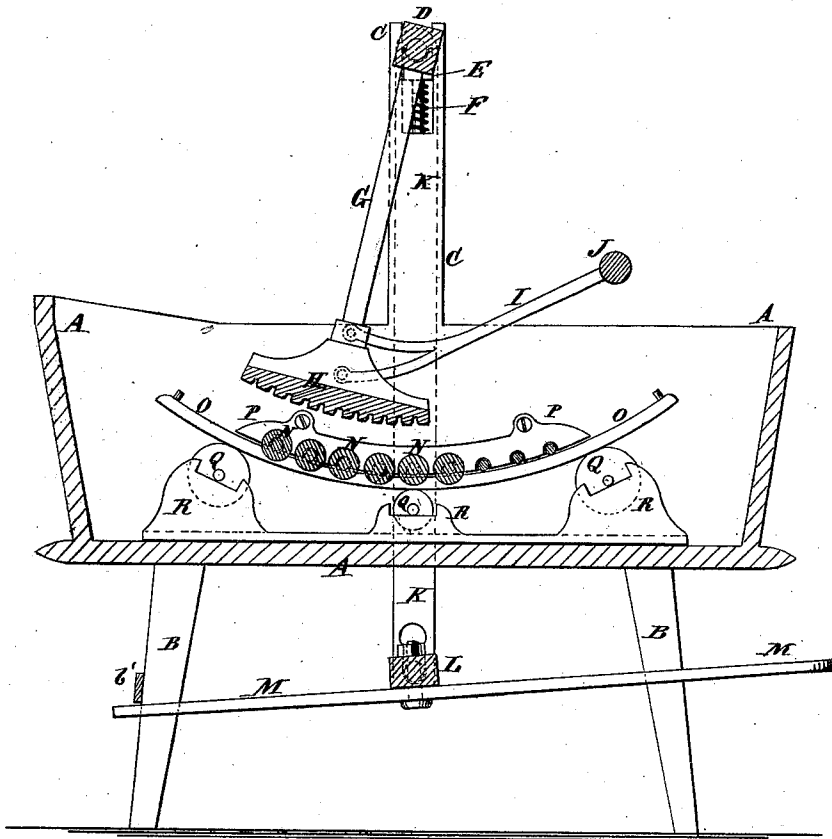


WASHING-MACHINE.

No. 177,570.

Patented May 16, 1876.



WITNESSES:

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INVENTOR:

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BY

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UNITED STATES PATENT OFFICE.

THOMAS SAULT, OF NEW HAVEN, ASSIGNOR TO WILLIAM CHURCH, OF WEST HAVEN, CONNECTICUT.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **177,570**, dated May 16, 1876; application filed January 15, 1876.

To all whom it may concern:

Be it known that I, THOMAS SAULT, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Washing-Machine, of which the following is a specification:

The figure is a vertical section of a washing-machine to which my improvement has been applied.

The object of this invention is to improve the construction of washing-machines of that class in which the clothes are rubbed upon a bed of rollers, to cause all of said rollers to revolve at the same time and in the same direction to prevent the clothes being operated upon from gathering into a heap or roll, and thus being imperfectly washed.

The clothes to be washed are spread out upon the concaved bed of parallel rollers N, the journals of which rest upon the bars O, which are curved upon the arc of a circle. The rollers N are kept from contact with each other, and in their proper relative positions, by the saddle-plates P, the lower sides of which are curved upon the arc of a circle concentric with the arc of the bars O, and are notched to receive the journals of the said rollers N. The saddle-plates P are attached to the sides of the suds-box A. Each of the curved bars O rests upon the faces of three rollers, Q, the journals of which work in long notches or slots in the blocks R, attached to the suds-box A. The bearing notch or slot

for the center roller is horizontal, and those for the outer rollers are inclined, as shown in the figure, so that the bars O may move in the arcs of their circles, or nearly so. With this construction, when a sliding pressure is applied to either of the rollers N, the journals of the said roller will move the bars O, which bars will turn the journals of all the other rollers N, causing all the rollers N to revolve at the same time and in the same direction, which keeps the clothes spread out upon the rollers N, and keeps them from being collected into a heap or roll. This effect is mainly due to the long notches or slots in which the journals of the rollers Q revolve, and which changes the sliding friction of said journals into a rolling friction and enables the curved bars O to be moved by the friction of the journals of the roller N, which friction would not be sufficient to move said bars O if the journals of the rollers Q revolve in holes.

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

In a washing-machine having a series of parallel rollers, N, the combination of movable bars O, notched saddle-plates P, and fixed supporting-rollers Q, the construction and combination being and operating as described.

THOMAS SAULT.

Witnesses:

CLARA E. LEETE,
WILLIAM CHURCH.