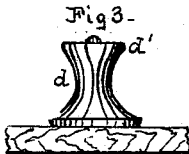
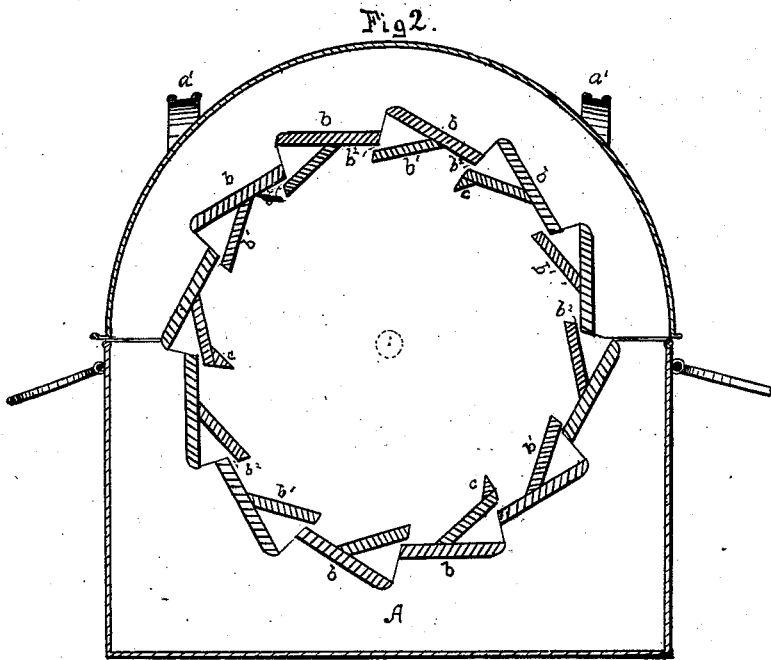
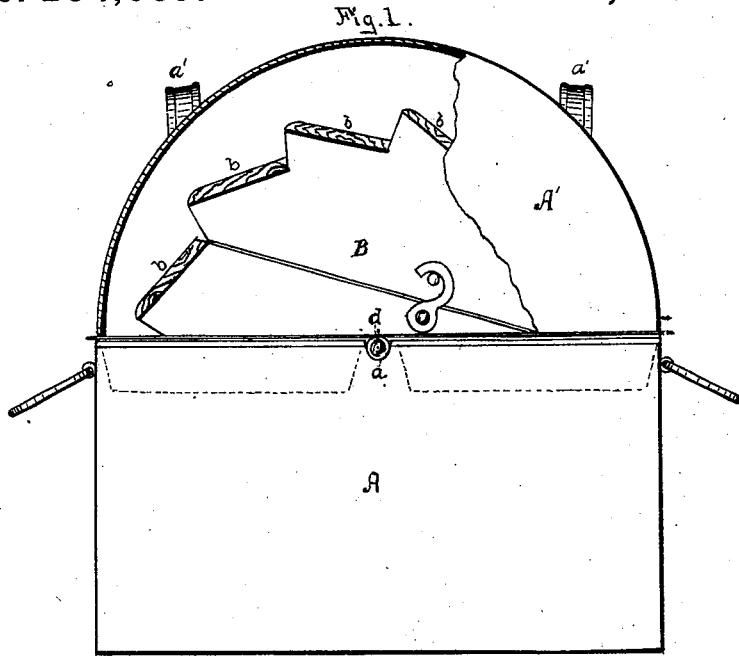


W. L. HESS & L. W. NEWTON.  
Washing-Machine.

No. 204,039.

Patented May 21, 1878.



Attest  
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# UNITED STATES PATENT OFFICE.

WILLIAM L. HESS AND LESTER W. NEWTON, OF BELLE PLAINE, IOWA.

## IMPROVEMENT IN WASHING-MACHINES

Specification forming part of Letters Patent No. 204,039, dated May 21, 1878; application filed April 1, 1878.

*To all whom it may concern:*

Be it known that we, WILLIAM L. HESS and LESTER W. NEWTON, of Belle Plaine, in the county of Benton and State of Iowa, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 represents a side view of my improved washing-machine, and Fig. 2 is a vertical longitudinal section of the same.

Corresponding parts in the two figures are denoted by like letters.

This invention appertains to certain improvements in washing-machines, by which the washing of the articles is facilitated and simplicity of construction and cheapness promoted.

The nature of this invention consists of a wheel-shaped cylinder, provided with a series of buckets, which deflect and empty the water into the said wheel or cylinder, and with internal flanges or lips, substantially as herein-after more fully set forth.

In the annexed drawing, A marks a boiler or vessel for holding water, provided with eyes or slots *a a* to receive the axes or trunnions of the washing cylinder or wheel. To this boiler or vessel is supplied a removable cover, A', provided with handles *a' a'* for lifting it from the boiler.

B refers to a wheel or cylinder, which receives the articles to be washed, it being bisected, and the two sections formed thereby hinged and hooked together, to permit of the insertion and removal of the said articles. The cylinder or wheel B is provided with a series of buckets, *b b*, which dip up the water in the

boiler or receptacle, the water thus dipped up by the said buckets being deflected and emptied into the wheel or cylinder upon the articles being washed by deflectors *b<sup>1</sup> b<sup>1</sup>*, and through apertures or openings *b<sup>2</sup> b<sup>2</sup>*. *c c* refer to internal flanges or lips secured to the inner ends of the deflectors, or at other convenient points, the object of which is to turn the articles being washed to present the unwashed surface to the ribs or inner ends of the deflectors *b<sup>1</sup> b<sup>1</sup>*, which, with the rotary movement of the cylinder or wheel B, performs the washing of said articles.

To the wheel or cylinder B are supplied axes or trunnions *d d*, which bear in the eyes *a a* in the boiler or vessel A, and are provided, external to the boiler or vessel, with flanges *d' d'*, to resist lateral pressure upon the boiler at those points from the water, and thus obviate, to a certain extent, the spreading or bowing of the boiler.

It will be seen that the trunnions *d d* can be adapted, without incurring appreciable expense, to any ordinary boiler.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

In a washing-machine, the wheel or cylinder B, provided with a series of buckets, *b b*, having deflectors *b<sup>1</sup> b<sup>1</sup>* attached to said buckets about equidistant from their edges, and extending forward and lapping the preceding buckets, forming passages *b<sup>2</sup>*, and internal flanges or lips *c*, substantially as shown and described.

In testimony that we claim the foregoing as our own we hereunto affix our signatures in the presence of two witnesses.

W. L. HESS.  
L. W. NEWTON.

Witnesses:

C. W. GORE,  
GEORGE HUSTON.