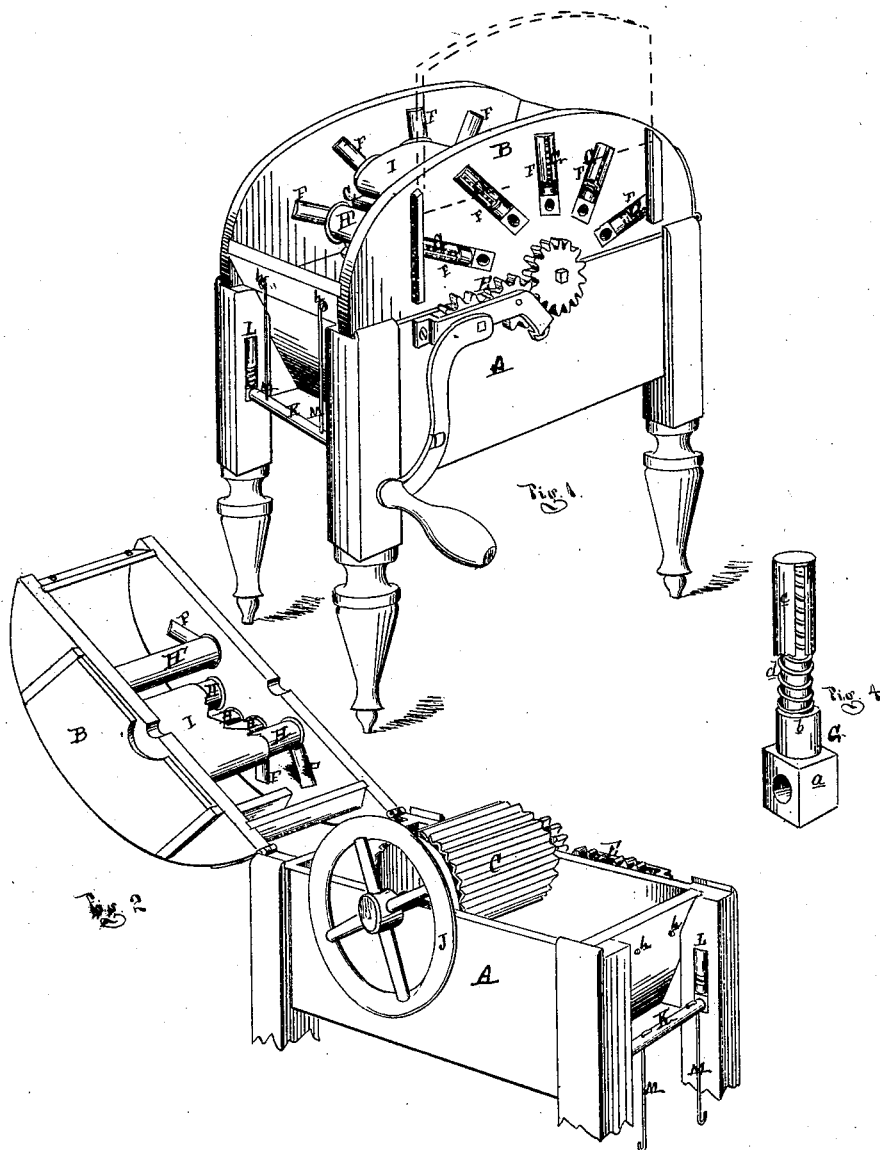
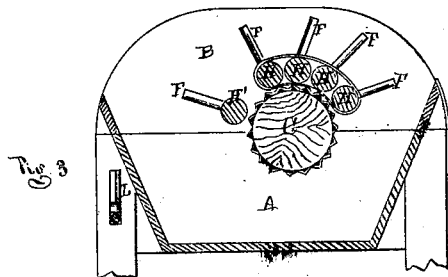


A. Hilton,
Washing Machine.
No. 110,235. Patented Dec. 20, 1890.



ATTEST.
H. F. Eberle
No. Stewart



INVENTOR
Alex. Hilton
per Attorney
Thos. S. Sprague

United States Patent Office.

ALEXANDER HILTON, OF STRATHROY, CANADA.

Letters Patent No. 110,235, dated December 20, 1870.

IMPROVEMENT IN WASHING-MACHINES.

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

To whom it may concern:

Be it known that I, ALEXANDER HILTON, of Strathroy, in the county of Middlesex and Dominion of Canada, have invented a new and useful Improvement in Washing-Machines; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective, with slide open to show arrangement of journals and springs.

Figure 2 is a perspective from the opposite side, showing the machine open and with slide closed.

Figure 3 is a vertical longitudinal section.

Figure 4 is a detached view of one of the journals and barrel-springs.

Like letters indicate like parts in each figure.

The nature of this invention relates to an improved construction of a machine for washing and cleansing textile fabrics, which will effectually do the work required without damage to the fabric.

The invention consists in a peculiar arrangement and combination of the various parts, (all of which are well-known devices,) as more fully hereinafter described.

In the accompanying drawing—

A represents a water-tight box, which is open at top, and within which the operating parts of the device perform their work.

B is a frame, the size of the box A, upon the top of which it is hinged in such a manner that, when the frame is closed, it forms a part of said box.

Journalled properly to the two sides of the box A, in such a manner as to rotate freely, is the corrugated drum C, driven by the crank D upon the shaft of said drum, or through intermediate gears E, if deemed preferable.

In radial slots F in the two sides of the frame B are inserted the journal-boxes G and barrel-springs, which are constructed as follows: *a* is the box, and *b* a piston, both being formed in one piece; *c* is a barrel, within which is placed the spring *d*. The piston

is inserted in the barrel, and its end engages with the springs.

Running in these journal-boxes are the rollers H and the roller H', around the former of which is the endless apron I.

J is a balance-wheel, secured to the shaft of the corrugated drum.

A rod, K, is journaled at each end in similar boxes as above described, which are inserted in slots L in the two sides of the box A.

Hooks M, engaging with eyes or knobs *h* in the frame B, firmly secure the latter in place when closed, if desired.

The operation of this device is as follows:

The box A is partially filled with water or suds, and the fabrics to be cleansed are placed in the front end of the box. The operator inserts one end of said fabric under the apron, and between it and the corrugated drum, when, motion being communicated to said drum as hereinbefore described, the fabric is drawn over the guide-roller H' and the drum, and underneath the apron, by means of the rotation of the latter around the rollers H, the springs *d* compelling said rollers to hold the apron against the fabric in its passage, thereby forcing the water through the fabric and carrying off the dirt.

Should more pressure be required, the hooks M may be engaged, as hereinbefore described, for the purpose. For light fabrics this is not necessary, as it is only required when cleansing heavier goods.

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

The arrangement and combination of the box A, frame B, corrugated drum C, crank D, slots F F, journal-boxes G, rollers H H', apron I, rod K, slots L, and hooks M, when each part is constructed substantially as described, and operating as and for the purpose set forth.

ALEXANDER HILTON.

Witnesses:

THOS. S. SPRAGUE,
M. STEWART.