

No. 671,533.

Patented Apr. 9, 1901.

H. G. ANDERSON.
CLOTHES WRINGER.

(Application filed Sept. 10, 1900.)

(No Model.)

2 Sheets—Sheet 1.

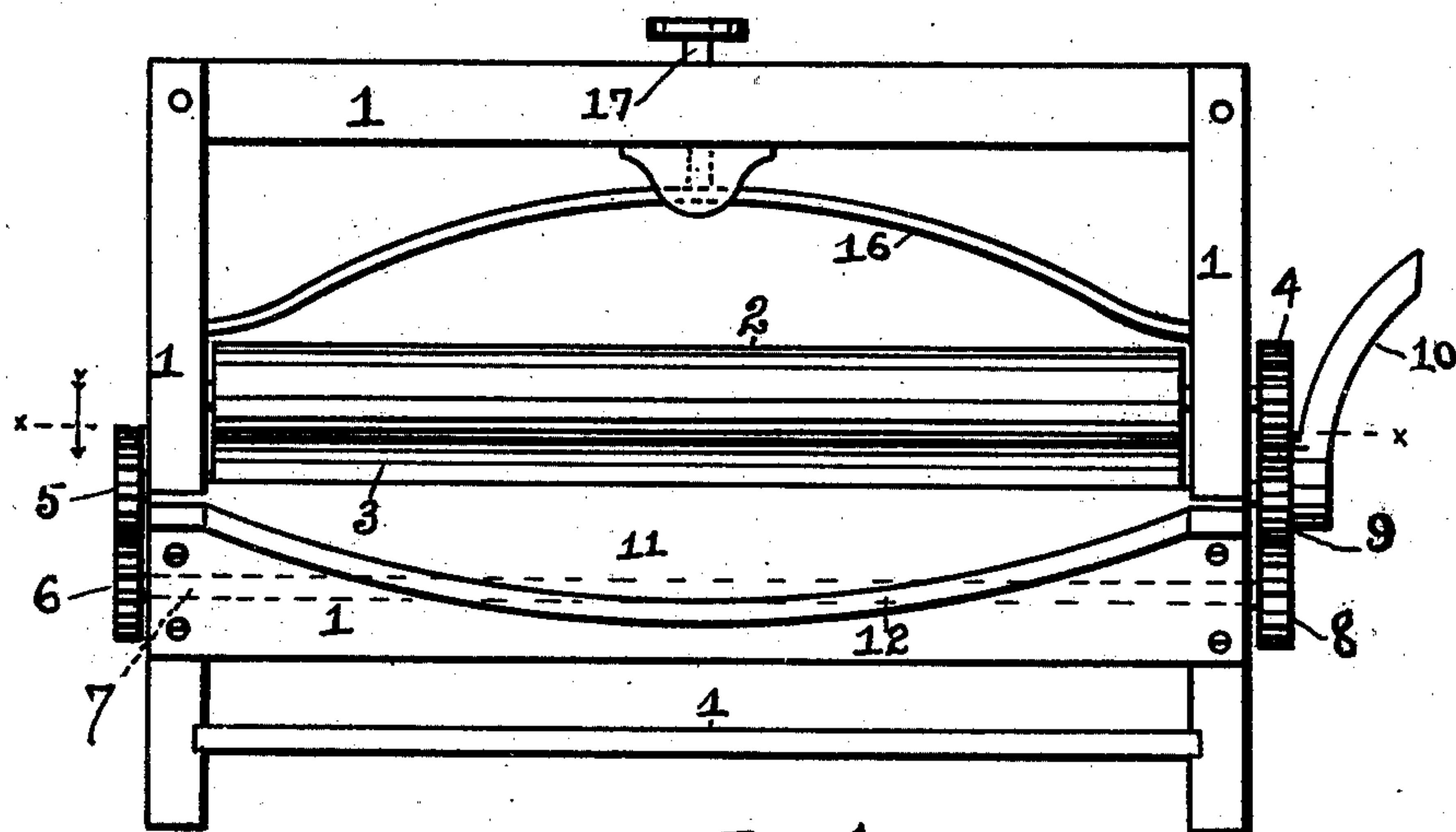


Fig. 1.

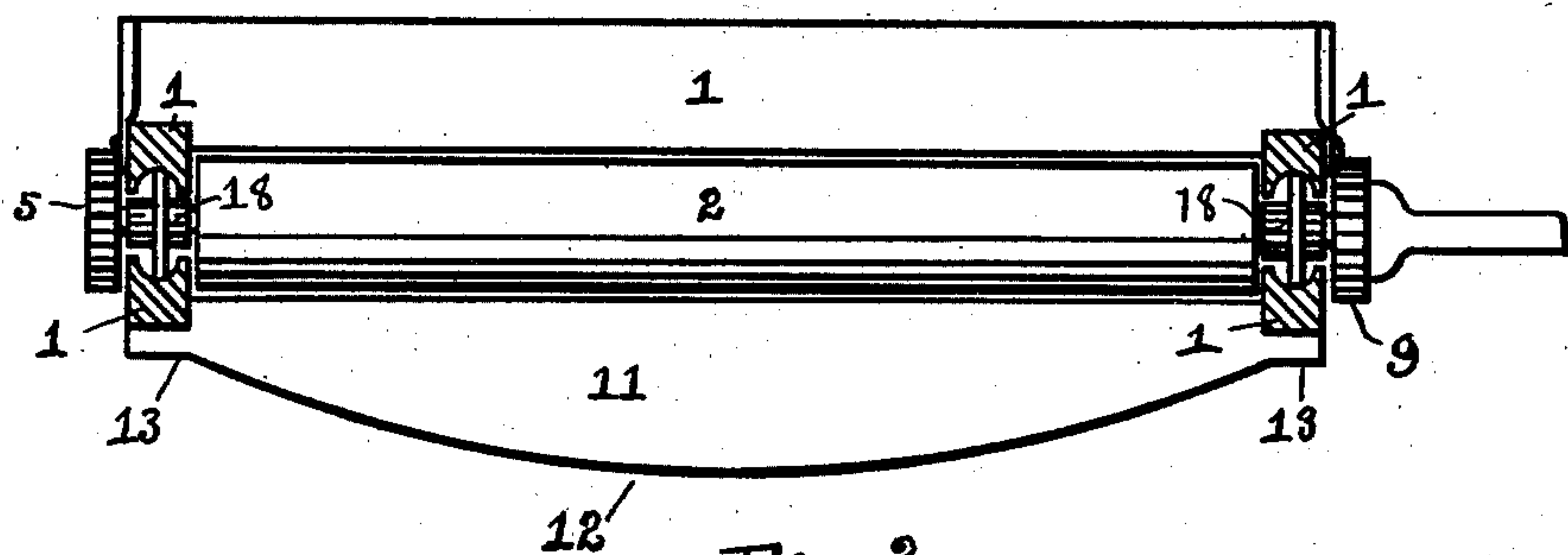


Fig. 2.

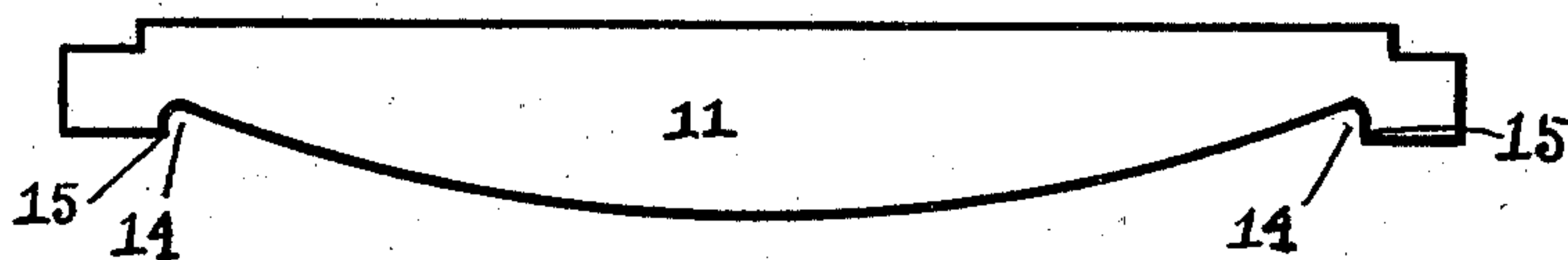


Fig. 3.

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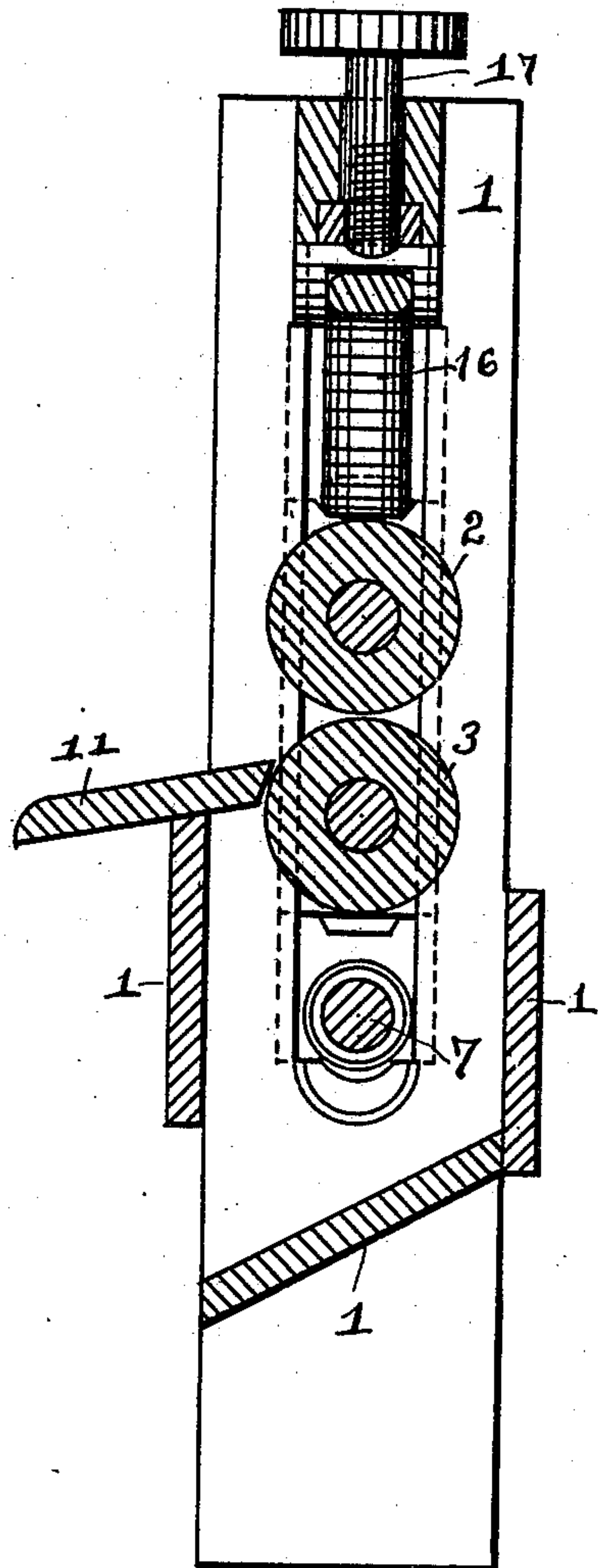


Fig. 4

Witnesses.
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UNITED STATES PATENT OFFICE.

HUGH G. ANDERSON, OF DAYTON, OHIO.

CLOTHES-WRINGER.

SPECIFICATION forming part of Letters Patent No. 671,533, dated April 9, 1901.

Application filed September 10, 1900. Serial No. 29,625. (No model.)

To all whom it may concern:

Be it known that I, HUGH G. ANDERSON, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Clothes-Wringers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in clothes-wringers.

One object of the invention is to provide the wringer-frame with a combined hand-rest and clothes-guide whereby the operator may rest the hand on said hand-rest while entering the clothes between the rolls. The hand-rest also spreads the clothes while the latter pass over the convexed edge of said hand-rest, and thereby the formation of lumps in the clothes is avoided as the said clothes pass between the rolls, and it may be further stated that owing to the convexed edge of the said hand-rest the full length of the pressing-rolls is brought into use. Not only the middle portion of said rolls, but the entire length thereof is brought in contact with the clothes, and this is due to the convexed edge of the hand-rest.

Another object of the invention is to arrange the gear-wheels in such a manner that they will always remain in mesh regardless of the thickness of the clothes which may pass between the rolls. This saves the rolls from all undue strain that might be caused by friction occurring when the gears are not in mesh. The driving-gear being of the same size as the other gears causes the rolls to revolve with the same speed as the driving-gear or crank-handle. To overcome this extra amount of friction created by this style of driving-gear, the journals are fitted with antifriction-bearings, which cause said journals to revolve with a great deal less power than is required to drive other machines which have a similar driving-gear.

In a detail description of my invention ref-

erence is made to the accompanying drawings, of which—

Figure 1 is a front elevation of a clothes-wringer made in accordance with my invention. Fig. 2 is a section on the line *xx* of Fig. 1. Fig. 3 shows a modified form of the hand-rest and clothes-guide. Fig. 4 is a cross-sectional view of the wringer, showing the relative position of the hand-rest and clothes-guide and the rollers.

In the detail description of my invention similar reference-numerals indicate corresponding parts.

1 designates the upright and horizontal parts constituting the frame of the machine. This frame may be varied in its structural features to some extent. The pressing-rollers 2 and 3 are mounted therein. Roller 2 has upon its shaft a gear-wheel 4. Roller 3 is driven by a gear-wheel 5, which meshes with a similar wheel 6 on a counter-shaft 7, on the other end of which there is a similar gear-wheel 8. The shaft upon which roller 2 is mounted and the shaft 7 are driven by a gear-wheel 9 on the end of crank 10, gear-wheel 9 being mounted on a short shaft journaled in the side of the frame and meshing with wheels 4 and 8. These gear-wheels are all of the same size. Therefore the same movement is imparted to the rollers 2 and 3 which is given the crank-wheel 9. The journals of the respective shafts are provided with antifriction-bearings 18 in order that the movement of the rolls may be as free as possible.

11 designates a combined hand-rest and clothes-guide, which is secured to the frame in a position parallel with the pressing-rollers and with its inner or straight edge in proximity to the point of contact between said rollers. The outer surface of this guide and rest 11 has a convex or rounded form 12, substantially as shown in the drawings. The greatest distance of said rounded surface from the inner or straight surface being at a central point of said guide or rest and from which point it gradually curves toward the ends, where it may terminate in a straight shoulder 13 or a pocket 14, the pocket 14 provides a shoulder 15, which prevents the clothes from coming in contact with the journals or

the oiled bearings of the rollers. The said combined hand-rest and clothes-guide is shown in Fig. 1 and is mounted on an incline to the frame. This is believed to be the best
 5 position for an easy and most natural rest of the hand in feeding the machine.

16 designates an adjusting pressure-spring, the ends of which are in contact with the bearings of the upper roller 2. This adjusting-spring is manipulated by the hand-screw
 10 17, whereby it may be adjusted to release or put pressure on said upper roller and whereby the contact between said rollers may be varied as desired.

15 Having described my invention, I claim—

1. In a clothes-wringer, the combination with a frame and rollers mounted therein, of a combined hand-rest and clothes-guide having an outer rounded edge, the said hand-rest
 20 and clothes-guide being mounted in the frame in an inclined position with its inner or straight edge in proximity to and approximately on a horizontal plane with the meeting

surfaces of the rollers, substantially as shown and described. 25

2. In a clothes-wringer, the combination with a frame and rollers mounted therein through which the clothes are wrung, of a combined hand-rest and clothes-guide mounted in said frame in an inclined position to
 30 said rollers, the inner edge of said hand-rest and clothes-guide being approximately on a horizontal plane with the meeting surfaces of the rollers, and the outer edge of said hand-rest and clothes-guide having a rounded form
 35 which terminates at each end in pockets 14 which prevent the clothes from coming in contact with the roller-bearings, substantially as shown and described.

In testimony whereof I affix my signature 40 in presence of two witnesses.

HUGH G. ANDERSON.

Witnesses:

THOS. J. ELLIFF,
 R. J. McCARTY.