C. M. BARTHOLOMEW.

Washing-Machine.

No. 211,690. Patented Jan. 28, 1879.

Fig. 1.

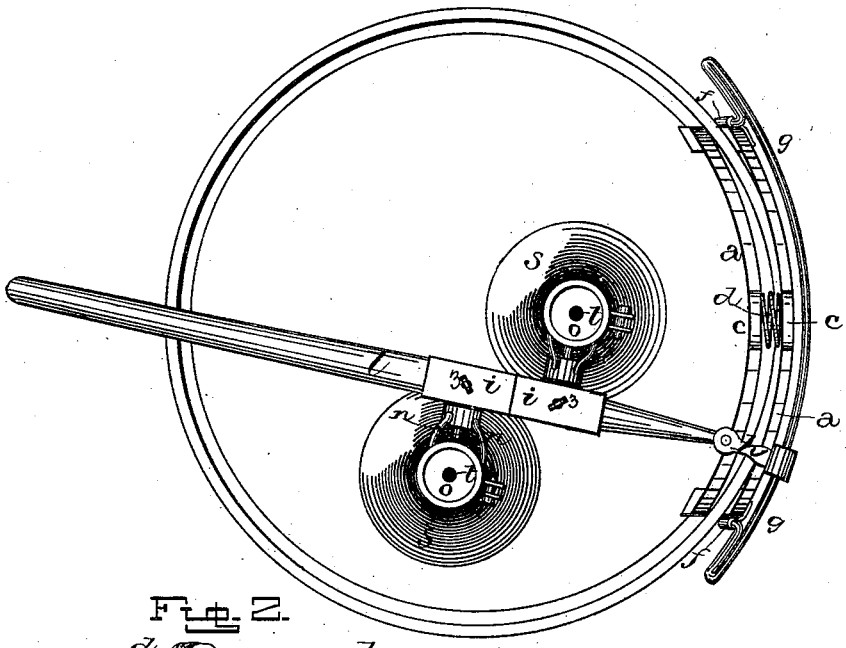


Fig. 2.

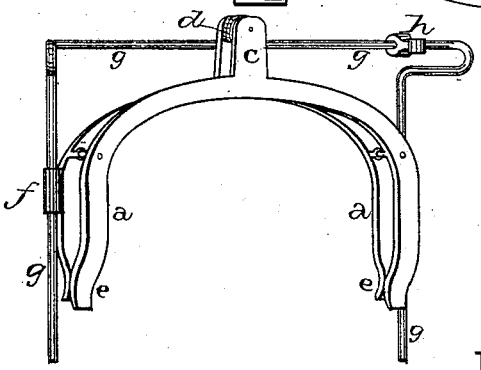


Fig. 3.

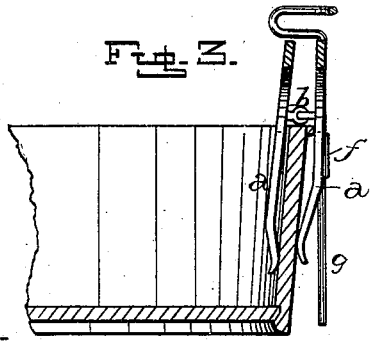


Fig. 4.

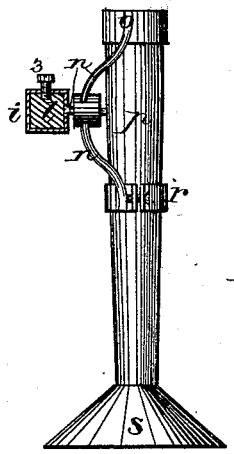
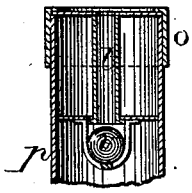


Fig. 5.



Witnesses:

J. W. Garner

W. S. D. Baines

Inventor:

C. M. Bartholomew

per

J. A. Lehmann,

Atty.

UNITED STATES PATENT OFFICE.

CHARLES M. BARTHOLOMEW, OF LOWELL, WISCONSIN.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **211,690**, dated January 28, 1879; application filed July 17, 1878.

To all whom it may concern:

Be it known that I, CHARLES M. BARTHOLOMEW, of Lowell, in the county of Dodge and State of Wisconsin, have invented certain new and useful Improvements in Clothes-Pounders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in clothes-pounders; and it consists in the arrangement and combination of parts whereby the clamp can be made to adapt itself to all tubs above a certain size, and the pounders are made adjustable back and forth upon and detachable from the handle, as will be more fully described hereinafter.

The accompanying drawings represent my invention.

Figure 1 is a plan view of my invention. Fig. 2 is a perspective of the clamp. Fig. 3 is a vertical section of the tub and clamp applied thereto. Fig. 4 is a side elevation of the washer, and Fig. 5 an enlarged detail view of the same.

a represents the two jaws which form the clamp by which the pounders are connected to the tub, and which are hinged or jointed together at *b*. Upon the upper edges of these jaws are formed the extensions *c*, between which the coiled spring *d* is placed, for the purpose of forcing the lower ends *e* tightly together, and thus making them clamp the tub between them. By thus placing the spring between the upper ends of the jaws they are made automatic in their action, so that they can be instantly applied to or removed from any tub above a certain size.

Upon the outer sides or edges of the outer clamp or jaw are formed the sleeves *f*, down through which the lower ends of the bent guide-rod *g* pass. This rod can be adjusted up and down to any desired extent, and can be held in any position by means of set-screws passing through the sleeves.

Loosely connected to the rod *g* is the connecting-rod *h*, to which the inner end of the handle *l* is pivoted. Passed over the handle are the two slides *i*, which may be fastened at any desired point by set-screws 3. Upon the outer sides of these slides are pivoted the arms *n*, to the upper ones of which are rigidly secured the caps *o*, which fit down over the tops of the atmospheric pounder-shafts *p*.

To the lower arms are secured the clamps *r*, by means of which the pounders are securely held. The pounders consist of long tapering tubes, largest at the tops, and having the funnels *s* secured to their lower ends. Through the top of each one is made a hole, *t*, which is controlled by the loose valve *v*. As soon as the downstroke commences the air closes the valve, so that no air can escape that way, and hence the compressed air must escape down around the edges of the funnels and rise up through the clothes and water. The instant the handle begins to rise the air forces open the valves and rushes in, so that the clothes will not stick to the ends of the pounders unnecessarily.

The handle is pivoted to the connecting-rod *h*; and as the rod has a free lateral and vertical play, and as the handle has a free lateral play on the end of the rod, the handle can be moved freely from side to side; and as the connecting-rod can be raised freely upward, it will be readily seen that the handle has a free universal motion.

As the pounders are pivoted to the handle they will always maintain a vertical position, and as they can be adjusted freely back and forth on the handle, they can be made to work in any part of the tub.

By means of the arms, the caps, and the clasps, the pounders can be readily removed and replaced whenever desired.

Having thus described my invention, I claim—

1. In a washing-machine, the combination of the two jaws *a*, movably connected together, and having the spring *d* placed between their upper ends, with the rod *g*, connecting-rod *h*, handle *l*, and one or more pounders movable back and forth on the handle, substantially as shown.

2. The combination of the jaws *a*, provided with the sleeves *f*, and vertically-adjustable

rod *g* with the connecting-rod *h* and handle *l*, substantially as described.

3. The slides *i*, provided with pivots, in combination with the double set of arms *n*, caps *o*, and clamps *r*, for connecting the pounders with the handle, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 6th day of July, 1878.

CHARLES M. BARTHOLOMEW. [L. S.]

Witnesses:
FRITZ DREWS,
GEO. W. W. TANNER.