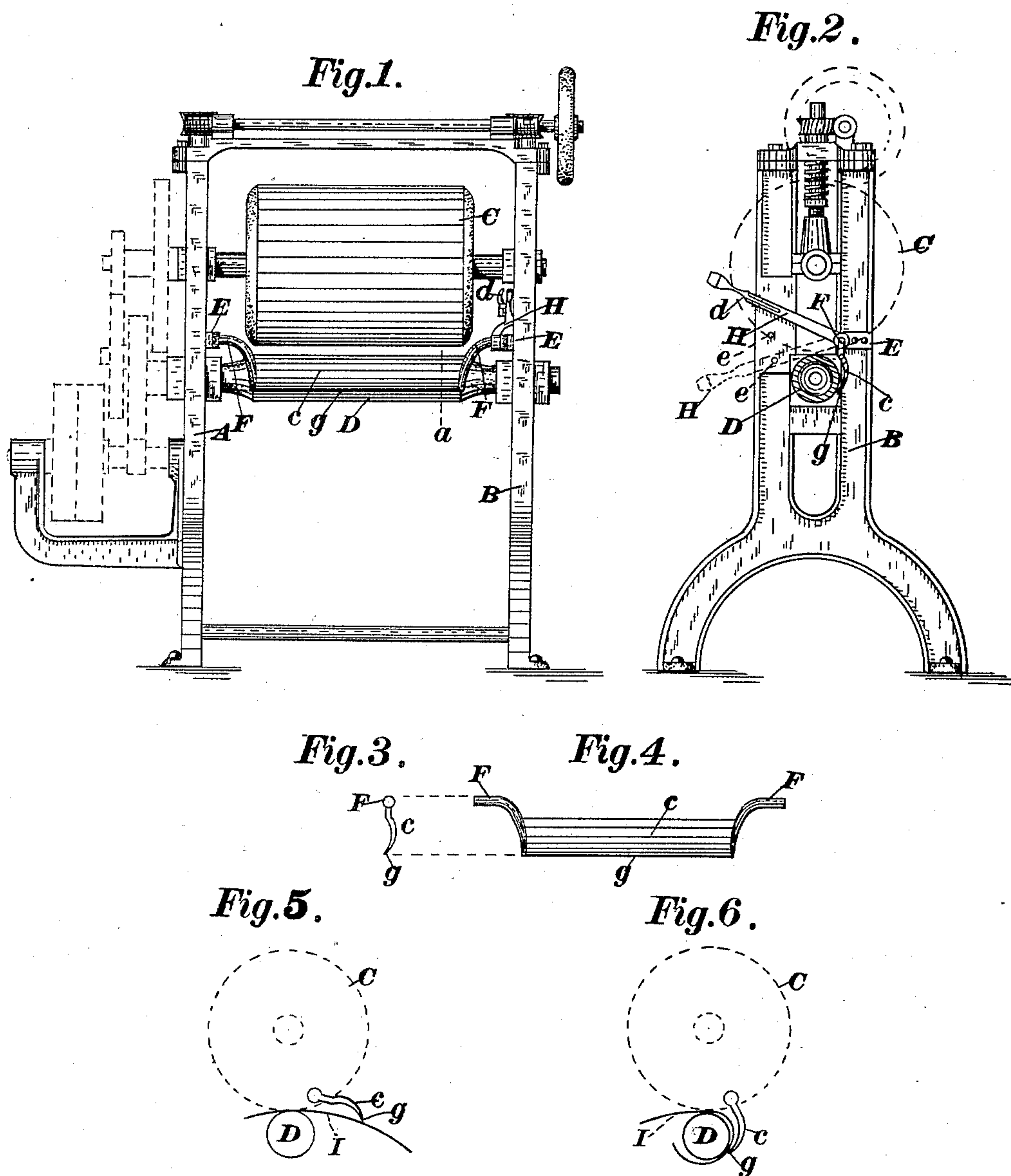


(No Model.)

R. S. NELSON & A. KREUTER.  
IRONING MACHINE.

No. 485,707.

Patented Nov. 8, 1892.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

ROBERT S. NELSON AND ADAM KREUTER, OF CHICAGO, ILLINOIS.

## IRONING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 485,707, dated November 8, 1892.

Application filed January 18, 1892. Serial No. 418,382. (No model.)

*To all whom it may concern:*

Be it known that we, ROBERT S. NELSON and ADAM KREUTER, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Ironing-Machines, of which the following is a specification.

Our improvement relates to means for bending collars, cuffs, or other similar wearing-apparel into a circular form, ready for use; and our object is to place an attachment in such a position on an ironing-machine that it can be quickly thrown into action to bend the collars or cuffs to the required curve as they are being run through the ironer the last time, the attachment being so constructed that it can be held out of action at all other times, or as is necessary. This object is attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a rear elevation of an ordinary collar and cuff ironing machine, with gearing in dotted lines, showing our improvement in position for use. Fig. 2 is a view of the inside face of the right-hand standard of Fig. 1, the hot roller and bending attachment in section on line *a* and the upper large roller shown in dotted line. Fig. 3 is an end and Fig. 4 a side view of the bending attachment detached from the ironing-machine. Fig. 5 shows a cross-section of hot roller and attachment, large roller in dotted lines, with collar shown between the rollers; Fig. 6, same as Fig. 5, except that the bending attachment is in position for bending a collar or cuff.

Similar letters indicate like parts throughout the several views.

A and B are the standards of an ironing-machine, and C is the upper elastic roller and D the hot polishing-roller, these rollers being journaled in boxes fitted to the standards, as usual.

In securing our collar and cuff bender to an ironing-machine we provide small hangers E, which are firmly attached to the inside face of the standards, as shown. In each of these hangers is a hole, which forms a bearing for the end of each of the arms F of the bending attachment, which consists of a curved blade *c*, the blade being capable of an oscillating motion, with the ends of arms

F as the pivotal center. Attached to one of the arms is a lever H, which has a position close to the inside face of standard B. The lever is provided with a thumb-spring catch *d*, which engages with holes *e* in the standard B, so that the lever can be held in various different positions. When the blade *c* of the attachment is in the position shown in Figs. 1 and 2, lever H stands, as shown by the solid lines, Fig. 2, in which case the lower edge *g* of blade *c* bears against or is in close proximity to hot roller D; but when lever H has the position shown by the dotted lines, Fig. 2, the lower edge *g* of the blade is lifted some distance away from the hot roller D, the two positions of the blade being plainly shown by Figs. 5 and 6.

It is usual in ironing collars or cuffs and other similar goods that the articles are run through between the rollers several times in order to insure the desired smoothness and polish, and during this time lever H is in the position shown in the dotted lines, Fig. 2, and blade *c* in the position shown in Fig. 5, which permits the article I to pass through without being bent to any great degree; but when the article has been sufficiently ironed it can be bent, as shown in Fig. 6, by elevating lever H to the position shown in the solid lines, Fig. 2, which causes the lower edge *g* of blade *c* to contact with the article and press it to the heated roller, when it will fall from the machine in the bent form desired.

We claim as our invention and desire to secure by Letters Patent—

A blade *c*, capable of motion to and from one of the rollers of an ironing-machine, said blade having arms F, which are pivoted to the frame of said machine, said arms serving to suspend said blade, and a lever H, secured to one of said arms and operating with said blade, in combination with one of the rollers of said machine, for the purpose substantially as described.

In testimony that we claim the foregoing we have hereunto set our hands, this 14th day of January, 1892, in the presence of witnesses.

ROBERT S. NELSON.  
ADAM KREUTER.

Witnesses:

GEORGE M. VIAL,  
OSCAR SNELL.