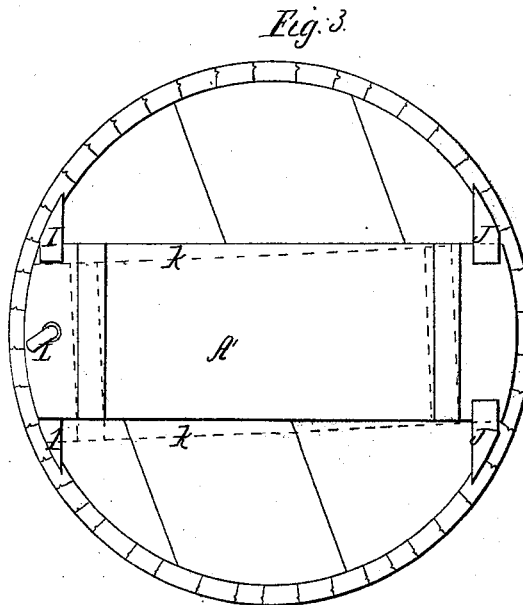
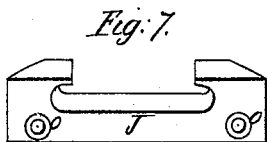
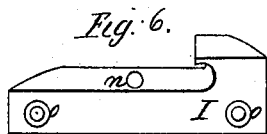
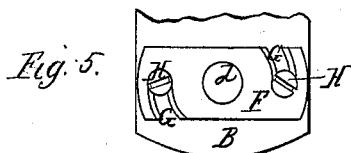
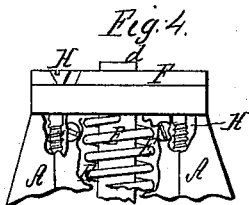
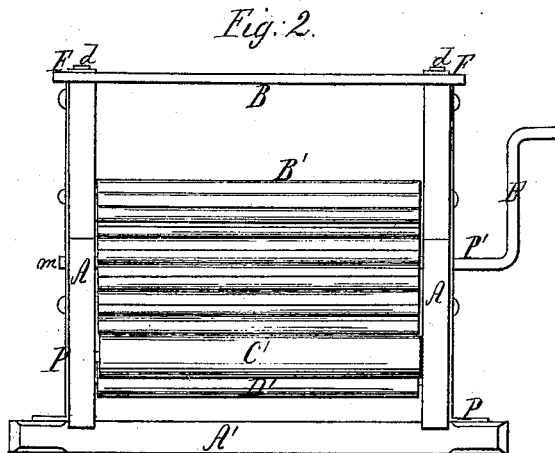
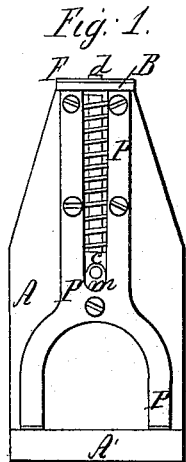


G. S. Walker
Washing Mach.

N^o 113,118.

Patented Mar 28, 1871.



Witnesses;
Prof. L. Hullack
W. Force

Inventor;
Geo. S. Walker

United States Patent Office.

GEORGE S. WALKER, OF ERIE, PENNSYLVANIA, ASSIGNOR TO HIMSELF
AND FRANK F. ADAMS, OF SAME PLACE.

Letters Patent No. 113,118, dated March 28, 1871.

IMPROVEMENT IN WASHING-MACHINES.

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, GEORGE S. WALKER, of Erie, in the county of Erie and State of Pennsylvania, 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 and the letters of reference marked thereon, the same forming a part of this specification.

My invention is represented in the accompanying drawing as follows:

Figure 1 is an end view of my machine;

Figure 2 is a side view of the same;

Figure 3 is a view showing the manner in which I attach my machine to a tub;

Figures 4 and 5 are sectional views of the machine; and

Figures 6 and 7 are views of the attaching-cleats.

The nature of my invention consists in providing a cheap, easily adjusted, and simple-working machine, which can be easily attached to a common wash-tub.

In the accompanying drawing—

A' is the bed-piece of my machine;

A A are the uprights; and

B is the top piece or binder of the frame.

Within this frame is hung a large wooden roller, B', which I call the working-roller.

This roller B' is corrugated or fluted. One end of its axle is formed into a crank, E, by which the roller is propelled.

This roller is journaled in sliding journal-boxes, which operate in slots cut in the uprights A A.

Beneath this roller B' is adjusted a number of smaller rollers, C' D', &c. These are small plane rollers and are arranged to be journaled in holes bored on the insides of the uprights A A.

The large or working-roller B' fits closely against all these smaller rollers, and is made adjustable; that is, made to permit the admission of clothes between it and the smaller rollers, by means of the sliding boxes c, and the coiled springs e, which are coiled around the guide-rod d, which is a part of the sliding bar c.

These last-mentioned parts of the machine are all in the slots cut in the standards A A, and are held in place by the metallic facing or guide-piece P, which

is attached to the side of the upright A, as seen in fig. 1.

This facing-piece P serves a triple purpose.

First, as it is screwed to the bed-piece A' it serves to brace and strengthen the uprights A A;

Second, it serves to prevent the uprights from splitting; and

Third, it acts as a guide for the sliding journal-boxes and prevents the gudgeons of the roller B' from wearing the wood.

The top or binding-piece B has three holes bored in each end.

Two of the holes are to allow the screw-heads H H to pass through, and the third or middle holes are large enough to allow the guide-rod d and the coiled spring e to pass through.

This piece B, when placed in position, is held fast by the metallic button F, which is constructed, as seen in fig. 5, with a hole just large enough for the guide-rod d to pass through, and with circular slots, G G, at its ends, made for the purpose of buttoning the same under the screw-head H H.

The top of the coiled spring rests on the under side of the plate F.

It sometimes happens that the clothes clog up under the roller or get between the small rollers, and the large roller has to be raised and the clothes removed.

The last-described device is for the purpose of facilitating that operation.

All that is required is to unbutton the plate F, and then the roller B' can be easily lifted.

The cleats I and J, shown in figs. 6 and 7, are fastened to the inside of the tub, as shown in fig. 3, and the machine is easily slipped into the slots in the cleats and keyed fast, as shown.

What I claim as my invention is as follows:

The top or binding-piece B, with the metallic plates F F, and screws H H, in combination with the facing or guide-piece P, sliding journal-box c, spring e, and rubbing-rollers, when arranged and operated as and for the purposes set forth.

GEO. S. WALKER.

Witnesses:

A. B. FORCE,

JNO. K. HALLOCK.