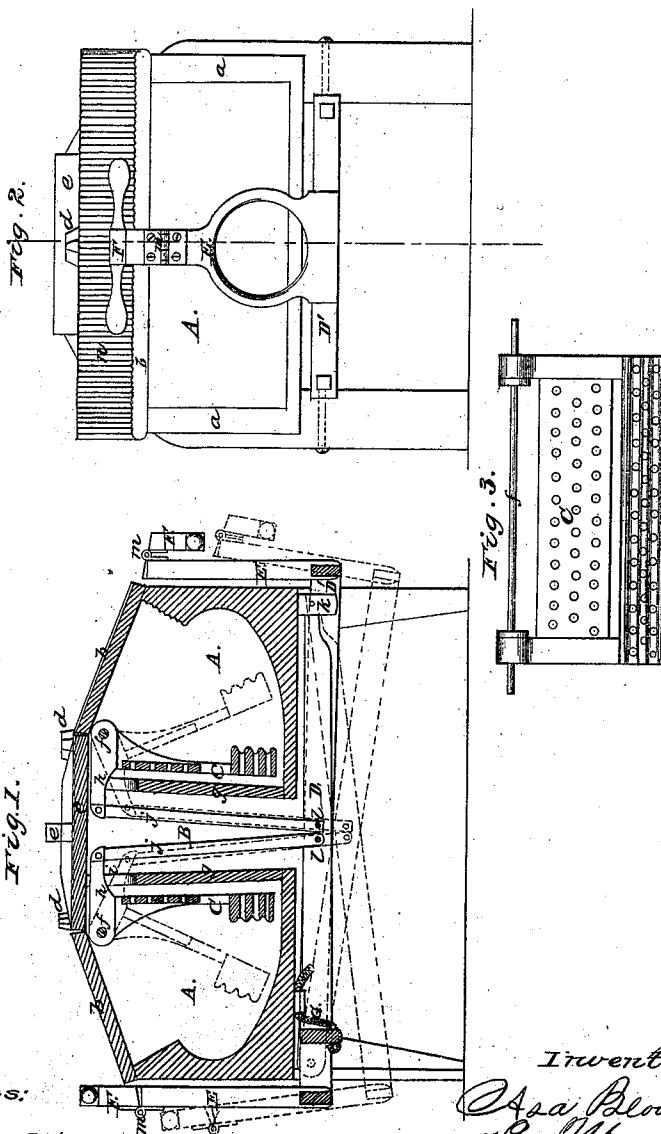


A. Blood, Sr.,

Washing Machine,

N^o 63,003,

Patented Mar. 19, 1867.



Witnesses:

J. W. B. Langdon.
Wm. Brown

Inventor:

Asa Blood Sr.
Per. Munroe
Attorney

United States Patent Office.

ASA BLOOD, SR., OF JANESVILLE, WISCONSIN.

Letters Patent No. 63,003, dated March 19, 1867.

IMPROVED WASHING MACHINE.

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, ASA BLOOD, Sr., of Janesville, in the county of Rock, and State of Wisconsin, have invented a new and improved Clothes-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, fig. 2.

Figure 2, an end view of the same.

Figure 3, a detached face or side view of one of the pressers pertaining to the same.

Similar letters of reference indicate corresponding parts.

This invention consists in constructing a washing machine in duplex form, and arranged in such a manner that it may be operated by one or two persons, as circumstances may require.

A A represent two suds boxes, which are joined together by side pieces, *a a*, a space, B, being allowed between the two suds boxes, as shown clearly in fig. 1. Each suds box is provided with a separate lid or cover, *b*, and the space B is covered by a permanent top, *c*, provided with buttons, *d*, or other fastenings to keep the lids or covers *b* in a closed state, and also provided with a ledge, *e*, to which a wringing machine may be attached when required for use. Each suds box has a presser, C, suspended within it from a rod, *f*, near the backs *g* of the suds boxes, the pressers being allowed to work freely on the rods *f*, and the bottoms of the suds boxes being curved corresponding to the arc described by the lower ends of the pressers as they are moved back and forth. The upper ends of the pressers C C are provided with two arms, *h h*, one at each end; and these arms *h h* extend through apertures, *i*, made in the backs *g* of the suds boxes, said arms being pivoted at their outer ends to rods, *j*, which extend down through the space B, and are connected at their lower ends to a lever-frame D, which is placed underneath the suds boxes A A, and is pivoted at one end in pendants, *k*, attached to the outer end of one suds box. The rods *j* are connected to this lever-frame D by bolts or rods, *l l*, passing transversely through the frame, and one of said rods *l* passes through another lever-frame, D', constructed precisely like D, and pivoted to the other suds box at its outer end. The two lever-frames being thus connected, if either be moved, motion will be communicated to the other. The outer end of each lever-frame has an upright, E, secured permanently to it, and a handle, F, is attached to the upper end of each upright by a hinge or joint, *m*. By this arrangement the handles may be turned down out of the way when not required to be used.

From the above description it will be seen that by operating the lever-frames D D', the pressers C C, through the medium of the rods *j* and arms *h h*, will have a vibratory movement imparted to them, and the clothes in the suds boxes subjected to the necessary pressure and friction to effectually cleanse the same. It will also be seen that the machine may be operated by one or two persons. The lever-frames have springs, G, attached to them and to the bottoms of the suds boxes, and these springs may be of rubber or other suitable material. They have a tendency to elevate the lever-frames, thereby rendering the operating of said frames less laborious than it otherwise would be. The lids or covers *b* of the suds boxes are fluted, as shown at *n*, so that said lids may be used as wash-boards at any time when desired. The lids or covers, when the machine is in use, keep the suds in the boxes A A in a warm state, confining the steam in said boxes, and greatly expediting the cleansing of the clothes.

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

The pen lent or swinging pressers C C placed in suds boxes A A, which are connected together, substantially as shown, and operated through the medium of the arms *h*, rods *j*, and lever-frames D D', one or both, substantially as shown and described.

I also claim the connecting of the two suds boxes A A in such a manner as to allow a space B between them for the rods *j* to work in, substantially as set forth.

I also claim the combination of the hinges *m*, handles F, uprights E, and lever-frames D D', as and for the purposes specified.

I further claim the combination of the two suds boxes A A, lever-frames D D', pressers C C, rods *j*, arms *h*, and springs G, with the lids or covers *b* fluted or otherwise, and all arranged to operate in the manner substantially as and for the purpose set forth.

ASA BLOOD, SR.

Witnesses:

J. A. TURNER,

A. NORRIS.