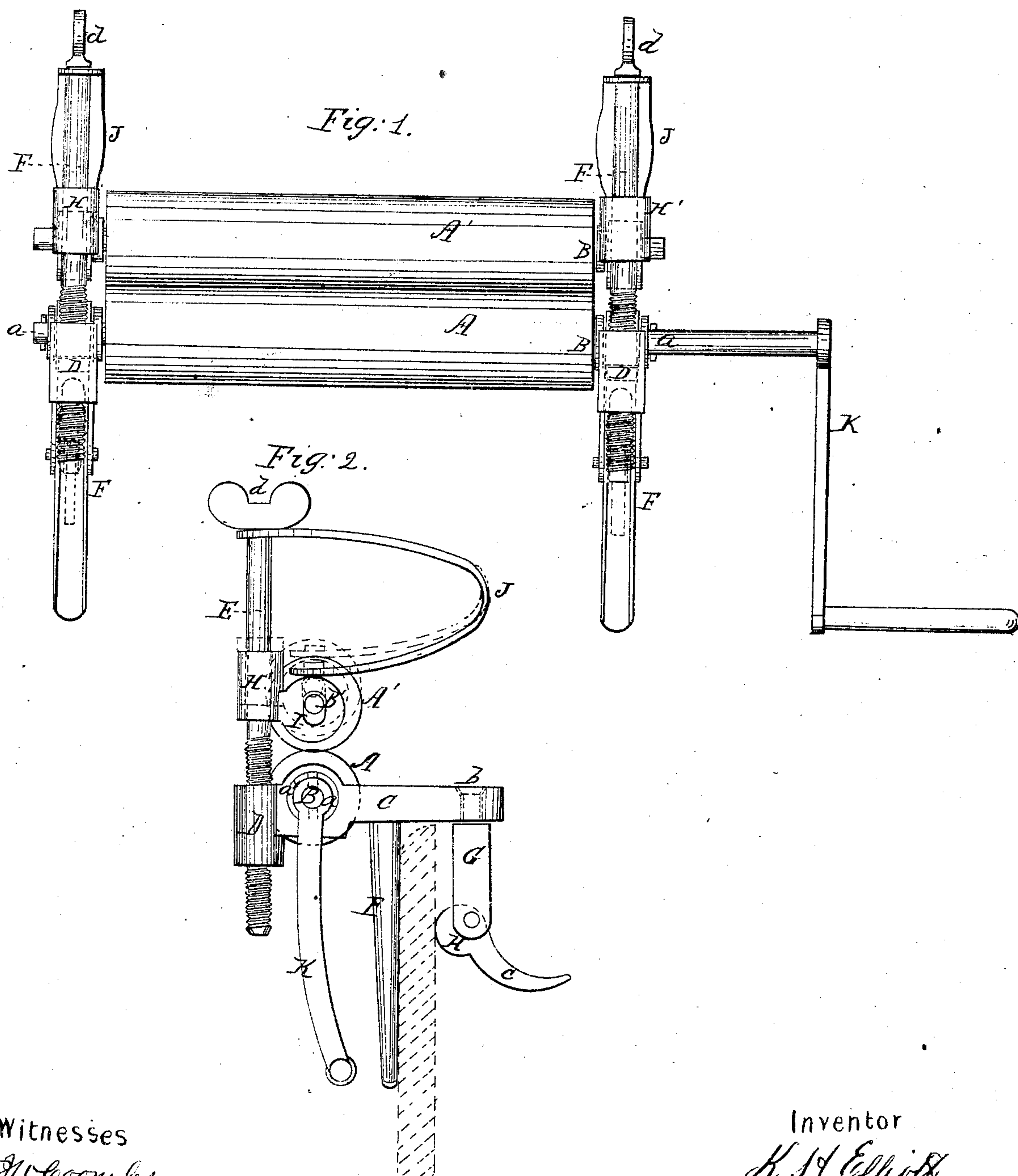


*K. H. Elliott*  
*Clothes Wringer.*

*No 34,885.*

*Patented April 8-1862.*



Witnesses  
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# UNITED STATES PATENT OFFICE.

KING H. ELLIOTT, OF EDEN, VERMONT.

## IMPROVED CLOTHES-WRINGING MACHINE.

Specification forming part of Letters Patent No. 34,885, dated April 8, 1862.

*To all whom it may concern:*

Be it known that I, KING H. ELLIOTT, of Eden, in the county of Lamoille and State of Vermont, have invented a new and Improved Clothes Washing and Wringing Machine; 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, making a part of this specification, in which—

Figure 1 is a front view of my invention; Fig. 2, a side view of the same.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to an improved clothes washing and wringing machine of that class in which india-rubber pressure-rollers are employed, and has for its object a greater facility than hitherto in attaching the machine to the tub, and also a more convenient and perfect mode of graduating the pressure of the rollers, so that clothes of various kinds and thicknesses may all be operated upon in a proper manner by one and the same machine.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A A' represent two rollers, which are constructed of india-rubber, and are placed, respectively, on shafts B B'. The rollers A A' are placed one over the other in the same axial plane, and the journals *a a* of the lower roller A are fitted in bearings *a'* in arms C C, one end of which has nuts D D attached, one to each, in which vertical screw-rods E E are fitted. To each arm C a pendent bar F is secured permanently, and there is also secured to each arm C a pendent bar G by means of a swivel-connection *b*. These swivel-connections may be formed of a pin or tenon passing loosely through the arms, headed or riveted at their upper ends, and secured at their lower ends to the upper ends of the bars G, as shown by the dotted lines in Fig. 2. The bars G are near the outer ends of the arms C, some distance from the bars F, and in the lower end of each bar G there is fitted a cam H, provided with a handle *c*. (See Fig. 2.)

On each screw-rod E there is placed a loose collar H'. These collars are allowed to work freely up and down on the screw-rods, and to

the collars the bearings I of the upper roller-shaft B' are connected. These bearings I are of elliptical form or oblong in a vertical direction, so as to admit of the journals of shaft B' having a certain degree of vertical play. This is shown clearly in Fig. 1.

J J represent curved springs, the lower ends of which are permanently attached to the bearings I I, and through the upper ends of these springs the screw-rods E E pass, the springs bearing against the under side of thumb-pieces *d d*, which serve as stops. To one end of the journals *a* of the lower roller-shaft B there is secured a crank K.

The implement is used as follows: It is secured to the tub or other article by placing it on the upper edge of the same, the bars F being at the inner and the bars G at the outer side thereof, and then by turning the cams H the latter are made to bind firmly against the outer side of the tub, while the bars F are drawn snugly against its inner side, as will be fully understood by referring to Fig. 2, in which a section of the tub is shown in red. In consequence of having the cam-bars G attached to the arms C C by swivel-connections, as described, the cams H may be adjusted at right angles with the surface of the tub at the point where they are to bear or press whatever the curvature of the tub may be and the implement rendered capable of being adjusted to either curved or plane surfaces, which is an important feature, as a rectangular box may be used in certain cases to contain the suds instead of a round tub. The clothes pass from the tub between the rollers A A', and are forced between the latter by the rotation of the same, the operator turning the lower roller A through the medium of the crank K. The clothes are subjected to a greater or less pressure by turning the screw-rods E E, which regulate the tension of the springs J J, and as the journals of the upper roller-shaft B' are allowed a certain degree of vertical play in their bearings I I it follows as a matter of course that either end of the upper roller A' may yield or give independently of the other and said roller be capable of adjusting itself to the clothes while the latter are passing under it. If the journals of the shaft B' were fitted snugly in their bearings, one would bind in its bearing as the other was raised, and the



journals be thereby bent or broken. This contingency is avoided by the oblong or elliptical bearings I, which admit of the journals aforesaid assuming an oblique position in them.

It will be seen that the nuts D D of the arms C C also perform an important function, as they admit of the screw-rods E E acting upon the springs J J in order to graduate their tension and regulate the pressure of the rollers A A' upon the clothes.

The device as a whole is extremely simple and efficient, the pressure of the rollers being capable of being graduated with the greatest nicety to suit fine or coarse clothes, so that all may be perfectly operated upon without detriment or any injury whatever.

I do not claim, broadly or separately, the employment or use of india-rubber pressure-rollers for washing and wringing clothes, nor do I claim the application of springs to said

rollers irrespective of the arrangement and combination of parts herein shown and described; but

I do claim as new and desire to secure by Letters Patent—

1. The combination of the screw-rods E E, springs J J, loose collars H' H', and nuts D D, arranged in relation with the bearings I of the roller-shafts B B', to operate as and for the purpose herein set forth.

2. The pendent fixed bars F, in combination with the swivel-bars G, with cams H at their lower ends, the above bars being attached to the arms C C of the machine, and arranged substantially as and for the purpose specified.

KING H. ELLIOTT.

Witnesses:

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