J. K. ALWOOD.

Washing-Machine.

No. 160,252. Patented March 2, 1875.

Fig. 1.

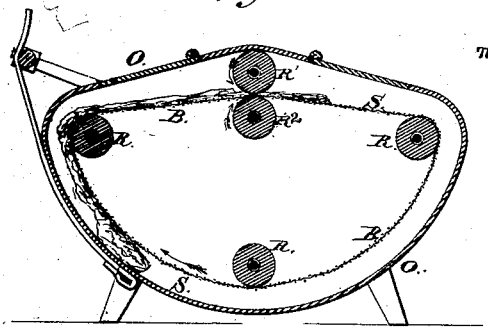


Fig. 2.

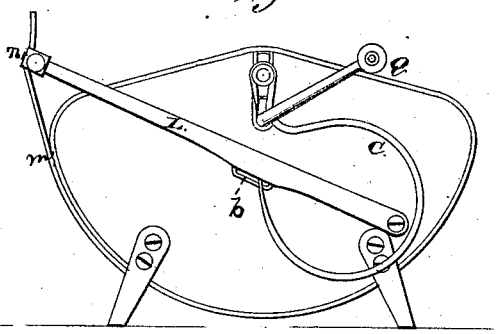


Fig. 3.

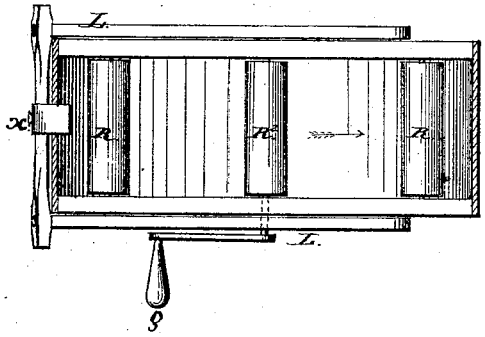
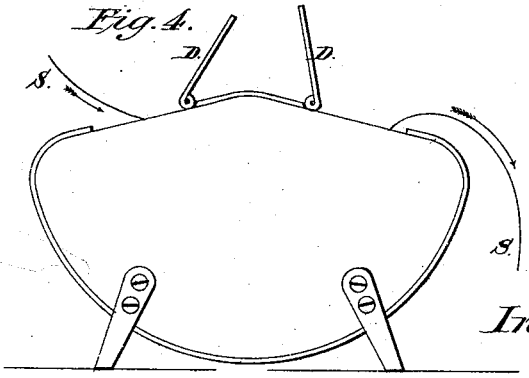


Fig. 4.



Attest:

S. S. Alwood

W. O. Dinius

Inventor:

J. K. Alwood

UNITED STATES PATENT OFFICE.

JOSIAH K. ALWOOD, OF METZ, INDIANA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **160,252**, dated March 2, 1875; application filed September 2, 1874.

To all whom it may concern:

Be it known that I, J. K. ALWOOD, of Metz, Steuben county, State of Indiana, have invented a Clothes Washer and Wringer, of which the following is a specification:

This invention relates to improvements in machines for washing and wringing clothes; and it consists in the construction and arrangement of the parts, as will be hereinafter more fully set forth.

Figure 1 is a longitudinal vertical section of my improved washing-machine. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view. Fig. 4 is a side elevation with the lids of the water-reservoir opened, showing the belts for retaining the clothes.

In the accompanying drawings, *o* represents the reservoir, which constitutes the body of my washing and wringing machine, in the sides of which are journaled the rollers R R R^1 R^2, which carry the wire-cloth belt B, to which the clothes are attached by means of the retaining-belts S S, attached to the edges of the wire-cloth belt in any suitable manner. R^1 is a roller, having its bearings in vertical slots in the side faces of the body of the machine. C C are bent springs, the upper ends of which surround the ends of the journal of the roller R^1, the lower ends of said springs being attached to staples *b* on the lower faces of levers L L, pivoted to the body of the machine. *m* is a strap, the lower end of which is attached to the curved under face of the body of the machine, the upper end of said strap being provided with a series of holes, any one of which may receive the pin *n* on the end of lever L, by means of which the pressure of the roller R^1 on the roller R^2 may be regulated at pleasure. The letter Q is a crank attached to the end of the roller R^2, by means of which a circular motion can readily be imparted to the wire-cloth B, which carries the clothes. D D are hinged lids, applied to the top of the body of the machine.

It will be obvious from my construction that the rollers R^1 R^2 are wringing as well as washing rollers.

The operation of my machine is as follows: Water and soap being introduced into the body of the reservoir, the clothes (preferably contained in a sack) are placed on the wire-cloth D, and retained thereon by the sack belts S S. Circular motion is imparted to the rollers, wire-cloth, and clothes by means of the crank Q, or other equivalent device, by means of which the clothes are carried around and through the water in the reservoir, and between the rollers R^1 R^2, until they are thoroughly cleansed, the rollers R^1 R^2 also serving, at the end of the operation, as wringers.

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

The bent springs C, the upper ends of which surround the journaled ends of the adjustable roller R^1, having their lower ends attached to the staples *b* of the pivoted levers L, in combination with the rollers R R^2 and endless belt B, substantially as and for the purpose set forth.

JOSIAH K. ALWOOD.

Witnesses:
W. O. DINIUS,
S. S. ALWOOD.