

(No Model.)

A. SCHEFF.  
WASHING MACHINE.

No. 273,611.

Patented Mar. 6, 1883.

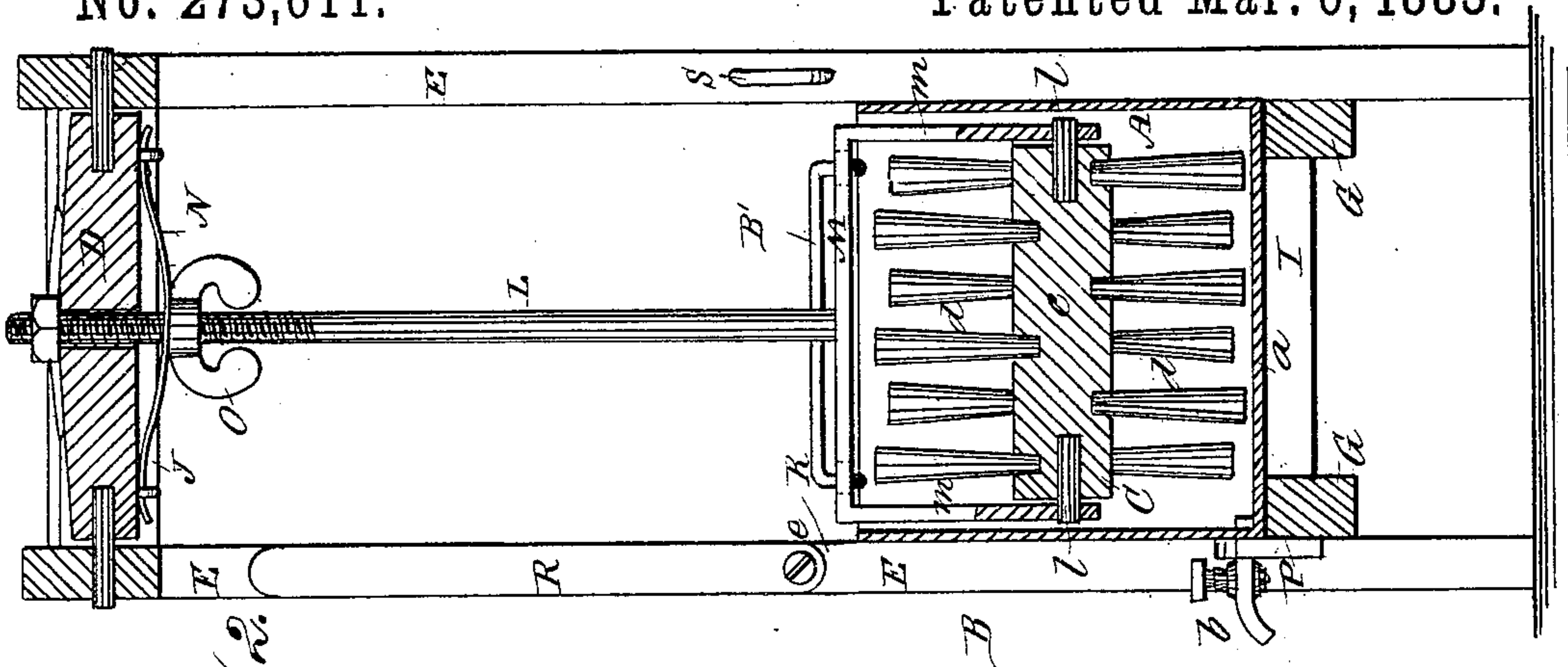


Fig. 2.

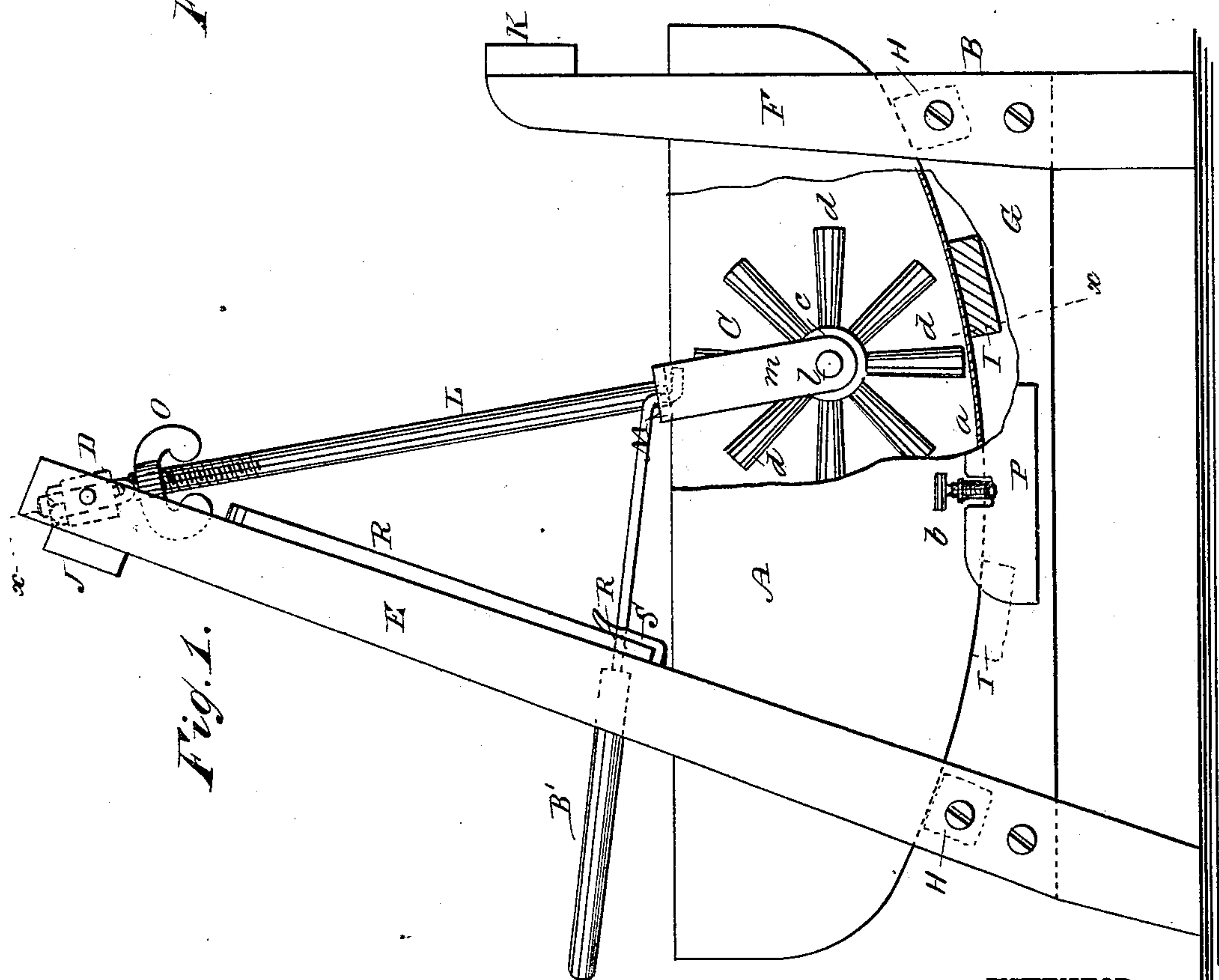


Fig. 1.

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# UNITED STATES PATENT OFFICE.

ANDREW SCHEFF, OF CLEVELAND, OHIO.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 273,611, dated March 6, 1883.

Application filed October 17, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ANDREW SCHEFF, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and Improved Washing-Machine, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a broken side elevation of my new and improved washing-machine; and Fig. 2 is a sectional elevation of the same, taken on the line *xx* of Fig. 1.

My invention will first be described in connection with the drawings, and then pointed out in the claims.

The letter A in the drawings represents the wash-tub. B represents the frame in which the tub is supported, and C represents a heavy washing or pounding roller, which is suspended from the cross-bar D, pivoted between the upper ends of the slanting uprights E E of the frame, and is adapted to have a swinging pendulum movement imparted to it for washing the clothes in the tub by power applied to the handle B'.

The tub A is made of galvanized iron, and the bottom *a* thereof is made concaved, as shown in Fig. 1, the same being by preference struck on a circle of about eight feet radius, and at one side, near the bottom, the tub is provided with the cock *b*, for drawing off the water, suds, &c., from the interior of the tub.

The frame B is composed of two uprights, F F, concaved side bars, G G, end cross-pieces H H, (shown in dotted lines, Fig. 1,) intermediate cross-pieces, I I, and the said slanting uprights E E, which latter are tied together at their upper ends by the cross-piece J. The upper ends of the uprights F F extend above the tub A, and attached to them, above the tub, is the board K, to which the wringer may be attached. The length and slant of the uprights E E are such that the pivoted cross-bar D is held over the center of the tub, so that the washing-roller C will be held about in the center of the tub by the rod L, which passes through and is adjustable in the pivoted cross-bar D, as shown clearly in Fig. 2.

The washing or pounding roller C is com-

posed of the cylinder *c* and the pins *d*, set radially therein, as shown in the drawings, and the roller is attached to the lower end of the rod L by means of the yoke M, and is pivoted upon the pins *ll*, in the members *mm* of the yoke, as shown. The radial pins *d* are enlarged at their outer ends, so that in washing they will effectually rub, pound, and squeeze the clothes without tearing or otherwise injuring them. The pressure of the roller C upon the clothes placed in the tub is regulated by means of the spring N, the ends of which come against the under side of the cross-bar D, and the thumb-screw O, which is adapted to be turned up or down upon the rod L, for compressing the spring more or less, as desired.

The tub A is held from longitudinal movement in the frame B by means of the notched plate P, which is secured to one of the concaved side bars, G, so that the cock *b* rests in the notch, as shown in Fig. 1.

R is a cross-piece, pivoted at *e* to one of the slanting uprights E, and S is an open hook driven into the other upright E, at about the same height as the pivot *e*. The bar R may be turned on its pivot across the tub A, so that its free end will rest in the hook S, or it may be turned to an upright position, as shown in the drawings.

In operation, the clothes to be washed are placed with a suitable quantity of water in the tub A, and then, by applying the hand to the handle B', the roller C is to be reciprocated back and forth in the tub. The roller, weighing about sixty pounds, and being held down with a considerable pressure by the spring N, and swinging in a circle, causes the enlarged ends of the pins *d* to act as pounders in passing over the clothes, and serving at the same time to press and squeeze the clothes between them and the concaved bottom *a*, causing the dirt to be removed very rapidly, and without tearing or otherwise injuring the clothes. After the clothes in the tub have in this manner been rubbed clean the roller C is to be drawn back to the rear end of the tub, and there held by swinging the bar R across the tub in front of the rod L and into hook S, so that the roller will not interfere with the passing of the clothes from the tub to and through the wringer previously attached to the board K. The washed

clothes having been passed through the wringer, another supply of dirty clothes is placed in the tub and the operation repeated. The wringer, after being once attached to the board  
5 K, need not be removed; nor need the person using the machine put her hands in the water, as the water can be drawn off through the cock *b* before wringing, so that very hot water may be used in washing, if desired; nor need  
10 the person using the machine stoop in reciprocating the rod L and roller C, as the machine is of sufficient height to enable her to stand perfectly upright, thus greatly lessening the fatigue and personal discomfort of the work;  
15 and the tub A, being made of galvanized iron, will not shrink, as wood will, and is much more durable.

It will be noticed that the handle B' is forked to engage apertures in the yoke M, at both

sides of the bar L, which enables the operator 20 to properly guide the roller C sidewise as it is reciprocated in the tub by the handle.

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

1. A washing-roller consisting of cylinder C, carrying end-enlarged pounders *d*, arranged at intervals about said cylinder, as shown and described.

2. The combination, with the side bar, G, of 30 the notched plate P and the cock *b* on the tub, whereby said tub is prevented from moving longitudinally, as described.

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Witnesses:

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