WILLIAM H. TOWERS.

Improvement in Clothes-Wringers.

No. 114,231. Patented April 25, 1871.

Fig. 1.

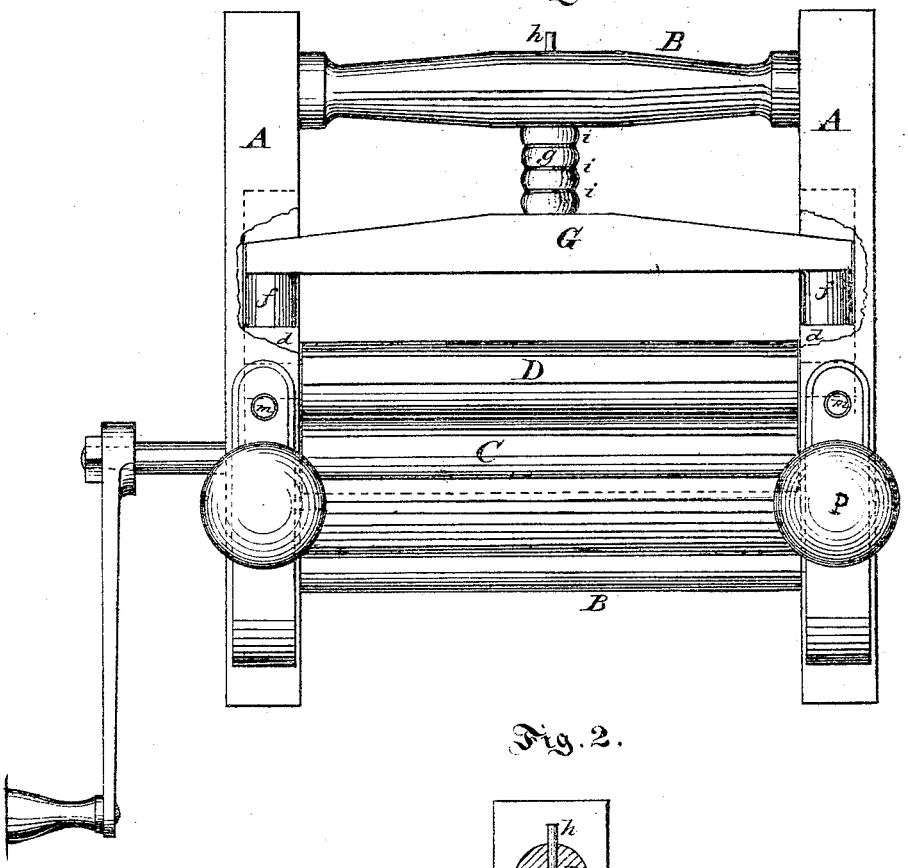
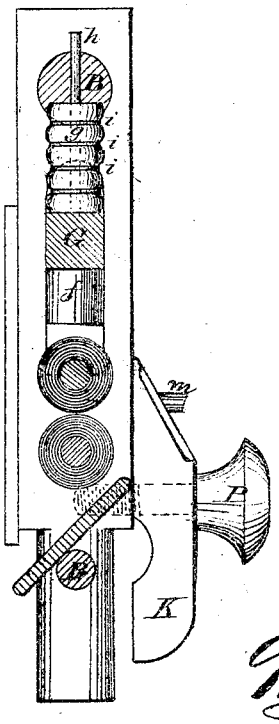


Fig. 2.



Witnesses:

Saml. P. Jones Jr.

John Driscoll.

Inventor:

Wm H Towers

United States Patent Office.

WILLIAM H. TOWERS, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 114,231, dated April 25, 1871.

IMPROVEMENT IN CLOTHES-WRINGERS.

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, WILLIAM H. TOWERS, of Boston, in the county of Suffolk and State of Massachusetts, have made a new and useful Improvement in Clothes-Wringers; and I hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawing which forms a part of this specification, and in which—

Figure 1 is a perspective, and

Figure 2 a vertical cross-section.

The main parts, shown in the drawing, are the same as now in common use. The frame, the rolls, the crank, and general arrangement of parts, being the same as now used and well known, need not be particularly described.

My invention relates to devices for rendering the rolls self-adjusting both at their ends and also throughout their entire length—that is, I employ three springs, one placed over the middle of a cross-bar, and the others placed one under each end of the same cross-bar, and resting on the movable bearings which carry the ends of the upper roll. This arrangement makes the distance between the rolls self-adjusting, and gives a wider play than in the ordinary plan, where it is common to have a set-screw or other device instead of the middle spring, as in my plan.

The following description will enable others to make and use my invention.

In the drawing—

A A are the side pieces of the frame, connected by upper and lower cross-bars B B.

The lower or stationary roll C and the upper or movable roll D are mounted in bearings placed in a groove or recess in the side pieces A A in the usual manner.

On top of the bearing-blocks *d d*, which carry the roll D, are rubber springs *f f*.

On top of the springs *f f* is a cross-bar, G.

Between the middle of the cross-bar G and the upper cross-bar of the frame is a spring, *g*, fixed in a bar, B, and kept in position by the spindle *h*.

This spring *g* is bound with wire bands *i i i*, as shown, so as to give it greater strength.

The clamps are made of a movable jaw, K, in the upper end of which is a hole to move over the guide-pin *m*, which is fixed in the upright A.

The jaw K is fastened to the upright by screw P, which binds it to the upright A, and thus clamps the machine to the side of the tub or washing-machine. The screw P is provided with a large head, so as to give greater force in turning it.

By this arrangement the jaw K moves to and from the upright A always parallel to itself. It clamps the side of the tub throughout its contact with the same force. When jaw K is hinged or attached by a swivel, as heretofore, it bites the side of the tub hardest at the upper edge, and so crushes or bruises it.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent of the United States, is—

The combination of the springs *f f*, cross-bar G, spring *g*, and cross-piece B, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. H. TOWERS.

Witnesses:

SAML. P. JONES, Jr.,

JOHN URIAN.