

G. J. COLBY.
Washing-Machines.

No. 138,379.

Patented April 29, 1873.

Fig. 1.

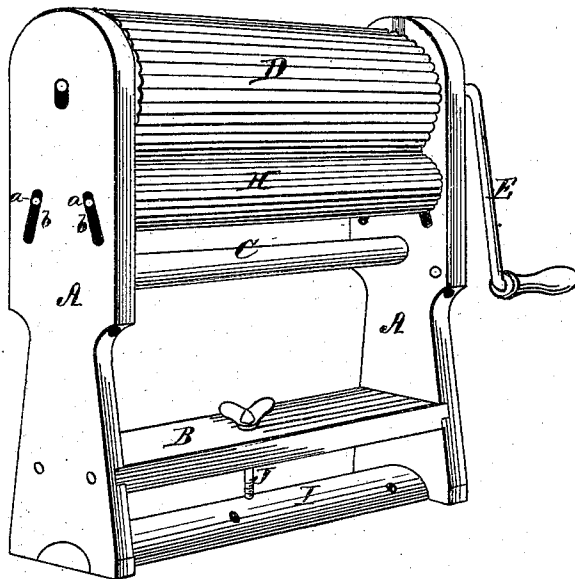
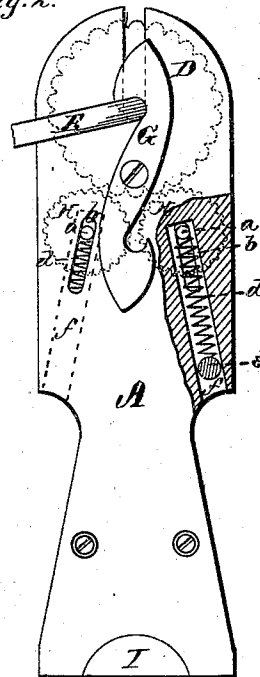


Fig. 2.



Witness:

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UNITED STATES PATENT OFFICE.

GEORGE J. COLBY, OF READING, MICHIGAN.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **138,379**, dated April 29, 1873; application filed March 21, 1873.

To all whom it may concern:

Be it known that I, GEORGE J. COLBY, of Reading, in the county of Hillsdale and in the State of Michigan, have invented certain new and useful Improvements in Washing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

My invention relates to that class of washing-machines in which a large roller with crank is arranged to revolve in contact with or near a bed of two or more smaller rollers, and in which clothes are washed by passing them between the large roll and the bed of smaller rolls. The nature of my invention consists in the construction and arrangement of a washing-machine as more fully hereinafter set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, and Fig. 2 a side elevation, partly in section, of my machine.

A A represent the end pieces of the frame, connected near their lower ends by a board, B, and a suitable distance above the same by a round, C. Near the upper end of one of the end pieces A is a short vertical slot for the insertion of one journal of the large roller D, while in the upper end of the other end piece is a slot into which the crank E drops, the inner end of said crank forming the other journal of the roller D. Upon this latter end piece is pivoted a button, G, the ends of which form hooks, as shown in Fig. 2, to fasten over the inner end of the crank E, thereby holding the upper or large roller in its position. H H rep-

resent the smaller rollers, which form the roller-bed. The journals or gudgeons *a* of the rollers H are placed in inclined slots *b* in the end pieces A, and supported upon springs *d*. These springs are placed in holes *f* made in the end pieces A, and held in the same by pins *e*, or other suitable means.

The rollers H H, whatever their number may be, are thus allowed to act independent of each other, which I consider the most essential feature in this class of machines to form a successful washer. Any number of rollers may be used, and they may be either smooth, fluted, or corrugated.

The machine thus constructed is fastened to the wash-tub by the following means: A half-round cleat, I, is fastened on the bottom of the tub, and the lower ends of the end pieces A A are cut out to fit over the same. A screw, J, is then passed through the board B into said cleat I, thereby holding the machine in place. By unscrewing the thumb-screw J from the cleat the machine can at once be lifted out of the tub.

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

The combination of the frame A B C, crank-roller D, smaller independently-operating rollers H, button-hook G, cleat I, and thumb-screw J, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 11th day of March, 1873.

GEO. J. COLBY. [L. S.]

Witnesses:

H. P. PARMELEE,
A. N. MARR.