

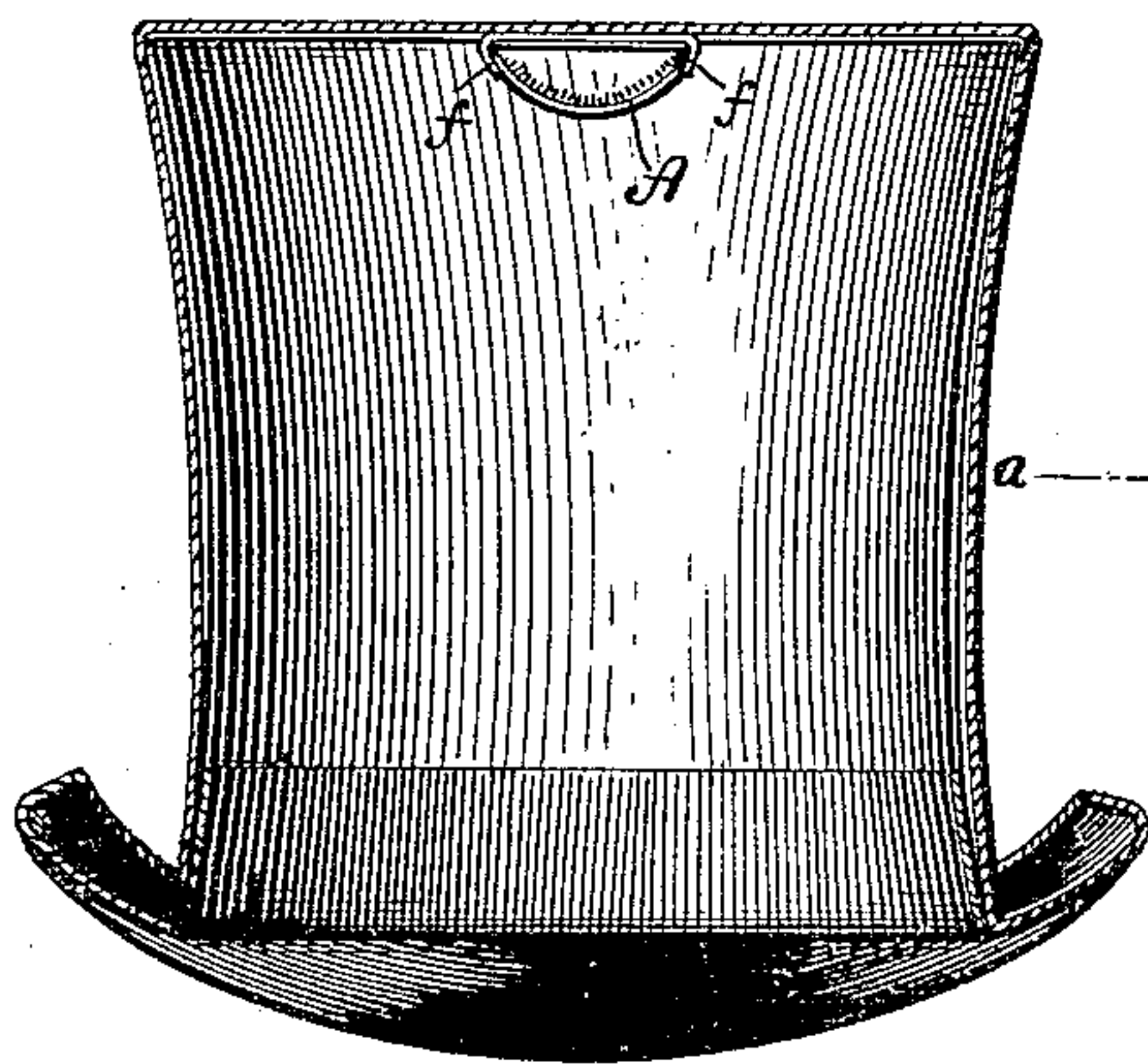
(No Model.)

M. J. SUNDERLIN.  
HAT BRUSH AND PAD.

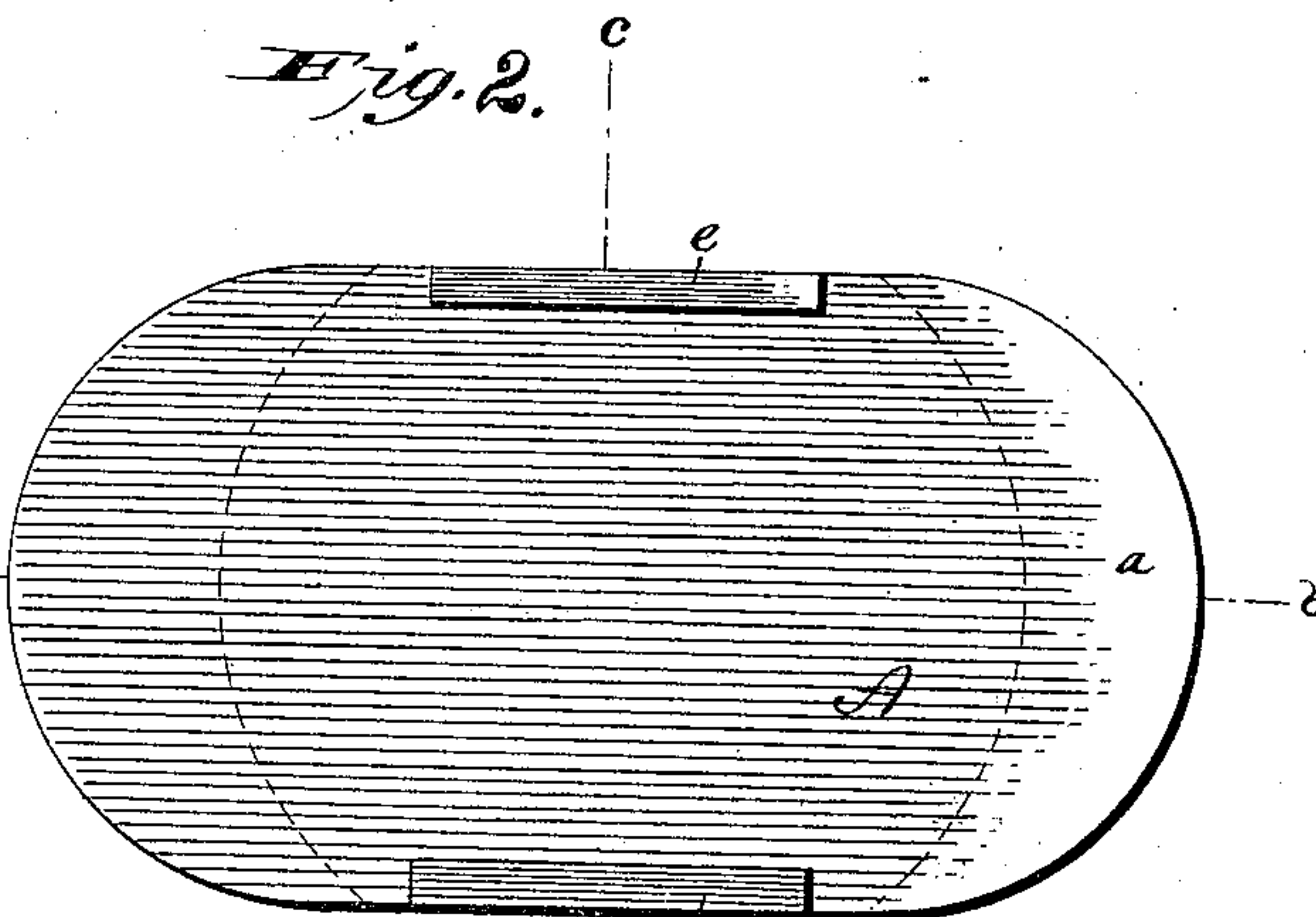
No. 407,261.

Patented July 16, 1889.

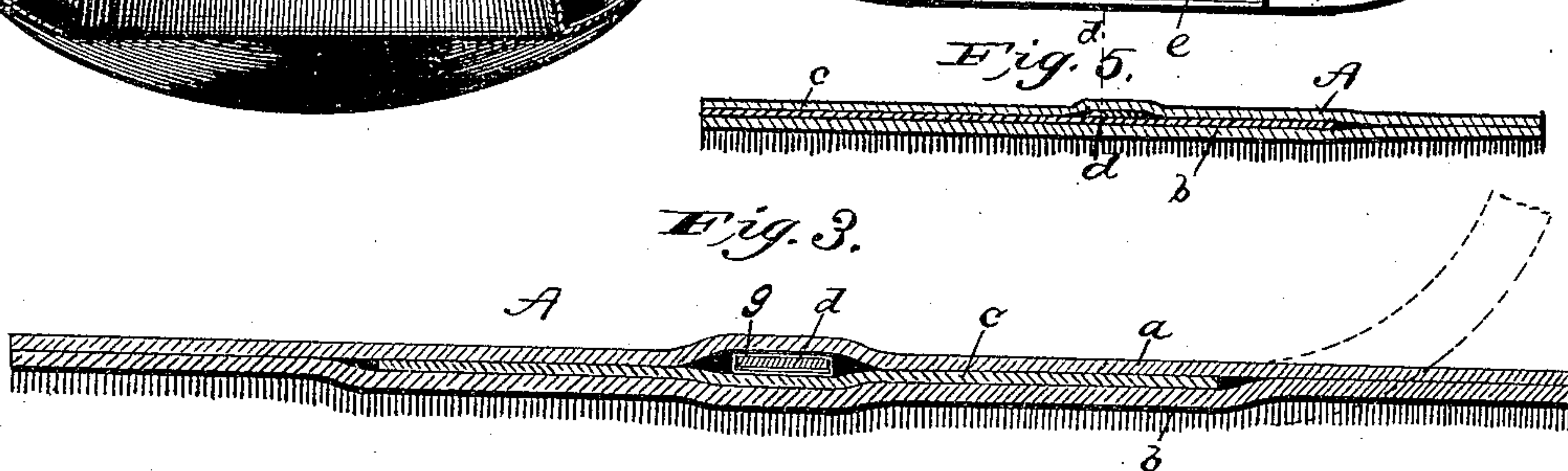
*Fig. 1.*



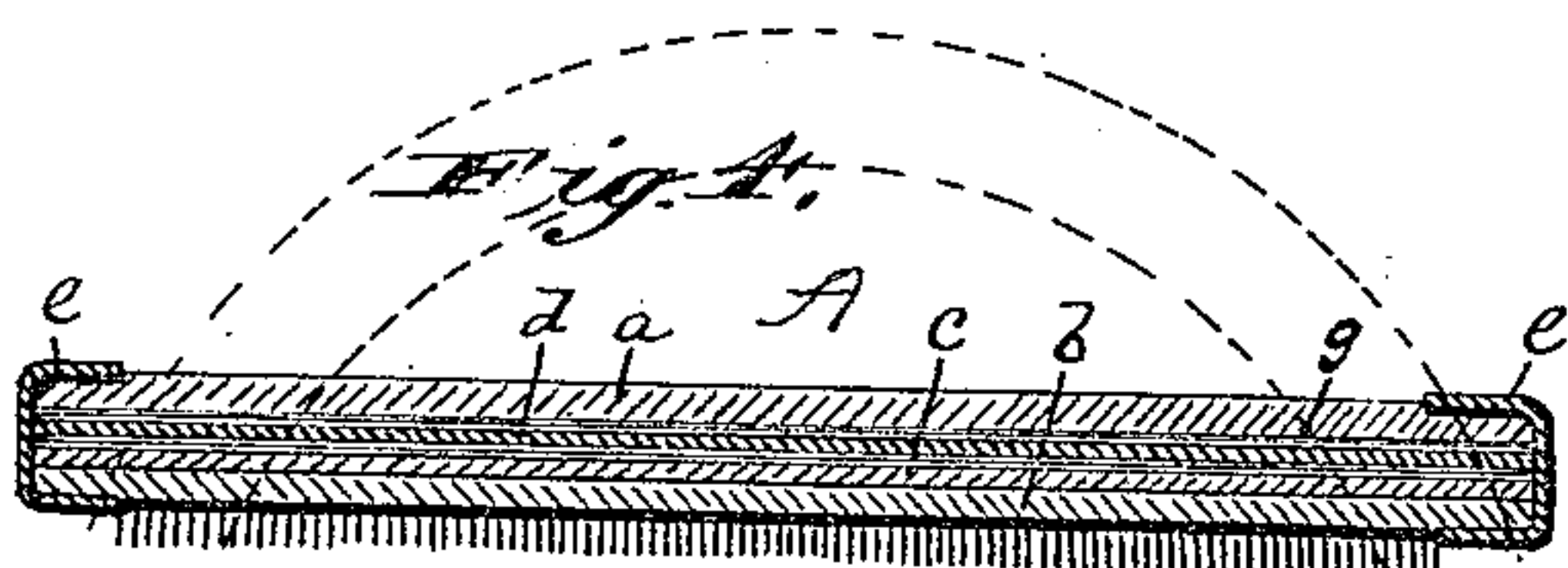
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

MARTIN J. SUNDERLIN, OF WATKINS, NEW YORK.

## HAT BRUSH AND PAD.

SPECIFICATION forming part of Letters Patent No. 407,261, dated July 16, 1889.

Application filed August 23, 1888. Serial No. 283,549. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN J. SUNDERLIN, a citizen of the United States, residing at Watkins, in the county of Schuyler and State of New York, have invented certain new and useful Improvements in Hat Brushes and Pads, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 represents a sectional view of an ordinary silk hat provided with one of my improved brushes; Fig. 2, a plan view of the brush; Fig. 3, a longitudinal sectional view of the same, taken on the line *a b* of Fig. 2, but somewhat enlarged in order to better show its construction; Fig. 4, a transverse sectional view of the same, taken on the line *c d* of Fig. 2; Fig. 5, a view similar to Fig. 3, showing the stiffening-sheet *c* extending entirely to one end of the brush.

This invention has relation to that class of brushes and pads adapted to be removably attached to the interior of a hat, whereby the brush or pad will at all times accompany the hat and be ready at hand for immediate use, enabling the wearer to readily smooth or clean the hat whenever it becomes rumpled or soiled, as will be more fully hereinafter set forth.

The essential objects of this invention are to provide a simple and durable brush or pad which will not disfigure or add appreciably to the weight of the hat, that will be sufficiently elastic to hold itself within the holding-fingers upon the interior of the hat, and that will be sufficiently flexible to enable the operator to readily concave or convex it to facilitate the brushing and cleaning of the hat, and whose ends may be curled up to enable the operator to brush and clean the curled brim of the hat, as will be hereinafter more fully set forth.

In the accompanying drawings, the letter A designates my improved brush, which is constructed as follows: *a* designates the back of the brush or pad, which may be made of any suitable flexible material—such as leather—and any desired shape, preferably oval or elliptical. To this back-piece *a* is pasted, glued, or otherwise fastened a similarly-shaped piece of mohair plush, silk plush, or other similar flexible material *b*, the pile on this piece being turned outward to

serve as the brushing or cleaning surface. Between the back *a* and the face *b* of the brush is interposed a light thin piece of card-board *c* or other light stiffening material, which extends entirely across the brush and to within a short distance of its ends, as shown in dotted lines in Fig. 2. This card-board forms a stiffener for the brush, but leaves the ends of it free or pliable to permit them to be turned up or curled for brushing the curled portions of the brim of a hat or for other purposes, as shown in Fig. 3. It is evident that the stiffening-sheet may be extended at one end to the end of the brush, leaving only one end pliable and free, as shown in Fig. 5, without departing from the invention in the least. Inserted between the face and the back of the brush, either above or beneath the stiffening-sheet, and extending transversely of the brush at or near its middle, is a flat spring *d*, of metal, whalebone, or other elastic substance. This spring distends or straightens out the brush after the same is removed from its holder in the hat or after it has been bent in brushing the same. The tendency of the spring to resume its normal position is utilized to hold the brush in its place in its holders *f f* in the hat, as shown in Fig. 1. This spring *d* is inclosed or sheathed in thin waxed paper *g* or other impervious and pliable material to prevent the glue or paste adhering to the spring in the process of manufacture and rusting or weakening it. It is evident that as I may employ two or more springs in my brush, as the exigencies of the case may require, I do not wish to limit myself to one spring.

The letter *e* designates small binding clamps or stays clamped or riveted upon and embracing the side edges of the brush. These stays serve to more securely hold the parts of the brush together and prevent the ends of the spring or springs (which they embrace) from working out at the sides of the brush. These stays also serve to protect the brush while in its holder or in use and preserve its uniformity of shape.

The brush as thus constructed will be light, strong, and elastic and pliable, adding but little to the weight of the hat.

It is evident that I may, if desired, secure the brushing material upon the whole or any portion of the back of the brush also. In this



case the plush on one side may be made fine and soft and that of the other of a coarser material.

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

1. In an elastic pad or brush, the combination of a flexible back and a flexible brushing-face secured together, and an interposed  
10 stiffening-sheet extending entirely across the width of the brush and through the main portion of its length, whereby the main portion of the brush will remain stiff, and the rest of the brush may be curved or flexed, as and for  
15 the purpose set forth.

2. The combination, in an elastic brush, of the pliable back and brushing-face secured together, a transverse spring interposed between the same, and metallic clamps *e e*, clasp-  
20 ing the side edges of the brush and the ends

of the said transverse spring, whereby the spring will be firmly held in place and all the parts securely bound together, substantially as described.

3. In a brush, the combination of the brush- 25  
ing-face and back-piece, the interposed transverse spring covered with impervious material, the interposed stiffening-sheet extending entirely across the brush and to within a short distance from the ends of the brush, and the 30  
metallic clamps clasped over the edges of the brush, so as to hold all the parts securely together.

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

MARTIN J. SUNDERLIN.

Witnesses:

MILTON V. HUEY,  
IRA P. KETCHAM.