

(No Model.)

3 Sheets—Sheet 1.

M. H. RYDER.
DEVICE FOR FLANGING HAT BODIES.

No. 294,745.

Patented Mar. 4, 1884.

Fig. 1

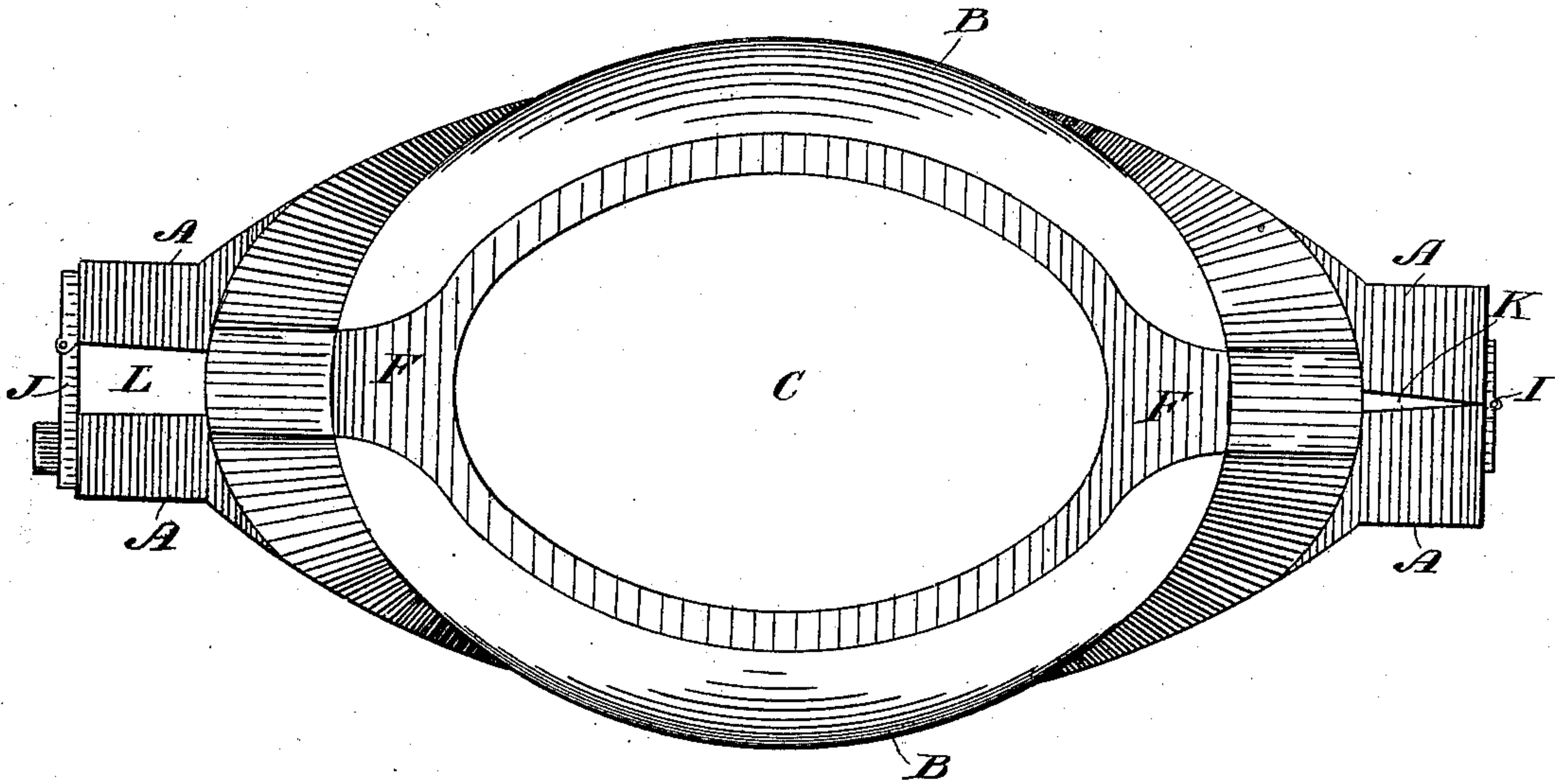
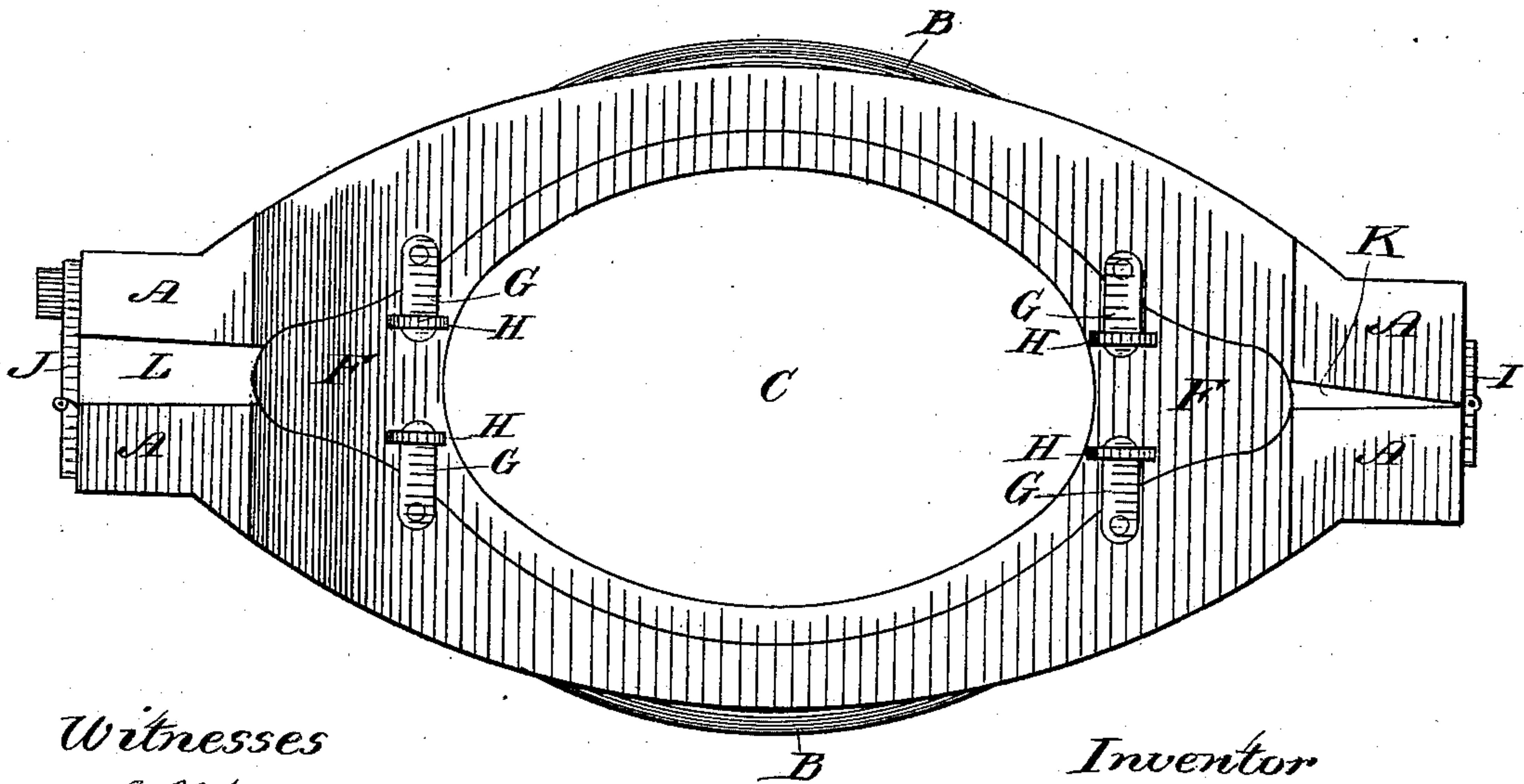


Fig. 2



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Fig. 3

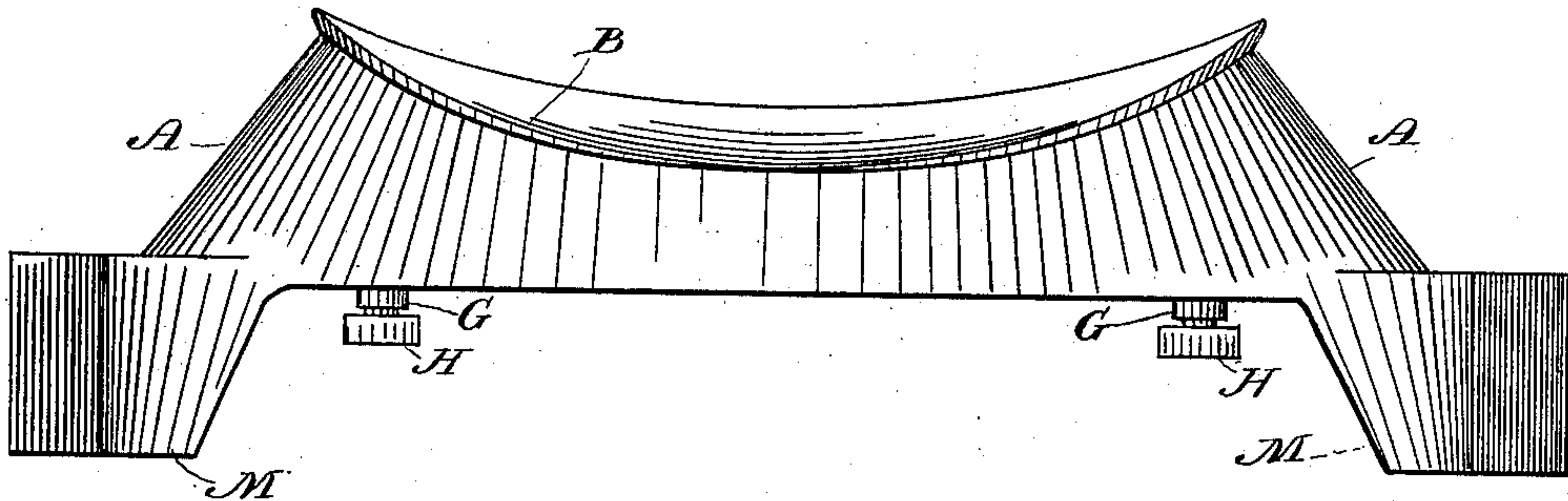
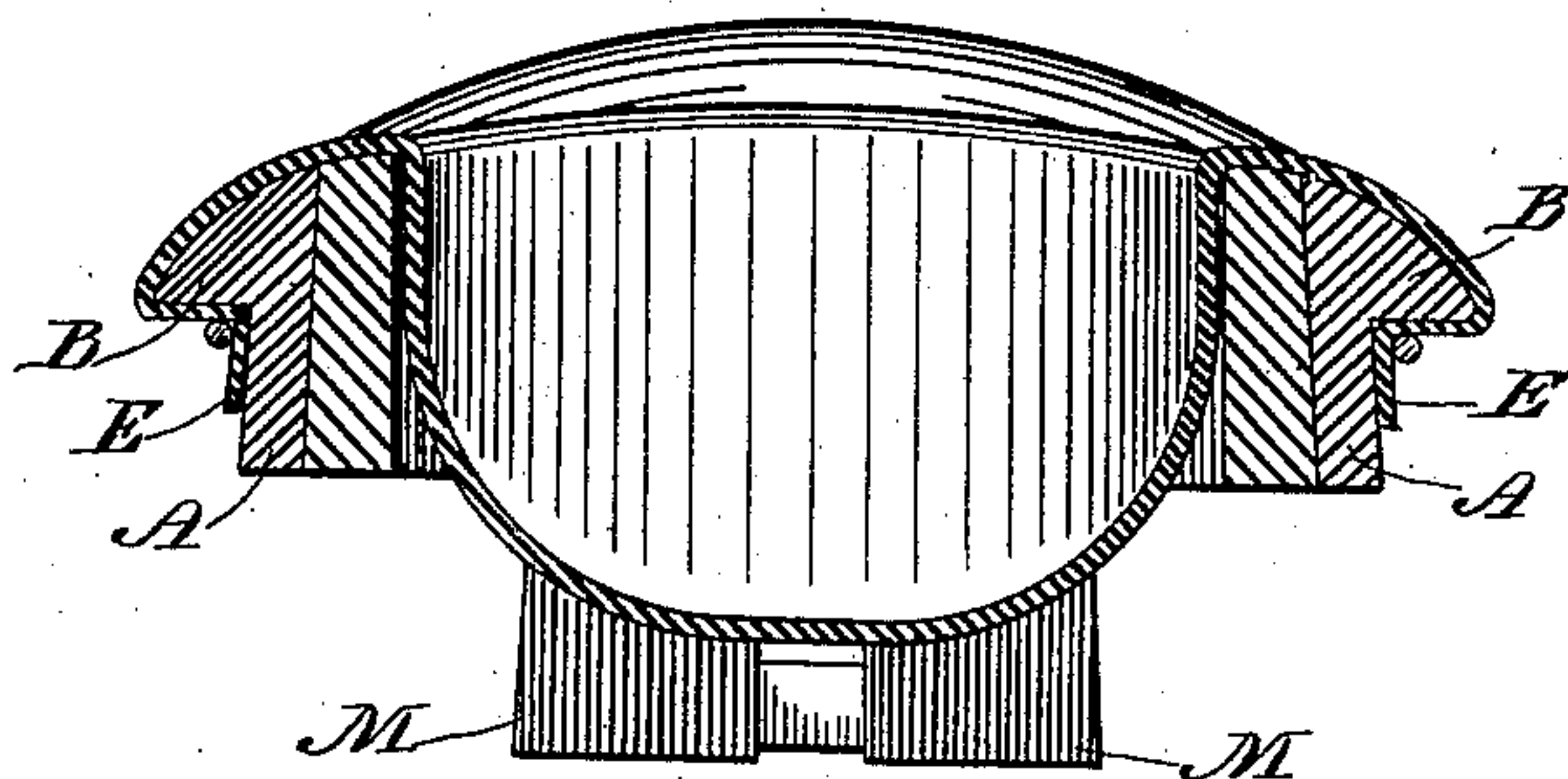


Fig. 4



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Fig 5

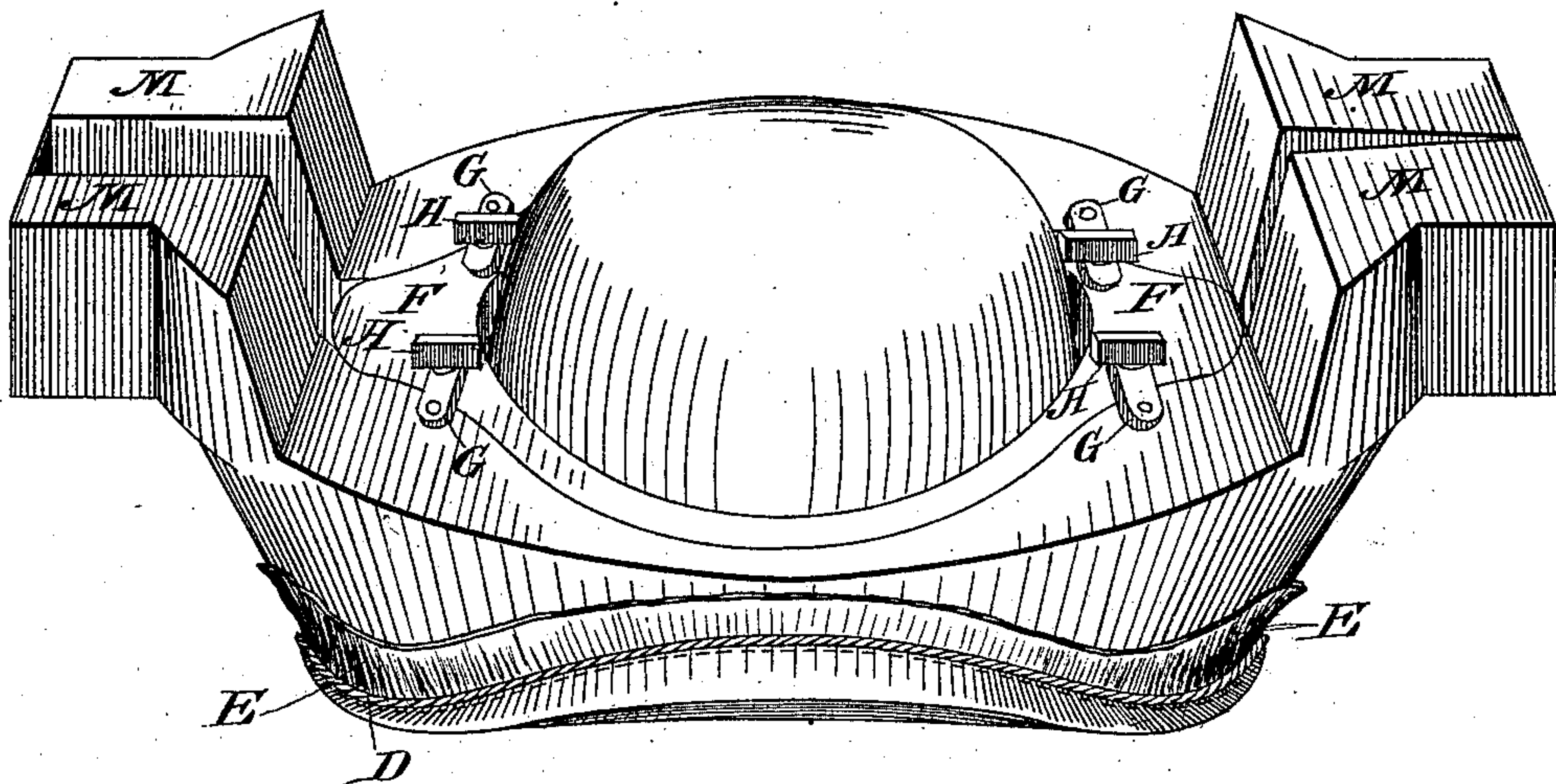
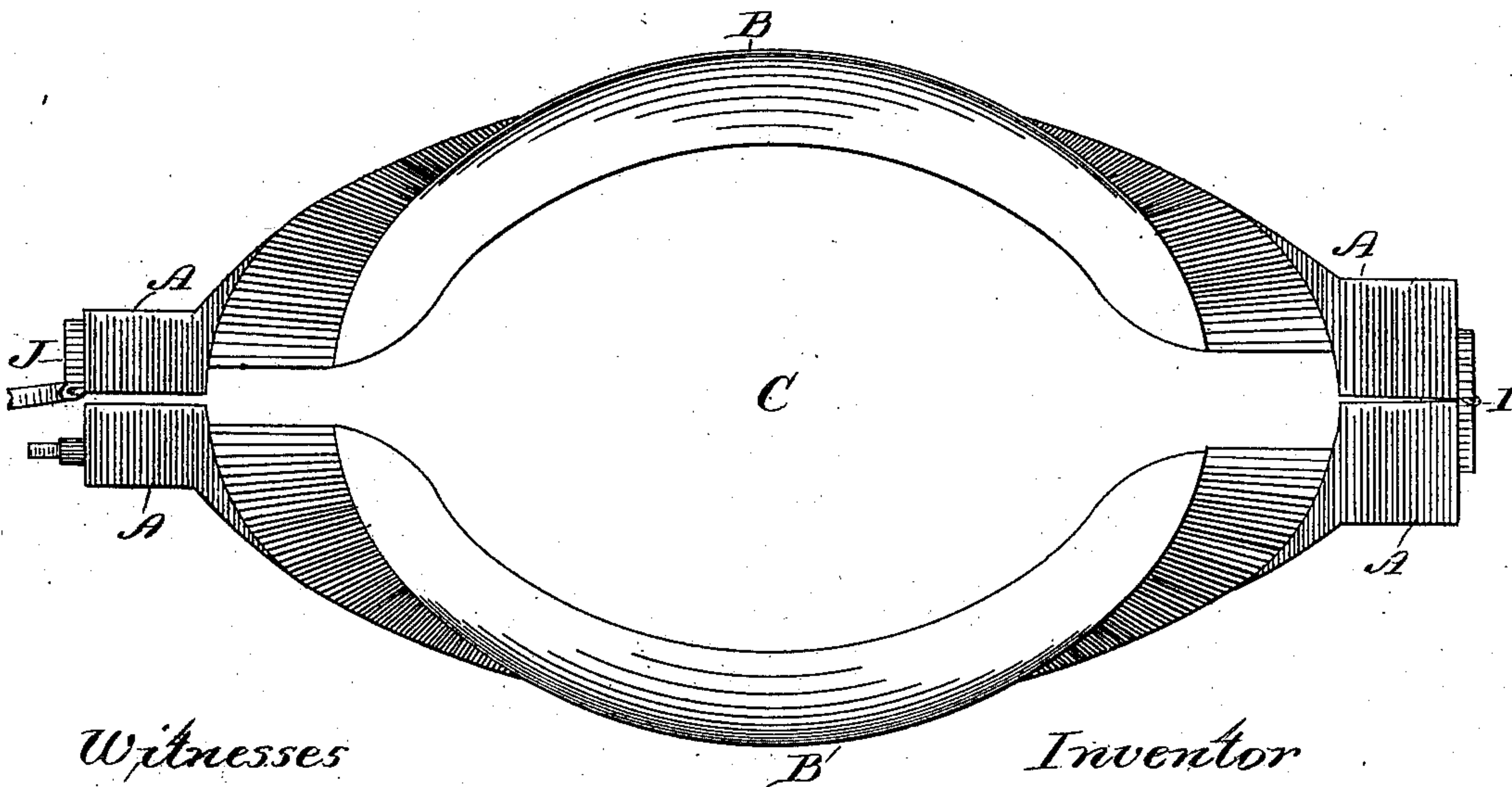


Fig 6



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UNITED STATES PATENT OFFICE.

MARTIN H. RYDER, OF STAMFORD, ASSIGNOR TO ALDEN SOLMANS, OF SOUTH NORWALK, CONNECTICUT.

DEVICE FOR FLANGING HAT-BODIES.

SPECIFICATION forming part of Letters Patent No. 294,745, dated March 4, 1884.

Application filed November 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, MARTIN H. RYDER, a citizen of the United States, residing at Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Devices for Flanging Hat-Brims; and I do hereby 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.

My invention relates to certain novel and useful improvements in devices for flanging the brims of stiff and semi-stiff hats, and has for its object to enable the operator to remove the hat after it is flanged without breaking or rumpling the flanged portion; also to insure quicker work in removing the hat from the frame after it has been operated upon; and with these ends in view my invention consists in providing a device of this description with an interior central removable section, whereby the frame may be permitted to collapse or come together in a smaller space, and thereby allow the hat to drop off; also in arranging suitable means for holding the whole frame together in the proper operative position, all as will be hereinafter fully and in detail explained, and then specifically designated by the claims.

In order that those skilled in the art to which my invention appertains may more fully understand its construction and operation, I will proceed to describe the same in detail, referring by letter to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan view of my improved hat-flanger; Fig. 2, a bottom view, showing the means for securing the central portion in position; Fig. 3, a side elevation; Fig. 4, a cross-section of my device with a hat in proper position thereon; and Fig. 5, a perspective view, showing a hat on the device, and also the track of the knife (in dotted lines) which cuts away the "petticoat."

Similar letters denote like parts in the several figures.

A is the frame of the device, of any desired shape, and B the flange, formed integral with or detachably secured to said frame. The curvature or contour of this flange is made to

correspond to any desired shape of the hat at that particular portion. The frame is constructed with a central opening, C, to accommodate the body of the hat. The brim of the hat is turned over the flange and retained in this position by means of a cord, D. (See Figs. 4 and 5.) The sides and ends of the frame are so formed and inclined and the flange meets said sides at such a curve that the surplus stock or petticoat E of the hat beyond the cord will lie uniformly and evenly against the sides, while at the same time the cord will follow said curve, and be secured without any danger of slipping up out of place; also, the contour of the sides where they meet the flange is such that it corresponds precisely with the inside curve of the flange desired in the hat, so that when a cord binds the hat on the flange, said cord may be followed as a guide by the cutting-knife, and the said inside curve be obtained without any subsequent trimming.

In order to facilitate the removal of the hat after it has been properly flanged, I make the central portion, F, of the frame detachable, and adapted to be inserted within the latter in such a manner that the upper surfaces of the two parts will be perfectly flush and of a continuous curve in cross-section, so as to conform to the curl of the hat-brim.

G are twin buttons pivoted to the frame and having at their outer extremities set-screws H, by means of which the portion F may be forced into the desired position within the frame and retained as against slipping or dropping completely out.

The frame A is made in two sections hinged together at one end, as seen at I, and fastened at the other end by any suitable device, J. The stock of the frame is cut away, as seen at K L, in order to permit the sections to come together after the central portion has been removed.

The operation of my improvement is as follows: The several parts are assembled in the position illustrated at Fig. 1. The body of the hat is placed through the opening C, and the brim brought around the flange B and confined by the cord D, as clearly shown at Fig. 5. The brim and flanged portion are then ironed in the ordinary way, and it will be observed

that the distance between the flange and the supports M is sufficiently great to enable the operator to iron around the ends of said flange with facility. The flange of the hat is then cut, as shown in dotted lines, Fig. 5, the cord being followed as a guide. The set-screws H are then loosened, the buttons G thrown back, the central section, F, removed, and the sections of the frame closed together, as seen at Fig. 6. The hat is now readily removed without any prying off and consequent mutilation of the flange, and the several parts of my improvement arranged again in their normal position.

Prior to my invention great difficulty has been experienced both in removing and in ironing the flanged portion of the hat, and considerable time is spent in performing these operations, all of which add expense to the production of a complete hat. By the use of my improvement not only is the hat flanged and ironed in less time than heretofore, but also a far better result is obtained.

I do not wish to confine myself to the exact style of clamping devices shown for securing the detachable portion of the frame, as any ordinary fastenings may be substituted therefor; neither do I wish to limit myself to the hinging of the sections at one end and locking at the other, although I prefer this construction, the gist of my invention in this respect resting in the broad idea of the closing or contraction of said sections after the central portion of the frame has been removed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A device for flanging hat-brims, having an inner removable portion, through which

the crown of the hat extends, and with the sides adapted to close or contract, substantially as set forth.

2. A device for flanging hat-brims, consisting of a block or frame constructed and flanged as described, and adapted to receive a removable inner portion, through which the crown of the hat extends, substantially as described.

3. A hat-flanging device composed of three sections—a central removable section, through which the crown of the hat extends, and the side sections flanged and constructed as described and adapted to close or contract, substantially as set forth.

4. In a device for flanging hats, the sides and ends of the frame inclined and formed as described, whereby the hat may be firmly held and the retaining-cord prevented from slipping upward, substantially as set forth.

5. The inner removable section adapted to receive the crown of the hat within the same, in combination with the sides of the frame adapted to contract, and clamping devices attached to said frame, whereby said inner section may be forced and held in the required position, substantially as and for the purpose set forth.

6. In a hat-flanging machine, the sides of the frame and the flanged portion thereof, constructed as described, and with their line of junction adapted to correspond with the desired curve of the inner portion of the hat-flange, substantially as set forth.

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

MARTIN H. RYDER.

Witnesses:

F. W. SMITH, Jr.,
S. S. WILLIAMSON.