

G. H. WINSLOW & W. A. TRYON.
 WASHING-MACHINE.

No. 181,757.

Patented Aug. 29, 1876.

Fig. 1.

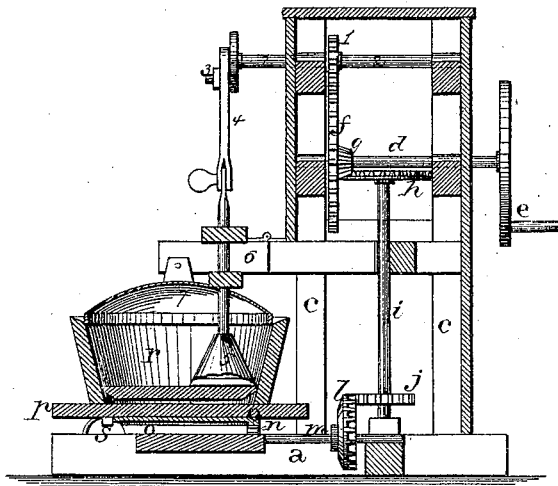


Fig. 2.

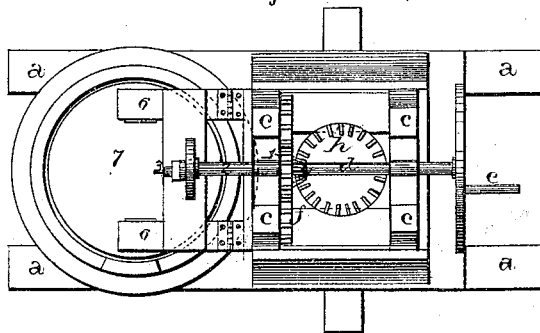


Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

GEORGE H. WINSLOW AND WILLIAM A. TRYON, OF MONTICELLO, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 181,757, dated August 29, 1876; application filed February 7, 1876.

To all whom it may concern:

Be it known that we, GEORGE H. WINSLOW and WILLIAM A. TRYON, of Monticello, in the county of Sullivan and State of New York, have invented certain new and useful Improvements in Washing-Machines; and we 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.

Our invention relates to an improvement in washing-machines; and it consists in the arrangement and combination of parts, that will be more fully described hereinafter, whereby the clothes are washed by a pounding motion at the same time that the tub is made to revolve around so as to bring every part of the clothes under the pounder.

The accompanying drawings represent our invention.

a represents two parallel ground-sills, which are rigidly and securely braced together by suitable cross-ties, and from which sills rise the four standards *c*. These standards are likewise securely braced together, and form the frame-work for the support of the operating mechanism, both the standards and mechanism being hidden from sight by being boarded or otherwise covered over. Journaled upon two of the cross-ties that bind the standards together is the shaft *d*, which has the crank-handle *e* secured to its outer end, and the spur-wheel *f* and pinion *g* secured to it inside of the frame. The beveled pinion *g* meshes with the horizontal wheel *h*, secured to the end of the vertical shaft *i*, which shaft has a smaller wheel, *j*, secured to it near its lower end, which meshes with the wheel *l* on the horizontal shaft *m*. Upon the opposite end of this shaft *m* is a small pinion, *n*, which meshes with the circular rack *o* on the under side of the revolving board *p*, on which the tub *r* is placed. In order that this board, bearing the weight of the tub, clothes, and water, may revolve without too great friction,

rollers *s* are placed under it, which both hold it steady and make it revolve more easily. The spur-wheel *f* on the shaft *d* meshes with the pinion *l* on the shaft *2*, just above it, which shaft *2* has a crank or wrist pin, *3*, on its outer end. To this crank or wrist pin is attached the connecting-rod *4*, which has two or more holes in its upper end, so that it can be adjusted to make long or short strokes, as the tub may be full or only partially full of clothes. Attached to the lower end of the connecting-rod *4* is the pounder or washer *5*, which consists of a hollow cone made of thin metal, and having a number of thin strips extending across its bottom. The shank or handle of this pounder projects up through the hinged frame *6*, which projects out over the top of the tub, as shown, and to which the cover of the tub *7* is secured.

By disconnecting the connecting-rod *4* from the washer the frame may be raised upward, carrying the cover and pounder with it, when the pounder, clothes, and tub can all be removed at will.

Thus it will be seen that when the handle is turned the pounder is made to operate upon the clothes at the same time that the tub is made to revolve and bring every part of the clothes under the pounder.

Having thus described our invention, we claim—

1. The combination of the shaft *d*, handle *e*, spur-wheel *f*, pinion *l*, shaft *2*, crank *3*, rod *4*, washer *5*, and revolving tub, substantially as set forth.

2. The combination of shaft *d*, pinion *g*, wheels *h j l n*, shafts *i m*, rack *o*, board *p*, tub *r*, and a washer, *5*, substantially as described.

In testimony that we claim the foregoing we have hereunto set our hands this 26th day of January, 1876.

GEORGE H. WINSLOW.
WILLIAM A. TRYON.

Witnesses:

C. S. THORNTON,
EDWARD F. QUINLAN.