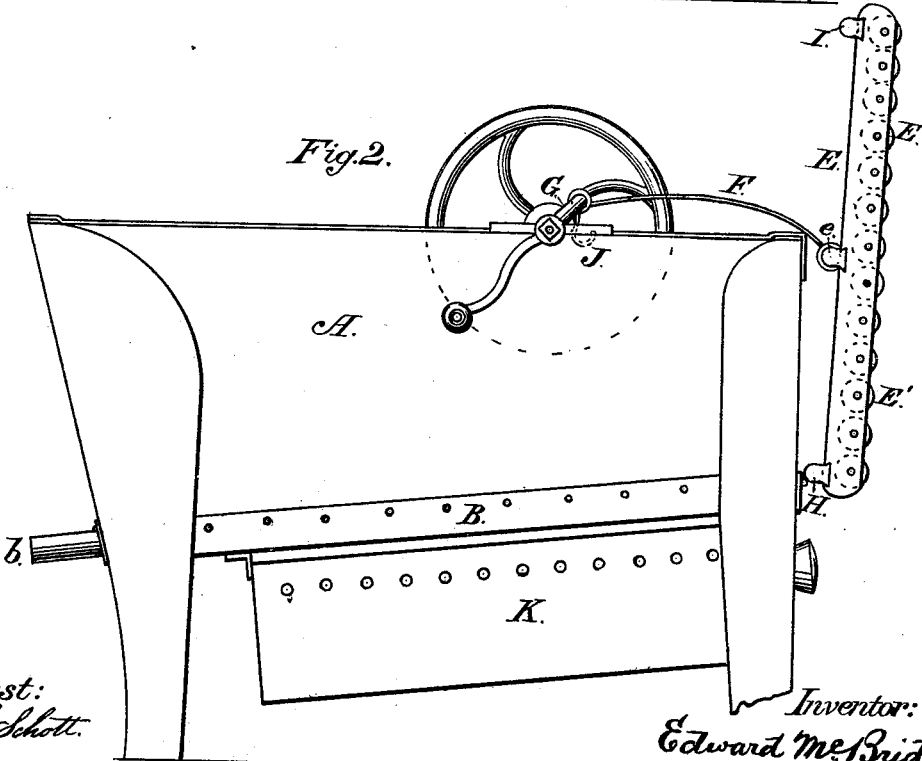
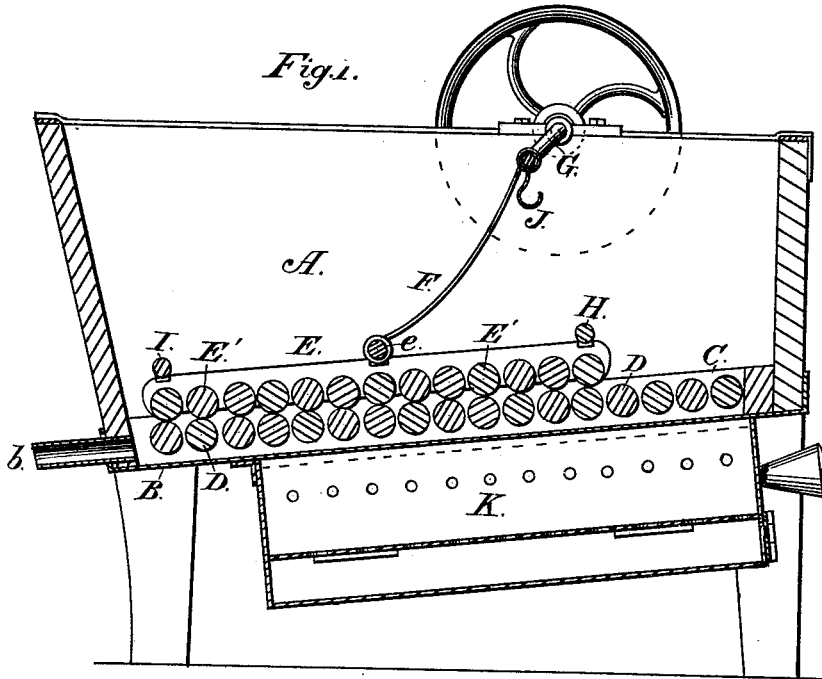


E. McBRIDE.
WASHING-MACHINE.

No. 189,481.

Patented April 10, 1877.



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Fig. 3.

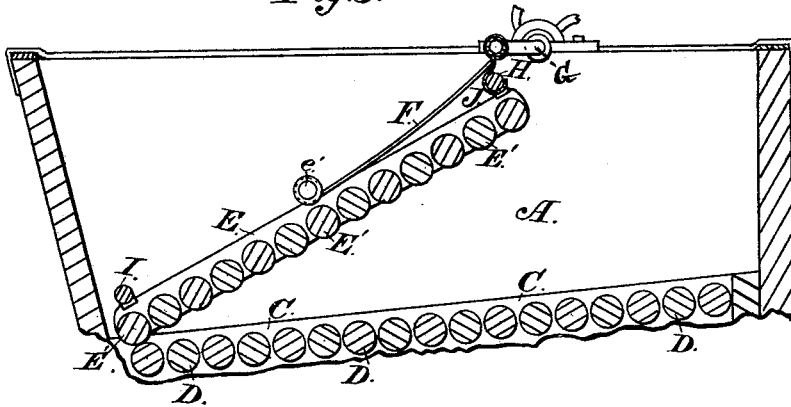
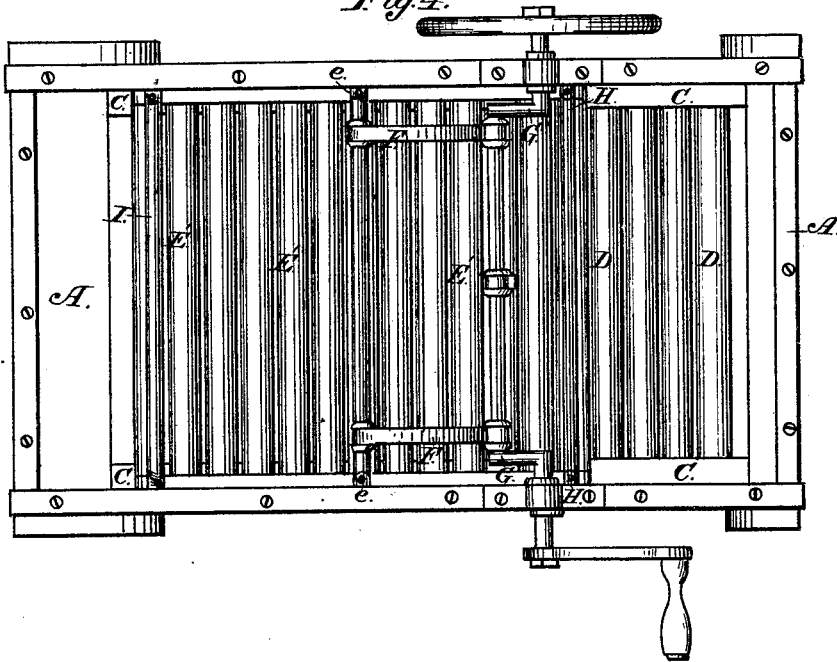


Fig. 4.



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UNITED STATES PATENT OFFICE.

EDWARD McBRIDE, OF VERMILLIONVILLE, LOUISIANA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 159,481, dated April 10, 1877; application filed January 26, 1877.

To all whom it may concern:

Be it known that I, EDWARD McBRIDE, of Vermillionville, in the county of La Fayette and State of Louisiana, have invented certain new and useful Improvements in Reciprocating Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification:

My invention relates to reciprocating washing-machines; and consists of a novel combination and arrangement of the parts whereby the operation of washing is greatly facilitated, as hereinafter more fully and at large will appear.

In the drawings, Figure 1 represents a vertical longitudinal section of my machine in the operation of washing; Fig. 2, a side elevation of same, showing the reciprocating rubber as removed from the machine, so as to allow the removal of the lower stationary rubber; Fig. 3, a sectional view, showing the reciprocating rubber suspended or tilted up at one end and held in this position to allow placing of the clothes between the rubbers or removing them therefrom; Fig. 4, a plan view of the machine.

A is a chest or box of any desired or appropriate size, made of wood, provided with metal bottom B, which inclines or pitches slightly toward the rear, and is there provided with spigot *b*.

In the interior of the case A, lying on the bottom B, is a wooden frame, C C, within which is secured a number of hard wooden rollers, D, which constitute the lower rubber. These rollers D are made rigid and stationary in the frame C. The entire frame containing these rollers, however, may be removed from the case A, when desired, as it is not secured in the case, but simply lies therein. E E' is the top reciprocating rubber, consisting of a number of hard wooden rollers, E', journaled in a metallic non-corrosive frame, E. F F are two pitmen or arms connecting from the central cross-bar *e* of the rubber frame E, with the crank-shaft G, whereby reciprocating

motion is imparted to the rubber. Across the front and rear of the rubber frame E are bars or cross-braces H I, which strengthen the frame, and also serve as a means by which the reciprocating rubber is suspended, as hereinafter will appear. At the central part of the crank-shaft G is secured a swinging hook, J, which engages under the cross-bar H of the reciprocating frame E, and suspends and holds it in the position, as shown in Fig. 3. K is a furnace secured to the under side of the box or case A.

The operation of the parts is as follows: Fire is first started in the furnace, and the water in the box A heated. The front of the reciprocating rubber E E' is then raised and secured by hook J engaging under the bar H. The clothes may then be placed between the rubbers, and the operation of washing then proceeded with by turning the crank-shaft G, the rubber having been first disengaged from the hook J and lowered into position. This crank-shaft G, through the medium of arms F F, reciprocates or draws back and forth the top rubber E E', and at the same time slightly lifting and pressing it upon the clothes, thus rubbing and squeezing them between the top and bottom rubbers. Thus, the clothes are quickly and thoroughly cleaned, and in a very simple and easy manner.

To remove the lower frame or rubber C D the top rubber E E' is lifted by the rear cross-brace I and carried over the front of the box A, as shown in Fig. 2. The frame may then be removed from the box by raising up and drawing it out.

To remove the clothes from the box or machine the reciprocating rubber E E' is placed in the same position as that for placing the clothes in, viz., by tilting the front end up and securing it by hook J, as shown in Fig. 3.

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

1. In combination with the lower stationary rubber C D, the top reciprocating rubber E E', with cross-bars *e* H I, secured at its central portion to arms F F, connecting with the crank-shaft G and hook J, all constructed and arranged as described, for the purposes specified.

2. The washing-machine herein described, consisting of case A, lower rubber C D, with stationary rollers, top reciprocating rubber E E', with revolving rollers, crank-shaft G, pitman-arms F F, cross-bar H, and hook J, all constructed and arranged to operate substantially as and for the purposes described.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

EDWARD McBRIDE.

Witnesses:

CHARLES P. ALPHA,
C. A. MOUTON.