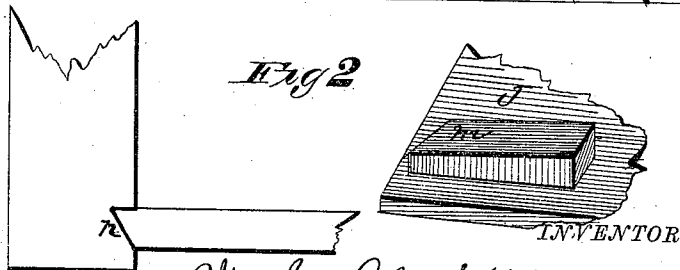
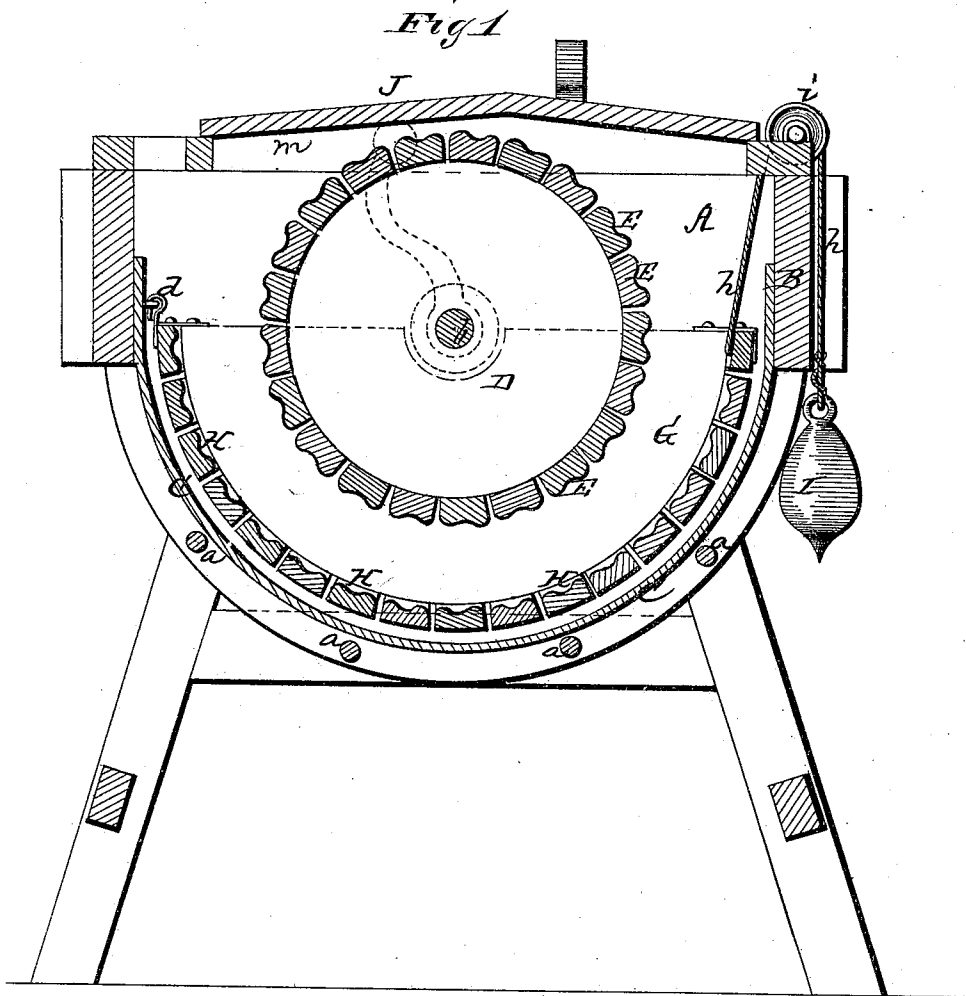


W. G. BLACKLIDGE.
 WASHING-MACHINE.

No. 175,411.

Patented March 28, 1876.



WITNESSES
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UNITED STATES PATENT OFFICE

WILLIAM G. BLACKLIDGE, OF METAMORA, INDIANA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **175,411**, dated March 28, 1876; application filed September 18, 1875.

To all whom it may concern:

Be it known that I, WILLIAM G. BLACKLIDGE, of Metamora, in the county of Franklin and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a washing-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section of my machine. Fig. 2 is a detached view, showing the mode of fastening the lid.

The box of my washing-machine is composed of two side pieces, A A, connected at their ends by end pieces B B, and provided with a semicircular metallic bottom, C. This bottom is inserted in grooves cut in the side pieces A A, and fastened by bolts *a a* passing through the same, as shown. Through the sides A A is passed a shaft, *b*, on which is secured the washing-cylinder, composed of two circular heads, D D, connected by means of slats E E corrugated longitudinally, and secured to the edges of the heads. Below this washing-cylinder is a concave composed of two semicircular heads or side pieces, G G, connected by slats H H, which are also corrugated longitudinally, as shown. This concave is hung at one end by means of hooks *d d*, and the

other end is supported by a cord, *h*, passing over a pulley, *i*, and having a weight, I, attached to its outer or free end. By this means the concave is held up to the clothes, or rather the concave holds the clothes up to the cylinder, which is to be turned back and forth, either a whole or a partial revolution each time.

I am aware that springs have been used in various ways to hold or press the cylinder and concave toward each other, but these are objectionable because the pressure is always varying according to the quantity of clothes in the washing-machine; but by my invention the pressure is always the same, whether there are few or many clothes in the machine.

The sides G of the concave act as a fender, and prevent the concave and cylinder from coming in contact. J is the lid of the box, held thereon by means of the cross-bars *m* on the under side of the lid having beveled ends and fitting in notches *n* in the box, as shown.

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

The slats H H connected to the semicircular heads G G, hinged at one end to the box, and adjusted with respect to the cylinder D by the cord *h* (passing over the pulley *i*) and weight I, all substantially as and for the purposes set forth.

In testimony that I claim the foregoing I hereunto set my hand this 21st day of August, 1875.

WILLIAM G. BLACKLIDGE.

Witnesses:

JAMES GILLESPIE,
J. R. SMITH.