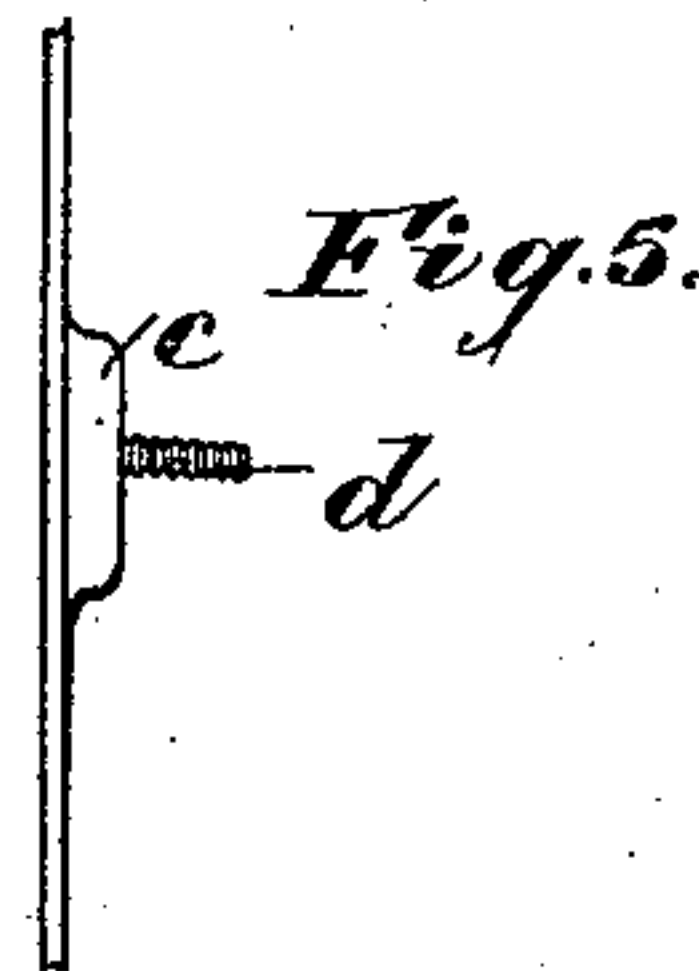
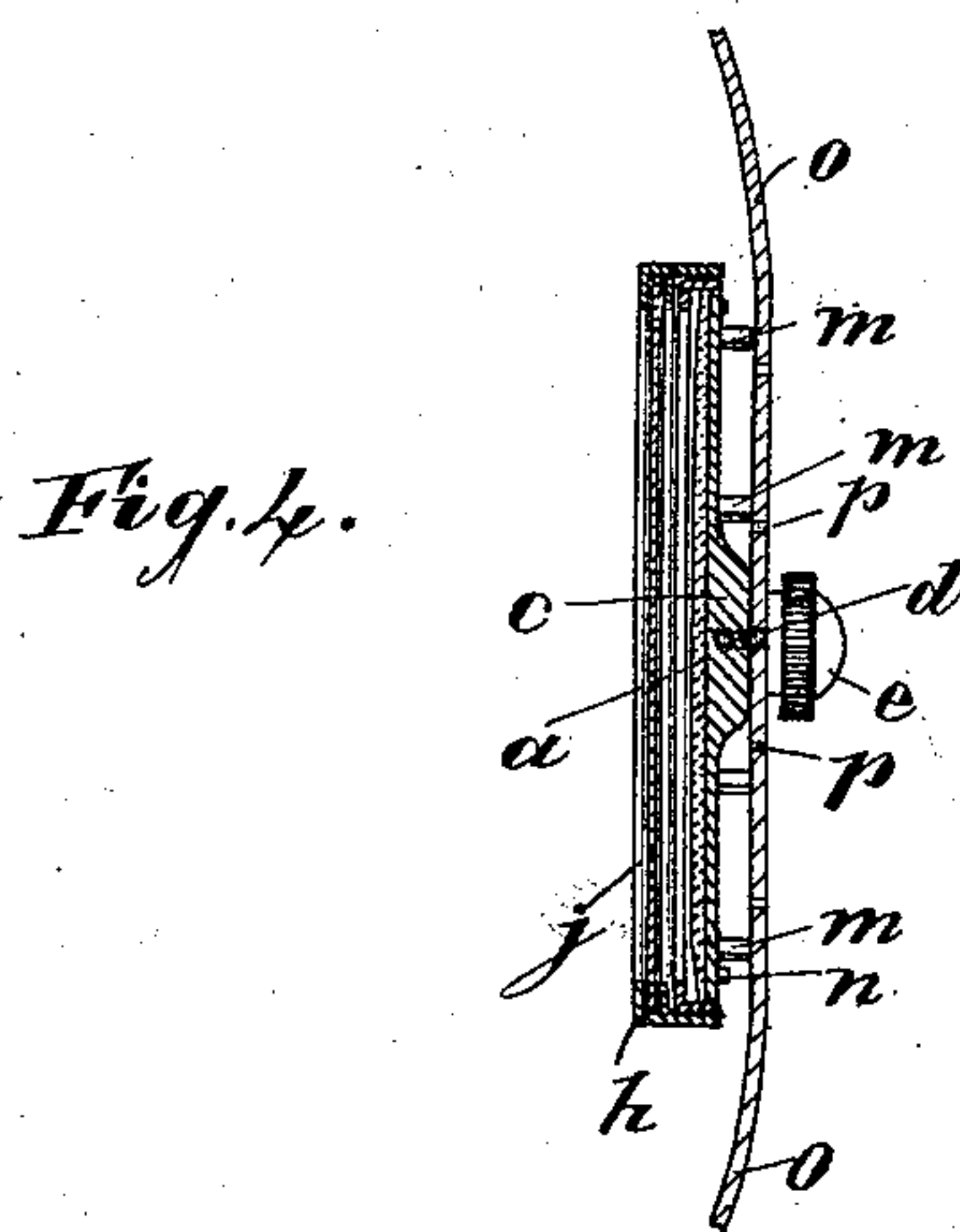
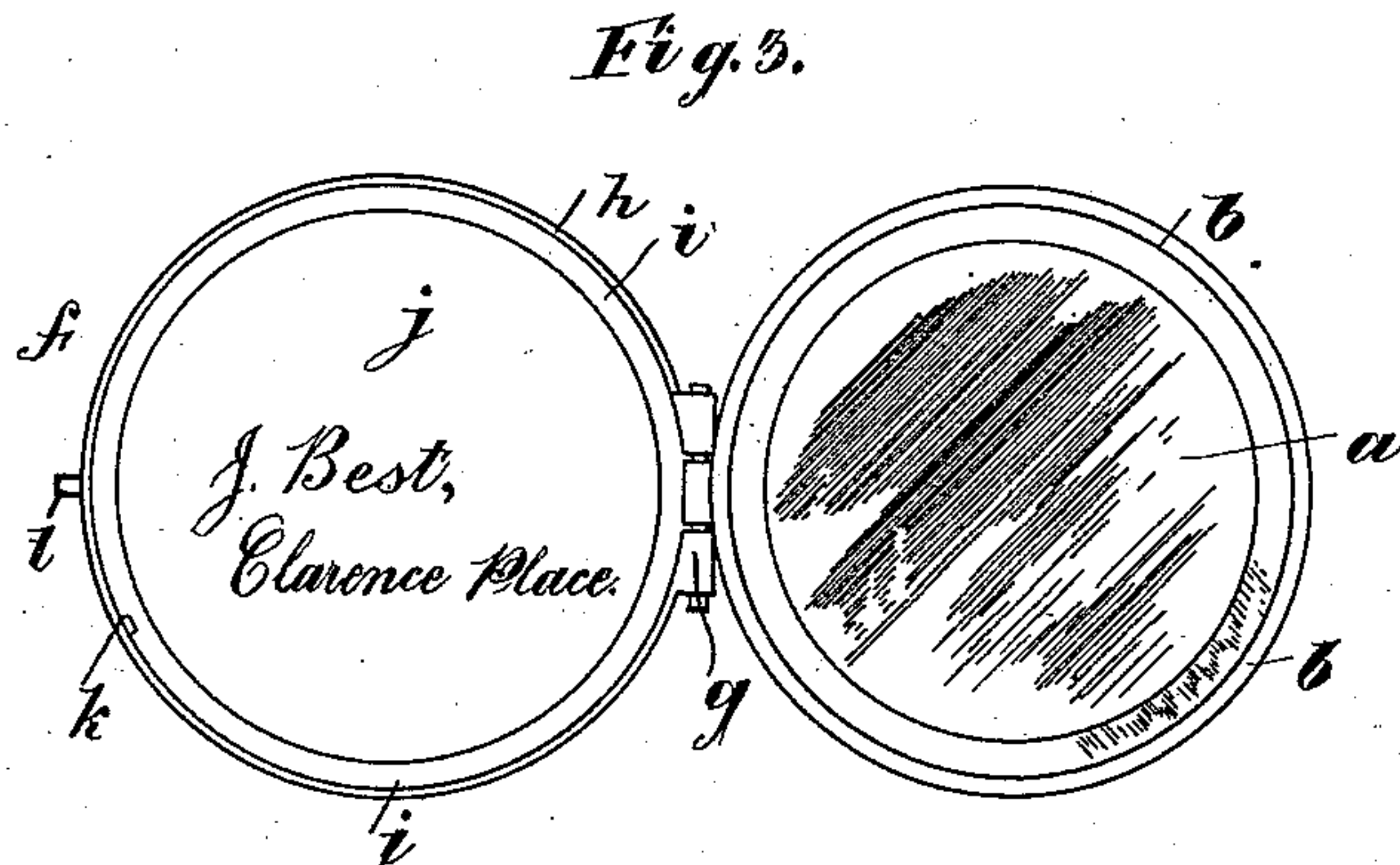
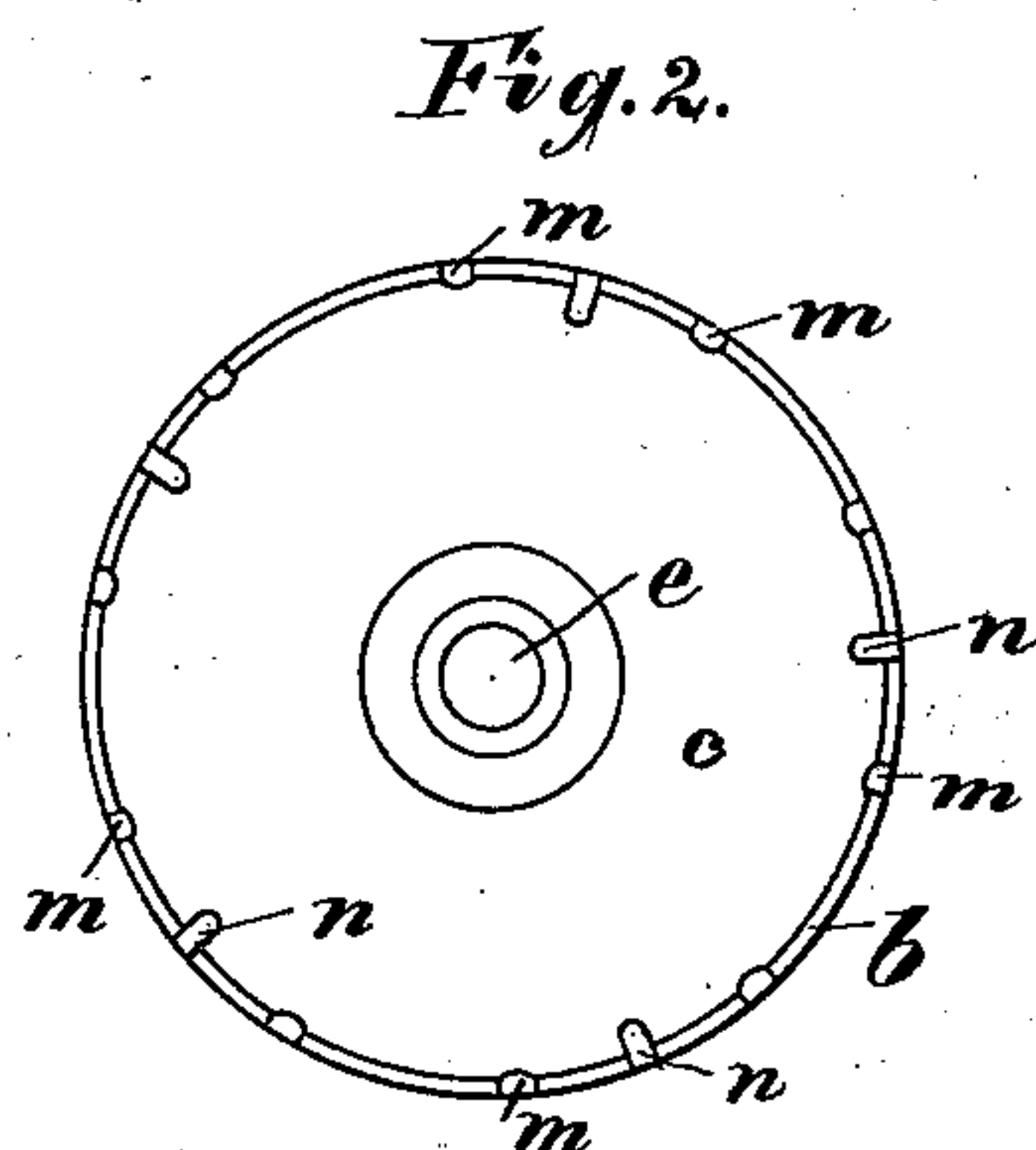
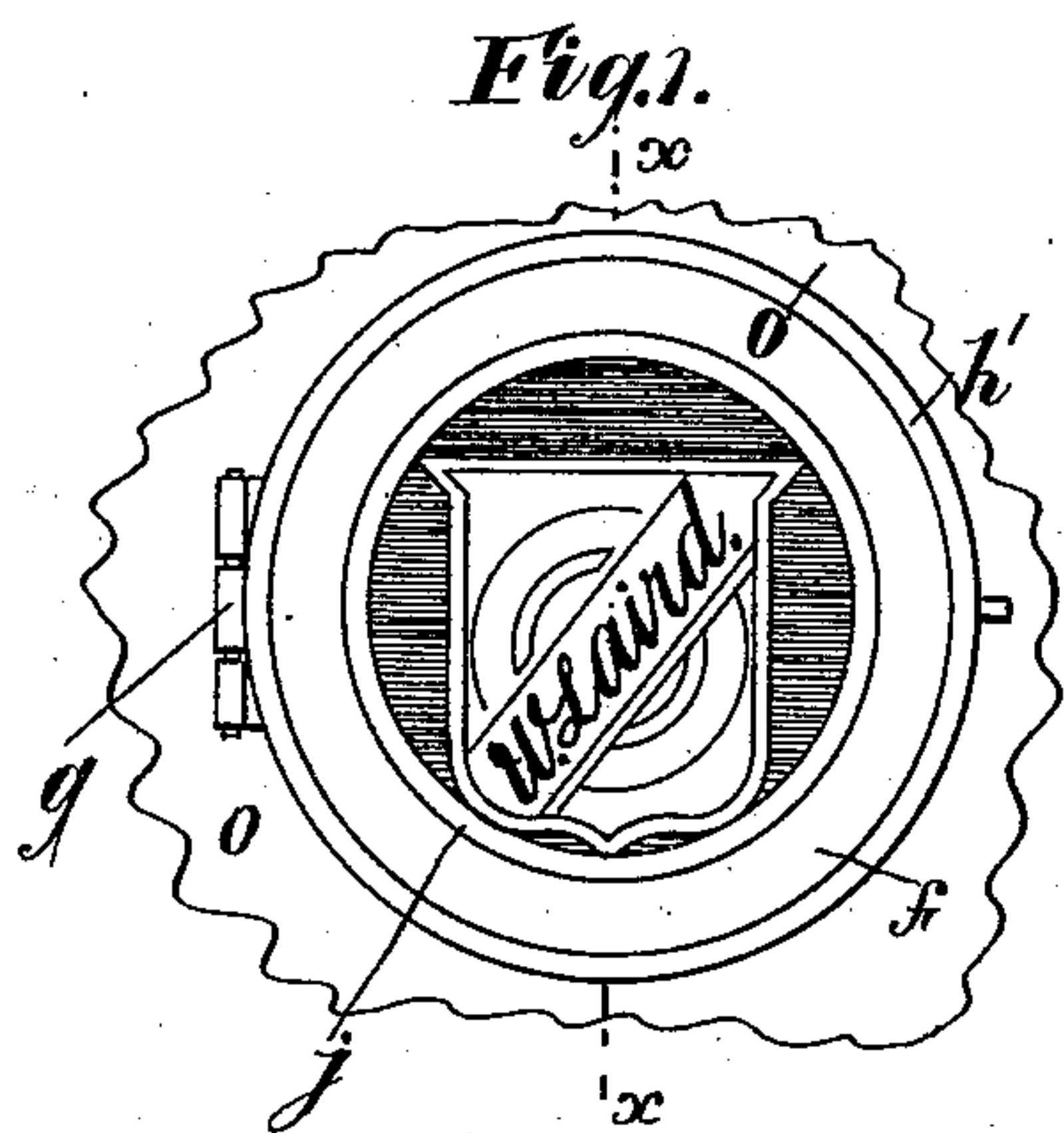


(No Model.)

J. BEST & C. J. KNOX.  
HAT MIRROR.

No. 542,405.

Patented July 9, 1895.



Witnesses  
E. H. Sturtevant.  
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# UNITED STATES PATENT OFFICE.

JAMES BEST AND CHARLES JAMES KNOX, OF BELFAST, IRELAND.

## HAT-MIRROR.

SPECIFICATION forming part of Letters Patent No. 542,405, dated July 9, 1895.

Application filed August 11, 1894. Serial No. 520,071. (No model.) Patented in England February 21, 1894, No. 3,713.

*To all whom it may concern:*

Be it known that we, JAMES BEST and CHARLES JAMES KNOX, subjects of the Queen of Great Britain, and residents of the city of Belfast, Ireland, have invented a certain new and useful Improvement in a Combined Mirror, Ventilator, and Name and Address Card for Hats and other Head-Coverings, (which has been patented in Great Britain February 21, 1894, No. 3,713,) of which the following is a specification.

Our invention relates to hat-mirrors adapted to be attached to the inside of felt and other hats and caps.

The invention consists essentially of a mirror secured in a frame, which is provided with means for centrally attaching the same to a hat and with projections for preventing actual contact with the hat except at the point of attachment, as more particularly hereinafter described.

In the accompanying drawings, Figure 1 is a plan view of a hat-mirror constructed according to our invention as it appears attached to the hat, the cover being closed. Fig. 2 is an inverted plan view of the same unattached. Fig. 3 is a top view showing a hat-mirror constructed according to our invention, the cover being open. Fig. 4 is a sectional view taken on the line  $xx$  of Fig. 1. Fig. 5 is a detail view showing in part the means for attaching the mirror to the hat.

The construction of our invention is as follows: A mirror  $a$ , preferably of beveled glass, is fitted into a frame  $b$  of corresponding size and shape. This frame  $b$  is provided around its lower or back edge with teeth or projections  $m$   $n$ . Behind the mirror, and also within the frame  $b$ , is placed a plate  $c$  of any suitable material. This plate is held in position by the teeth or projections  $n$ , which, after the plate  $c$  has been placed in the frame, are bent down upon it so as to secure it firmly, as shown in Fig. 2. The projections  $m$  are allowed to remain extending out from the plate  $c$  in a direction at right angles thereto for the purpose of preventing the same and its containing-frame from coming into contact with the hat, except at the point of attachment, as shown in Fig. 4.

At or near the center of the plate  $c$  is a projection or protuberance, to which is attached

in any suitable manner the screw-threaded pin or stud  $d$ , perpendicular to the surface of the plate  $c$ . This pin or stud is intended to be passed through a suitable perforation in the material of the hat, preferably about the center of the crown  $o$ , and to receive on its upper or exterior end a nut or button  $e$ , internally screw-threaded to engage with the threads of the pin or stud  $d$  and preferably externally milled for convenience in screwing the same down upon the pin or stud  $d$ , and thus securing the mirror in place.

Attached to the frame  $b$  by the hinge  $g$ , or in any other suitable manner, is a skeleton cover  $f$ , consisting of a ring-frame  $h$ , having an external lip or flange  $h'$  and a removable ring  $i$  on the inside, which may be secured by the pin or stud  $k$ . Set into the frame  $h$  is a card, tablet, or plate  $j$  of any suitable material. This card is held in position by the frame  $h$  with its lip or flange  $h'$  and the removable ring  $i$ . One or both sides of this card may be written upon, if desired, the name of the owner or the manufacturer of the hat or any other desired words being placed upon it. The said cover-frame may also be provided with a projection  $l$  for convenience in opening the same.

The object of the upwardly-extending projections  $m$  is to prevent the plate  $c$  from coming into contact with the crown of the hat  $o$ , thus securing a space through which the heated air in the hat may circulate and allowing the same to escape through perforations  $p$   $p$  in the material of the hat.

We are aware that it is old to perforate hats to allow the escape of heated air, and also to secure mirrors to hats by a central attachment in such a manner as to prevent contact except at the point of attachment; but we believe the use of a centrally-attached mirror provided with projections, as above described, for securing at all times the proper air-space between the back of the mirror-frame and the perforated crown of the hat to be not only new, but a manifest improvement upon the devices heretofore used.

The purpose and use of the cover  $h$  and its contained card  $j$  are to conceal and protect the mirror, and also to provide convenient means for showing the name of the owner or the manufacturer of the hat or any other desired

matter, one or both sides of said card being used, as desired. The said card can very readily be removed and renewed or replaced. The said cover when closed may be retained  
5 so by means of slight friction between it and the frame *b*, or the hinge may be provided with a spring, or the cover may be held open or closed in any suitable manner.

The device may be made of any suitable  
10 shape or size, and the frame, cover, back plate, attaching-pin, and nut may be made of aluminium or any other suitable material combining lightness with strength, or it may be covered with leather, cloth, paper, or other  
15 suitable material, or japanned, varnished, or otherwise finished.

Having thus described our invention, what

we claim as new, and desire to secure by Letters Patent, is—

A hat mirror comprising a frame having a 20 series of perpendicular projections *m* on its rim, a mirror within said frame, a back plate *c* also within said frame and provided with a central enlargement and screw-threaded stud *d*, and a screw-threaded nut *e*, substantially 25 as set forth.

Signed at Belfast this 16th day of April, A. D. 1894.

JAMES BEST.

CHARLES JAMES KNOX.

Witnesses:

HARPER CRAWFORD,  
ALEXANDER ADAIR.