(No Model.) 2 Sheets—Sheet 1.

L. NEWMAN.

MACHINE FOR FINISHING BOTTOM ENDS OF TROUSERS LEGS.

No. 590,585. Patented Sept. 28, 1897.

Fig. 1

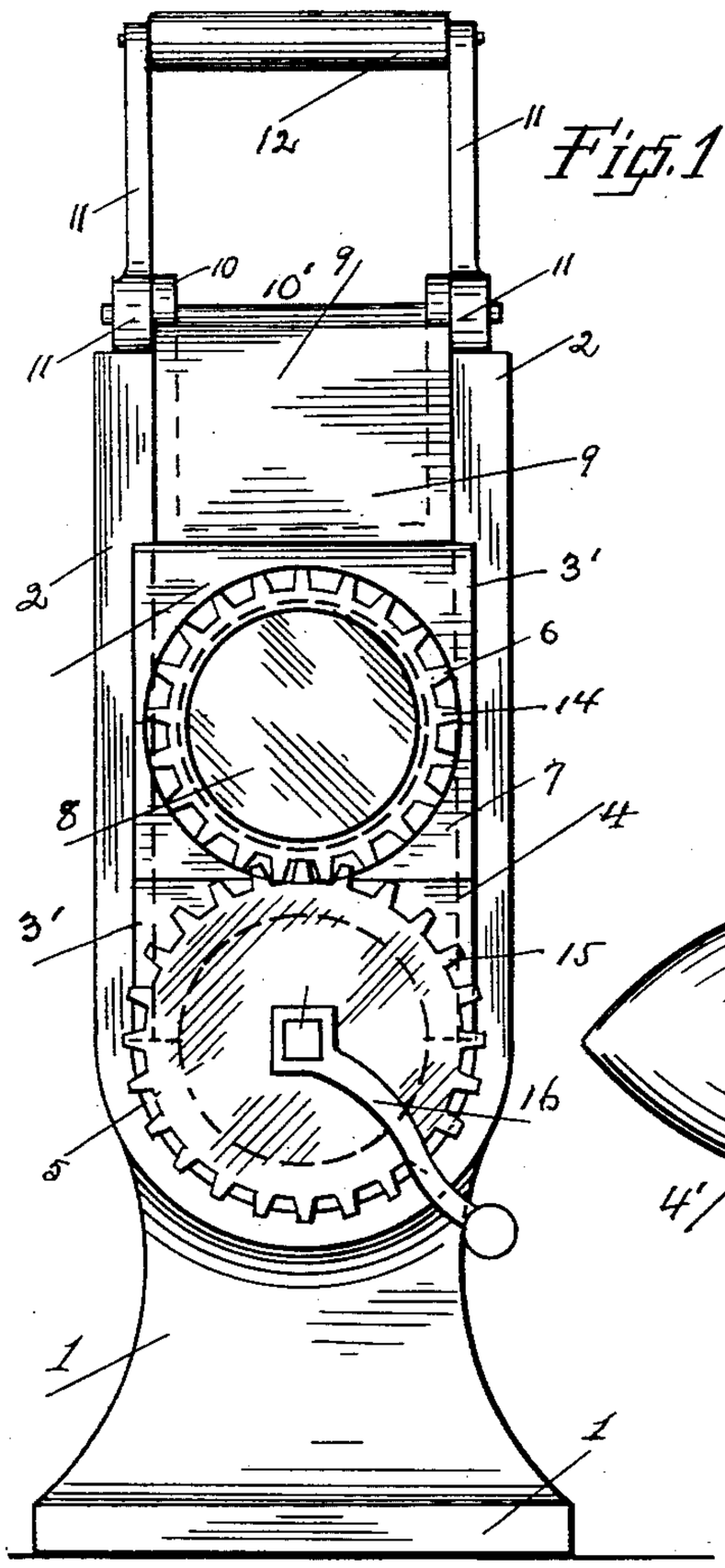
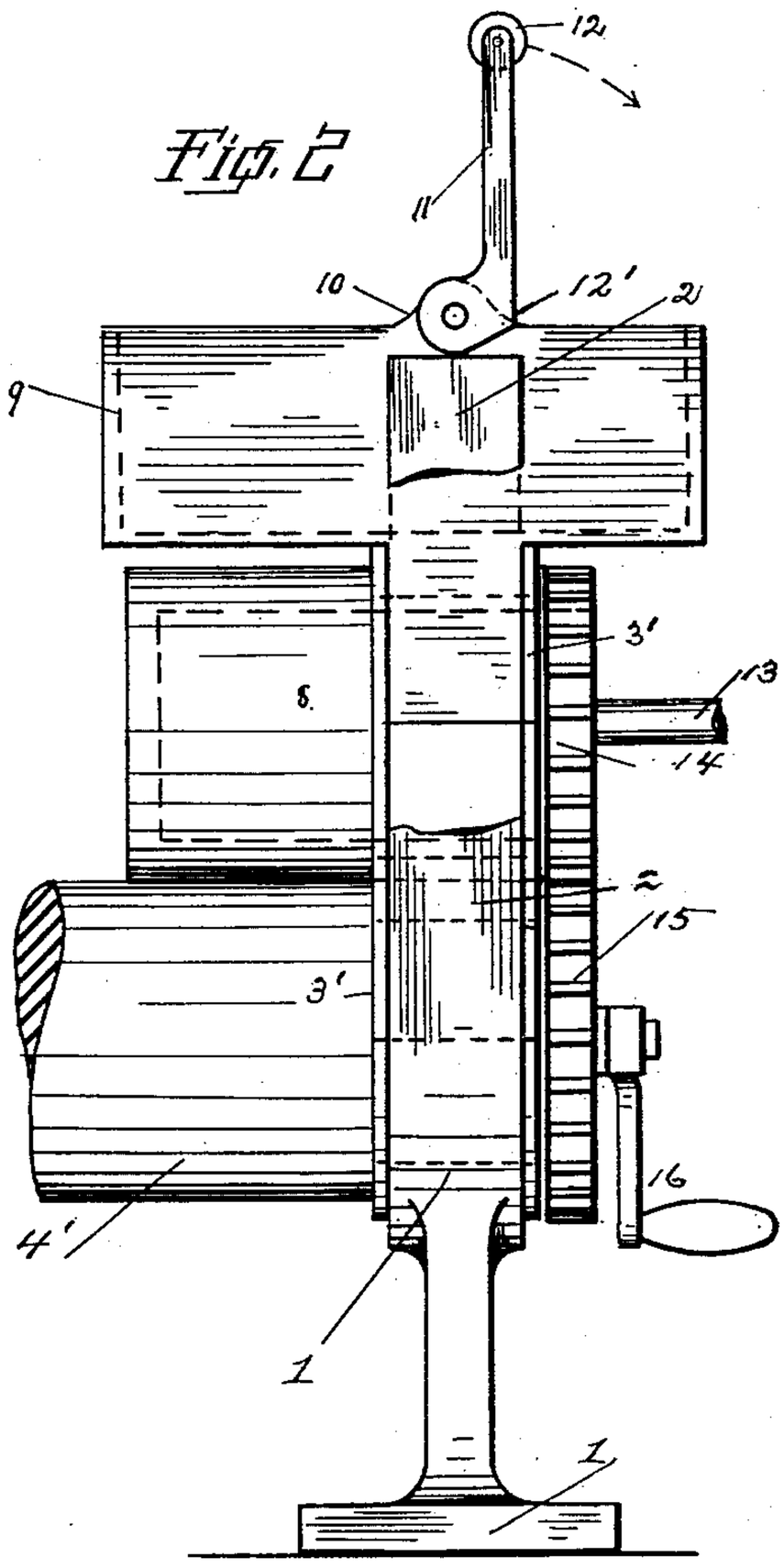


Fig. 2



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(No Model.) 2 Sheets—Sheet 2

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No. 590,585. Patented Sept. 28, 1897.

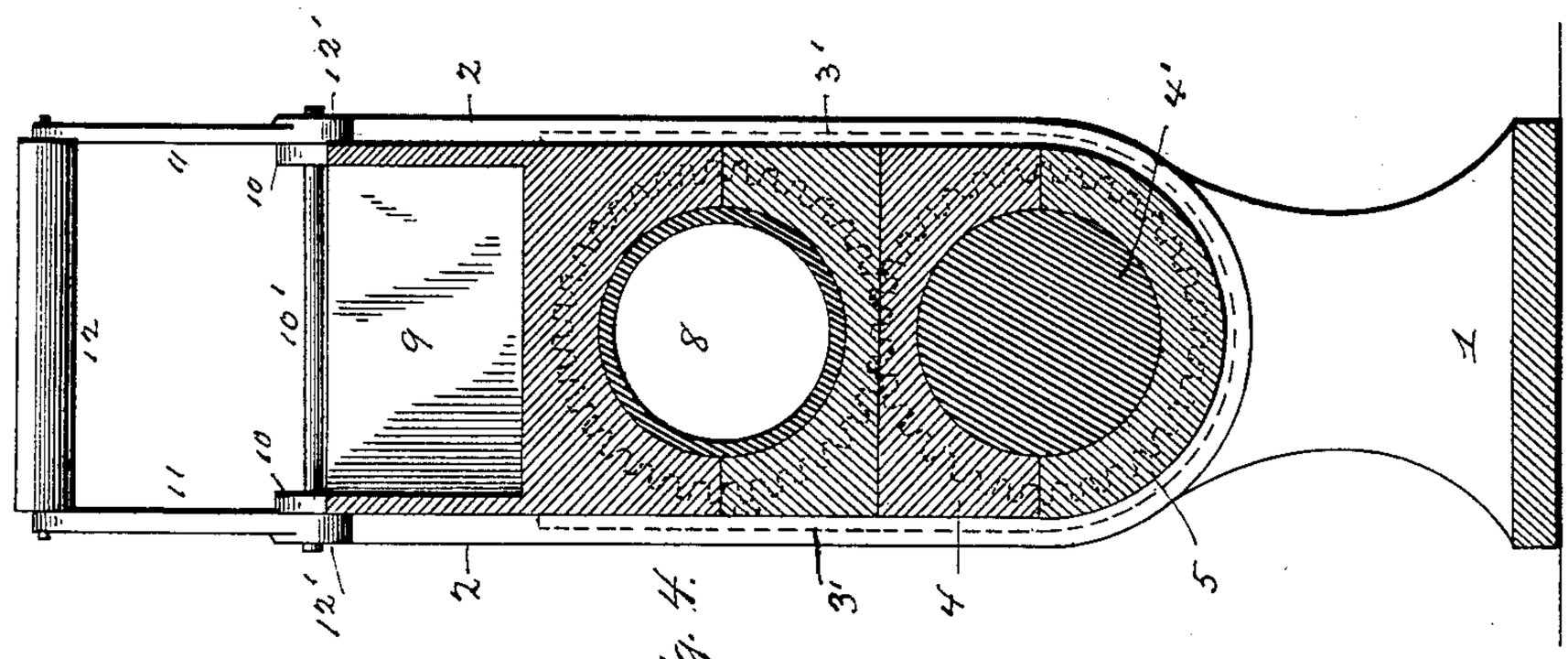

Fig. 4.

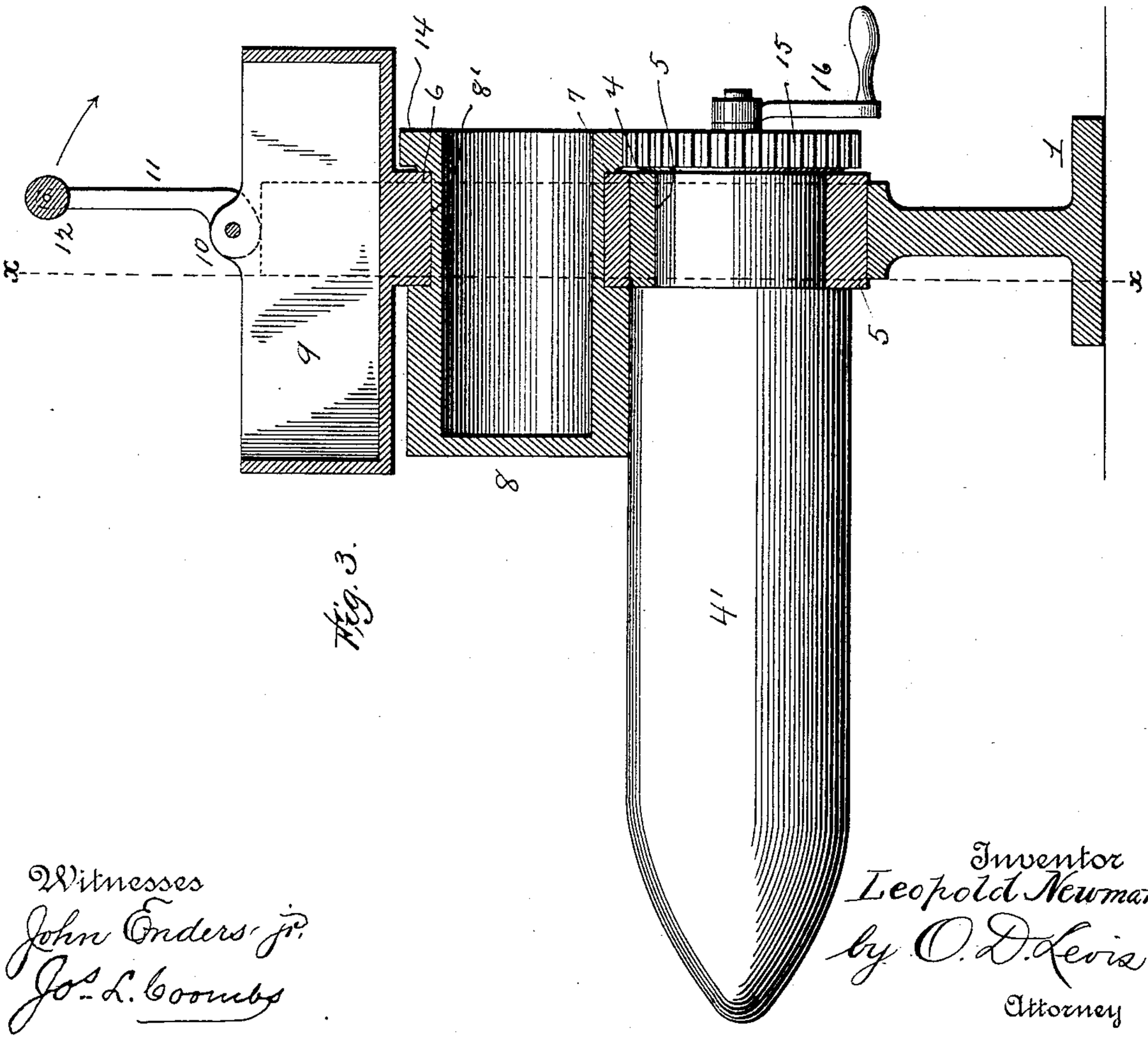

Fig. 3.

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UNITED STATES PATENT OFFICE.

LEOPOLD NEWMAN, OF BRADDOCK, PENNSYLVANIA.

MACHINE FOR FINISHING BOTTOM ENDS OF TROUSERS-LEGS.

SPECIFICATION forming part of Letters Patent No. 590,585, dated September 28, 1897.

Application filed June 23, 1896. Serial No. 596,595. (No model.)

To all whom it may concern:

Be it known that I, LEOPOLD NEWMAN, a citizen of the United States, residing at Braddock, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Finishing the Bottoms of Trousers-Legs; 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 an improved means for sealing and finishing the turned-in portion of trousers-legs.

The object of my invention is to provide a device that will effectually heat or melt the gum tissue used to secure the parts together and at the same time roll or press the parts together. In the means heretofore employed it required a skilled hand and the use of a smoothing-iron to properly secure the parts together and causing considerable loss of time.

With the above objects in view the invention consists in the novel construction, combination, and arrangements of parts to be hereinafter more specifically described.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like figures of reference indicate similar parts throughout the different views, in which—

Figure 1 is a back view of the machine. Fig. 2 is a side view of the same with a portion of the housing broken away. Fig. 3 is a central longitudinal sectional view. Fig. 4 is a cross-section on the line $x\ x$ of Fig. 3.

In the said drawings the reference-numeral 1 designates the base of the machine, preferably made of cast metal, and having integral therewith two parallel upwardly-extending standards or uprights 2. Located between said uprights and supported upon the upper end of the said base is a half-round box 5, upon which rests a corresponding half-round box 4. These two boxes form the bearing for a solid roller 4′, projecting laterally from one side of said uprights and having the outer end pointed, as seen in Fig. 2. The inner end of this roller is formed with a peripheral groove 5′, with which the inner or semicylindrical sides of the said boxes engage. Located above said boxes are similar boxes 6 and 7, forming a bearing for a hollow roller 8, which is also formed with a peripheral groove 8′ to receive the boxes. The said boxes are formed with flanges 3′, which engage with the sides of the uprights, whereby the boxes are held in place. Located above said roller 8 and supported between the said uprights is a water-receptacle 9, formed at its upper end with two lugs 10, in which is journaled a transverse shaft or rod 10′, to the ends of which is secured a cam-lever 11, the free ends of which levers are connected by a handle 12, by which they are operated. The inner ends of the said levers are formed with cams 12′, which engage with the upper ends of the uprights 2 when the levers are depressed to elevate the water-receptacle and relieve the hollow roller of the pressure of the same. The numeral 13 designates a gas-pipe leading from a gas-supply, and when the gas issuing from the end thereof is lighted the roller into which said pipe extends is heated to the desired temperature. Secured to one end of the said roller 8 is a cog-wheel 14, which meshes with a corresponding cog-wheel 15, secured to the roller 4′. This cog-wheel 15 is provided with an operating-crank 16.

The operation is as follows: The ends of the pantaloons or trousers legs are turned up and gum tissue inserted between such turned-up ends and the portion of the leg to which they are to be secured, in the usual manner. The gas-pipe is then lighted to heat the roller 8 and the levers 11 depressed so as to elevate the water-receptacle. The turned-up ends of the trousers-legs can then be inserted between the two rollers, when the levers are again elevated, so that the water-receptacle will press down upon the hollow roller 8. By now rotating the said rollers by means of the cog-wheels the gum tissue will be melted and the turned-up ends of the trousers-legs caused to adhere to the leg portion. By my invention a great saving in time and money is effected over the old manner of finishing with a smoothing-iron by hand.

Having thus fully described my invention, what I claim is—

In a machine for finishing and sealing the turned-up ends of trousers-legs, the combination, with the base, the parallel uprights or standards, the half-round boxes forming bearings for the solid and hollow rollers, located between said uprights and formed with end flanges, engaging with the sides of the uprights, and the solid pointed roller and the hollow roller journaled in said bearings and formed with peripheral grooves, with which the said boxes or bearings engage, of the intermeshing cog-wheels secured to said rollers, the gas-pipe extending into the said hollow roller, the water-receptacle located above the hollow roller, the lugs at the upper end thereof, the transverse shaft journaled in said lugs, the cams and cam-levers secured thereto, and the handle connecting the free ends of said levers, substantially as described.

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

LEOPOLD NEWMAN.

Witnesses:
ALBERT J. WALKER,
RICHARD S. HARRISON.