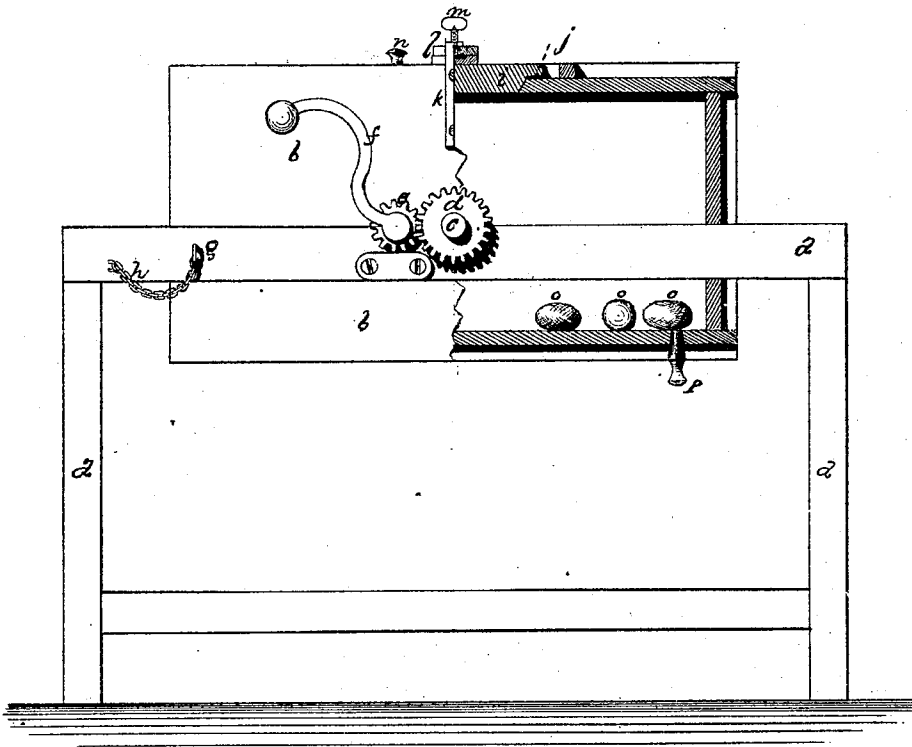


H. DICKINSON.
WASHING MACHINE.

No. 109,810.

Patented Dec. 6, 1870.



Witnesses.

W. E. Simonds
S. J. Simonds

Inventor.

H. Dickinson
B. Ellis
Att'y

United States Patent Office.

HENRY DICKINSON, OF MARLBOROUGH, CONNECTICUT.

Letters Patent, No. 109,810, dated December 6, 1870

IMPROVEMENT IN WASHING-MACHINES.

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

I, HENRY DICKINSON, of Marlborough, in the county of Hartford and State of Connecticut, have invented certain Improvements in Washing-Machines, of which the following is a specification.

Nature and Objects of the Invention.

My invention consists in a box into which the clothes to be cleaned are put, and secured from leakage on all sides.

This box is hung on centers, on which it is made to revolve.

Inside the box with the clothes are small oblong blocks of wood, or other suitable material, rounded on the ends, which tumble back and forth with the clothes and assist the cleansing process.

Description of the Accompanying Drawing.

The figure shown is a side elevation, with a part of the box broken away and shown in section, for the purpose of showing the interior of the box and its outward construction.

General Description.

The letter *a* indicates the frame of the machine, or rather one-half of it, a duplicate of the part shown being upon the opposite side of the box, both of which duplicates are properly joined together.

The letter *b* indicates the box, which, in this case is square in its cross section, and rectangular in its longitudinal section.

It is hung on bearings or centers, one of which, *C*, is shown.

On the shaft *c* is the gear-wheel *d*, gearing into the pinion *e*, which is made to revolve by the hand-crank *f*, thus turning the box somewhat more slowly than it itself turns.

A pin, *g*, running through the frame and into the side of the box, serves to confine the box in a level position, when desired.

This pin is attached to the frame by the chain *h*, and hangs thereby, when not in use, for locking the box in its level position.

On the top of the box is a round hole, for the introduction and withdrawal of the clothes.

This orifice has a cover or stopper, *i*, just fitting into it, with convex edges, and with a ring of rubber, *j*, to make the joining safe from leakage.

From each side of the box rise metal bars *k*, which hook over at a right angle toward each other at their upper extremities.

Under these hooked ends fit the ends of the bar *l*, which bar has a thumb-screw, *m*, in its center, whose lower end bears down upon the top of the cover *i*, by the turning of which screw the cover can be forced down into its seat with any desired pressure.

This bar being readily removable, when the thumb-screw is loosened, from under the hooked ends of the bars *k*, does not interfere with the removal or putting in place of the cover.

The letter *n* indicates a knob attached to the top of the cover, by which it can be conveniently handled.

Within the box are one or more tumbling blocks, *o*, which are oblong cylinders, with rounded ends or egg-shaped.

I do not claim the exclusive right to use a block of all shapes, but an oblong block will tumble more than almost any other while the box is rotated, and the shape of these blocks is an essential feature of my invention.

The letter *p* indicates a plug for letting off the waste water.

Claim.

I claim as my invention—

The oblong box *b* with the blocks *o*, cap *l*, and thumb-screw *m*, with its gearing, shafts, and crank, to give motion, in combination with the frame *a*, chain and staples *h* and *g*, the whole constructed and arranged substantially as and for the purposes set forth.

Dated April 11, 1870.

HENRY DICKINSON.

Witnesses:

HARRY D. BARROWS,
SARAH J. BARROWS.