J. A. PARK.

Improvement in Clothes-Wringers.

No. 132,687. Patented Oct. 29, 1872.

Fig. 1.

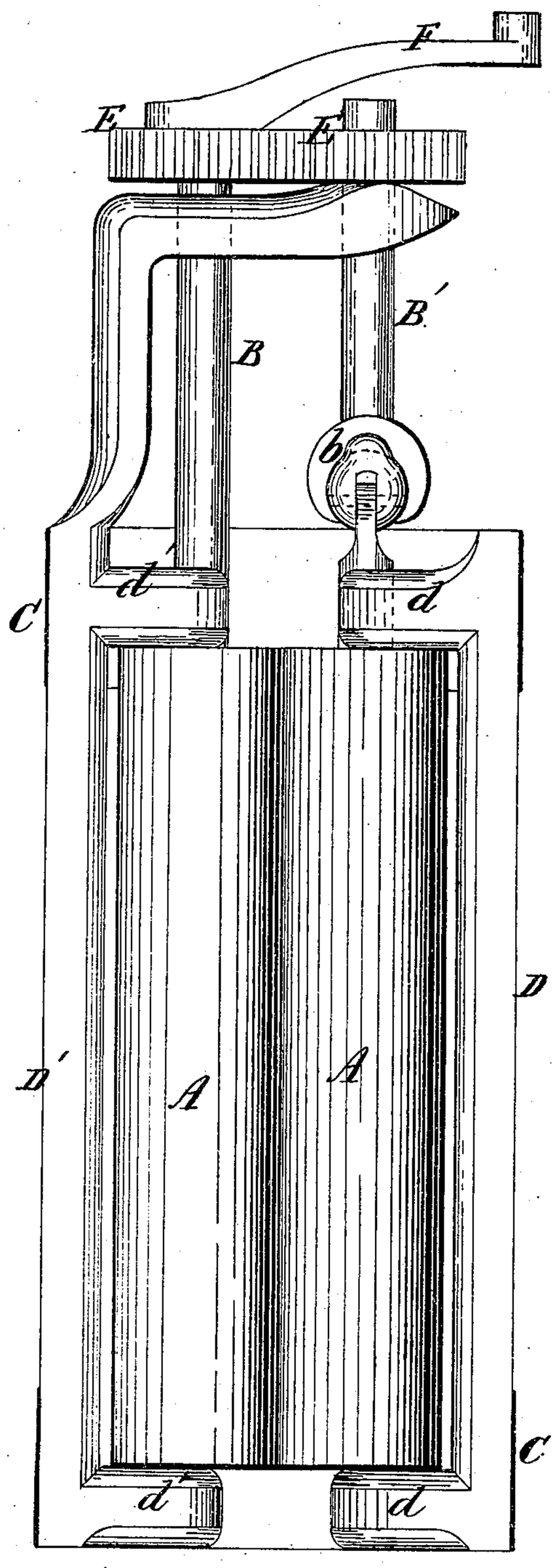
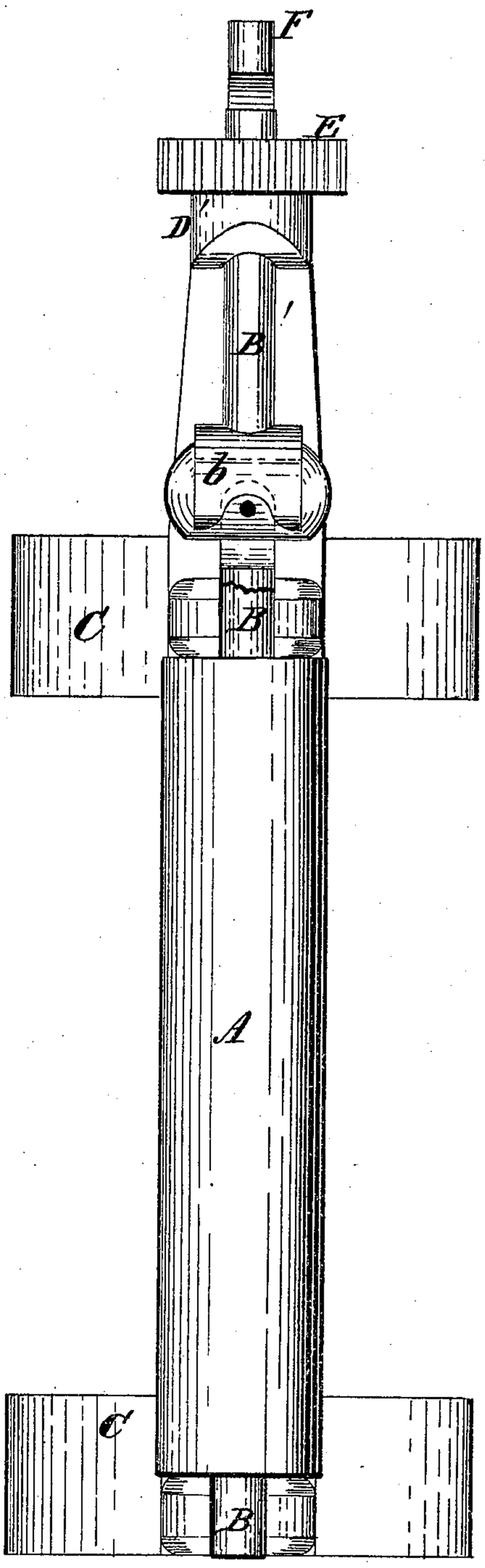


Fig. 2.



WITNESSES

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JAMES A. PARK, OF LANSING, MICHIGAN.

IMPROVEMENT IN CLOTHES-WRINGERS.

Specification forming part of Letters Patent No. **132,687**, dated October 29, 1872.

To all whom it may concern:

Be it known that I, JAMES A. PARK, residing in Lansing, county of Ingham and State of Michigan, have invented certain Improvements in Clothes-Wringers, of which the following is a specification:

In the annexed drawing, Figure 1 represents a side view of my wringer; and Fig. 2 a plan view of the same, with one of the rolls removed and the springs taken in section.

Identical parts in both figures are designated by corresponding letters.

This invention relates to an improved clothes-wringer; and it consists of the combination, with the rolls, of the hoop-shaped springs; and, further, in the use of a universal joint in connection with one of the roll-shafts, substantially as hereinafter more fully set forth and specifically pointed out in the claims.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

In the accompanying drawing, A A refer to two ordinary rubber rolls, the shafts B B′ of which have their bearings in the recessed or contiguous ends of the right-angular portions *d d′* of the longitudinal bars D D′, which bars, in connection with hoop-shaped springs, to be hereinafter referred to particularly, constitute the frame of the wringer. The bar D′ is made to extend some distance beyond its right-angular portion *d′*, and thence at right angles with the roll-shafts B B′, which pass through the said bar, thereby forming a support and means for retaining the said shafts at their projecting ends in proper place. Instead of being in one, as shown, the said bar D′ may be made in two or more pieces. The roll-shaft B′ is furnished with a universal joint, *b*, so as that its projecting end, or that extremity to which its gearing is attached, may have an independent movement, whereby, when the rolls are thrown apart or separated, the gearing through which motion is imparted to the said rolls will not be interrupted in its movement. C C refer to two hoop-shaped springs within, and to which are fastened the longitudinal bars *d d′*, together with which the former, as already stated, constitute the frame of the wringer. It will be observed that simply by means of these springs, which also hold in place the bars *d d′*, the rolls A A are rendered susceptible of vertical movement, or, in other words, made capable of being thrown apart or separated, whereby space between them may be created for the reception and passage of the clothes or other articles to be wrung after washing, and also such as will permit of articles of various sizes being passed between them. E E are gear-wheels attached to the protruding ends of the roll-shafts, and are for communicating motion to the rolls A A. A handle, F, is supplied to the roll-shaft B for operating the said gearing.

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

1. The metallic hoop-shaped springs C C, bars *d d′*, and rollers A A, substantially as and for the purpose set forth.

2. The springs C C, bars *d d′*, rolls A A, shafts B B′ *b*, all combined and arranged to operate substantially as and for the purpose set forth.

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

JAMES A. PARK.

Witnesses:

A. WHEELER,

O. WHEELER.