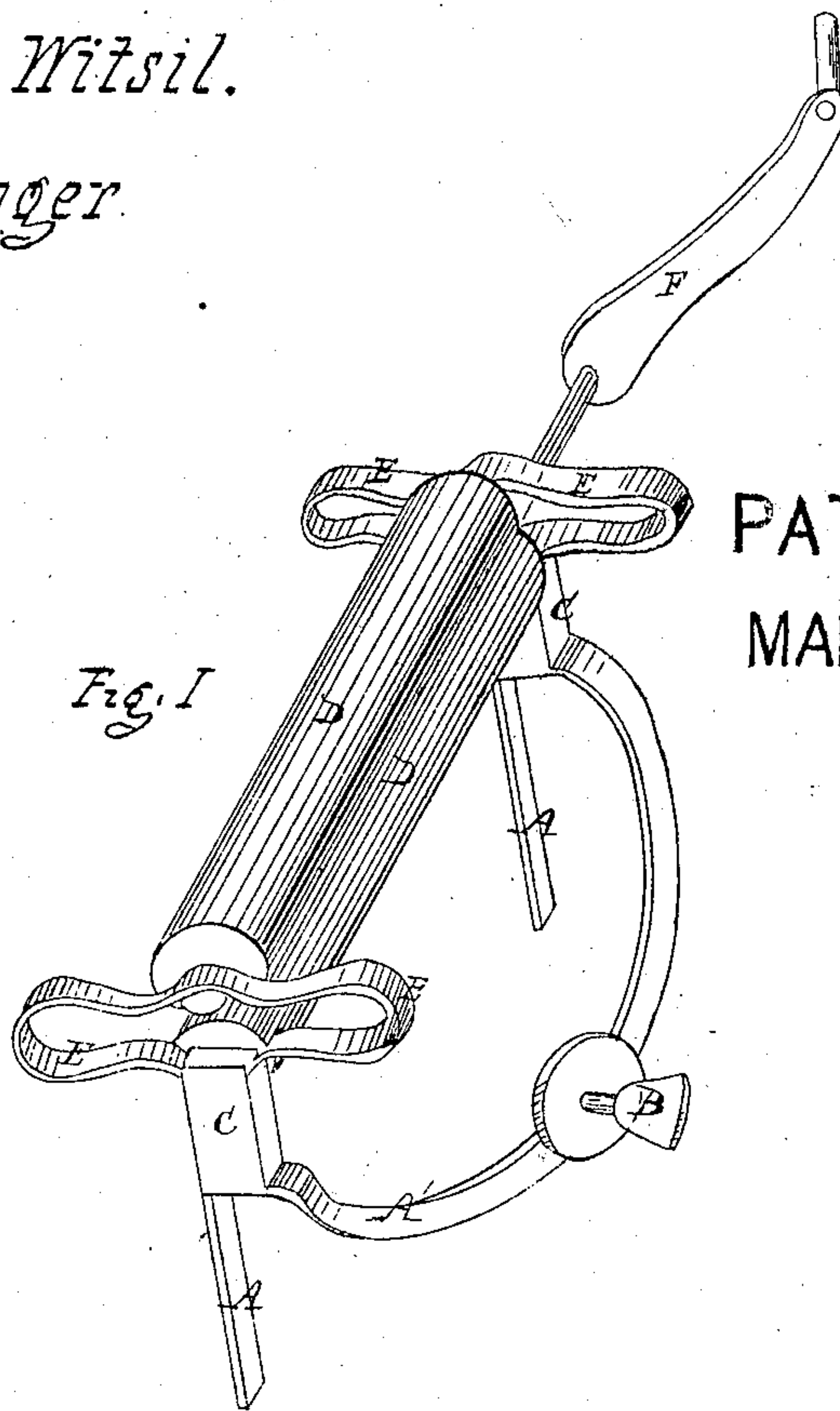


George L. Witsil.

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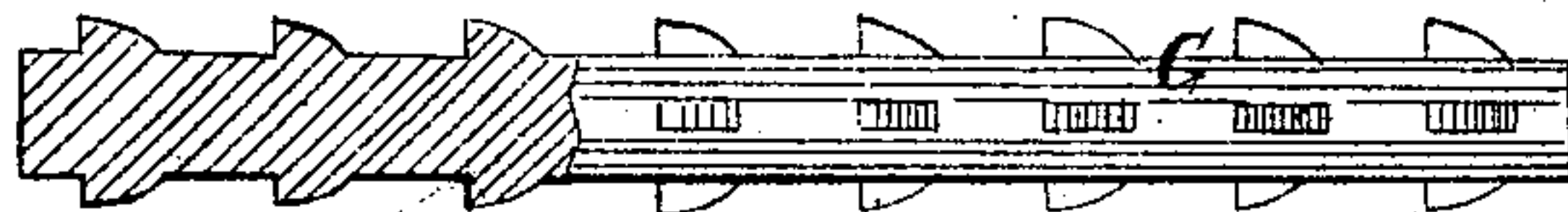
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PATENTED  
MAR 3 1868

Fig. 1

Fig. 2



Witnesses  
*E. H. Sprague*  
*Chas. F. Clausen*

*Geo. L. Witsil*  
Inventor

by  
*D. P. Hollaway & Co*  
Attys

# United States Patent Office.

GEORGE L. WITSIL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO  
THOMAS E. HUNBERGER.

*Letters Patent No. 75,231, dated March 3, 1868.*

## IMPROVED CLOTHES-WRINGER.

*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, GEORGE L. WITSIL, of Philadelphia, in the county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Wringing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view, and

Figure 2 is a side elevation of the shaft of the rollers.

The same letters are employed in all the figures in the designation of the same parts.

My improvements relate to machines for wringing clothes by passing them between elastic rollers, by the compression of which the water is forced from the clothes; and they consist in attaching the elastic facing of the rollers to roughened shafts, so as to prevent the coating from turning on the shaft, and, secondly, in the form and arrangement of the springs by which an equal pressure is maintained upon the clothes subjected to the action of the rollers.

The following description will enable persons skilled in the art to manufacture my improved machine:

The wringer is attached to a cast-iron frame forming jaws, by which it may be secured to the edge of a wash-tub. The parts of the frame A A are straight, and intended to set on the inside of the tub, the semi-circular piece A' extending over the outside of the tub, and being secured in place by the set-screws B. The end-pieces C C of the frame to which the jaws are attached form bearings for the journal of the lower and stationary roller, D'. The upper roller, D, rests upon the lower roller, D', and its journals have their bearings on the under side of the springs E E. The springs are made of steel, bent into the form shown in the drawings. The ends of the strips of steel forming the springs are fastened to the sides of the frame C C. They are bent upwards in the middle of the upper part, to form semicircular recesses to receive the journals of the upper rollers. The springs, while they permit the upper roller to yield to the irregular thickness of the clothes subjected to their action, maintain a constant pressure. The lower roller is turned by a winch, F, attached to the extension of its axle. The roller is formed by a metallic shaft, G, around which an elastic facing of India rubber is cast. In order that this facing may not turn upon the shaft, the latter is formed with projections from its face, as shown in fig. 2.

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

The combination of a fixed roller, D', yielding upper roller D, and springs E, when the latter are formed as set forth, and attached to the frame at both ends, so as to give them staunchness to resist lateral pressure, and also so constructed as to form bearings for the upper roller, by being bent into the shape substantially as set forth.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. L. WITSIL.

Witnesses:

JOHN S. HOLLINGSHEAD,

D. P. HOLLOWAY.