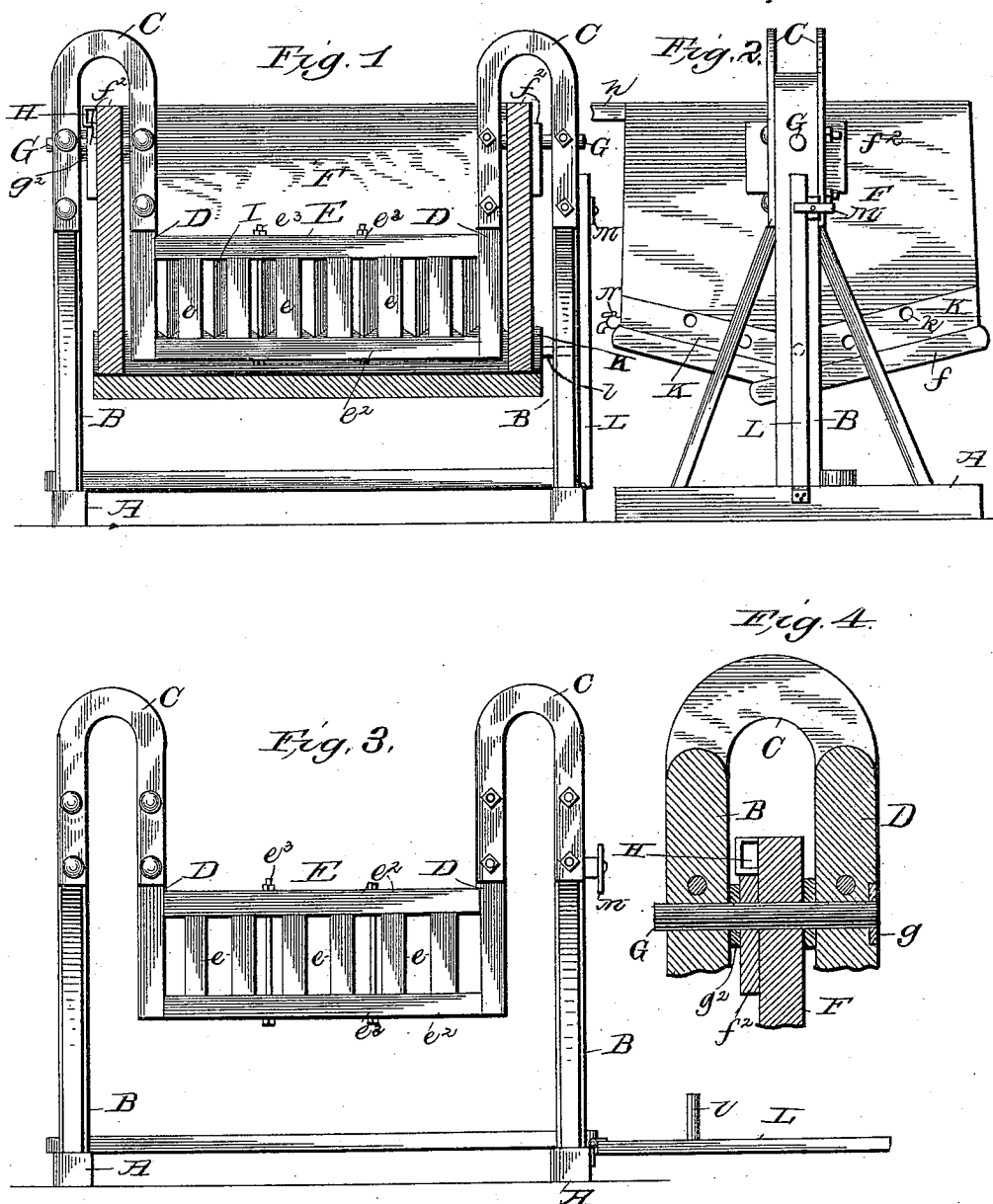


(No Model.)

A. POWELL.
WASHING MACHINE.

No. 463,918.

Patented Nov. 24, 1891.



Witnesses
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UNITED STATES PATENT OFFICE.

AMBROSE POWELL, OF MEDWAY, NEW YORK.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 463,918, dated November 24, 1891.

Application filed March 25, 1891. Serial No. 386,337. (No model.)

To all whom it may concern:

Be it known that I, AMBROSE POWELL, a citizen of the United States, residing at Medway, in the county of Greene and State of New York, have invented new and useful Improvements in Washing-Machines, of which the following is a specification.

My invention relates to an improvement in washing-machines; and it consists in the certain peculiar features of construction and arrangement of parts more fully described hereinafter, and definitely pointed out in the claim.

The object of my invention is to provide a strong, durable, and conveniently-arranged machine which can be easily operated and cheaply manufactured. This object I attain by the construction illustrated in the accompanying drawings, in which like letters of reference indicate like parts in the several views, and in which—

Figure 1 is an elevation with the front removed. Fig. 2 is an end elevation. Fig. 3 is a detail view of the agitator, and Fig. 4 is a detail section through the bearing.

In the drawings, A represents the frame having two vertical standards B, to the upper ends of which are secured two U-shaped supports C, which are rigidly attached to the standards on opposite sides and extend inward toward each other. Between the inner and lower ends of these supports are secured the vertical arms D of the agitator E. The agitator E consists of a series of vertical bars e , connected at their top and bottom by the cross-bars e^2 , which are rigidly secured to the lower ends of the arms D, and are at all times held in a vertical position by the U-shaped supports. Additional strength is given the agitator by passing two or more vertical bolts e^3 through the same, which also prevents the same from warping.

F represents the tub or suds-box, having an inclined bottom f and re-enforcing strips on its central upper sides f^2 , through which pivotal bolts G pass, the outer ends of the bolts passing through the upper ends of the standards, while the inner ends rest in suitable sockets g formed in the arms of the agitator, thereby affording a permanent and secure support for the tub, the lateral play of the tub being prevented by the interposi-

tion of washers g^2 between the arm and the tub. At the upper edge of the tub on one side are formed sockets H, in which a suitable handle h is fitted. The inner face of the tub on both sides is provided with a series of vertical cleats I extending part way up the same.

Adjacent to the lower edge and to one side of the center of the end of the bottom portion of the tub is secured a strip K, having a series of perforations k therein, arranged in the arc of a circle, the innermost being directly in the center of the tub.

L is a lever, pivotally secured to the bottom of the frame A and extending up to a point in proximity to the top. This lever is provided with a locking-pin l at a point near its center, which projects through an opening in the standard, and is adapted to fit and enter into the perforations in the strip K to retain the tub in an adjusted position. To prevent the lever from being accidentally drawn out, a locking-button M is placed on the side of the standard, which when turned engages over the upper or outer face of the lever and prevents the same from moving.

N is a discharge-spout for draining off the water in the tub.

The device above described is operated as follows: Pressure being placed on the outer end of the handle forces the front of the tub down and the clothes between the agitator and tub. The former, being rigid, are tightly pressed between the same, the position in which the tub is arranged causing the water to always be around the agitator, thereby preventing dry scrubbing or pressing while the water is constantly passing, as the tub is moved from one side to the other thereof, thereby immersing and draining the clothes alternately. When the water is to be drawn off from the tub the upper end of the lever is forced out, carrying the locking-pin with it until the same registers with outer perforation in the strip K, at which point it is forced in, making the discharge-nozzle retain a position at the lowest point in the tub, thereby permitting the water to be quickly discharged. The handle may also be removed from its sockets when desired.

I am aware that many minor changes in the construction and arrangement of the parts of my device can be made without in the least

departing from the nature and principle of my invention.

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

5 In a washing-machine, the combination, with two standards, of U-shaped supports secured in pairs on each standard, one on each side thereof, vertical arms D, secured be-
10 tween the inner ends of the U-shaped supports, an agitator E, consisting of a series of vertical bars connected at their tops and bottoms by cross-bars secured to the vertical
15 arms, vertical strengthening-bolts passing through the cross-bars and uniting the same, a suds-box having re-enforcing strips on its

central upper ends, pivotal bolts passing through the upper ends of the standards, vertical arms, and re-enforced portions of the suds-box, perforated strips K on the ends of
20 the suds-box arranged at an incline, a lever pivoted to the standard at one end, a locking-pin on the lever engaging in the perforations of the strip K, and a handle on the suds-
25 box, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

AMBROSE POWELL.

Witnesses:

PETER TRYEN,
ADELBERT WHITMORE.