

(No Model.)

A. L. SLAGER.
CLOTHES WRINGER.

No. 432,495.

Patented July 15, 1890.

Fig. 1.

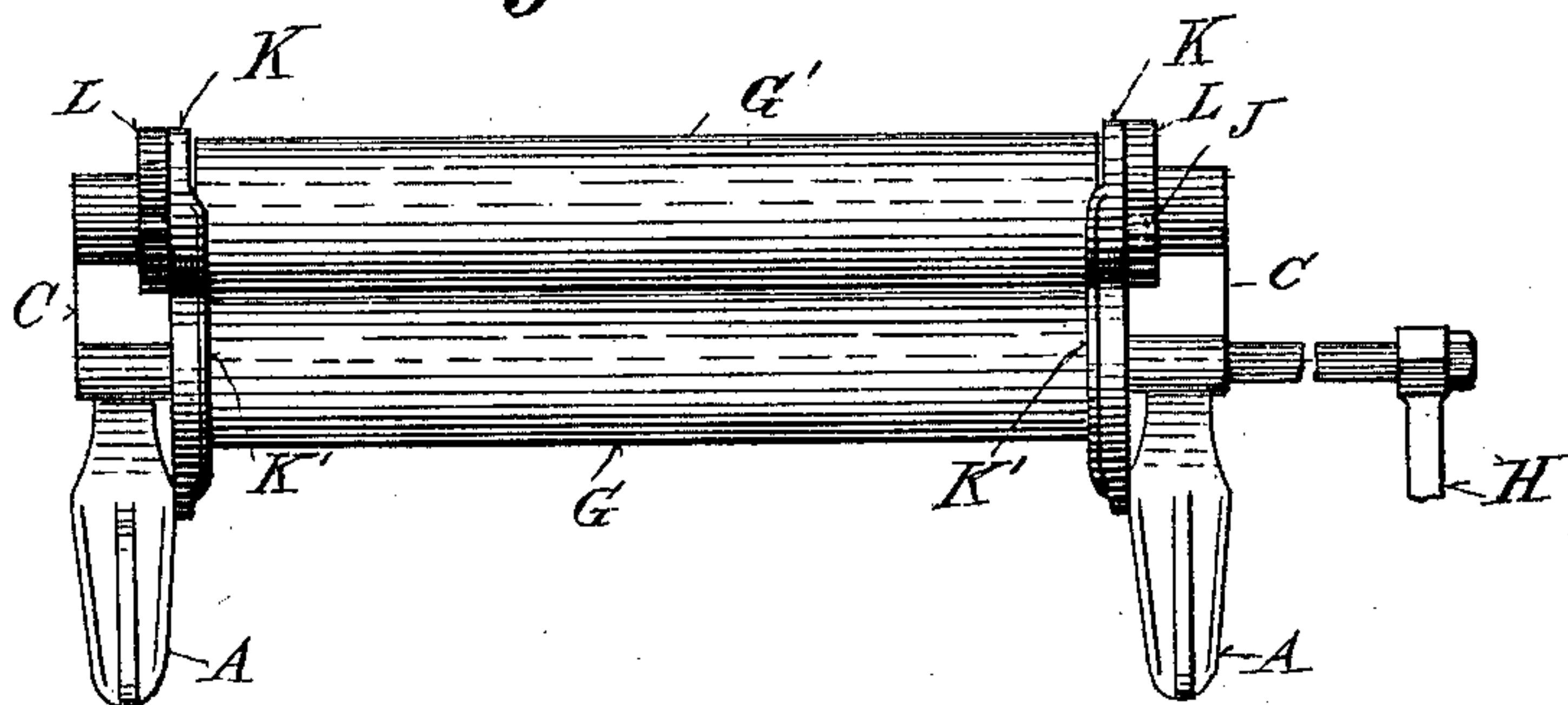


Fig. 2.

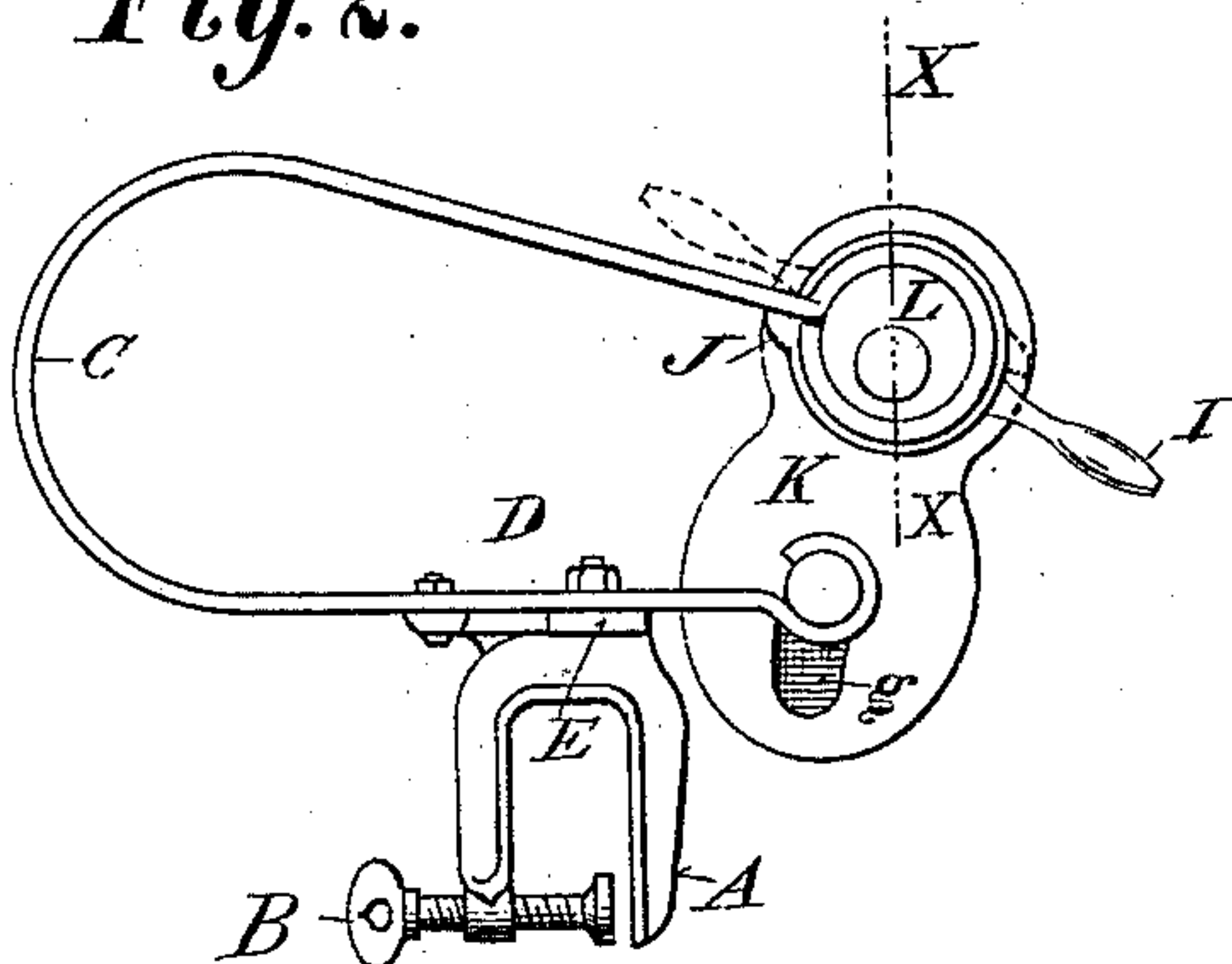


Fig. 3.

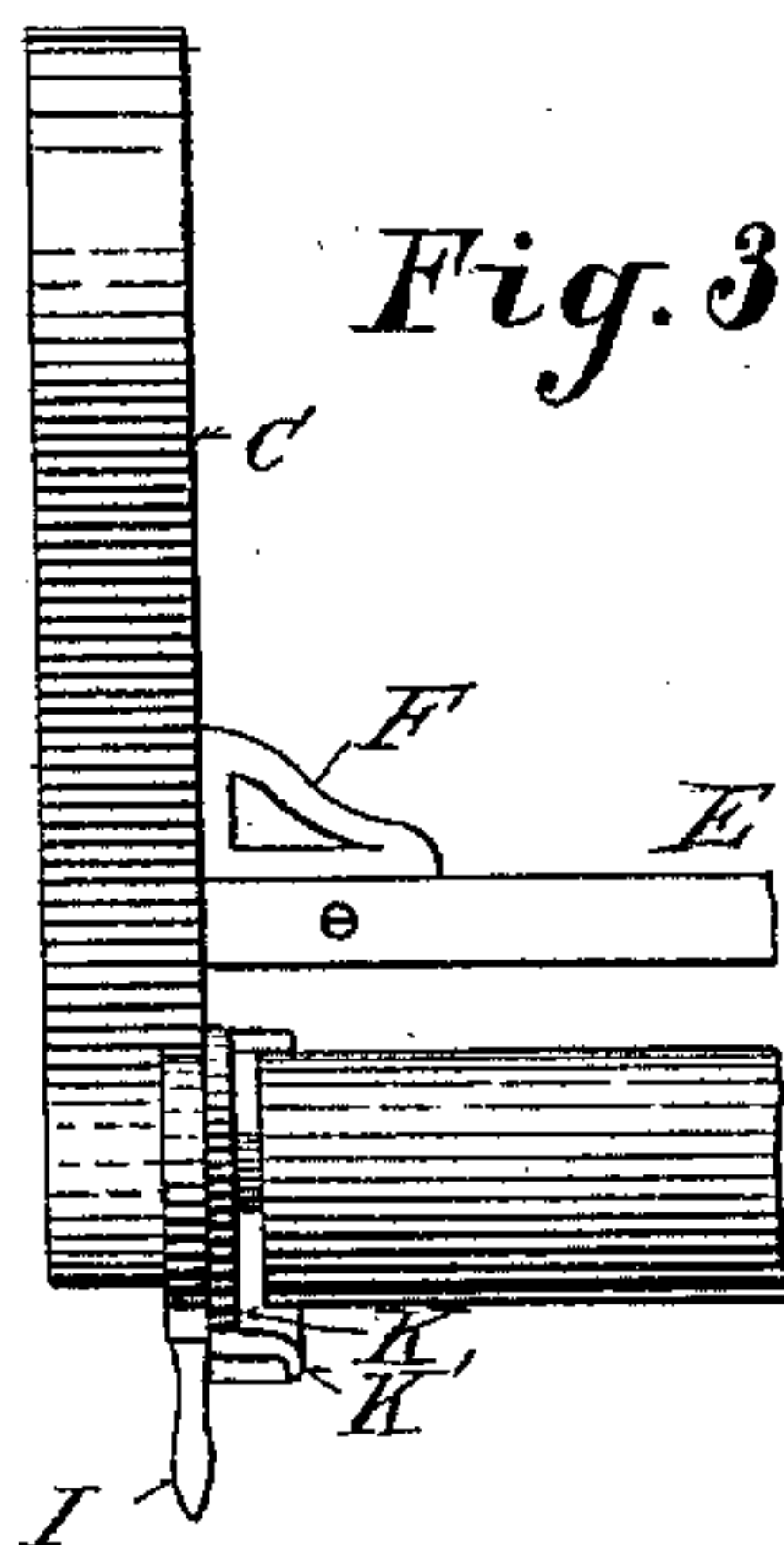
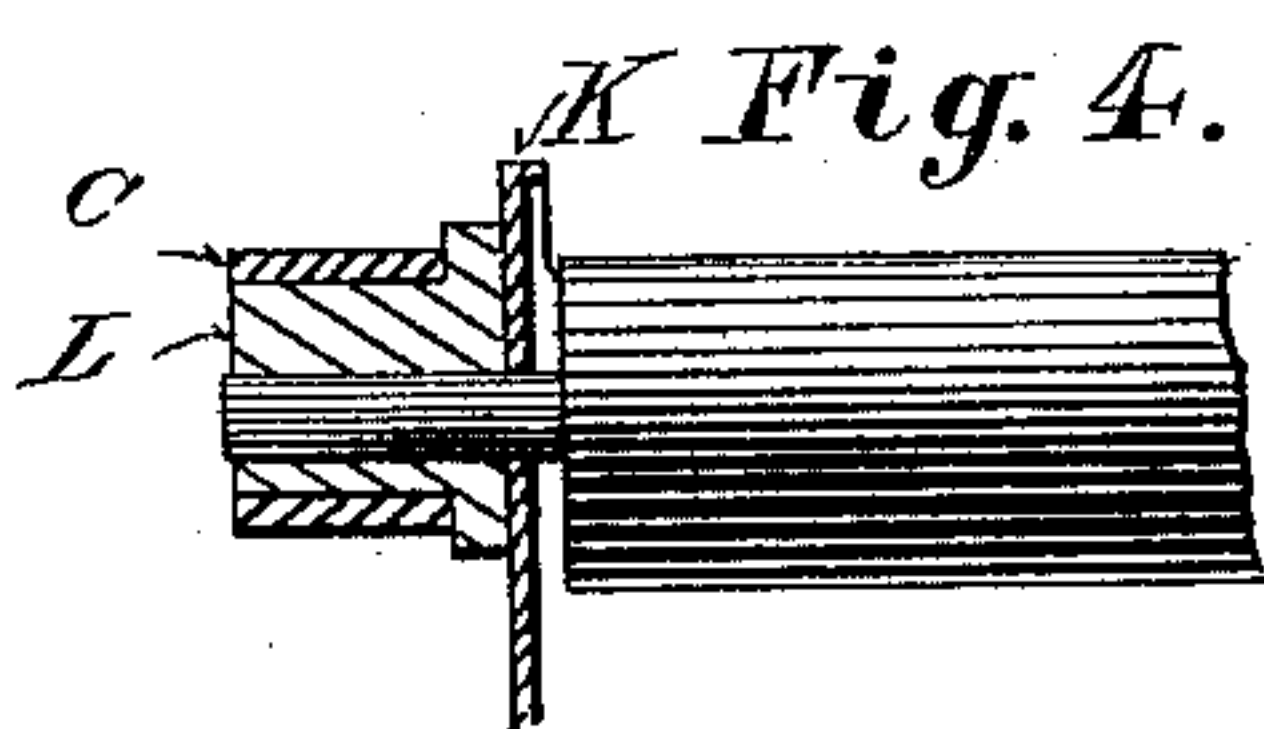


Fig. 4.



Witnesses
Warden Bull
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UNITED STATES PATENT OFFICE.

ALBERT L. SLAGER, OF SPRINGFIELD, OHIO.

CLOTHES-WRINGER.

SPECIFICATION forming part of Letters Patent No. 432,495, dated July 15, 1890.

Application filed January 25, 1890. Serial No. 338,067. (No model.)

To all whom it may concern:

Be it known that I, ALBERT L. SLAGER, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Clothes-Wringers, of which the following is a specification, reference being had thereto to the accompanying drawings.

My invention relates to certain new and useful improvements in clothes-wringers; and it consists of means conveniently to vary the effective pressure on the rollers by mounting the same in spring-controlled eccentric-bearings, whereby the relation of said rollers to each other is quickly varied according to the amount of pressure desired on the material passing between them, and the proper shape of the rollers is preserved by reducing the working-pressure to a minimum when they are not in use.

In the accompanying drawings, forming a part of this specification, and in which like reference-letters indicate corresponding parts, Figure 1 represents a side view of a wringer with a portion of the crank thereof; Fig. 2, an end view of the same; Fig. 3, a plan view of one end of a wringer; and Fig. 4, a partial section on the line $x x$, Fig. 2, showing one end of a roller mounted in its eccentric-bearing, a spring engaging the bearing and a portion of one end plate of the wringer.

The letter A designates clamps by which the wringer is supported on the edge of a wash-tub, for instance, and secured thereto by screws B, mounted in one side of each clamp and adapted to engage the side of said tub. A U-shaped spring C, of rectangular section, is carried by each clamp, secured thereto by bolts D and stayed by a cross-bar E, (interposed between each spring and clamp,) that is braced where it joins said springs by brackets F, secured to bar and springs and keeping them square and rigid in adjustment. This forms the frame of the wringer. The free ends of the said springs C C are bent into eyes to form bearings, in the lower set of which is mounted the arbor of the lower roller G, having a crank H preferably mounted on an extended end thereof. An eccentric-box L is mounted in the eye in the upper end of

each spring C, so as to be rotated by a handle I until arrested by a stop J coming in contact with the under side of the spring C, and having the arbor of the upper roller G' revolutely mounted in said box. These upper eyes embrace the said arbor and box, and preferably allow of lateral disengagement only. This box is provided with an inside collar only to allow of lateral disengagement from its spring. The ends of each spring are adjusted at various distances apart, according to the degree of rotation given to the eccentrics, whereby the pressure of the springs C C on the said rollers, due to said adjustments, respectively, is also varied. The adjustment from the least to the greatest pressure is obtained by simply turning each handle I from the dotted position in Fig. 2 to that shown in full lines.

The object of the stop J is to arrest the eccentric-box when it arrives at the position giving the greatest pressure on the said rollers due to the increased tension on the spring and the eccentricity of the said box. The ends of the said rollers are protected and connected by end plates K, having the sides turned up, as shown at K' in Fig. 1. They also serve to guide the clothes between the rollers. The arbor of the upper roller passes through a circular opening in each plate and supports the same. The opening for the arbor of the lower roller is slotted, as shown at g, Fig. 2, to allow the rollers to adjust themselves with respect to each other, according to the pressure of the said springs, and also to the amount of material passing between them. Thus it will be observed that by my improved device the tension of the springs may be increased or decreased for the purpose of regulating the pressure of the rollers on the interposed material by the manipulation of the arms or levers I when the device is to be used, while by a reverse movement of such arms or levers the rollers are relieved of severe impact, and the consequent flattening of one another, due to such impact when put away in a wet condition or even in a dry condition, is avoided, and the life and utility of the device lengthened to the advantage of the purchaser.

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

In a clothes-wringer, the combination, with
5 a rigid frame, U-shaped springs having eyes,
and suitable rollers carried thereby, of eccentric-bearings rotatably mounted in said
springs to carry one of said rollers, and
adapted to increase the acting pressure of
10 the rollers by separating the ends of said
springs, and also having an inside collar only,

provided with a handle and a stop, whereby the springs are adapted to be laterally disengaged from said bearings, and end plates having turned-up sides.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT L. SLAGER.

Witnesses:

WARREN HULL,
H. M. PLAISTED.

15