

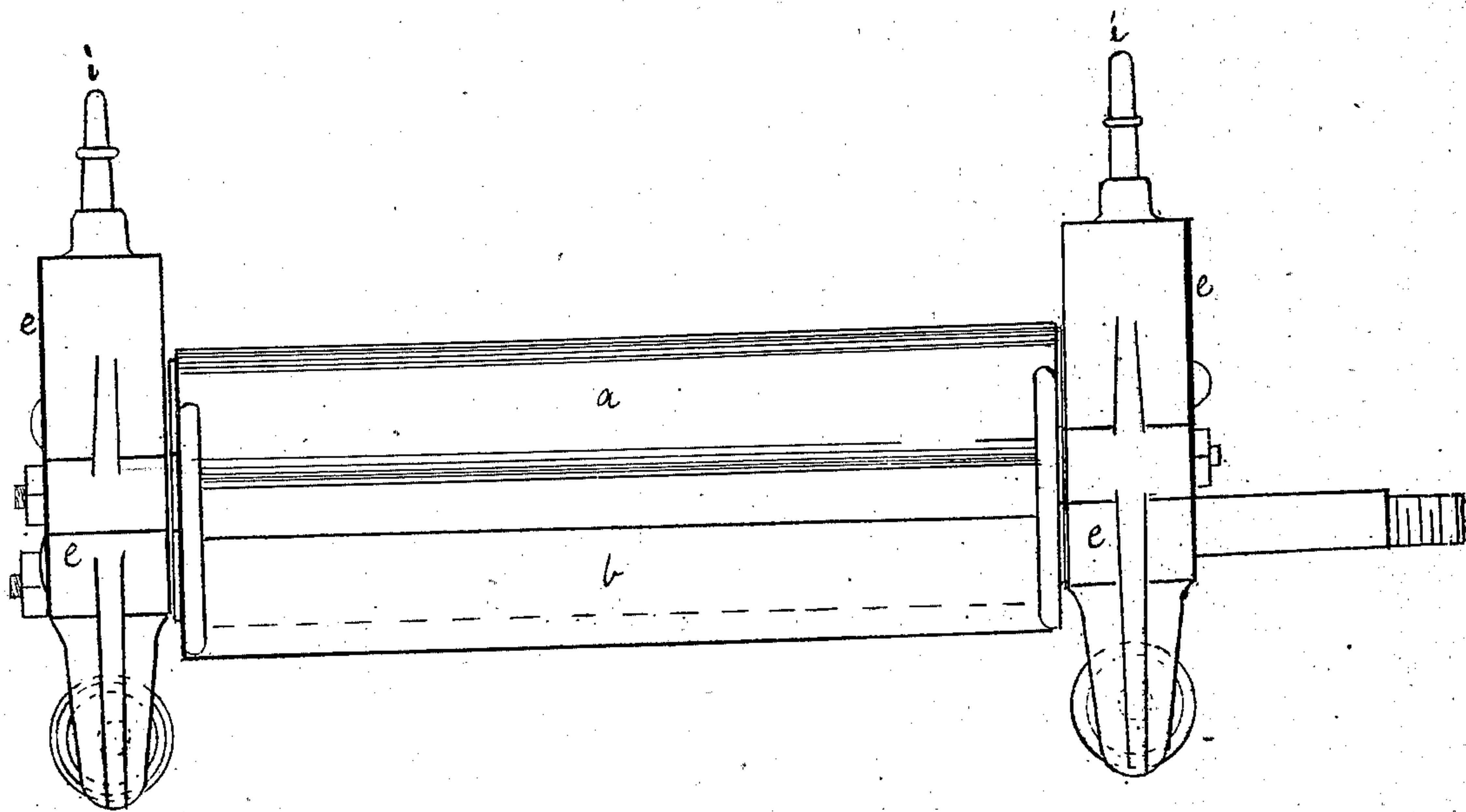
E. Hall Covel's Imp^t on Clothes' Wringers.

PATENTED

FEB 11 1868

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Fig. 1.

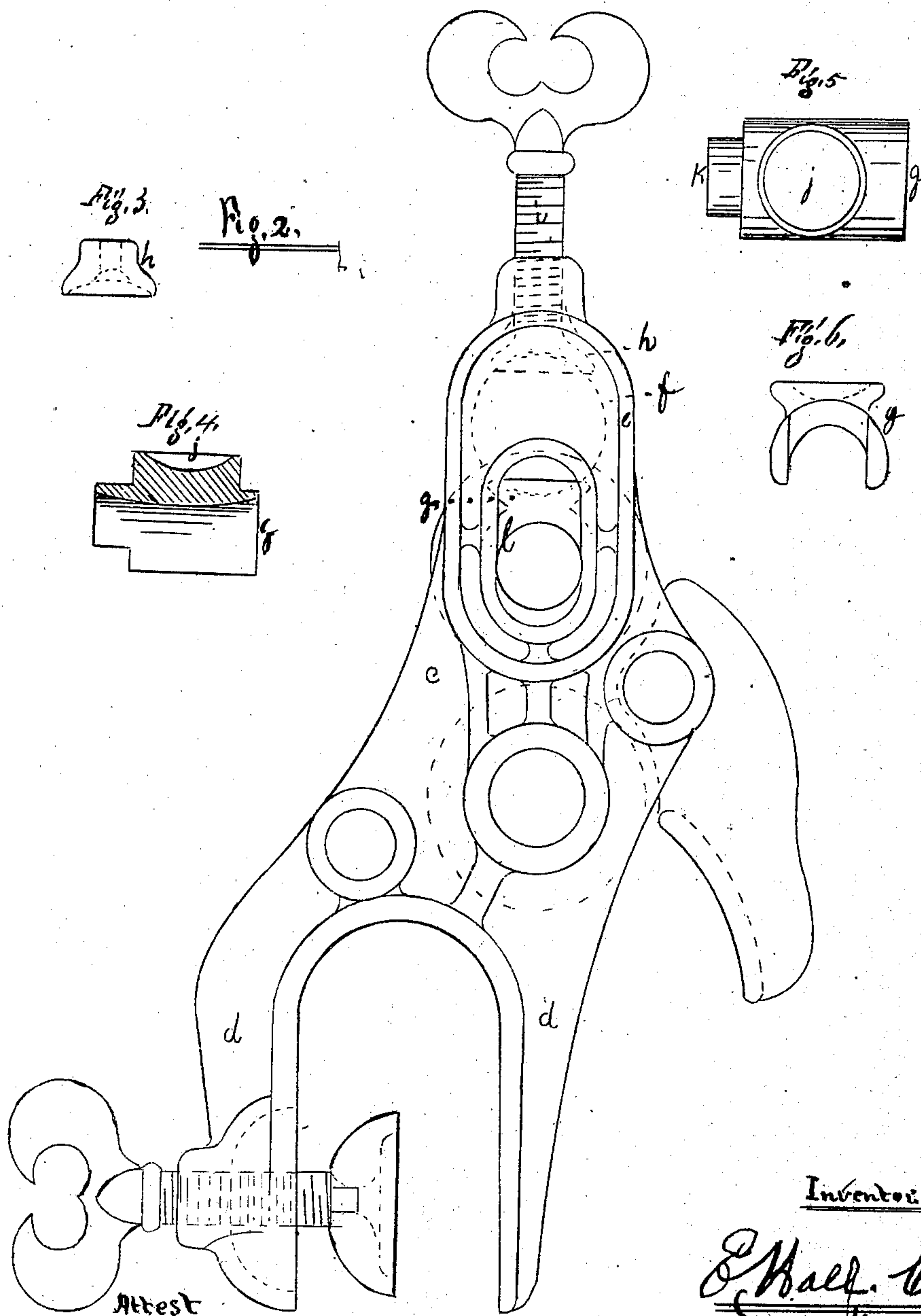


Attest
Egbert Thompson
Chas. J. Everett

Inventor.
E. Hall Covel

E. Hall Bovel's Imp^l on clothes Rings.

Patented Feb 11th 1868.



Attest
Robert Thompson
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United States Patent Office.

E. HALL COVEL, OF NEW YORK, N. Y.

Letters Patent No. 74,201, dated February 11, 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, E. HALL COVEL, of the city of New York, in the State of New York, have invented a certain new and useful Improvement on Clothes-Wringers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters and marks thereon, which said drawings form part of this specification, and show a clothes-wringer having my improvement as a part thereof—

Figure 1 being a side view of the clothes-wringer,

Figure 2 an end view, and

Figures 3, 4, 5, and 6, views of the box and adjusting-cup.

In each of these figures like parts are indicated by like marks and letters.

The rollers *a* and *b* have their bearings in the frames *c*, to the lower ends of which are the clamping-arms *d*. In each of the frames *c* there is a box, *e*, for containing a ball, *f*, made of rubber or some suitable elastic material, which ball is interposed between the box *g*, which rests on the shaft of the upper roller, and the cup *h*. To the cup *h* an adjusting-screw, *i*, is shown attached, though in some cases the screw may be omitted, as the parts will have considerable adjustment without the screw. The box *g* is cupped, *j*, on its upper surface for the fitting therein of the ball, and on its inner surface is inclined from its centre towards each end, as shown by fig. 4, for allowing a certain amount of play of the shaft, when the pressure on the rollers is unequal, as will occur when the amount of the clothes or fabric is thicker or greater near one end of the roller. The box *g* has a projection, *k*, of smaller diameter than its main part, which fits into the slot *l* of the chamber, and by which it is guided in its play or motions.

By using a ball for the spring instead of some other shape, I secure a very durable elastic bearing, as in the use of the wringer the ball will have some rotation, and thus different portions of its surface be the subject of wear; and this disposition to rotate will be promoted by its being chambered, and having the cupped bearings above and below it.

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

1. The chamber in the upper part of the frame, for holding the ball, in combination with the cup *h* above the ball, for the purposes herein recited.

2. The ball *f*, made of rubber or some elastic material for forming a spring-bearing for the rollers, substantially as described.

3. The double inclined box *g*, for the adjustment of the rollers, in combination with the ball *f*, as and for the purpose specified.

This specification signed, this 24th day of January, 1868.

E. HALL COVEL.

Witnesses:

THOS. T. EVERETT,

EGBERT THOMPSON.