No. 627,129. Patented June 20, 1899.

# E. F. MOORE.

## COLLAR EDGE IRONING MACHINE.

(Application filed Feb. 27, 1899.)

(No Model.) 2 Sheets—Sheet 1.

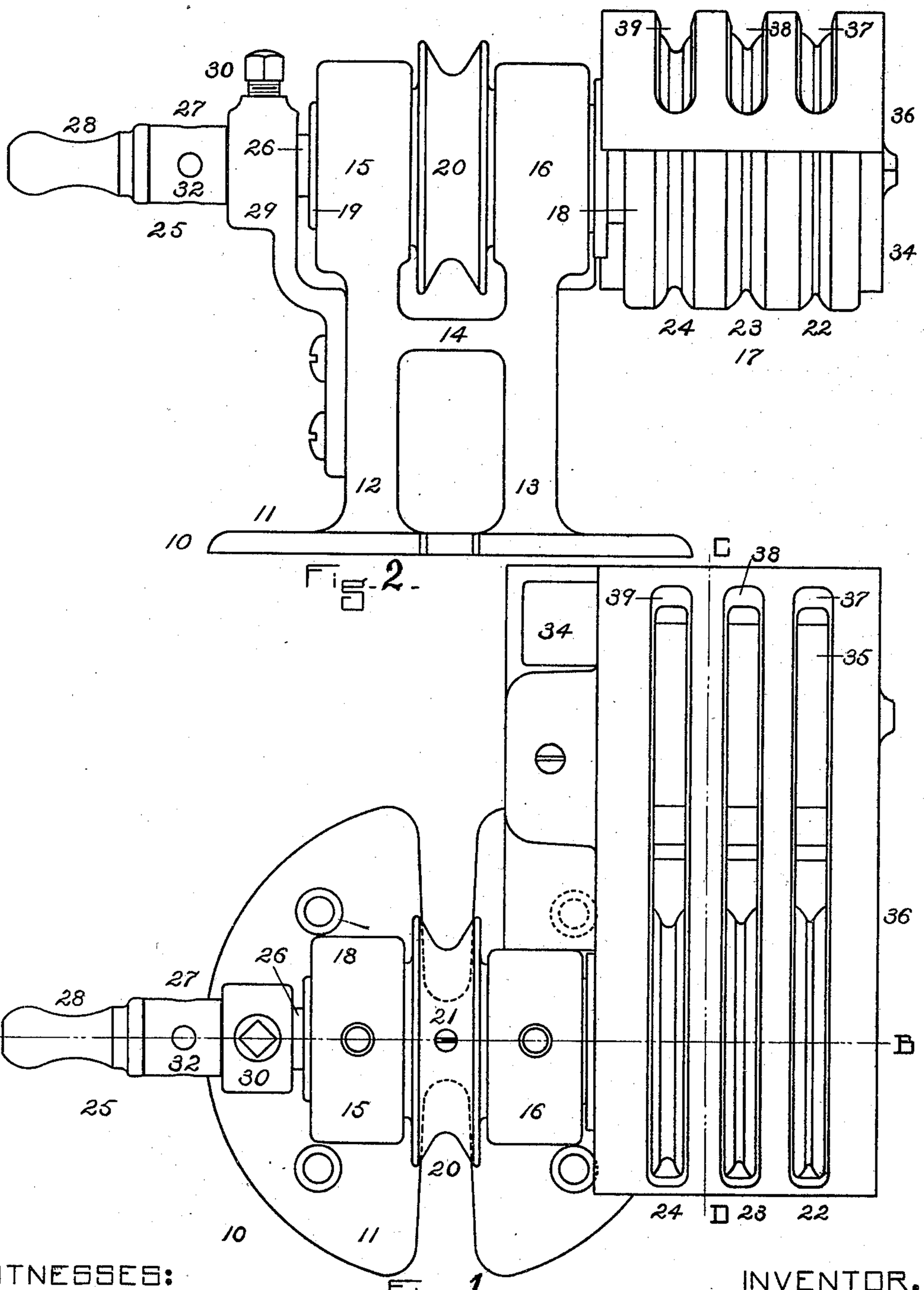


Fig. 2.

Fig. 1.

WITNESSES:

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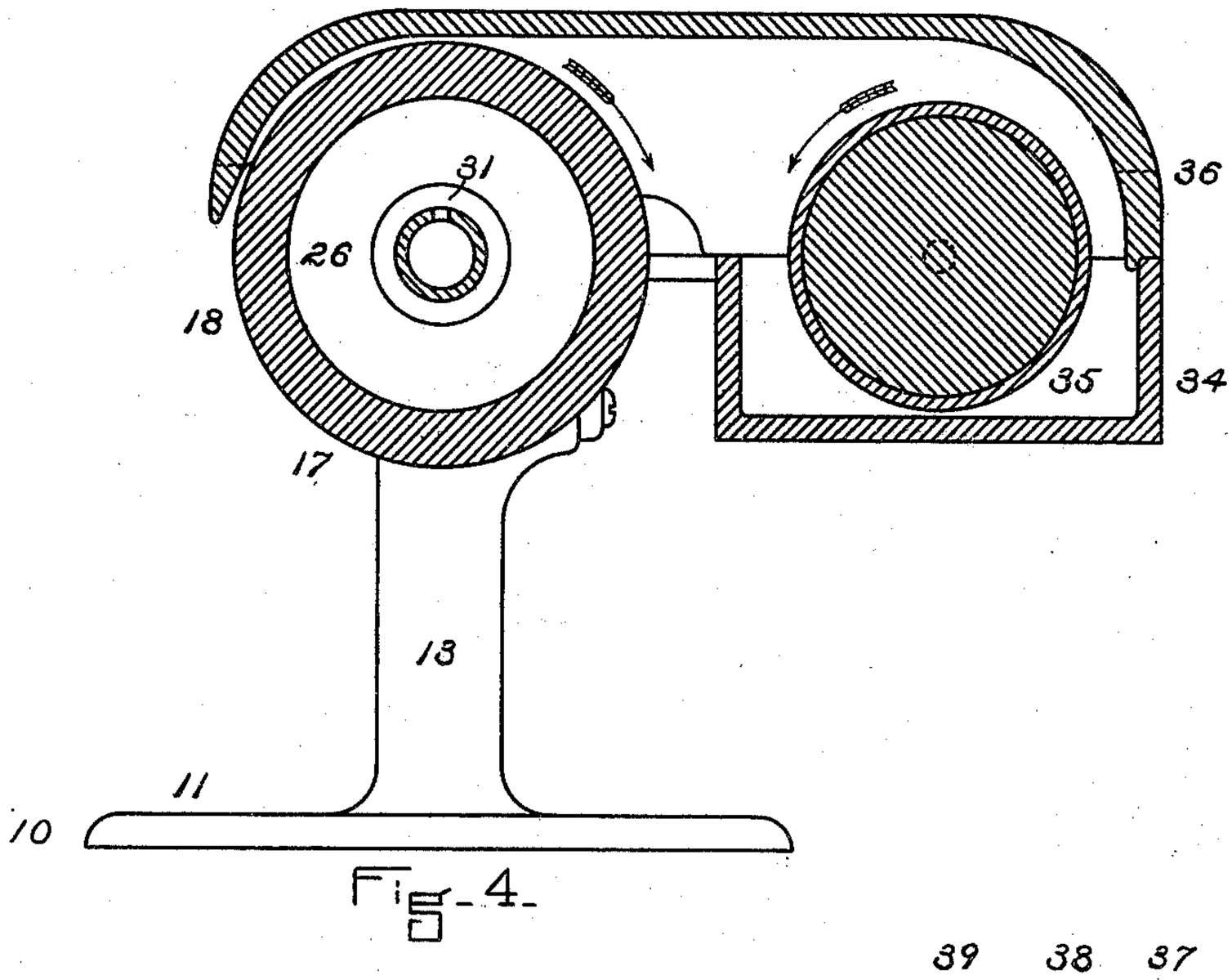


Fig. 4.

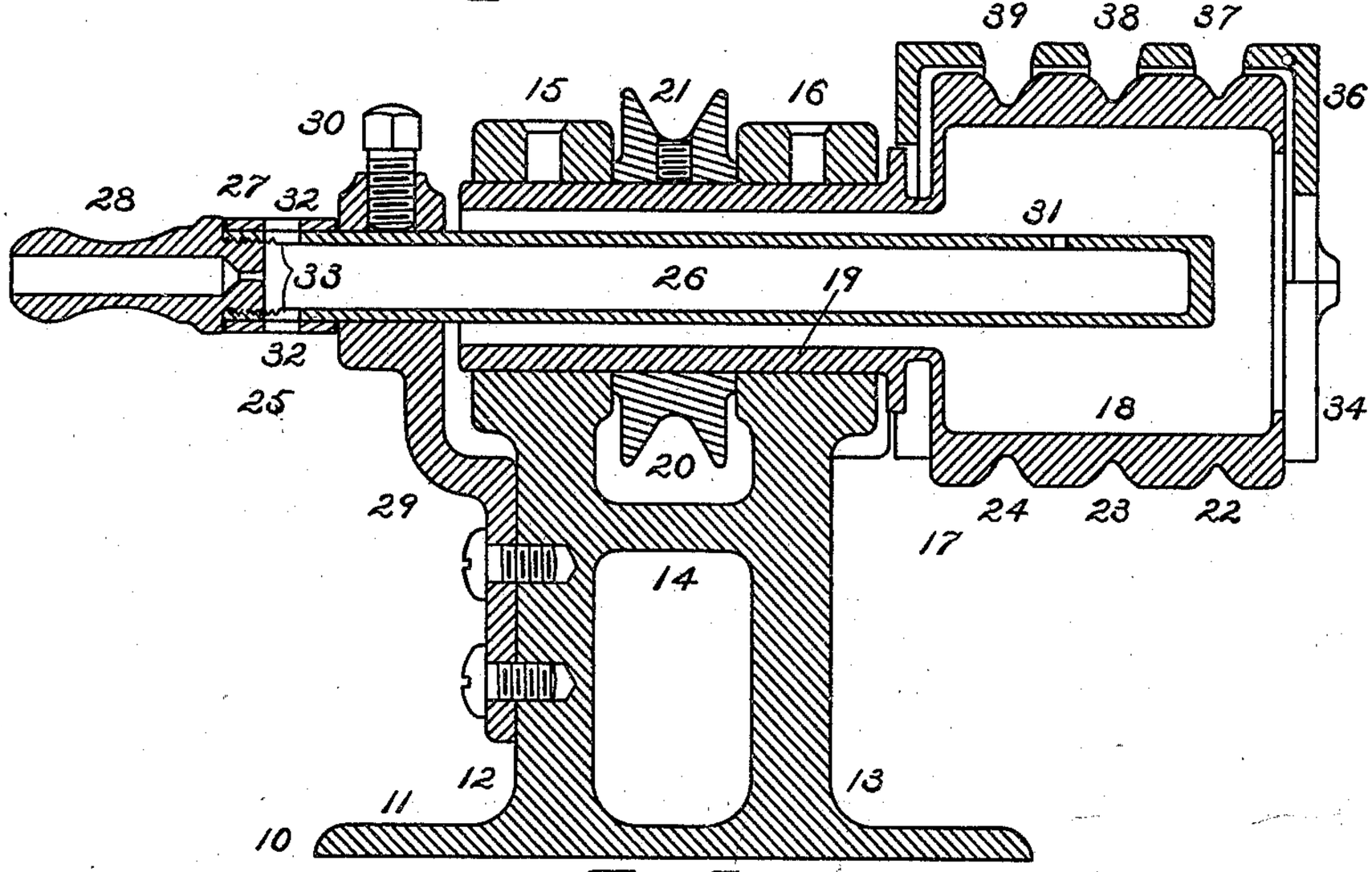


Fig. 3.

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# UNITED STATES PATENT OFFICE.

EDWIN F. MOORE, OF HYDE PARK, MASSACHUSETTS.

## COLLAR-EDGE-IRONING MACHINE.

SPECIFICATION forming part of Letters Patent No. 627,129, dated June 20, 1899.

Application filed February 27, 1899. Serial No. 707,068. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN F. MOORE, a citizen of the United States of America, residing at Hyde Park, in the county of Norfolk and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Collar-Edge-Ironing Machines, of which the following is a specification.

My invention relates to a collar-edge-ironing machine designed to be used especially in the ironing of the edges of linen collars, also of cuffs and the like.

The object of my invention is particularly to produce a machine by which the upper edge of stand-up collars of varying thicknesses may be dampened and ironed in a most efficient and expeditious manner.

Linen stand-up collars, especially when not new, after being laundered in the usual manner are very liable (in fact, are almost sure) to have a rough upper edge, called in the business a "saw" edge, which causes much discomfort when worn by its roughness. By the use of my machine this roughness is entirely done away with, and every collar after being ironed by my device will have its upper edge rounded and made smooth.

Figure 1 is a plan of my machine. Fig. 2 represents the machine in front elevation. Fig. 3 is a sectional view of Fig. 1 on line A B, and Fig. 4 is a sectional view of Fig. 1 on line C D.

The frame 10 of the machine comprises the base 11, standards 12 and 13, and brace 14, all preferably cast together as one piece. The standards 12 and 13 are provided with the bearings 15 and 16, respectively, designed to receive the shaft of the ironer.

The rotary ironer 17 comprises the smoothing-iron 18 and the shaft 19, both of which are hollow and are preferably cast together in one piece. The shaft of the ironer is mounted in the bearings 15 and 16, and it is kept in its longitudinal position in the bearings by means of the pulley 20, which is made fast to the shaft by means of the set-screw 21 between the two bearings. The rotary ironer is rotated in the direction as indicated by an arrow in Fig. 4 by means of power conveyed, by means of a belt, (not shown,) to the pulley.

The smoothing-iron 18 is provided with the series of graduated grooves 22, 23, and 24, having varying curvatures adapted to iron or smooth collars of varying thicknesses, groove 22 being adapted to take thin collars, groove 24 thick collars, and groove 23 collars of medium thickness.

The Bunsen burner 25 comprises the tube 26, the air-regulating sleeve 27, and the hose-nipple 28. The tube is held in the support 29, which is secured to the standard 12 by means of the set-screw 30. The gas-hose nipple 28 is screwed into the outer end of the tube, the other end of which is closed, and the orifice 31 is so constructed that the flame of the burner will impinge against the inner surface of the smoothing-iron as it revolves. The air-regulating device consists of the sleeve 27, which is loosely mounted upon the tube between the hose-nipple and the support. The sleeve is provided with the holes 32, which register with holes 33 in the tube, and as the sleeve is turned the holes are brought out of register, thereby regulating the amount of air admitted into the tube of the burner.

The water-reservoir 34, which is fastened to the standard 13, is provided with the dampening-roll 35, which is preferably made of wood and covered with cloth. The roll is loosely mounted in bearings provided in the walls of the reservoir.

The hand-guard 36 is provided, which is fastened to the water-reservoir, and it extends over both the dampening-roll and the rotary ironer. This guard is provided with the slots 37, 38, and 39, which register, respectively, with the grooves 22, 23, and 24.

The operation of the machine is as follows: A stand-up linen collar after having been laundered in the usual manner will be found to have a saw edge. The operator taking the collar in his hand first notices its thickness and then decides, for instance, that the collar is a thin one and that it should be ironed in the narrowest groove, which is groove 22. Now if the machine is in proper working order, the water-reservoir containing a proper supply of water, the dampening-roll being sufficiently damp, the rotary ironer revolving in the direction as indicated by an arrow in Fig. 4, and being heated and kept in a properly-heated condition by means of the Bunsen-burner flame, which impinges against the

inner surface of the smoothing-iron, then the operator, holding the collar in his hand, with its upper edge held downward, passes the saw edge of the collar lightly over the dampening-roll and onto and over the smoothing-iron, the result being the rounding and smoothing of the edge of the collar. This ironing operation is accomplished without danger to the operator by reason of the hand-guard, which will effectually prevent accidents, as only the edge of the collar can pass the slots, which are not wide enough to admit the fingers of the operator.

What I claim as new, and desire to secure by Letters Patent, is—

1. In an ironing-machine, the combination of a rotary iron, provided with a series of graduated ironing-grooves, a water-reservoir disposed adjacent to said iron, a moistening-roll supported in said reservoir, and a guard extending over said iron and moistening-roll and provided with slots registering with the graduated grooves in said iron and extending over the moistening-roll, whereby an article may be moistened on the roll and slid up onto the iron.

2. In an ironing-machine, the combination of a frame provided with bearings, a hollow shaft supported in said bearings, a pulley disposed on said shaft between said bearings, a hollow smoothing-iron disposed on said shaft and provided with a series of graduated grooves, a burner for heating said iron extending through said hollow shaft into said iron, an air-regulating sleeve for said burner, means for attaching a hose to said burner, a water-reservoir disposed adjacent to said iron, a moistening-roll supported in said reservoir, and a slotted guard extending over said iron and roll.

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

EDWIN F. MOORE.

Witnesses:
E. FRANK WOODBURY,
GEORGE L. DOLBEARE.