

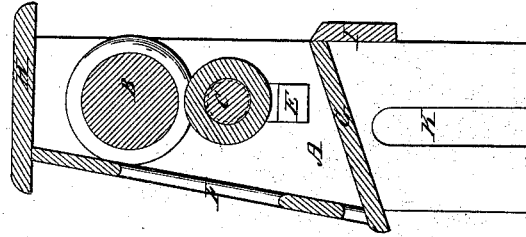
*J. E. Atwood,*

*Wringer.*

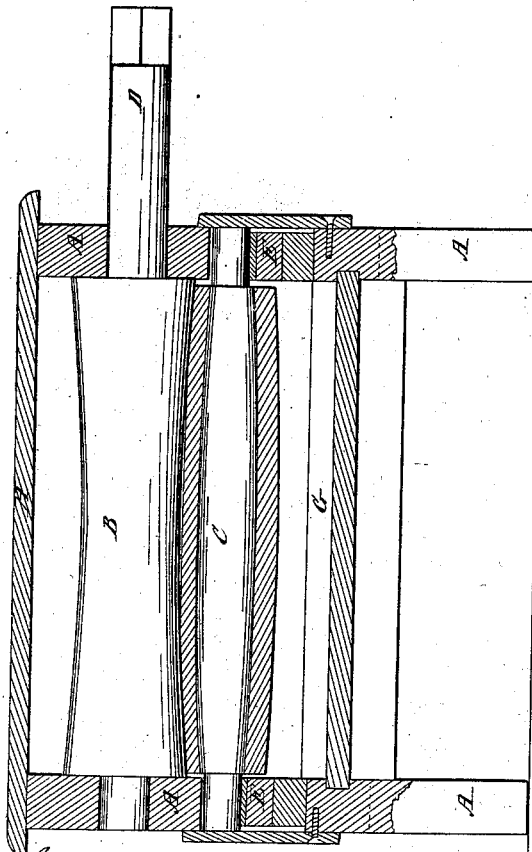
*N<sup>o</sup> 49,361.*

*Patented Aug 15, 1865*

*Fig. 2*



*Fig. 1*



*Witnesses*  
*Edward H. Knight*  
*W. J. Hall*

*Inventor*  
*James E. Atwood*  
*by Munroe*  
*Attorneys*

# UNITED STATES PATENT OFFICE.

JAMES E. ATWOOD, OF LYNN, MASSACHUSETTS.

## WRINGING-MACHINE.

Specification forming part of Letters Patent No. **49,361**, dated August 15, 1865.

### *To all whom it may concern:*

Be it known that I, JAMES E. ATWOOD, of Lynn, in the county of Essex and State of Massachusetts, have made a new and useful Improvement in Wringing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a longitudinal vertical section, the upper roller being in elevation. Fig. 2 is a transverse vertical section.

The improvement consists in the combination of two rollers, one of wood and the other covered with an elastic material—india-rubber in some of its forms preferred—one of the said rollers having a concave face and the other a convex face, so as to correspond approximately in their curves.

To enable one skilled in the art to which my invention is allied to construct and use the same, I will proceed to describe it.

A A are the two side pieces of the frame in which the concave roller B and convex roller C are journaled. The relative position of the rollers may be reversed by placing the concave

one below, if desired. The larger concave roller B is formed of wood, and on its shaft D is the square for the attachment of the hand-crank. The convex roller consists of wood covered with rubber, the wooden core being swelled in the middle and the rubber pipe being drawn over it. Beneath the journals of the lower roller are elastic bearings E, and a board, F, with an elliptic guide-orifice, directs the clothes in their passage to the rollers. A drip-board, G, is placed below to direct the wrung-out water back to the wash-tub, and the cap H and cleat I brace the machine. The upper edge of the tub enters the slot K in the side pieces, A A.

The object of the arrangement is efficiency, economy, and the avoidance of materials injurious to the clothes.

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

The combination of the concave wooden roller and the convex rubber-covered roller, substantially as used, for the purpose described.

JAMES E. ATWOOD.

Witnesses:

W. F. EATON,  
S. G. CLARKE.