

W. S. SPALDING.
Washing-Machines.

No. 152,575.

Patented June 30, 1874.

Fig. 1

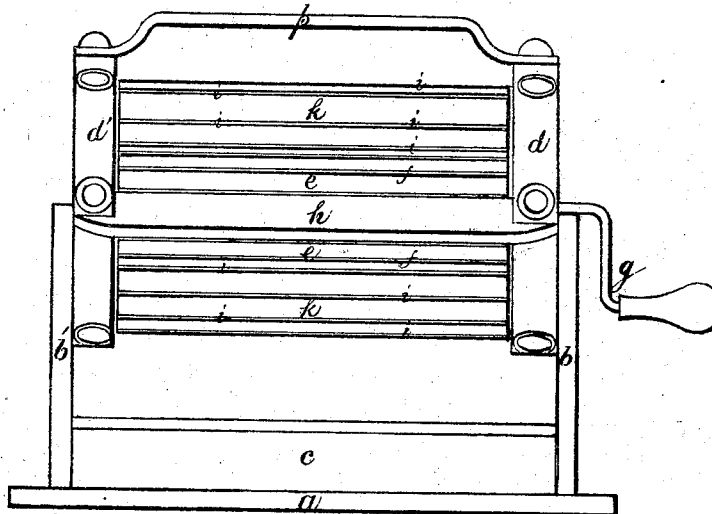
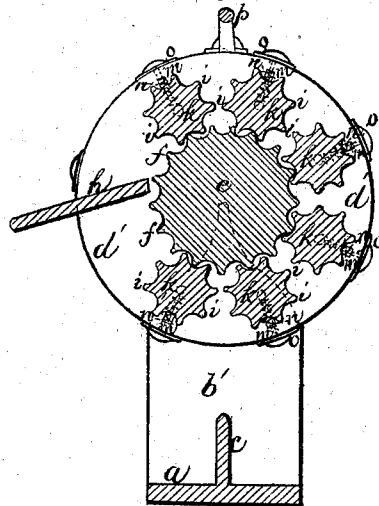


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

WALTER S. SPALDING, OF WALPOLE, NEW HAMPSHIRE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 152,575, dated June 30, 1874; application filed September 17, 1873.

To all whom it may concern:

Be it known that I, WALTER S. SPALDING, of Walpole, in the county of Cheshire and State of New Hampshire, have invented certain Improvements in Washing-Machines, of which the following is a specification:

Figure 1 of the accompanying drawing is a front view, and Fig. 2 is a central transverse vertical section, of my improved washing-machine.

This invention relates to that class of washing-machines in which a series of spring-rollers are arranged to bear on a central roller, the whole being revolved together by a crank on the central roller; and it consists mainly in the combination of the rollers with a suitable frame adapted to be placed in a tub, said frame having an inclined shelf, which prevents the water from splashing, and constitutes a wash-board, as I will now proceed to describe.

In the drawings, *a* represents the bottom of a stand, consisting of two uprights, *b b'*, one at each end, connected at the bottom by a longitudinal vertical brace, *c*. To the upper portion of the uprights *b b'* are attached circular or other-shaped standards *d d'*, which receive the ends of the axle of a central longitudinal roller, *e*, whose periphery is corrugated so as to form longitudinal teeth *f*. The axle of the roller *e* extends through one of the standards, and is provided with a crank, *g*. Attached to the standards *d d'*, and projecting forward of it, is a sloping board or shelf, *h*. The standards *d d'* also receive the ends of the axles of a series of rollers, *k*, which partly surround the central roller, and whose outer peripheries are corrugated to form longitudinal teeth *i*, with which mesh the teeth *f* of the central roller *e*. The standards *d d'* are formed with slots *m*, to receive and allow the play of spiral or other springs *n*, held on stems *o*, extending

through the circumference of the standards *d d'*, or otherwise secured and arranged to bear upon the axles of the rollers, so as to allow of their yielding to accommodate the passage of various-sized articles between the rollers. Attached to the top of the standards *d d'* is a handle, *p*.

The operation of my invention is as follows: The machine being placed in a tub, or sink, or other receptacle, so that the lower rollers enter the water, and the article or articles to be washed being introduced between the central and outer rollers, below the board or shelf *h*, the central roller is turned by means of the crank *g*, and its teeth meshing with the teeth of the rollers *k* causes the latter to revolve and carry the articles to be washed through the water and between the central and outer rollers, by whose revolution the said articles are deposited on the top of the board or shelf *h*, which protects the person from the splashing of the water, and allows a space for rubbing clean any wristband, collar, or other portion of an article that may not have been thoroughly cleansed during the operation of the machine.

Having thus fully described my improvement, what I claim as my invention, and desire to have secured to me by Letters Patent, is—

The circular standards *d d'*, supported by the uprights *b b'*, and united by the horizontal inclined shelf *h*, in combination with the rollers *e k*, all arranged and operating substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALTER S. SPALDING.

Witnesses:

HENRY A. HITCHCOCK,
LUCIUS B. WRIGHT.