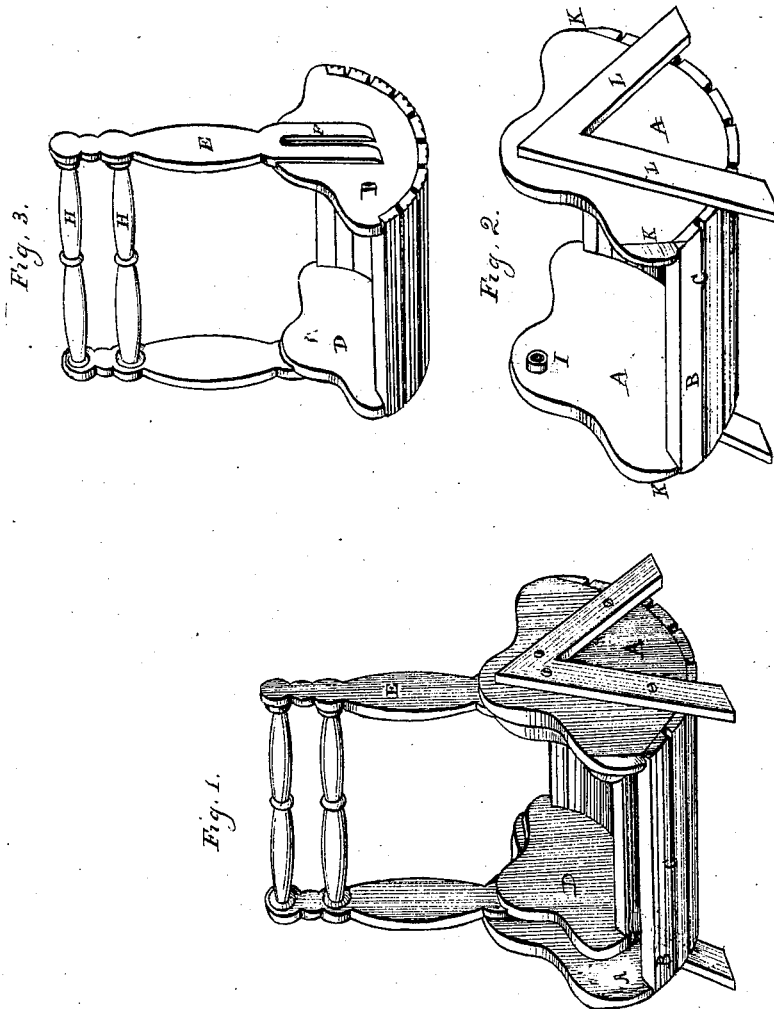


*P. Hayden,*  
*Washing Machine.*  
*No. 107,488.      Patented Sept. 20. 1870.*



*Witnesses,*  
*H. G. Daniels*  
*J. B. Hester*

*Peter Hayden Inventor, by*  
*Chas. D. May Attorney at Law*

# United States Patent Office.

PETER HAYDEN, OF PITTSBURG, PENNSYLVANIA.

*Letters Patent No. 107,488, dated September 20, 1870.*

## IMPROVEMENT IN WASHING-MACHINES.

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, PETER HAYDEN, of Pittsburg, in the county of Allegheny and in the State of Pennsylvania, have invented a new and Improved Washing-Machine; and do hereby declare that the following description, taken in connection with the accompanying drawing, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

My invention relates to that class of washing-machines in which fluted-rubbers are made use of, and its nature consists in certain modifications in the details of the construction of the same, by which cheapness of manufacture is secured, and convenience of operation promoted.

In the accompanying drawing, which illustrates my invention and forms a part of the specification thereof, in which corresponding parts are illustrated by similar letters—

Figure 1 is a view, in perspective, of my machine, with the parts combined ready for use;

Figure 2 is a detached view of the lower rubber; and

Figure 3, a detached view of the upper rubber.

The side pieces A A of the lower rubber have curvilinear bottoms, of the form of the arc of a circle, and are connected together by the cross-cleats B, in such a manner as to provide longitudinal apertures, c, for the free ingress and egress of water.

The upper rubber D is similar in construction to the said lower rubber, but smaller in size, and is provided with the vertical arms E, in the bottoms of which are cut the longitudinal slots F.

The said arms are secured to the outside of the end pieces of the upper rubber, and are connected by the cross-handles H.

The bearings I of the upper rubber are secured at points on the inside, and on a vertical line with the centers of the lower rubber.

In order to facilitate the fitting of the machine firmly in a common wash-tub, the edges K are shaved off, as represented in figs. 1 and 2.

The machine is supported upon the angular standards L in such a manner that the bottom of the lower rubber occupies a position within an inch or two of the bottom of the tub.

To operate the machine, the upper rubber is fitted upon its bearings, and enough water put in the tub to float the clothes in the lower rubber. The machine is then worked by the alternating motion of the handles H.

The machine is simple, durable, and light, washes rapidly and thoroughly, and requires no stooping or crank motion, the power being applied by both hands, while in a standing posture, and thus the labor of washing becomes a healthful exercise.

Having thus described the construction, operation and relative arrangement of the component parts of my invention, I will indicate what I claim as new, and desire to secure by Letters Patent, in the following clause:

I claim—

The arrangement of the lower rubber A, the corners K of which are shaved off to fit the inner periphery of an ordinary wash-tub, the angular standards L, upper rubber D, vertical arms E, handles H, slots F, and bearings I, when so constructed that the machine may be fitted firmly within a tub, as described.

In testimony that I claim the foregoing, I have hereunto set my hand this 3d day of December, 1869.

PETER HAYDEN.

Witnesses:

A. B. HAY,  
H. T. MORRIS.