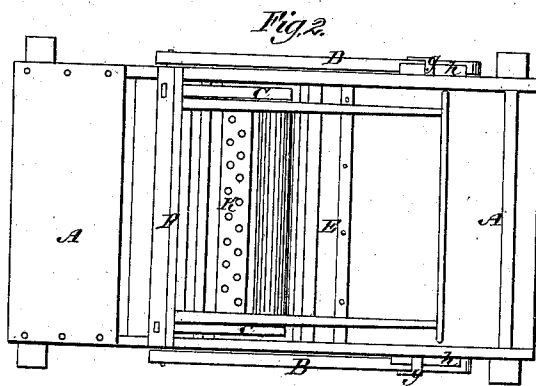
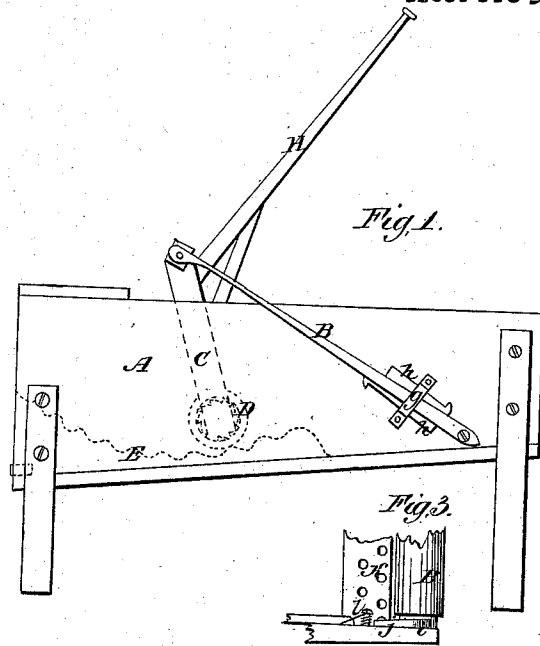


J. Dare,
Washing Machine,
N^o 83,473. *Patented Oct. 27, 1868.*



Witnesses.

Wm. Harrison
J. D. Stockbridge.

Inventor.
John Dare
per
Alexander Mason
Attorneys

United States Patent Office.

JOHN DARE, OF LIBERTY, INDIANA.

Letters Patent No. 83,473, dated October 27, 1868.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JOHN DARE, of Liberty, in the county of Union, and in the 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 the letters of reference marked thereon.

In the annexed drawings, making a part of this specification, A represents a rectangular box or vessel, supported upon suitable legs, and having a corrugated plate adjusted in or at the bottom thereof, as shown at E.

On the sides of the tub or vessel A, I secure adjustable springs B, which work in the loops *g*, and are held in the position required, by means of the keys *h h*.

The springs B B are adjusted at any desired angle with the plane of the vessel A.

Adjusted, and having bearings in the upper end of the springs B B, is a suitable shaft, F, made of any material found most convenient, in which are secured arms C C, which project down into and work between the sides of the vessel A.

D represents a roller, which has its bearings in the lower end of the arms C C, made of any suitable size and material, and is operated or worked back and forth, on or over the corrugated plate or bottom, E, by means of the levers H H, which are fastened to the arms C C, just below the shaft F.

The roller D has attached to one end thereof a small ratchet-wheel, *f*, in which catches a spring-pawl, *j*, as

shown, so that the said roller D slides over the clothes or bottom, E, one way, and rolls the other way when operated by the levers H H.

The pawl *j* is pivoted to one of the arms C, and is held firmly against the ratchet-wheel *f*, by means of a small spring, *e*.

K represents a perforated plate, secured to and between the arms C C, just above the rubber or roller D, as shown, for the purpose of a brace or support to said arms, and perforated so that the water in the vessel will readily flow through it, and not be dashed or forced before it too violently.

It will readily be seen that the roller or rubber D will perform its office more effectually than if it revolved both ways, or is held rigidly in the arms C C.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The arrangement of the roller D, pawl *j*, and ratchet *f*, for allowing the same to move without revolving one way, and to revolve the other, when suspended from the arms C, and exterior adjustable springs B, and operated by the double lever H, all as herein shown and described.

In testimony that I claim the foregoing, I have hereunto set my hand, this 20th day of February, 1868.

JOHN DARE.

Witnesses :

HENRY HUSTED,
A. F. DAVIS.