

Jan. 20, 1931.

F. GREENWOOD ET AL

1,789,741

MACHINE FOR POLISHING OR GLOSSING COLLARS, CUFFS, AND THE LIKE

Filed Dec. 13, 1929

2 Sheets-Sheet 1

FIG. 1.

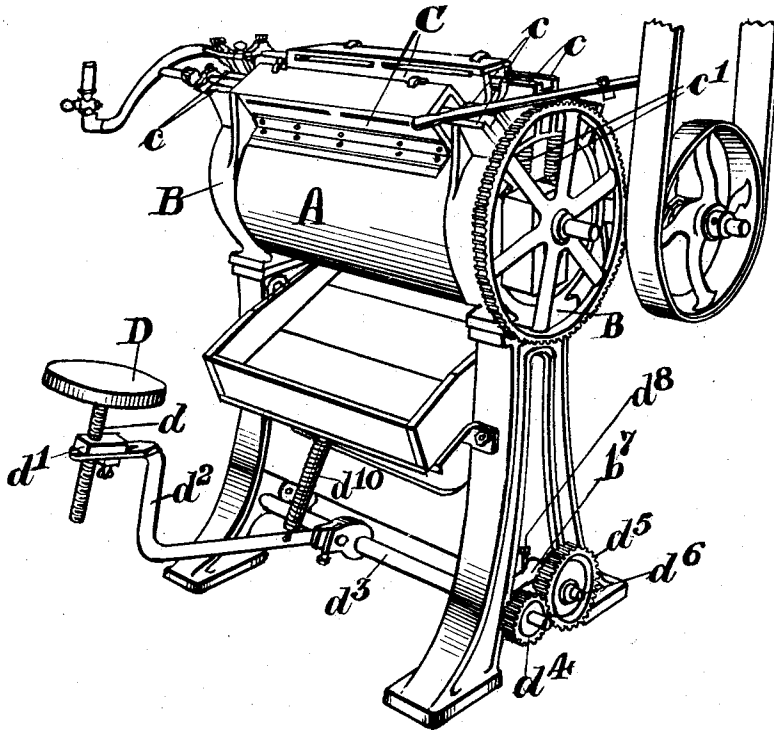
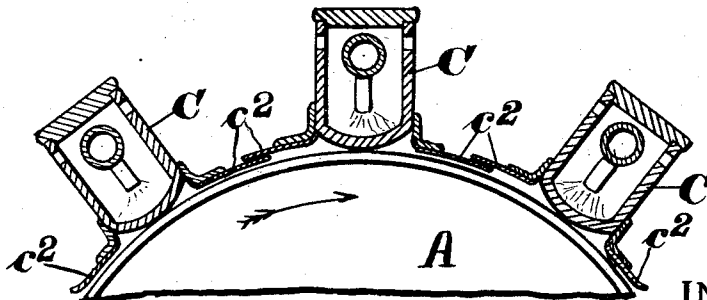


FIG. 3.



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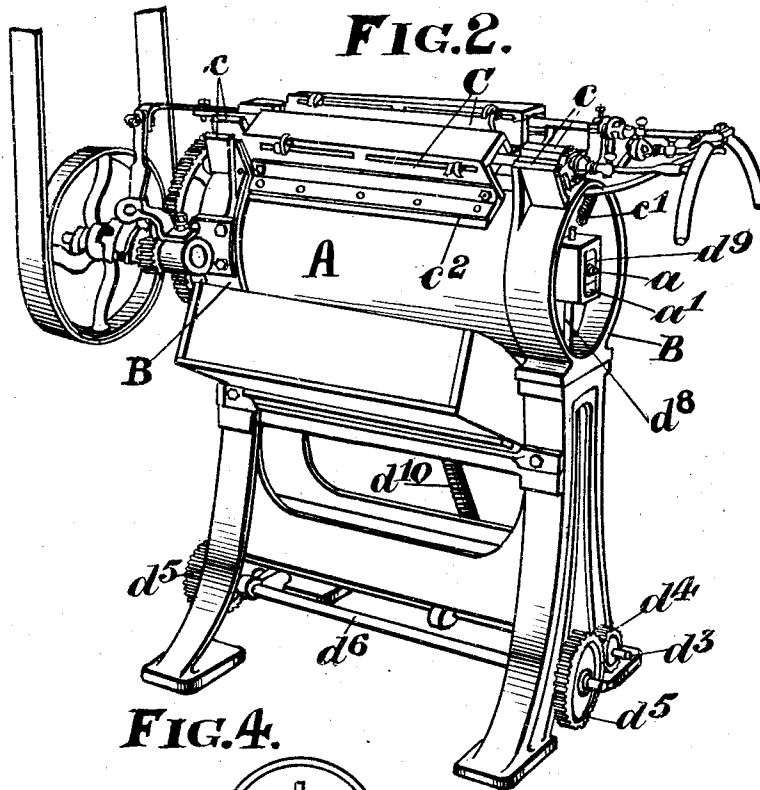
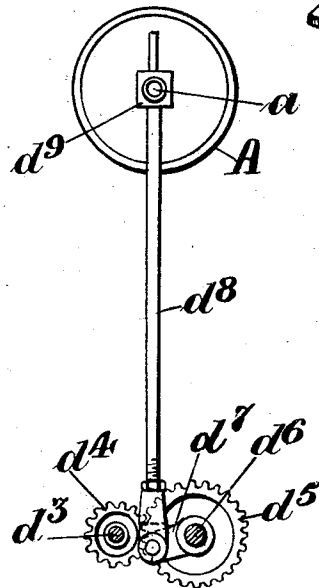


FIG.4.



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UNITED STATES PATENT OFFICE

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MACHINE FOR POLISHING OR GLOSSING COLLARS, CUFFS, AND THE LIKE

Application filed December 13, 1929, Serial No. 413,893, and in Great Britain December 14, 1928.

This invention relates to machines for polishing or glossing collars, cuffs and the like. In machines of this class it is customary to employ calendering rollers and the present invention has for its chief object to introduce an improved construction of machine which will give a bigger output than the calendering machine where all the rollers rotate.

According to this invention the machine comprises a number of stationary or non-rotating irons formed with convex polishing surfaces which extend across the surface of a roller and are heated in any appropriate manner, the articles to be polished or glossed being traversed by the roller or rollers past the various irons. A feature of the invention consists in providing means whereby the roller or rollers will be separated from the irons when the attendant gets off a seat or platform hereinafter referred to as seat with which the machine is provided and be engaged with the irons when the attendant gets on to the seat.

In the accompanying drawings:—

Fig. 1 is a perspective view of an ironing machine constructed according to this invention.

Fig. 2 is a similar view as seen from the back of the machine.

Fig. 3 is a section drawn to a larger scale taken through a portion of a roller and its stationary or non-rotating irons.

Fig. 4 is a detached view of the gearing for bringing the cylinder into contact with the irons.

In the example shown a large roller or drum A is provided with journal pins *a* mounted in slotted bearings *a*¹ in a suitable framework B. This roller or drum is covered with felt or other cushioning material or cotton and the like, and is adapted to be rotated by power or otherwise. The irons comprise stationary boxes C or plates which are heated by gas or electricity or in any other suitable manner and are formed at the ends with extensions which are mounted in radially arranged slots or bearings *c* in the framework at the bottom of which bearings they are normally retained by gravity, or by

suitable springs *c*¹. The surfaces of the boxes or plates which contact with the drum or articles to be ironed are made convex as shown in Fig. 3 and are highly polished and may be electro-plated, and they are further provided at each side with guide plates *c*² to guide the collars, or other articles in their passage from one iron to the next. The cylinder or drum A normally remains out of contact with the irons and may be brought into contact with them by the attendant getting on to a seat D which forms part of the machine and be automatically returned out of contact with the irons immediately after the attendant gets off the seat. For this purpose the seat D may be mounted on the end of an elevating screw *d* which may pass through a nut *d*¹ in a lever *d*² that is fixed on a shaft *d*³ mounted in bearings in the machine frame. This shaft may be fitted at each end with a toothed wheel *d*⁴ each of which gears with another toothed wheel *d*⁵ on a shaft *d*⁶ and actuates a crank arm *d*⁷, eccentric or the like to impart an endwise motion to two rods *d*⁸ which are connected at their upper ends with movable bearings *d*⁹ which support the axle or journal pins *a* of the cylinder or drum A. The arrangement is such that when the attendant gets on to the seat the lever and shaft are turned, thereby actuating the gearing and raising the rods to lift the roller into contact with the irons. As soon as the attendant gets off the seat, the parts return to their normal position by gravity or through the action of a spring *d*¹⁰ or both. Either the seat or the lever can be adjusted to suit any particular requirements.

What we claim as our invention and desire to secure by Letters Patent in the United States is:—

1. A machine of the character described comprising a frame, a drum mounted in the frame, polishing irons extending across the surface of the drum and mounted in said frame and having convex polishing surfaces presented to the drum, and guide plates extending from opposite sides of the irons.

2. A machine of the character described comprising a frame, a drum mounted in the frame, polishing irons of channel shape ex-

tending across the surface of the drum and supported by said frame, said irons having bottoms provided with convex polishing surfaces presented to the drum, and guide plates extending from opposite sides of said irons.

In testimony whereof we hereunto affix our signatures.

FRANK GREENWOOD.
SOPHIA JANE APLEYARD.

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