

(Model.)

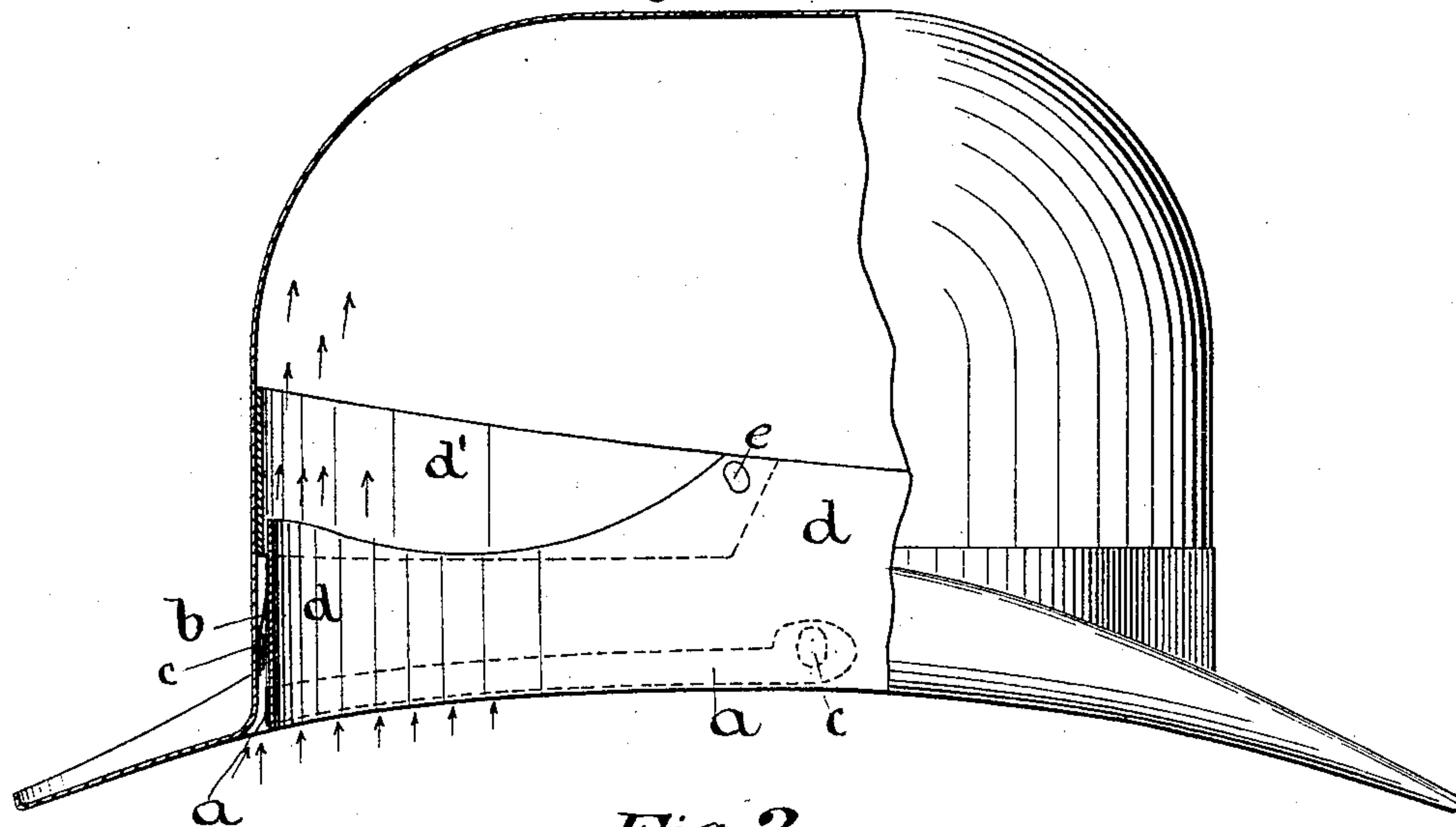
2 Sheets—Sheet 1.

E. J. SHARP.  
HAT VENTILATING DEVICE.

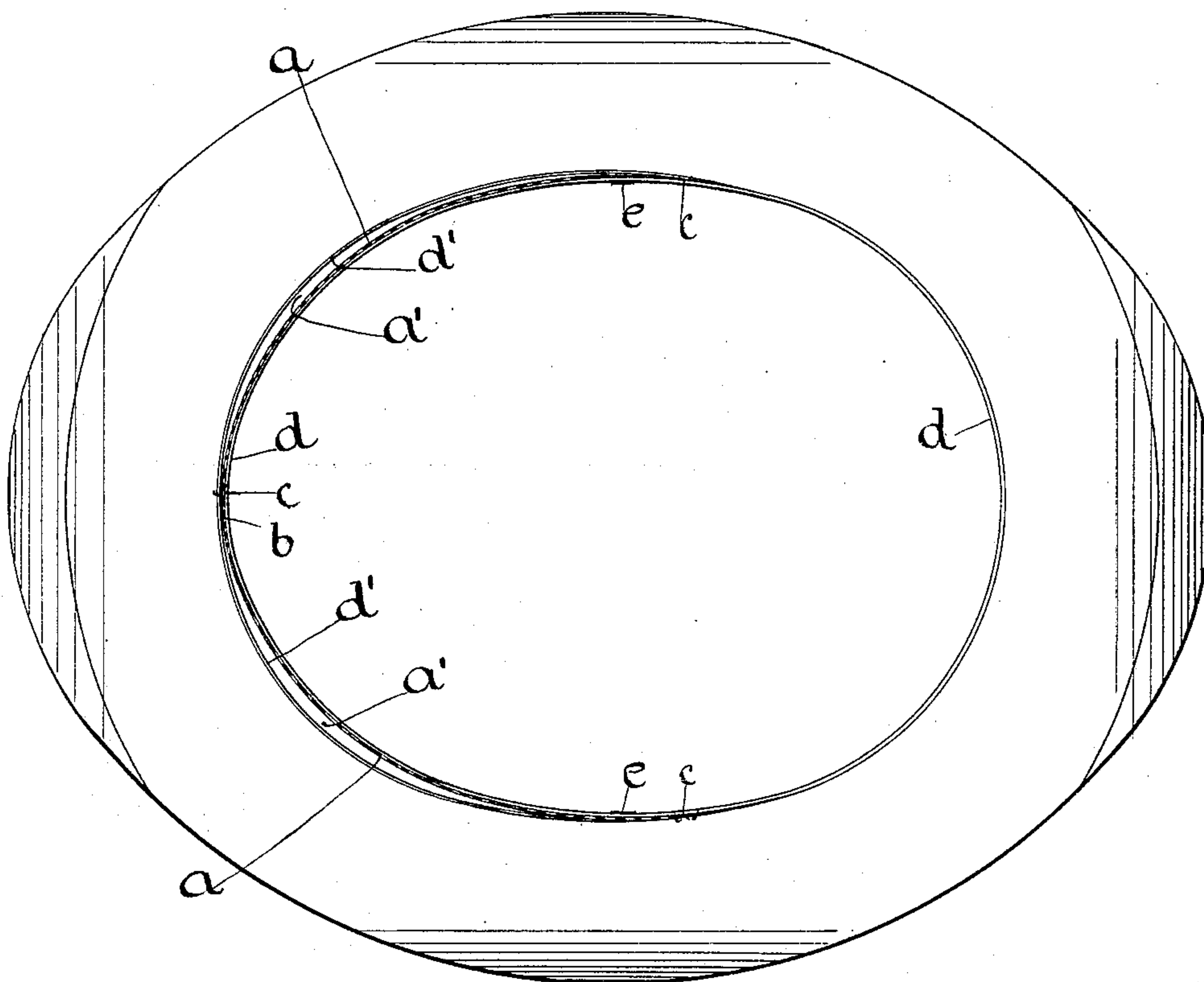
No. 487,786.

Patented Dec. 13, 1892.

*Fig. 1.*



*Fig. 2.*



Witnesses.  
Alfred Boshardt.  
J. W. Bramall.

Inventor  
Edward John Sharp  
per Ferdinand Boshardt,  
Attorney.

(Model.)

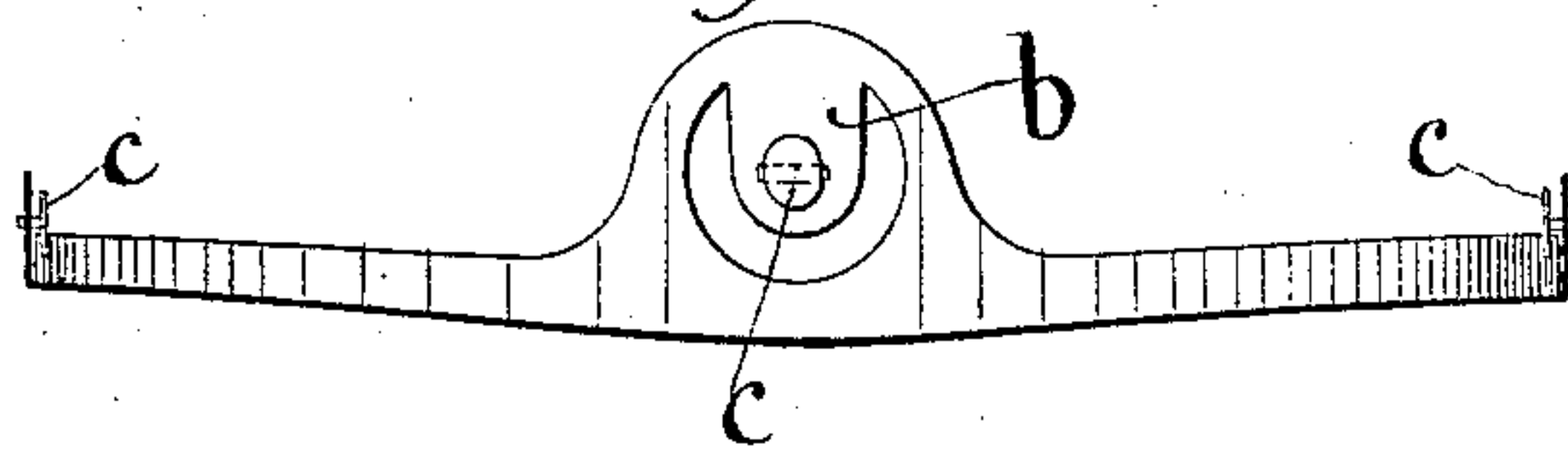
2 Sheets—Sheet 2.

E. J. SHARP.  
HAT VENTILATING DEVICE.

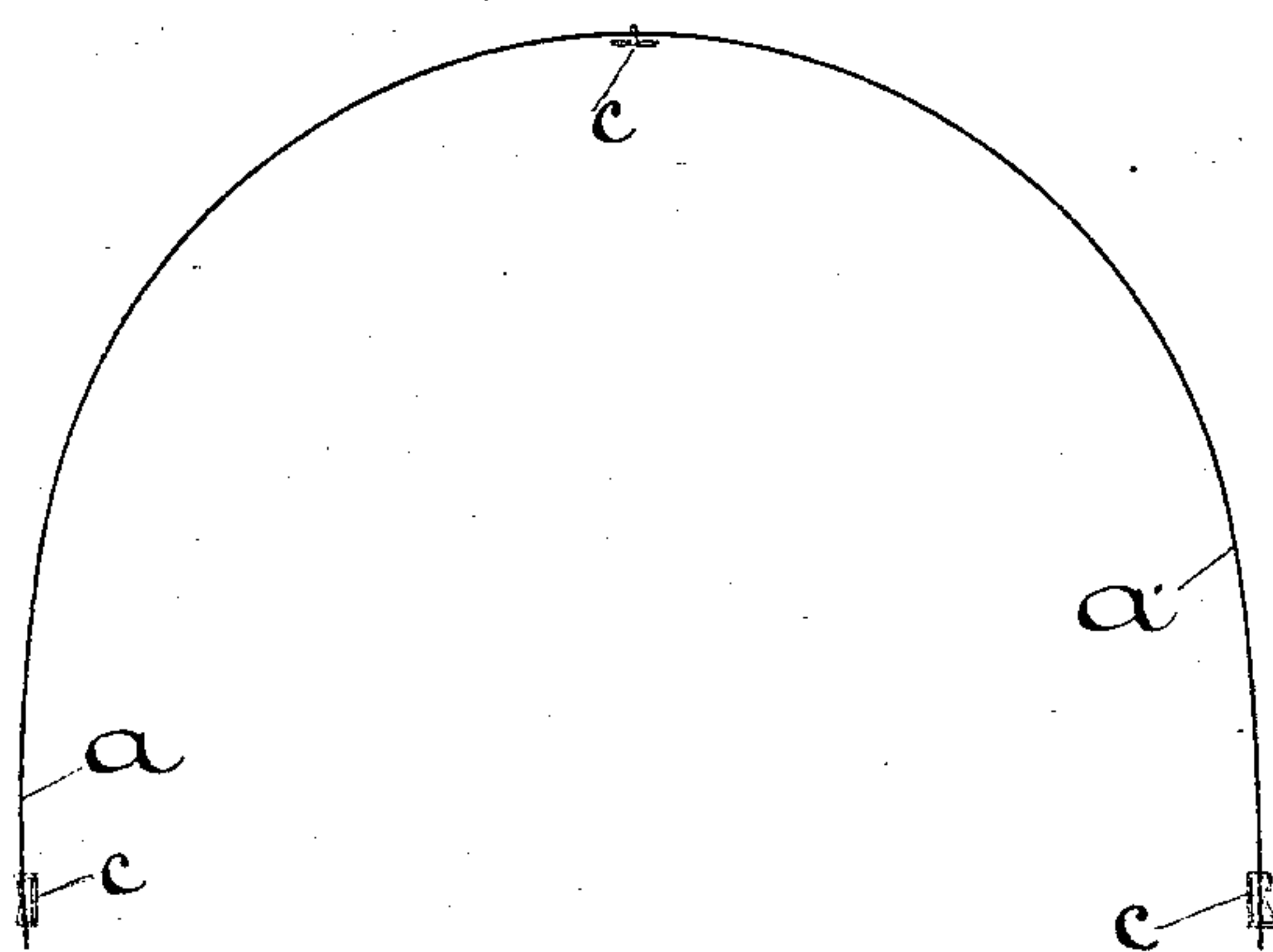
No. 487,786.

Patented Dec. 13, 1892.

*Fig. 3.*



*Fig. 4.*



*Witnesses.*

*Alfred Boshardt.*  
*S. Bramall*

*Inventor.*

*Edward John Sharp*  
*per Ferdinand Boshardt.*  
*Attorney.*



# UNITED STATES PATENT OFFICE.

EDWARD JOHN SHARP, OF STOCKPORT, ENGLAND.

## HAT-VENTILATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 487,786, dated December 13, 1892.

Application filed March 10, 1891. Serial No. 384,454. (Model.) Patented in England April 8, 1890, No. 5,309.

*To all whom it may concern:*

Be it known that I, EDWARD JOHN SHARP, a subject of the Queen of Great Britain, and a resident of Stockport, in the county of Chester, Kingdom of Great Britain, have invented new and useful Improvements in Means for Ventilating Hats or other Head-Coverings, (for which I have obtained in Great Britain Provisional Protection No. 5,309, dated April 8, 1890,) of which the following is a specification.

My invention relates to improvements in means for ventilating hats or other head-coverings, and has for its object to effect the ventilation in a more simple and effective manner than heretofore has been the case. I attain this object by the means illustrated in the accompanying two sheets of drawings, in which—

Figure 1, Sheet I, is partly a longitudinal section and partly a side view; Fig. 2, a plan. Fig. 3 is a side view, and Fig. 4 a plan, of the spring-band detached from the hat.

Similar letters refer to similar parts throughout the several views.

In carrying out my invention I employ a spring-band *a*, (see more particularly Figs. 3 and 4, Sheet II,) which I preferably form of very thin steel, with a tongue *b* in the middle and holes therein, as well as near each extremity of the spring-band *a*, which permits of securing it flexibly in three places to the inside of the hat by means of fasteners *c*. This spring-band *a* is covered with suitable material, such as cotton or wool, which permits of fastening it to the sweat-band *d*.

To facilitate the ingoing air having direct access to the forehead, I longitudinally divide the respective portion of the sweat-band in two parts *d d'*. (See Fig. 1, Sheet I.) The lower part *d* is attached to the inside of the spring-band *a* and overlaps the upper part *d'*, which latter is fitted against the interior of the hat-body, preferably by securing its ends by means of fasteners *e* to the lower part *d*.

On putting on the hat a perfect easy fit is at once attained by reason of the lateral elasticity of the spring-band *a*, owing to its extremities being secured to the hat, causing it

to conform to the shape of the head and leave always passages *a'* (see Fig. 2, Sheet I) between the same and the body of the hat, through which the air can enter the hat freely.

The described spring-band *a*, not being a conductor of grease or sweat and fastened to the sweat-band *d*, not only effects the ventilation of the hat, but also prevents the same becoming greased in front through perspiration, owing to the sweat-band *d* being partly isolated from the body of the hat by the said spring-band *a*, and the staining or softening of the hat thereby entirely avoided. The leather or other head-band *d* being so fashioned as to admit of the current of air passing between the spring-band *a* and the hat playing direct upon the forehead, the head is thus kept cool and the generation of steam avoided, whereas in ordinary hat-ventilation the air is only admitted over the top of the sweat-band *d*, and thereby acts as a condenser only of the steam generated below and not as a preventive.

It will be understood that the described improvements are not only applicable for hats, but also for other head-coverings, such as helmets and the like.

What I claim as my invention, and desire to secure by Letters Patent, is—

In means for ventilating hats and other head-coverings, a spring-band *a*, the ends and middle of which are flexibly secured to the interior of the hat-body, in combination with a sweat-band in front longitudinally divided into two parts *d d'*, the lower part *d* of which is attached to the inner side of the spring-band *a* and the upper part *d'* fitted against the interior of the hat-body to form, respectively, air-spaces *a'* between the lower sweat-band part *d* and the interior of the hat-body, and a passage through the front of the sweat-band for the air to play freely and directly onto the forehead, substantially as and for the purpose set forth.

EDWARD JOHN SHARP.

Witnesses:

ALFRED BOSSHARDT,  
S. E. BRAMALL.