

V. WHITE.
Washing-Machines.

No. 138,970.

Patented May 13, 1873.

Fig. 1.

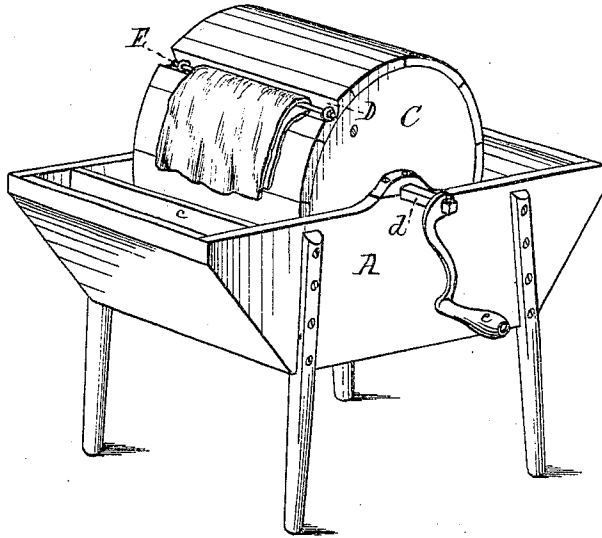
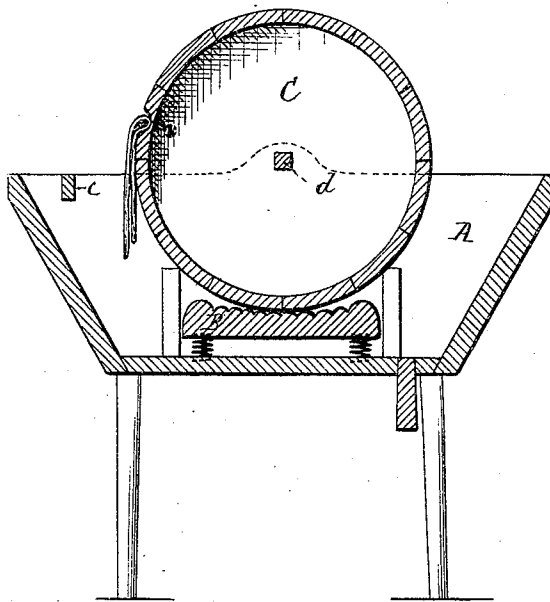


Fig. 2.



Witnesses.

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IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **138,970**, dated May 13, 1873; application filed April 4, 1873.

To all whom it may concern:

Be it known that I, VOLNEY WHITE, of Corry, Erie county, State of Pennsylvania, have invented certain new and useful Improvements in Washing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, in which—

Figure 1 represents a perspective view of my improved washing-machine, and Fig. 2 a vertical longitudinal section of the same.

Similar letters of reference indicate corresponding parts in both figures.

My invention relates to the employment, in a washing-machine, of a cylinder provided with a removable rod or rods, in combination with a concave wash or rubbing board, having a surface either corrugated or composed of rollers, arranged and operating as will be hereinafter more fully explained.

In the drawing, A represents the tub or tank constructed in any suitable manner; B the concave wash-board, composed either of a series of rollers or having a corrugated surface, as may be preferred, the latter form being shown in the drawing. This board, B, is mounted upon spiral springs *a*, secured to the bottom of tank A, and are for the purpose of allowing the said board to yield to the bulk of clothes between it and the cylinder. C represents the hollow cylinder provided with a shaft, *d*, which passes through its center, and is secured in bearings upon the sides of tank A. One end of said shaft is provided with a handle or crank, *e*. The cylinder C has upon its rim or periphery a longitudinal groove, D, in which is placed a removable rod, E, secured by eyelets, spiral springs, or other suitable devices. This rod, E, instead of being connected by loops or eyes at both ends, and thus made removable, may be hinged at one end and caught under a hook at its opposite end in such manner that it can be readily released from the hook and turned or raised upon its hinge at the opposite end and the clothing applied to or removed from the cylinder. These fastenings, when made in either form, may be made to yield to the varying thickness of the clothing or garments applied, but should be sufficiently strong to firmly hold whatever may be secured by it upon the face of the cylinder. The rods themselves may be made of either wood or metal, as preferred. *c* is a bar, extending across the tub at one

end, and affording a convenient point of support for the usual wringer attachment.

The operation is as follows: The garments or articles to be washed are secured to the face of cylinder, either singly or in any suitable quantities, by means of the rod E, and where the articles to be washed are large, such as sheets, blankets, &c., they may be folded to proper size for application to the cylinder, when the rod being secured in place over them the cylinder is rotated by handle *e*, and the garment is carried down into the tub or tank containing a suitable supply of water, &c., until it is brought upon the face of the concave rubbing-board, where a vibratory or reciprocating movement is imparted to the cylinder until the garment has been sufficiently rubbed upon one side, when, by carrying the garment or other article past the concave rubbing-bed, so as to free it therefrom, and then reversing the movement of the cylinder, the other side of such article is brought against, and acted upon by the concave, and the vibratory or reciprocating movement is repeated until the article to be washed is thoroughly cleansed, when it is again brought to the upper face of the cylinder, released or removed, and others substituted, and the operation repeated as before. The advantages of this construction are that the action produced upon the articles to be washed is made almost or quite identical with the usual hand-rubbing process, all danger of injury to the fabric is entirely avoided, and the slow and hard labor incident to the process of washing by hand is also obviated, and the usual amount of clothing constituting the washing for a family may be thoroughly cleansed in a few minutes and with comparative ease.

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

The combination of the close hollow cylinder C, having the removable rod E mounted in a groove in its face, and secured thereto by the yielding loops or staples, as described, with the corrugated spring concave B located centrally of the tub and underneath the cylinder C, all constructed, arranged, and operating in the manner and for the purpose described.

Witnesses: VOLNEY WHITE.
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