

W. M. ROWLAND.
Washing-Machines.

No. 140,435.

Patented July 1, 1873.

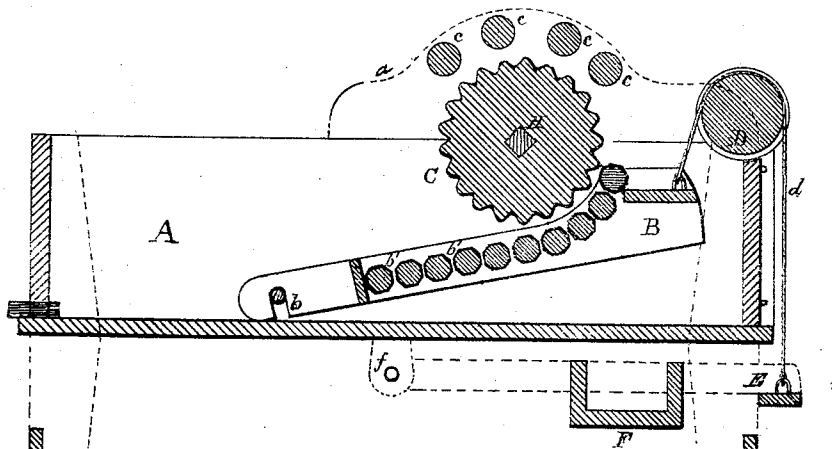


Fig. 1.

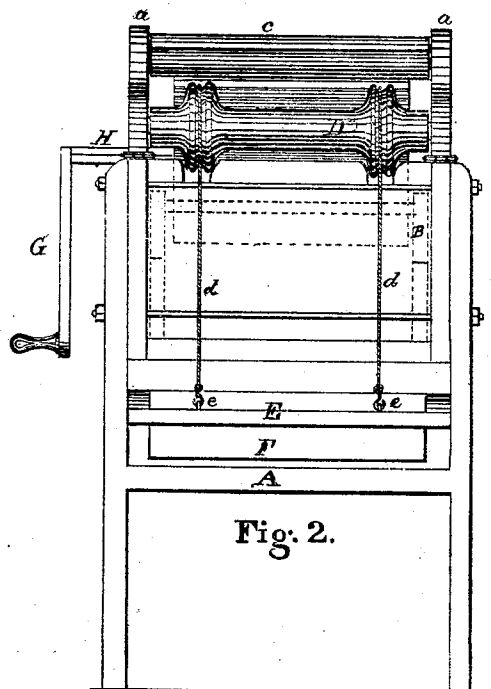


Fig. 2.

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UNITED STATES PATENT OFFICE.

WILLIAM M. ROWLAND, OF TYLER, TEXAS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **140,435**, dated July 1, 1873; application filed May 26, 1873.

To all whom it may concern:

Be it known that I, WILLIAM M. ROWLAND, of Tyler, in the State of Texas, have invented a new and useful Improvement in Washing-Machines, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 is a longitudinal vertical section, and Fig. 2 is an end view of the machine.

My invention has reference to that class of washing-machines known as self-regulating machines; and consists in the arrangement for controlling at will the amount of pressure to be used, in combination with the construction of the feed and washing rollers.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

The water-box A is made of any desirable height and length. The wash-board B, at its lower end, rests upon the bottom of wash-box, and is secured by pins working snugly in the slots *b*, Fig. 1. The upper portion of the wash-board curves to about one-quarter of a circle on its face, (see Fig. 1,) and is suspended by the cords *d d*, which pass over the pulley-roller D, (see Fig. 2,) and which are secured at *e e* to the rack E, which holds the weight-box F, as shown in Fig. 1. The body of the wash-board B consists of a series of revolving rollers, which I usually construct octagonal that the angles may have a pressing-surface when coming in contact with the clothes to be washed. These rollers have proper bearings in each side of the frame of the wash-board B, and revolve closely together, as shown in Fig. 1, during the process of washing. The cylindrical fluted roller C is placed across the wash-box, having proper bearings on each side and above the wash-board B, so that the corrugations on the roller will mesh into the octagonal rollers of the wash-board at its curved surface, as shown in Fig. 1. The roller C is turned by means of

the crank G, and has no vertical play. The wash-board B is brought up against the roller C by means of cords *d* and the weight which may be placed in the weight-box F, which, bearing on the outer ends of the cords, causes them to raise the wash-board up to the roller C.

It is evident that the pressure of the wash-board upon the roller depends upon the amount of weight placed in the box F attached to the rack E, the rear end of which is secured by the rod *f*, as shown in Fig. 1.

It is evident that as the clothes to be washed are fed between the wash-board and the fluted roller C the machine will be self-regulating and self-adjusting to the work to be performed.

On the water-box, and over the large fluted cylinder C, is frame *a* having the rollers *c c*, and secured to the frame of the box by hinges or any other suitable means. The pulley-roller D may have its bearings in this frame, as shown in Fig. 2. Over the rollers *c c* the clothes to be washed may be regularly fed, and thus avoid choking the machine and secure good work in the washing.

By means of the fluted cylinder and the octagonal rollers the finest clothes may be washed without injury, the desired pressure being secured in the manner already described. The machine is equally good for rinsing and washing clothes.

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

In a self-regulating washing-machine, the fluted cylinder C; in combination with the curved-face wash-board B, constructed with the octagonal rollers *b' b'*, the cords *d d*, the pulley-roller D, the rack E, and weight-box F, all constructed and arranged as and for the purpose described.

WILLIAM M. ROWLAND.

Witnesses:

W. S. HERNDER,
SAURIN ROBERTSON.