

W. H. FREED.

Washing-Machines.

No. 136,050.

Patented Feb. 18, 1873.

Fig. 1.

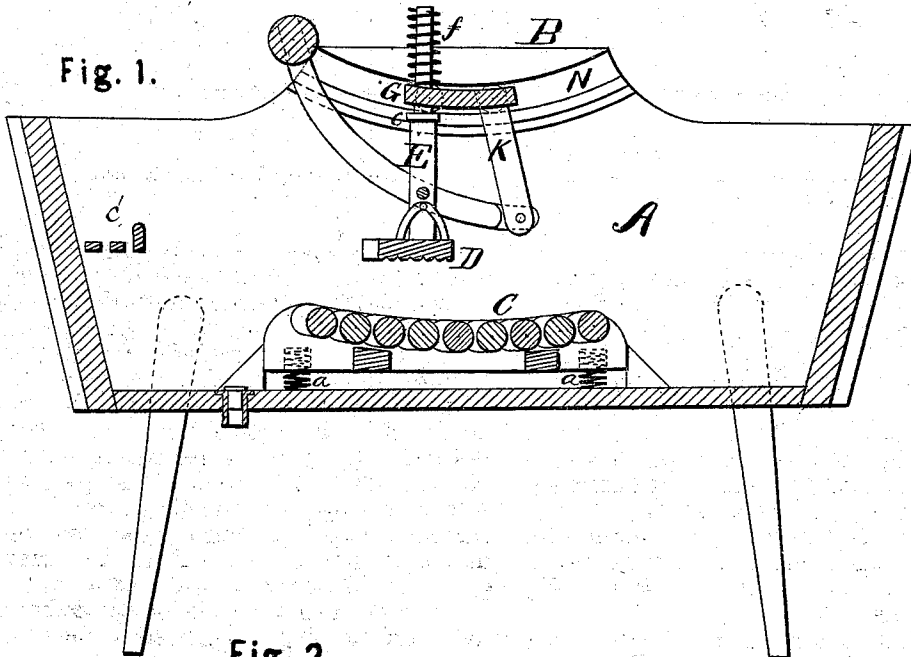


Fig. 2.

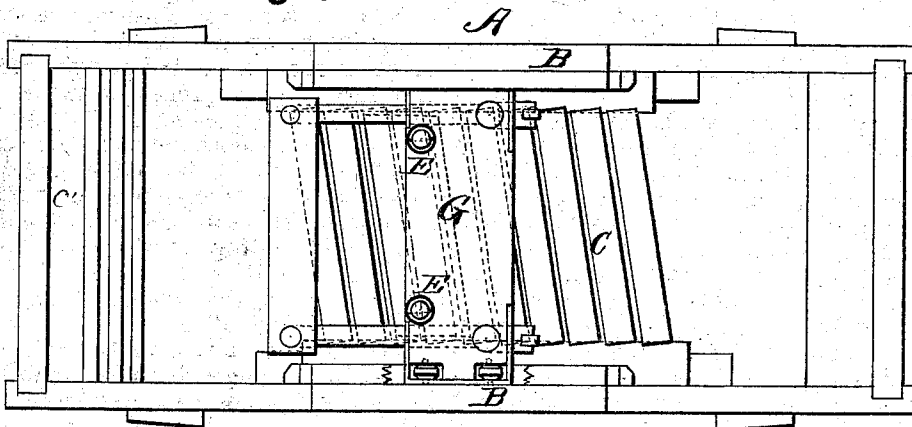
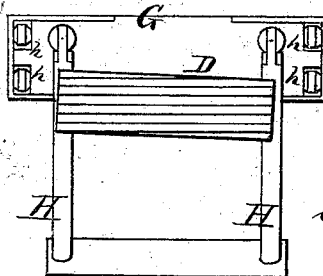


Fig. 3.



WITNESSES.

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INVENTOR.

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UNITED STATES PATENT OFFICE.

WILLIAM H. FREED, OF SIOUX CITY, IOWA, ASSIGNOR OF ONE-HALF HIS
RIGHT TO DAVID M. McKNIGHT, OF SAME PLACE.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **136,050**, dated February 18, 1873.

To all whom it may concern:

Be it known that I, WM. H. FREED, of Sioux City, in the county of Woodbury and State of Iowa, have invented a new and valuable Improvement in Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical longitudinal section of my invention. Fig. 2 is a plan view of the same. Fig. 3 is a detail view.

My invention has relation to washing-machines; and consists in the novel construction and combination of the curved guide-slots, traveling-block, springs, and hinged operating bars, hereinafter described and claimed.

A of the drawing represents the box of an ordinary washing-machine, having raised central parts, as shown at B, and transverse bars C'. These bars serve as soap-holders. C represents a series of washing-rollers arranged upon the bottom of the box, as shown, and supported by the springs *a*. D represents my washing or rubbing block, which is usually corrugated on its lower surface. Both the rollers in the bottom of the box and the corrugations on the bottom of the rubber block are arranged obliquely so as to sustain toward each other the positions shown on Fig. 2 of the drawing. E E represent standards or bars attached to the rubber block, and extending upward, as shown. These standards respectively pass through the traveling plate or block G, at the bottom of which they are constructed with a supporting-ring, *c*. The letter *f* represents a coiled spring attached to and arranged around the upper end of each of the

standards E, above the traveling-block, and resting thereon. In each end of the traveling-block G I arrange a series of anti-friction rollers, marked *h*, to aid in the movements thereof, as hereinafter stated. The letter H indicates the operating-levers, pivoted, respectively, to the posts K, which are pendent from the traveling-block. The letters N represent circular slots arranged in the raised central portion of the box, adapted to receive and provide for the movements of the traveling-block G. They may be formed by means of cleats fastened to the inner side of the box, or they may be grooved in the sides of said box, at will.

My device operates as follows, namely: The suds and clothing are placed in the box together, and the latter brought upon the rollers C. The operator then seizes the cross-bar connecting the operating-levers and moves the rubbing-block back and forth upon the soiled garments until they are properly cleansed.

By means of the hinged levers, the springs *f*, and the traveling-block moving upon anti-friction rollers in the circular slots or grooves, it is apparent that the rubbing process is made easy and rapid, without danger of obstruction from bunching or piling up of the garments upon the washing-rollers.

What I claim as my invention, and desire to secure by Letters Patent, is—

The circular grooves or slots N, traveling-block G, springs *f*, hinged lever H, combined with the rubbers C and D, constructed and arranged as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM HENRY FREED.

Witnesses:

JOHN W. CLINE,
MILTON M. REEVES.