

Washing Machine,

Patented Apr. 30, 1867.



Gybranus D. Locke.
Marly E. Williams.



Darius Williams.

United States Patent Office.

DARIUS WILLIAMS, OF ROCK COUNTY, WISCONSIN.

Letters Patent No. 64,268, dated April 30, 1867.

IMPROVED WASHING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, DARIUS WILLIAMS, of Rock county, and State of Wisconsin, have invented a new and useful improvement in Washing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and the letters of reference marked thereon, the same letters of reference in each figure representing the same parts.

The nature of my invention consists in a wash-board composed of slats attached to side-pieces that rock on their centre, alternately raising and depressing each end thereof when the roller passes over it, as the machine is operated, allowing a free escape of water from the board and clothes being washed, whereby the process is greatly facilitated, both as to rapidity of the work and the thoroughness of cleansing; also in mechanism for operating a roller that passes over the wash-board, whereby it may be operated by turning a crank, or by a vibrating movement without revolving the crank.

Figure 1 is an elevation of my machine.

Figure 2 is an elevation, with one side broken away to show the interior mechanism.

Figure 3 is a vertical view of the mechanism without the wash-board; and

Figure 4 is a vertical view of the wash-board inside the box part of the machine, with the working mechanism removed.

A and B are the sides, C and D the ends, E and E' are the legs, F is the bottom, G and G' are the standards, that receive the rock-shaft I, that receives easily the round parts of the pieces K and K', that rise and fall as the machine is worked. Near the lower end of K and K', and between them, the roller R is pivoted; while the parts L L', M, and N, form a framework for operating the roller by means of the rod O, that is formed in the shape of cranks having bearings in standards J and J'. O' is a crank and a part of O, or attached thereto, and used to operate the roller and wash-board either by turning it round and round, which causes the roller to travel the entire length of the wash-board, or by vibrating it partly in a revolution the roller is made to travel only a part of the length of the board. The same result of a short distance of traversing the wash-board is produced by grasping the rod O between the parts L and L' of the framework, although this does not give as great lever power as the crank O'. The parts S and S', forming the sides of the wash-board, have ends *d d*, with slats *c c c*, &c., of any desired shapes, as round or octagonal, fastened to the sides S and S'. On the bottom F is fastened the bar T, by means of screws *b b*, or in other suitable manner. The ends of T are made round at *e*, to secure the saddle formed in the side-pieces S and S'. These sides are formed in an angle substantially as shown, so that when the roller is carried past the centre of the wash-board, as shown, the right-hand end of the wash-board rocking on the pivots *e*, falls to the bottom F, and in like manner when moved to the left, past the centre or point of pivoting at *e*, the left-hand end of the wash-board tilts downward, and its opposite end rises. This movement of the rollers over the clothes, and the tilting alternately of the ends of the wash-board, as described and shown, give a kind of rinsing process at the same time the washing is progressing, the lifting the end of the wash-board, with the clothes thereon, causing the water to recede from them, and receiving the roller, pressing the end of the wash-board and the clothes downward, causing a double process, viz, washing and partially rinsing at the same time, whereby the thoroughness of the washing is secured and the work done more rapidly. To keep the suds from spattering, lids Q with knobs P and P' may be used.

Having described the mode of making and operating my machine, what I claim as my invention, and desire to secure by Letters Patent, is—

1. The tilting wash-board composed of parts S and S' and slats *c*, in combination with part T and bearings *e*, when both are constructed and used substantially as and for the purposes described.

2. Roller R, operated by means of the framework composed of parts I, K, L, M, N, and O, substantially as described, in combination with the tilting wash-board composed of parts S and S' and slats *c*, when the whole are constructed, connected together, and operated substantially as and for the purposes described.

DARIUS WILLIAMS.

Witnesses:

MANLY E. WILLIAMS,

ABRAM D. MAXFIELD.