

J. K. ALWOOD.  
Washing-Machine.

No. 160,252.

Patented March 2, 1875.

Fig. 1.

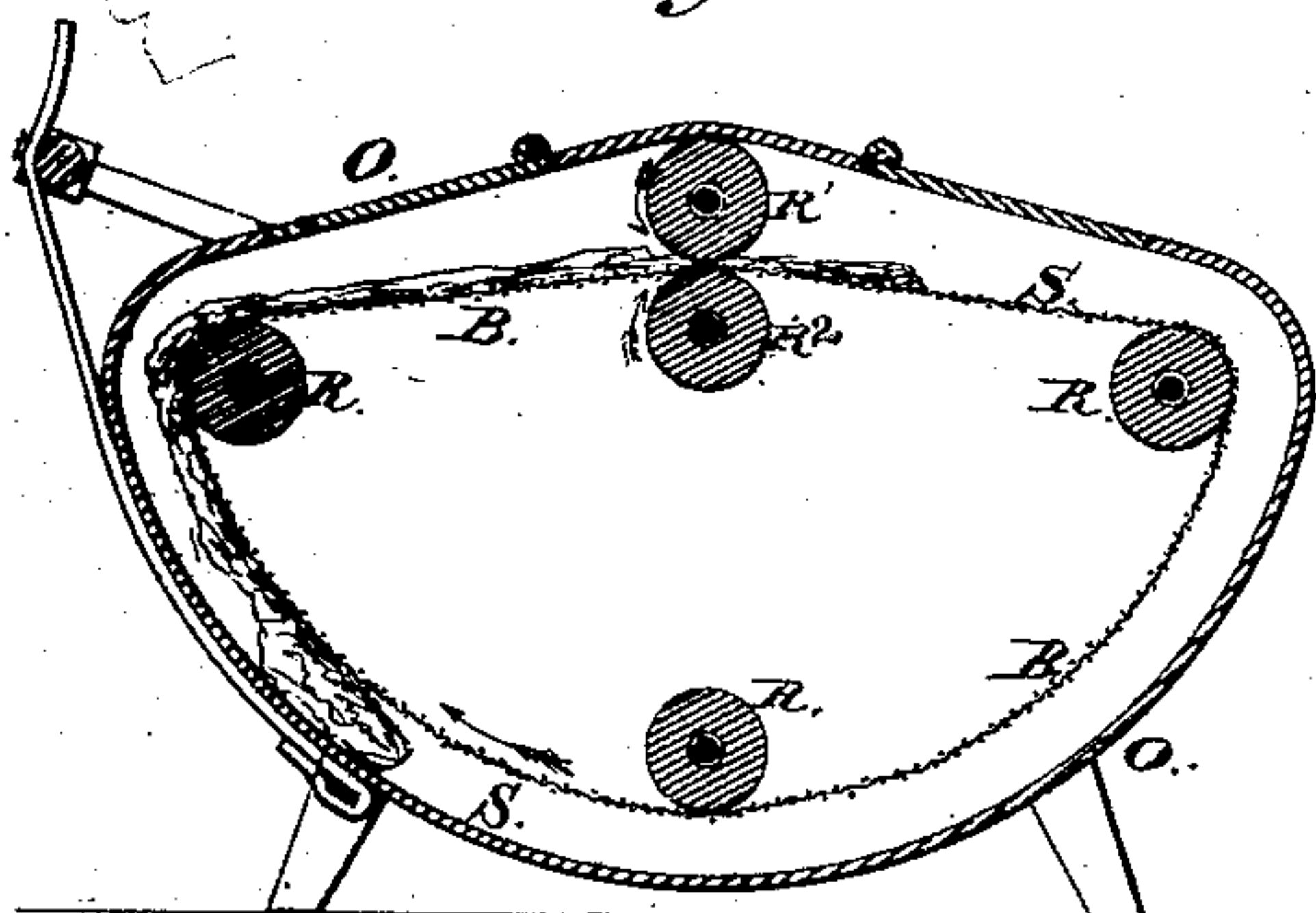


Fig. 2.

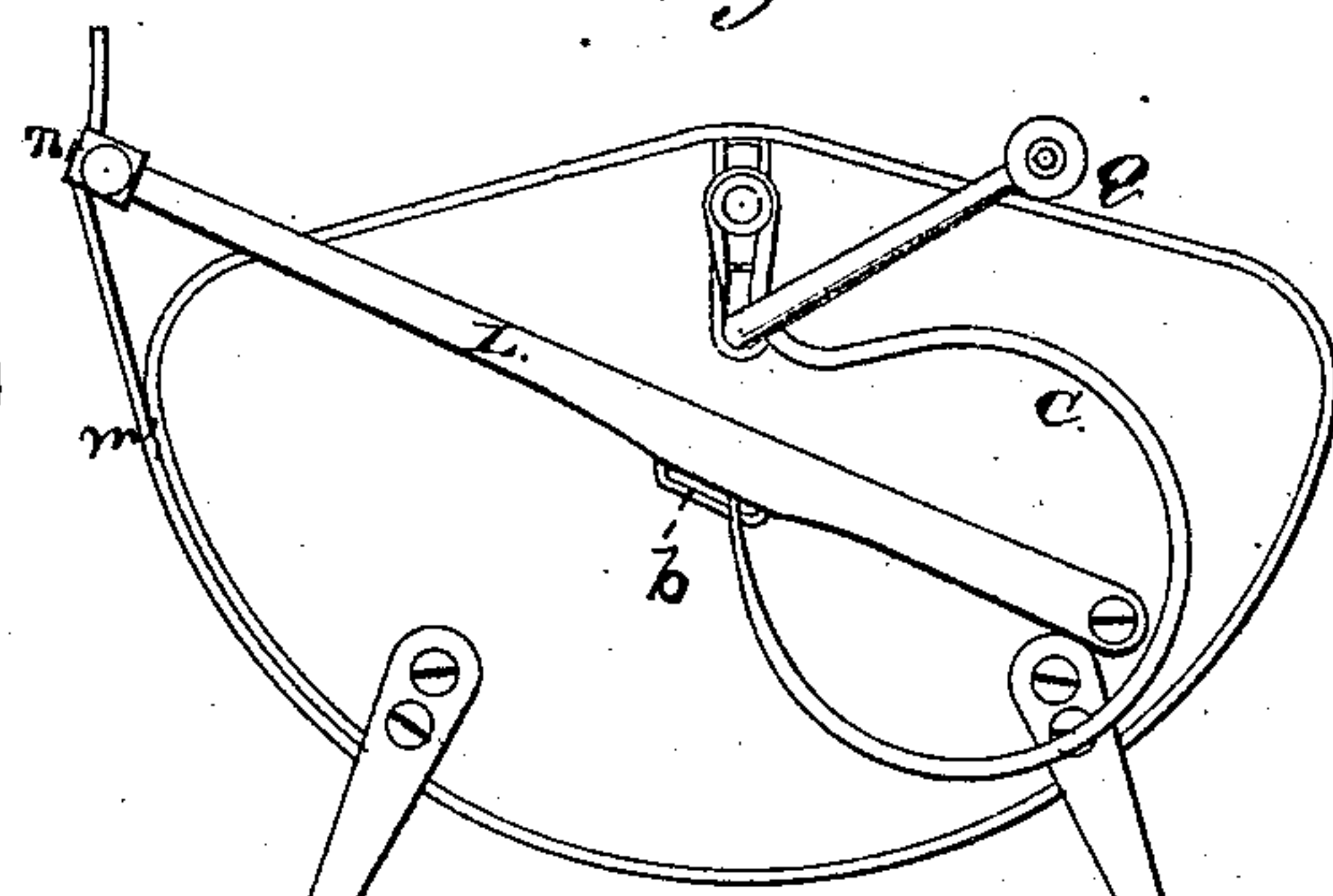


Fig. 3.

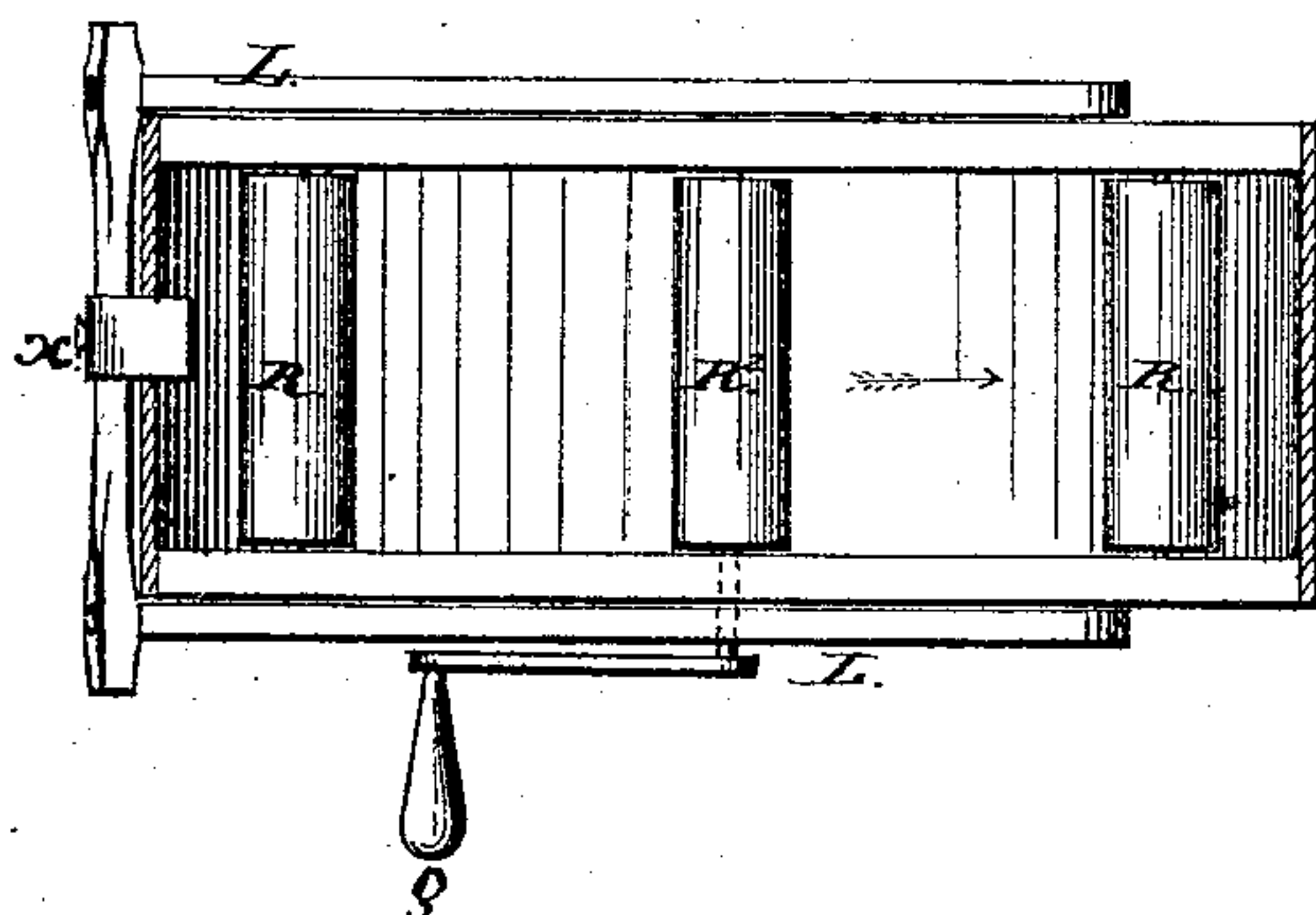
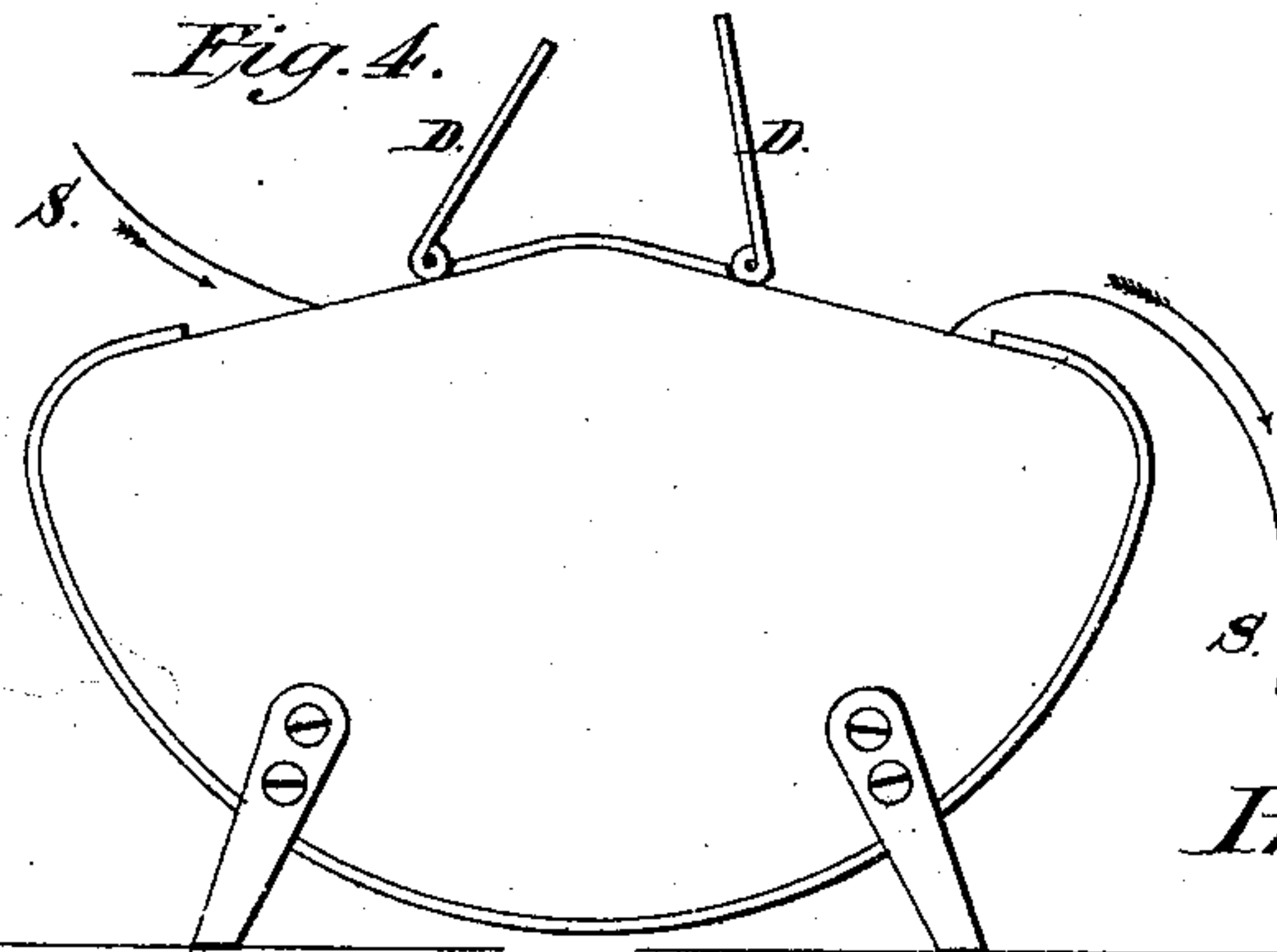


Fig. 4.



Attest:

S. J. Alwood

W. O. Quinn

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  $R$   $R^1$   $R^2$ , 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.