

(No Model.)

L. O. CAMERON.
WASHING MACHINE.

No. 261,806.

Patented July 25, 1882.

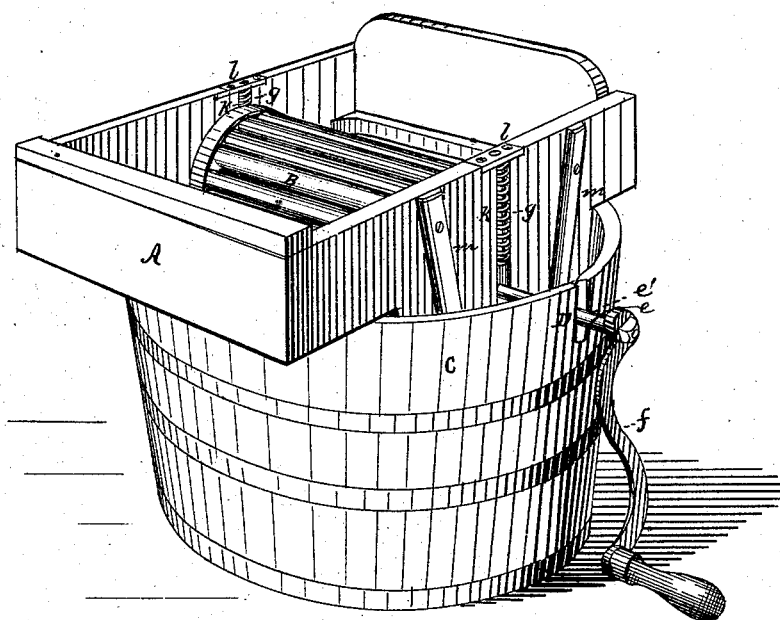


Fig. 7.

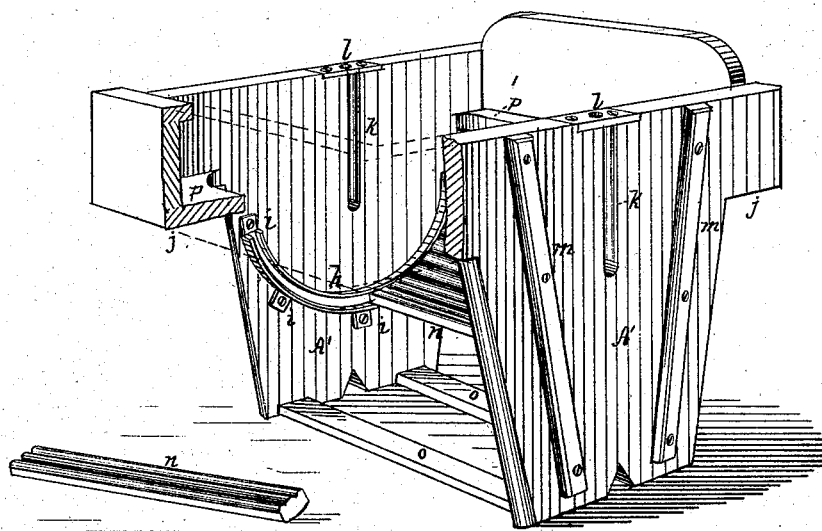


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

LEWIS O. CAMERON, OF BELLEVUE, PENNSYLVANIA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 261,806, dated July 25, 1882.

Application filed October 24, 1881. (No model.)

To all whom it may concern:

Be it known that I, LEWIS O. CAMERON, of Bellevue, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to certain new and useful improvements in the class of washing attachments especially designed for use in connection with the ordinary wash-tub; and the invention consists in novel features of construction and combination and arrangement of parts, all as will be hereinafter fully described, and specifically pointed out in the claim.

To enable others skilled in the art with which my invention is most nearly connected to make and use it, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of my specification, Figure 1 is a perspective view of the rubbing mechanism as arranged in the ordinary wash-tub. Fig. 2 is a perspective view of the frame of the rubbing mechanism, representing a portion broken away.

In the accompanying drawings, which form part of my specification, A represents the frame, in which are recesses or slots *k* for the reception of the spiral springs *g*, which springs are held in said slots by means of caps *l*. The slots *k* also serve as bearings for the axis *e* of the rubbing-cylinder B, which is of ordinary construction. The lower end of the side pieces, A', of the frame A is braced by means of bars *o o*, and on the side of said side pieces, A', are diagonal strengthening-bars *m m*. The tub C is provided with a slot, *e'*, for the axis of the rubbing-cylinder, on the outer end of which axis is secured an operating-crank, *f*. On the inner side of the side pieces, A', is secured, by means of screws *i*, grooved segments *h* of a circle, for the reception of corrugated strips *n* for forming the concave of the rubbing mechanism. The frame A is provided with

drip-boards P P, for conveying back the water thrown up by the rubbing-cylinder B. The segments *h* should be made of brass or other alloy, or of cast-iron suitably galvanized, so as to prevent rusting. The spiral springs *g*, pressing upon the axis *e* of the rubbing-cylinder B, will give it the necessary frictional force upon the clothes placed between it and the concave formed by the pieces *n*. The side pieces, A' A', of the frame A are cut away, as shown at *j*, Fig. 2, by which the frame is adapted to rest and be supported on the top edge of the tub, and also beveled off or made tapering toward the bottom or lower end of the frame, as shown at *r*, Fig. 2, to correspond to the usual tapering form of the tub. The adaptation of the rubbing mechanism to the ordinary wash-tub is clearly shown in Fig. 1; and when said mechanism is separated from the tub, as shown in Fig. 2, the advantage of cleaning and drying it will be apparent without further description.

The manner of constructing the concave hereinbefore described admits of the removal of the corrugated strips *n* when they become unduly worn by simply removing the worn-out strips *n* and substituting new ones in their place, which change of strips may be accomplished with ease and facility by means of the grooved segments *h*.

Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention is—

The detachable washing attachment consisting of the frame A, having tapering side pieces, A' A', cut away at the points *j*, and having slots *k k* and springs *g g* located therein, grooved segments *h h*, detachable corrugated strips *n*, and fluted or corrugated roller B, provided with journal or axis *e*, having hand-crank *f*, the several parts constructed and relatively arranged to operate substantially in the manner herein shown and described.

L. O. CAMERON.

Witnesses:

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