

JAMES E. CONNOLLY.

Improvement in Washing Machines.

No. 124,548.

Fig 1.

Patented March 12, 1872.

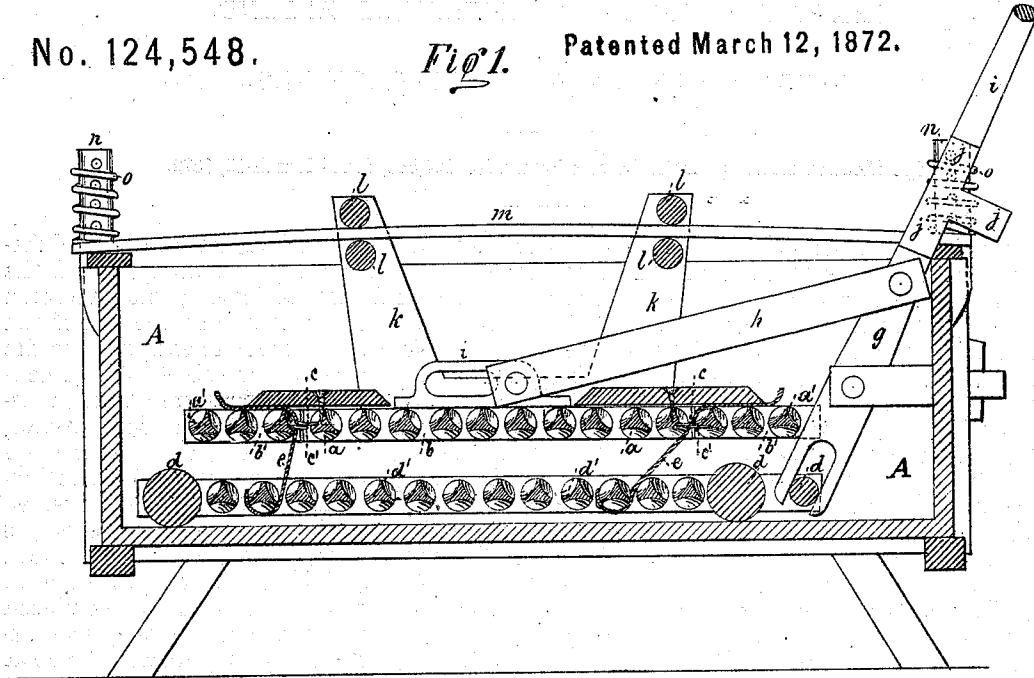
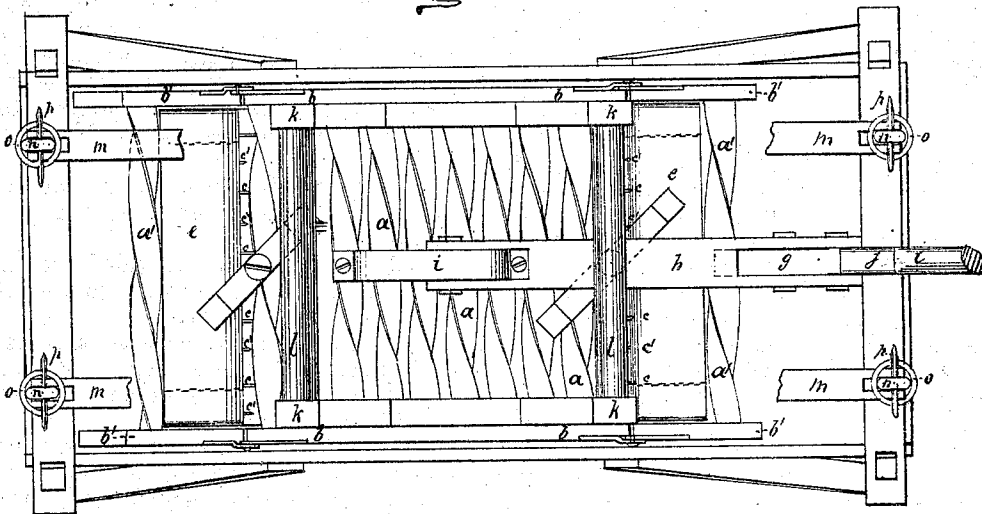


Fig 2.



Witnesses:

G. Mathys.

Thos D. D. Curran

Inventor:

James E. Connolly.

PER

Attorneys.

UNITED STATES PATENT OFFICE.

JAMES E. CONNOLLY, OF DUBLIN, MARYLAND.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 124,548, dated March 12, 1872.

To all whom it may concern:

Be it known that I, JAMES E. CONNOLLY, of Dublin, in the county of Harford and State of Maryland, have invented a new and Improved Washing-Machine; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a longitudinal vertical section, and Fig. 2 is a top view.

This invention relates to a machine for washing clothes, in which there is an upper and a lower rubber, these vibrating in opposite directions and holding the clothes between them, the lower rubber being provided with cloth-flaps at its ends, and the upper rubber being provided with means for attaching and detaching said flaps, the latter serving to retain the clothes between the rubbers while washing.

Referring to the drawing, *a a'* are the transverse slats of the upper rubber, said slats being spiral in form and attached at their ends to side pieces *b b'*, the pieces *b'* being jointed to the extremities of the pieces *b*. The two slats at the ends of the series, supported between the pieces *b*, have pins *c* extending toward the extremities of the box A. The adjacent slat *a'*, at the inner ends of the series supported between the pieces *b'*, have pins *c'* extending toward the pins *c*. The lower rubber is constructed with transverse rollers *d* at its ends, and spiral slats *d'* between said rollers. Canvas flaps *e* are attached to the lower rubber near the extremities of the same. Prior to putting in the clothes the upper rubber is taken out. The clothes are then spread on the lower rubber and the upper rubber replaced. The end pieces *b'* of the upper rubber are turned up, the flaps *e* inserted between the buttons *c c'* and the end pieces turned down again, which causes the pins *c c'* to enter the flaps and hold them fast. Instead of hinged ends, the parts *b b'* might be made in one piece, having grooves in which the spiral slats *a'* could be placed, and in which they could be slid back

to allow the flaps to be inserted and slid forward to fasten the flaps. Buttons *f* hold the hinged ends down. A lever, *g*, mounted on a pivot secured to the inside of one end of the box A, is jointed at its lower extremity to the end roller *d* of the lower rubber, and is connected by a bar, *h*, with a slotted block, *i*, secured to the top of the upper rubber. Hence, the oscillation of the lever *g* vibrates the two rubbers in opposite directions. Such oscillation is effected by means of a handle, *j*, inserted in a socket, *j*, in the lever *g*. Each lever *g* is provided with two sockets, *j*, one continuous with the lever and the other at right angles to it, in either of which the handle *j* can be placed as may be most convenient. Standards *k* extend from the top of the upper rubber, two at each side, which are connected in pairs by means of transverse bars *l*, two to each pair of standards. Flat strips *m* pass between the bars *l* lengthwise of the box A, the extremities of said strips being grooved so that the strips can be slipped between uprights *n*, two at each end of the box A. Springs *o*, surrounding said uprights and kept in place by pins *p*, press down on the strips *m* and cause them to keep the upper rubber bearing with force on the clothes.

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

1. The upper rubber provided with hinged ends and buttons *c c'*, in combination with the lower rubber and flaps *e*, as specified.

2. The lever *g* provided with sockets *j j*, at right angles to each other, and combined with the connecting-bar *h*, and upper and lower rubbers, as described.

3. The upper rubber provided with the standards *k* and cross-bars *l*, and combined with the strips *m*, uprights *n*, and springs *o*, as set forth.

JAMES E. CONNOLLY.

Witnesses:

ASEPH W. SCARBOROUGH,
WM. T. JOHNSON.