

T. MUIR.
WASHING-MACHINE.

No. 179,336.

Patented June 27, 1876.

Fig. 1.

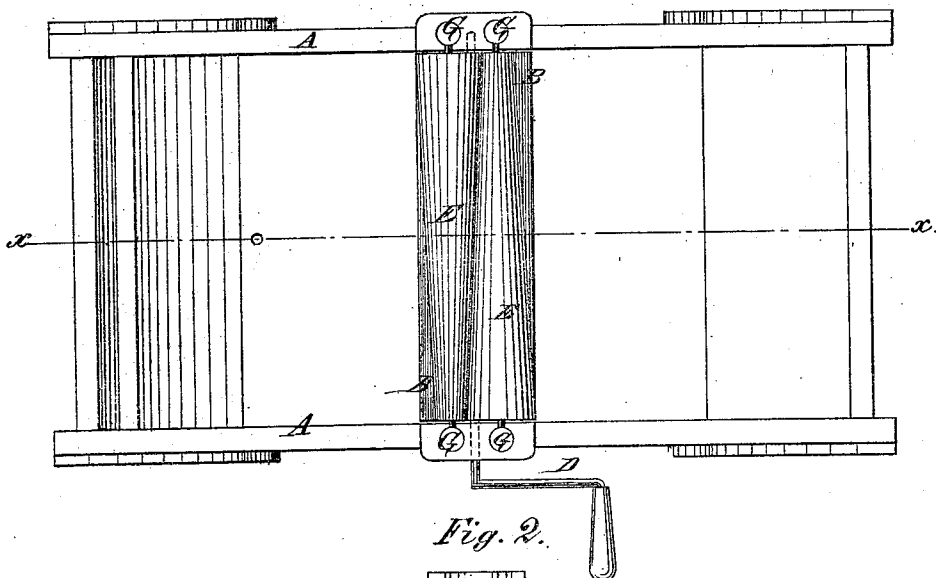
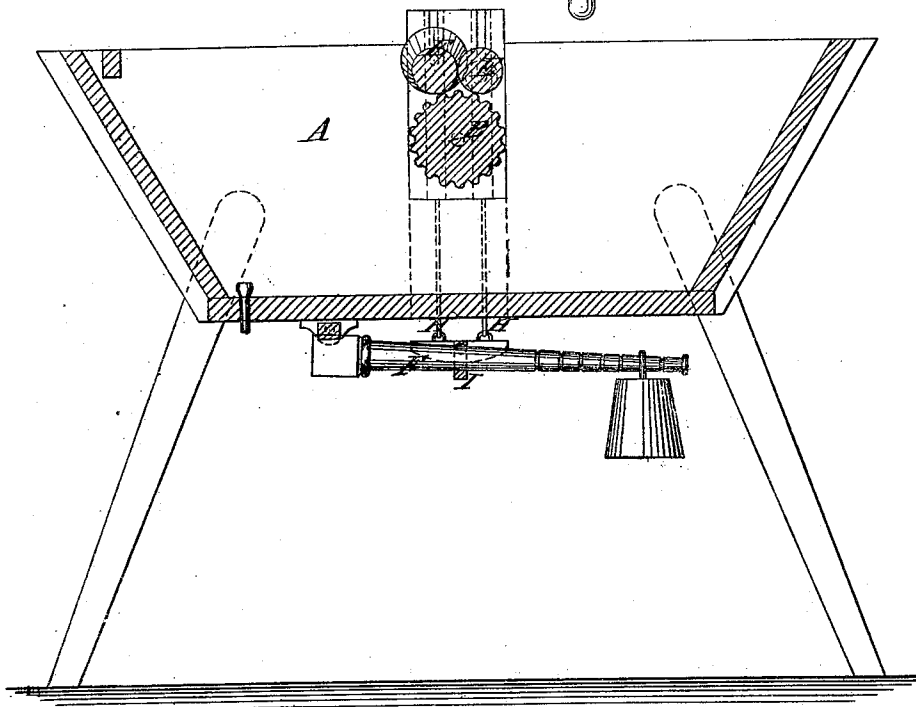


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THOMAS MUIR, OF ANDES, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **179,336**, dated June 27, 1876; application filed April 25, 1876.

To all whom it may concern:

Be it known that I, THOMAS MUIR, of Andes, Delaware county, New York, have invented a new and Improved Washing-Machine, of which the following is a specification:

My improvement in washing-machines consists of a couple of conical rollers arranged side by side, and reversed as to their tapers, on a fluted roller, and pressed down upon it by a lever and weight or other suitable means, the said rollers being arranged horizontally across the middle portion of a tub, so that the clothes can be drawn up from and be delivered back into the tub in working the machine.

By the conical form a rubbing action is effected, and by the use of two reversed conical rollers the clothes are made to pass straightly through the rolls.

Figure 1 is a plan view, and Fig. 2 is a longitudinal sectional elevation, of my improved machine.

A represents the tub; B, the fluted or grooved roller extending across it in the upper part, and

being fixed in bearings in the sides, and having a hand-crank, D, for turning it. E E represent the conical rollers located on the fluted roller, and pressed down on it by a weighted lever, F, to which the bearing-blocks G are attached by rods H and the cross-bars I.

The weight can be shifted along the lever to vary the pressure, as may be desired.

The surface-speed of the rollers E varies according to their taper, so as to effect a rubbing action on the clothes, thus making the machine very efficient, notwithstanding its simplicity.

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

The combination, in a washing-machine, of the vertically-adjustable conical rollers E with the fluted bottom roller B, substantially as and for the purpose set forth.

THOMAS MUIR.

Witnesses:

JAS. F. SCOTT,

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