

F. M. MYERS.
Washing-Machine.

No. 159,603

Patented Feb. 9, 1875.

Fig. 1

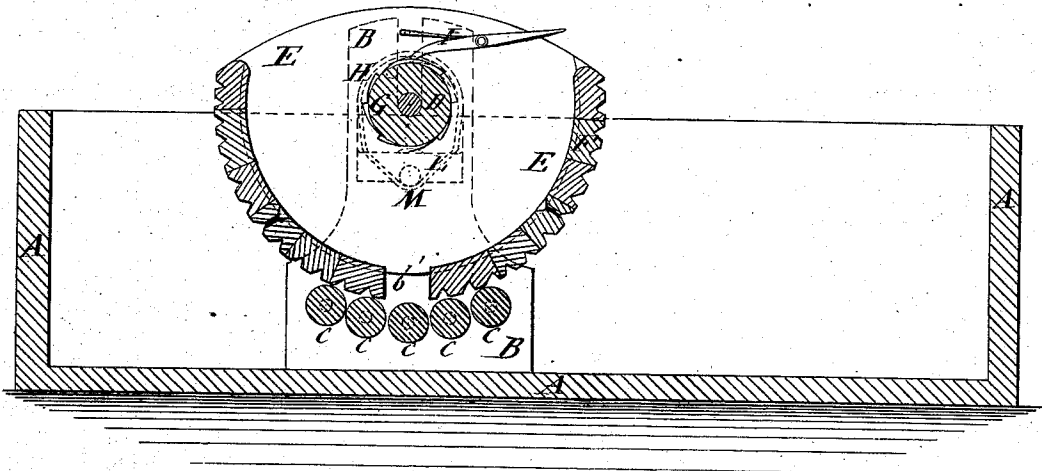
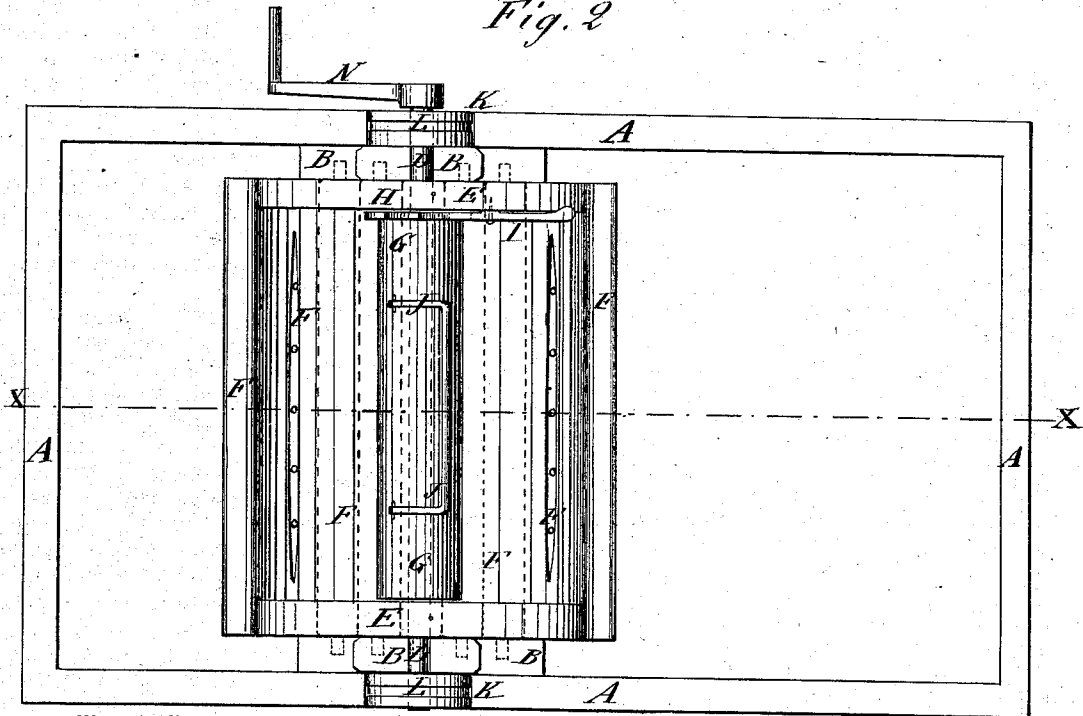


Fig. 2



WITNESSES:

C. Nevins
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INVENTOR:

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UNITED STATES PATENT OFFICE.

FRANCIS M. MYERS, OF WINDSOR, MISSOURI.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **159,603**, dated February 9, 1875; application filed November 30, 1874.

To all whom it may concern:

Be it known that I, FRANCIS M. MYERS, of Windsor, in the county of Henry and State of Missouri, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification:

Figure 1 is a vertical longitudinal section of my improved washing-machine, taken through the line *xx*, Fig. 2. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The invention relates to the combination of a roller, to which clothes are attached, a semi-cylindrical oscillating rubber, provided with a slot, through which the clothes pass, and resting upon a roller-bed, or equivalent surface, as hereinafter described.

A represents the suds-box of the machine, to the sides of which are attached two standards, B, the lower parts of which are made wider, and have five, more or less, small rollers, C, pivoted to them in the arc of a circle. The upper ends of the standards B are slotted longitudinally to receive the shaft D, to which, at the inner sides of the standards B, are attached two disks, E, which are made a little larger than semicircles, and have cross-bars F attached to the circular parts of their edges. The cross-bars F are corrugated longitudinally, and are placed close together, a narrow space, *f'*, being left between the two middle cross-bars, as shown in Fig. 1. Upon the shaft D, between the disks E, is placed a roller, G, to one end of which is attached a ratchet-wheel, H, upon the teeth of which the engaging end of a pawl, I, pivoted to the disk E, takes hold, and which is held against the ratchet-wheel H by a spring. To the roller G are pivoted the ends of a metallic loop, J, as shown in Fig. 2. The shaft D passes through blocks or bearings K, which are placed in vertical slots in the upper edges of the sides of the box A. The upper edge of the blocks K is rounded off, and their top and side edges are grooved to receive the elastic bands L, which also pass around pins M, attached to the standards B,

and which project through the lower parts of the slots in the sides of the suds-box A beneath the bearing-blocks K. The blocks K, which may be made cylindrical, if desired, bands L, and pins M enable the rubber D E F to yield, to accommodate itself to the varying thickness of the clothes being operated upon.

In using the machine the end of the clothes is passed through the opening *f'*, between the cross-bars F, and beneath the loop J. The rubber D E F is then oscillated by means of a crank, N, attached to the end of the shaft D. When one side of the part of the clothes being operated upon has been sufficiently rubbed the rubber is turned once around in such a direction as to reverse the position of the clothes between the rubber and the roller C, and the rubber is again oscillated. When this part of the clothes has been sufficiently rubbed the roller G is turned to roll the washed part of the clothes upon it, and another part is operated upon. When the article has been wholly washed it is detached and another is applied.

I am aware it is not new to provide a sector-shaped corrugated rubber with a slot, through which the clothes may be passed; but in such case the clothes have been fed downward by a roller suitably arranged contiguous and parallel to the axis of the rubber, and thus carried out between the friction-surfaces into the surrounding space or into the tub. There is hence a material difference of construction and of function, correspondingly.

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

The combination, with the roller-bed C, of the semi-cylindrical rubber E, having slot *b*, the crank-roller G, loop J, and pawl and ratchet I H, as shown and described, to operate as specified.

FRANCIS M. MYERS.

Witnesses:

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M. L. STAFFORD.