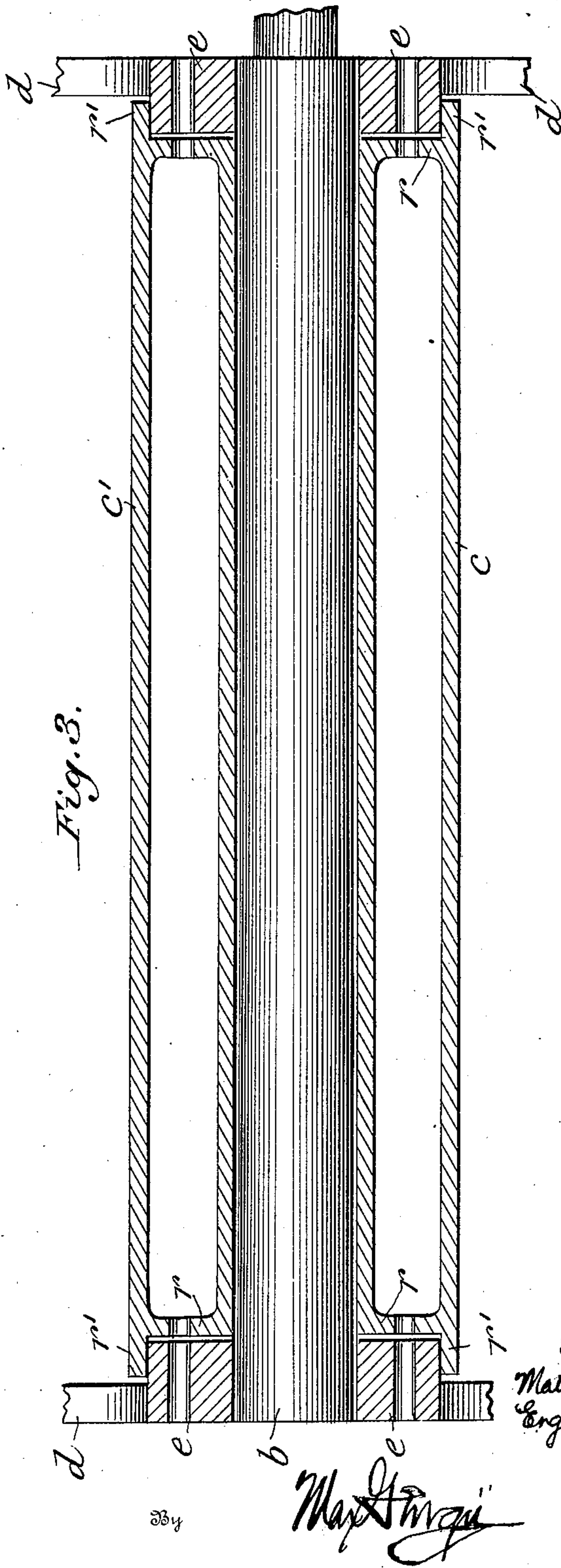
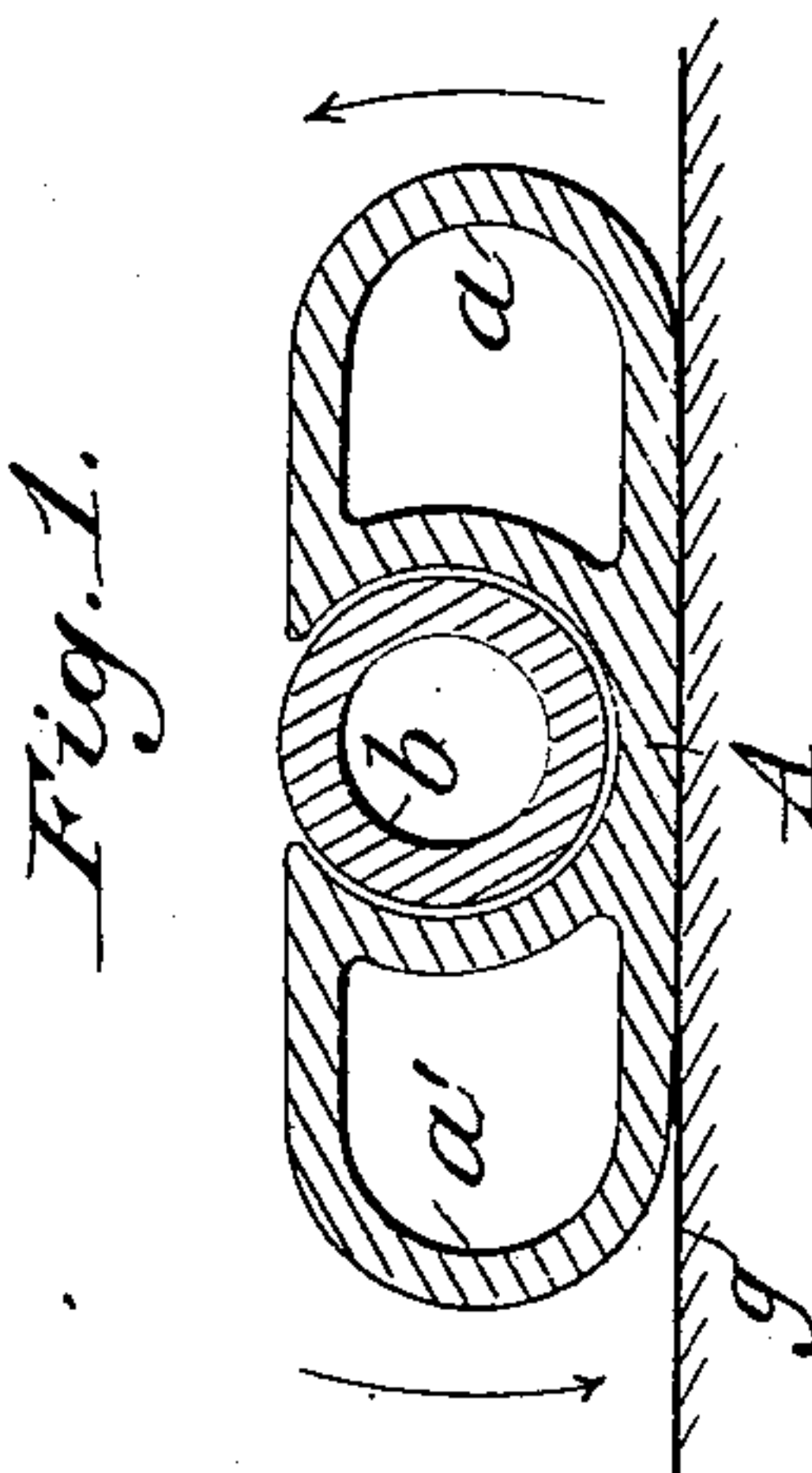
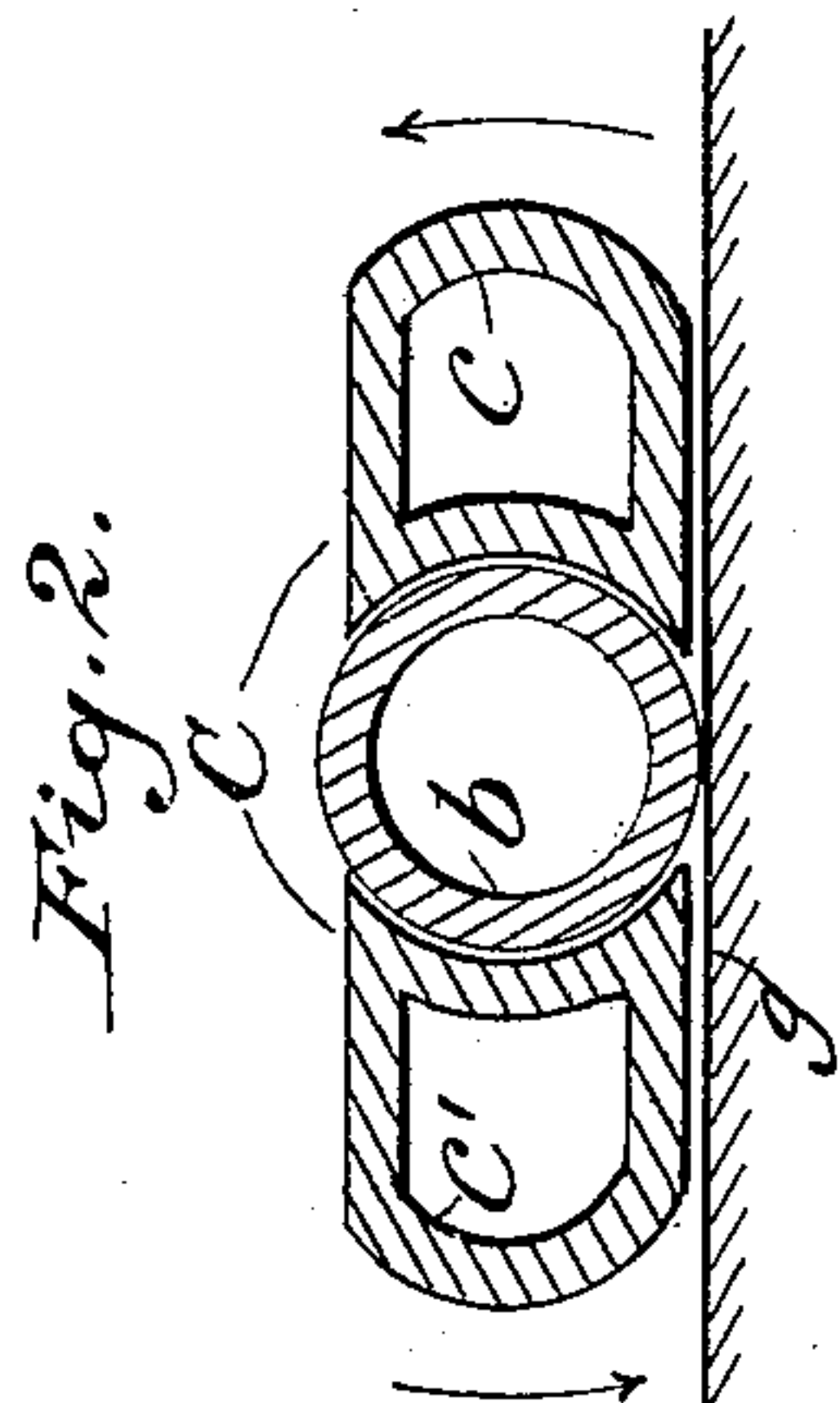


M. ENGELBRECHT
IRONING MACHINE.

(Application filed Oct. 9, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:

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No. 669,213.

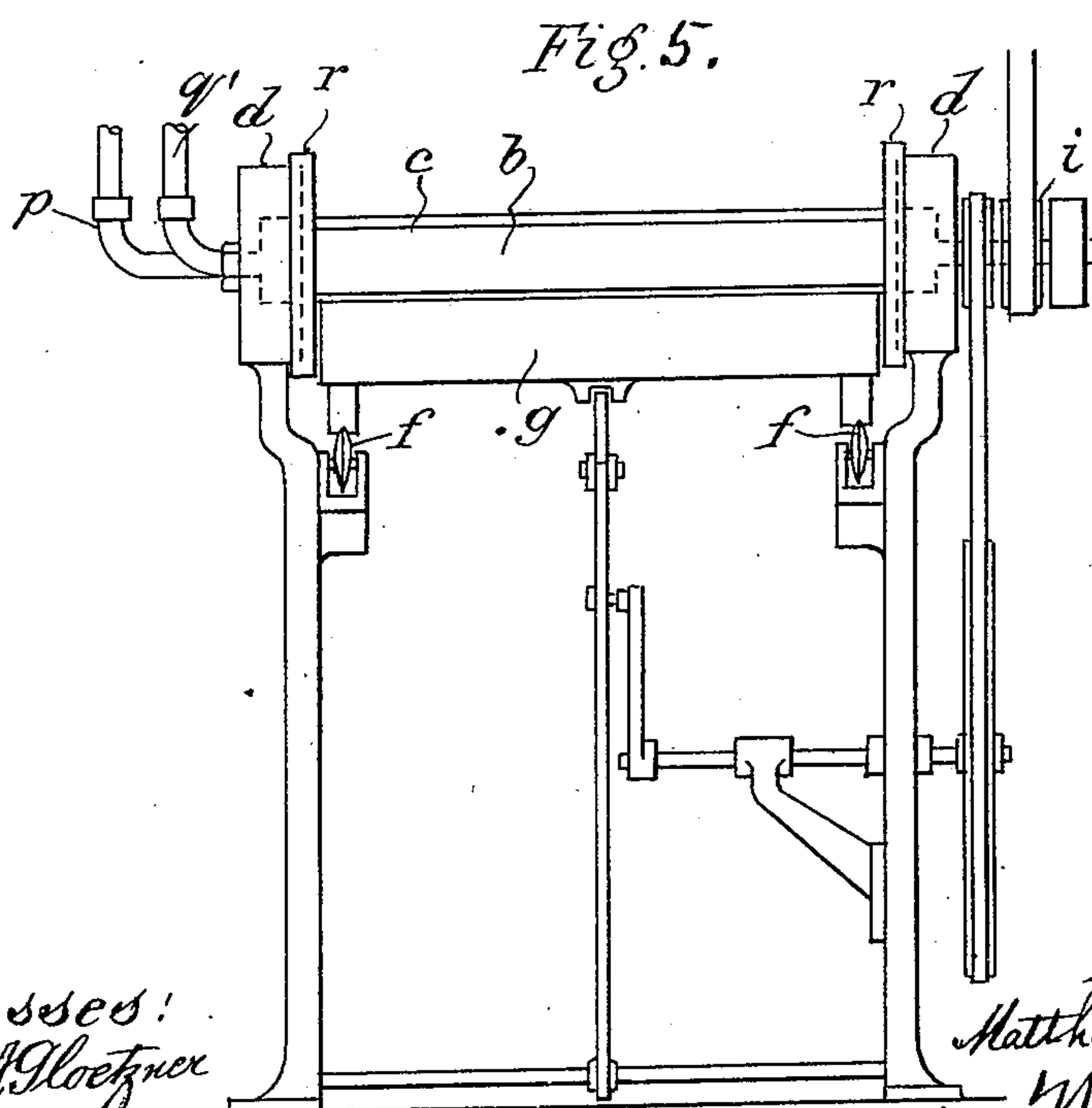
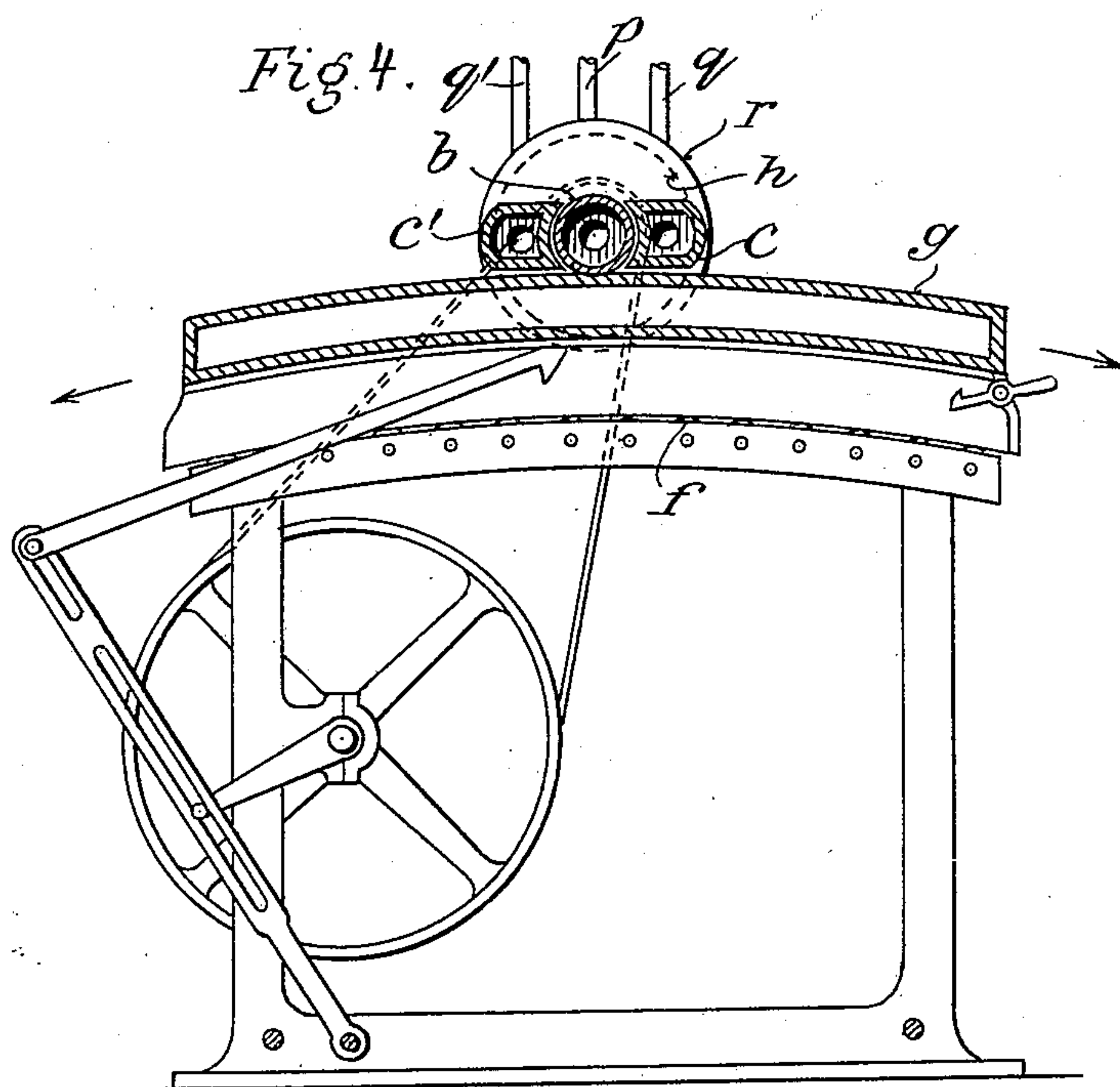
Patented Mar. 5, 1901.

M. ENGELBRECHT.
IRONING MACHINE.

(Application filed Oct. 9, 1900.)

(No Model.)

2 Sheets—Sheet 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

MATTHAÜS ENGELBRECHT, OF MUNICH, GERMANY.

IRONING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 669,213, dated March 5, 1901.

Application filed October 9, 1900. Serial No. 32,515. (No model.)

To all whom it may concern:

Be it known that I, MATTHAÜS ENGELBRECHT, a subject of the King of Bavaria, residing at Munich, Bavaria, Germany, have invented certain new and useful Improvements in Ironing-Machines, of which the following is a full, clear, and exact description.

This invention relates to the class of ironing-machines that produce an auxiliary drying and smoothing effect on the article in connection with the work done by the ironing bed and cylinder.

The object of my invention is to provide means for adjustment of the device for effecting the desired treatment of the article.

My invention, broadly considered, comprises the combination, with the usual ironing-bed and ironing-cylinder, of an auxiliary chambered ironing member whose walls will accomplish a preliminary drying and ironing before the article passes between the ironing-cylinder and the bed and also a subsequent drying and finishing of the article immediately after it has been acted on by the ironing cylinder and bed, which member is arranged to be swung in order to vary the distance between the ironing-bed and the adjacent walls of the member.

Referring to the accompanying drawings, Figure 1 represents a vertical section of the ironing-cylinder and the auxiliary chambered ironing member. Fig. 2 is a vertical section showing a modification of the parts shown in Fig. 1. Fig. 3 is a longitudinal horizontal section of the auxiliary ironing member and means for rotatably supporting both members, the ironing-cylinder being shown in perspective. Figs. 4 and 5 show a complete ironing-machine with my invention applied thereto.

In the form shown in Fig. 1, *b* represents the ironing-cylinder, and *A* the auxiliary chambered ironing member, in this instance comprising two similar integral portions *a* and *a'*, each having a portion of its walls partly inclosing the cylinder *b*. These portions have a disk portion *r* at each end similar to the disk portions shown in Figs. 3, 4, and 5. The cylinder projects slightly beyond the portions *a* and *a'* at its exposed portion. The auxiliary member is so supported by means hereinafter described that it can be moved to

vary the distance between the ironing-bed *g* and the adjacent walls of the member.

The auxiliary ironing member *C* (shown in Fig. 2) comprises two similar chambered portions *c* and *c'*, partly surrounding the cylinder *b*, which are connected at their extremities by disks *r*. In this modification the cylinder *b* is exposed for operation in conjunction with the ironing-bed at two diametrically opposite portions, but projects beyond the auxiliary member a greater distance at one of these places than at the other. This member *C* may also be adjusted with relation to the ironing-bed *g*.

In Fig. 3 is shown the means for adjusting the position of the auxiliary ironing member with relation to the ironing-bed, comprising an annular flange *r'*, projecting from each of the disks *r*, thus forming a socket that constitutes a bearing for a boss *e*, projecting from each of the heads *d* of the frame of the machine, in which heads the cylinder *b* is journaled.

The auxiliary chambered members in the above-described forms have apertures for the admission and circulation of a suitable heating medium.

Referring now to Figs. 4 and 5, *g* indicates an ironing-bed arranged under the ironing-cylinder *b* and may be reciprocated in relation to the said cylinder. It is preferably mounted upon and guided by two series of rollers *f*. The cylinder *b* is rotatably journaled in the heads *d d* and has apertured extremities, one being arranged to register with the extremity of a pipe *p* for supplying a heating medium, such as steam, thereto. The auxiliary chambered ironing member *C* is arranged with its portions *c c'* partly surrounding the cylinder *b*. The cylinder *b* may be rotated from a pulley *i*, driven by a belt. The chambered portions *c c'* have apertures in their extremities, one at each extremity of the same, the apertures at one end registering, respectively, with the extremities of pipes *q q'* for supplying a suitable heating medium to these portions.

In the operation of the device the article to be ironed first passes between the bed and one portion of the auxiliary ironing member, and thus receives a preliminary drying and also a partial ironing before it is caused by

the movement of the ironing-bed to pass between the latter and the ironing-cylinder. After the article has been ironed by the action of the ironing cylinder and bed the further movement of the ironing-bed causes it to pass between the same and the other adjacent portion of the auxiliary ironing member, which will result in drying the article just ironed and giving it a finished effect.

10 When the auxiliary ironing member C is given a half-revolution from the position shown in Fig. 2, the walls of the portions c and c' adjacent to the ironing-bed will change place with the upper walls of these portions, and the latter walls will then be in proximity to the ironing-bed and will be at a greater distance from the ironing-bed than were the other walls. When the form of auxiliary ironing member shown in Fig. 1 is given a half-revolution, the ironing will be effected between the ironing-surface of the bed and a continuous surface of the wall of the stationary auxiliary member.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In an ironing-machine, an ironing-bed, in combination with an ironing-cylinder, and an auxiliary chambered ironing member having its walls partly surrounding the cylinder and also partly extended in proximity to the ironing-bed on both sides of the cylinder, and means for permitting the auxiliary mem-

ber to be swung so as to vary the distance between the ironing-bed and the adjacent walls of said member.

2. In an ironing-machine, an ironing-bed in combination with an ironing-cylinder, and an auxiliary chambered ironing member partly surrounding the cylinder, the said cylinder projecting somewhat beyond said auxiliary member at opposite sides of the member and projecting at one side for a greater distance than at the other side, said auxiliary member being supported so as to be swung and thereby bring different walls of the same in proximity to the ironing-bed.

3. In an ironing-machine, an ironing-bed in combination with an ironing-cylinder, an auxiliary ironing member surrounding the cylinder and having an extended surface arranged in proximity to the ironing-bed, a pair of heads on the frame in which said cylinder is journaled, a boss on each head concentric with said cylinder, and an annular flange projecting from each end of said auxiliary member and arranged to engage said bosses on the heads and thereby allow said auxiliary member to be rotated.

In witness whereof I have hereunto set my hand in presence of two witnesses.

MATTHAÜS ENGELBRECHT.

Witnesses:

WALLY SEITZ,

GEORGE I. BURNS.