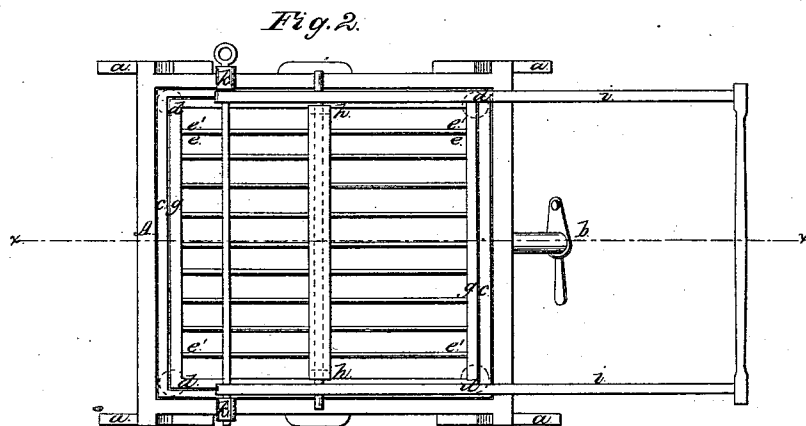
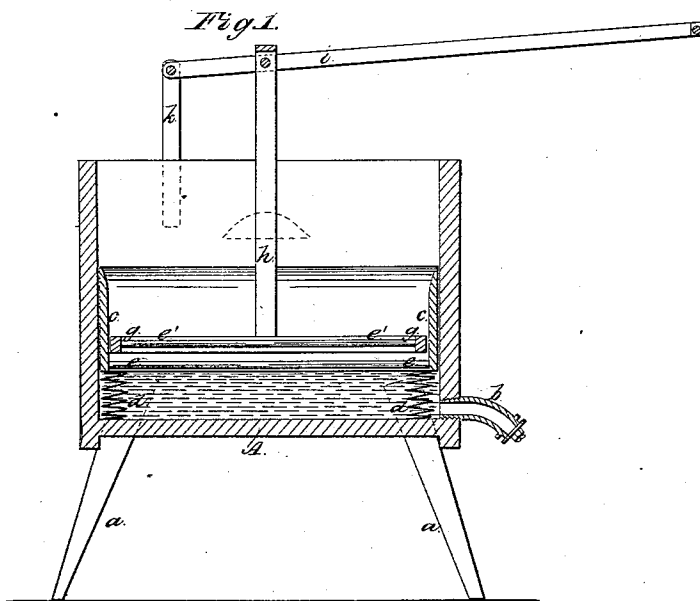


*C. M. Mack,*

*Washing Machine,*

*N<sup>o</sup> 61,673.*

*Patented Jan. 29, 1867.*



*Witnesses.*

*This Test*  
*J. A. Service*



*Inventor.*

*C. M. Mack*  
*Per Munn & Co*  
*Attorneys.*

United States Patent Office.

C. M. MACK, OF BROOKLYN, PENNSYLVANIA.

Letters Patent No. 61,673, dated January 29, 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, C. M. MACK, of Brooklyn, in the county of Susquehanna, 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, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of my improved washing machine, taken in the plane of the line *xx*, fig. 2.

Figure 2 is a top or plan view of the inside of the machine.

Similar letters of reference indicate like parts.

This invention relates to an improvement in washing machines, and consists in the arrangement of a horizontal rack-frame, fitted to move up and down vertically within a box, with the contraction and expansion of springs, on which the frame rests; the bottom of said frame being formed of a series of open slats, upon which the clothes to be washed are placed, when another rack-frame or follower, formed also of open slats, is forced down upon the clothes by a lever to which it is attached, squeezing the clothes evenly between the slat racks of the two frames, alternately raising them in the air and plunging them in the suds by the action of the springs under the lower frame, and thus effectually cleansing them with but little labor by operating upon the principle of compression and repeated immersion, which avoids the excessive friction and consequent wear and tear of the fabric caused in ordinary washing machines working upon the principle of rubbing.

A is a square wooden box, standing on suitable legs, *a a*, and provided with a faucet, *b*, at the bottom. Within the box A is nicely fitted to move freely a square frame, *c*, deep enough to hold a parcel of clothes to be washed, and resting on spiral springs, *d d*, in each corner of the box A, so that when the springs are expanded the bottom of the frame *c* shall be so far above the bottom of the box A as to admit of several pails of water being put in the box under the frame. The bottom of the frame *c* is a rack of open slats, *e e*, running across, a little way only apart. A follower or rack-frame, *g*, is fitted to move up and down freely within the frame *c*, in which are corresponding slats, *e' e'*, which lie directly over the slats *e e* in the frame *c*. when the two frames are together, as shown in fig. 2. The follower *g* is suspended by two opposite side arms, *h h*, to a hand-lever frame, *i i*, which is hung upon uprights, *k k*, placed on the upper part of the box A; and the arrangement is such that, by lowering the lever-frame *i i*, the follower *g* will bear upon the frame *c*, and push it down upon the springs *d d*, and compress them; and, by raising the lever-frame *i i*, the follower *g* will allow the frame *c* to rise by the expansion of the springs *d d*. The follower *g* may also be lifted entirely out of the box A by elevating the lever-frame *i i*, and throwing it over to the opposite side of the box, in order to place a lot of clothes within the frame *c* to be washed, by operating the lever-frame in the manner just described.

For washing, sufficient suds are put in the box A to leave an air space of an inch or two below the rack-frame *c*. The clothes are then placed within the frame *c* and the follower *g* pressed down upon them with the lever-frame *i i*, the repeated movement of which, up and down, squeezes the clothes between the rack-frame and the follower, and presses them down into the suds in such manner that the suds and air are forced through the texture of the fabric, and the dirt is entirely expelled therefrom.

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

The rack-frame *c*, placed on the springs *d d* in the box A, in combination with the follower *g*, operated by the lever-frame *i i*, arranged and operating substantially as and for the purposes herein described.

C. M. MACK.

Witnesses:

D. A. TITSWORTH,

A. W. KENT.