

J. K. ALWOOD.
Washing-Machine.

No. 160,252.

Patented March 2, 1875.

Fig. 1.

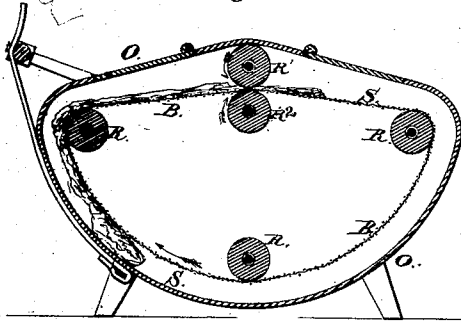


Fig. 2.

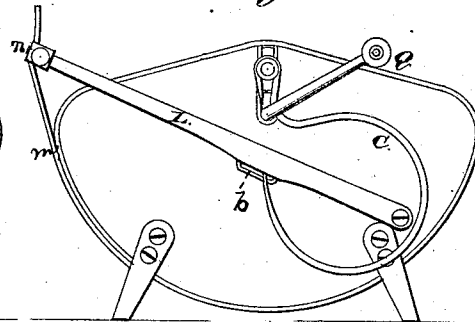


Fig. 3.

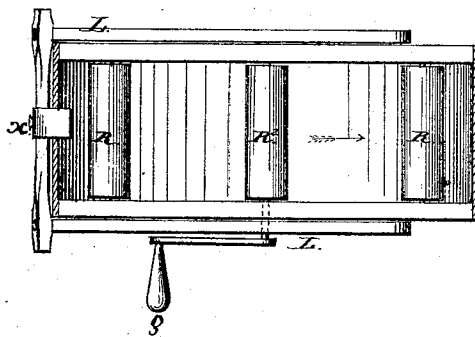
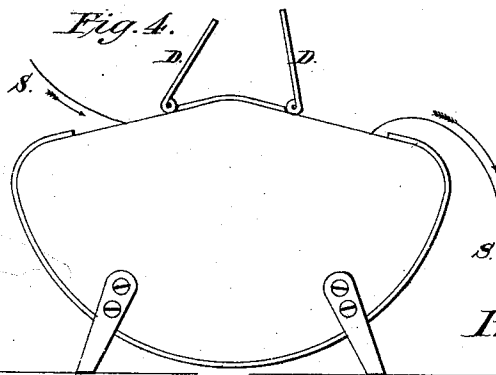


Fig. 4.



Attest:

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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 $R R^1 R^2$, 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.