E. M. JOHNSON.

SWEAT BAND.

APPLICATION FILED SEPT. 25, 1907.

917,873.

Patented Apr. 13, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

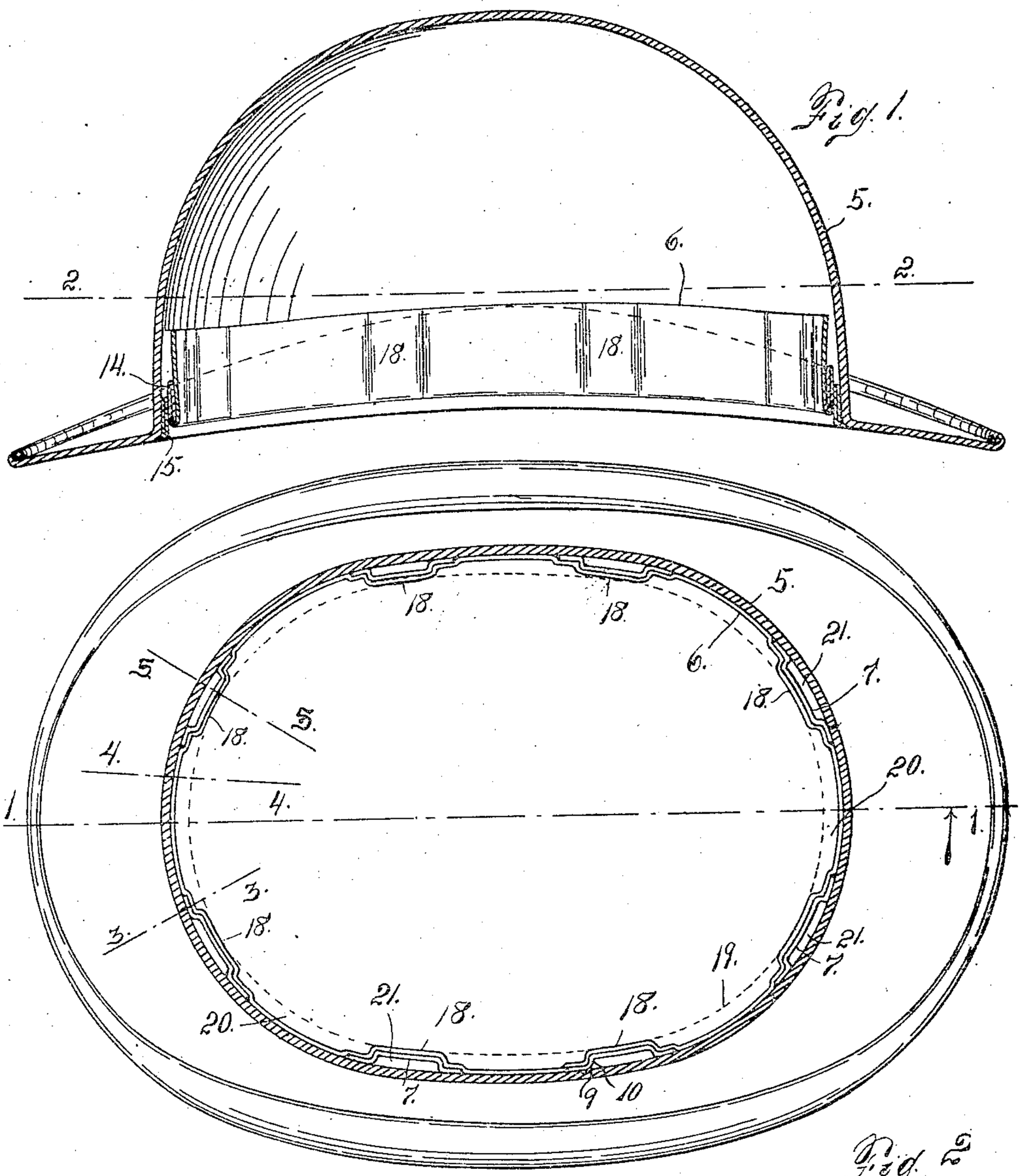

Fig. 2.

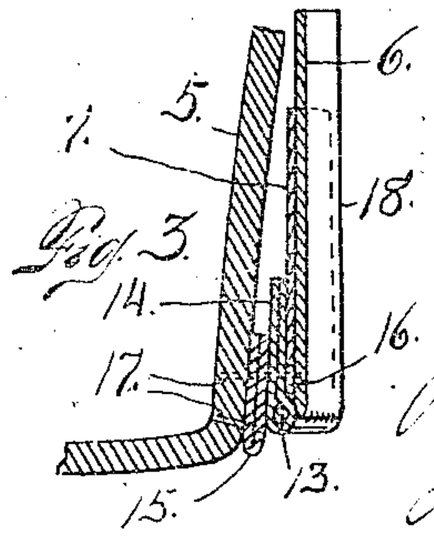

Fig. 3.

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2 SHEETS—SHEET 2

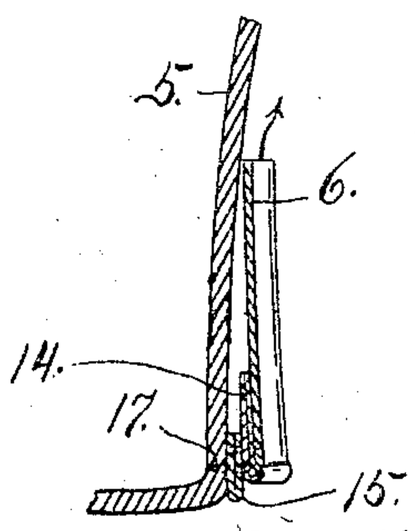

Fig. 4.

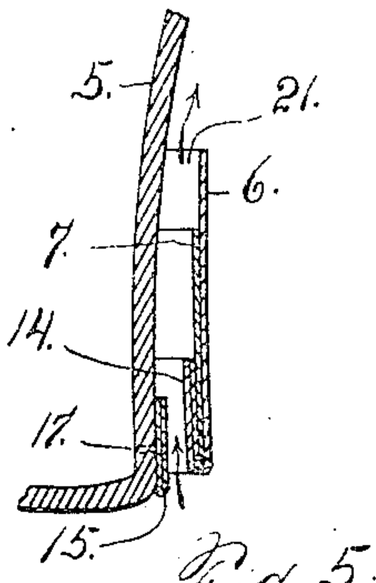

Fig. 5.

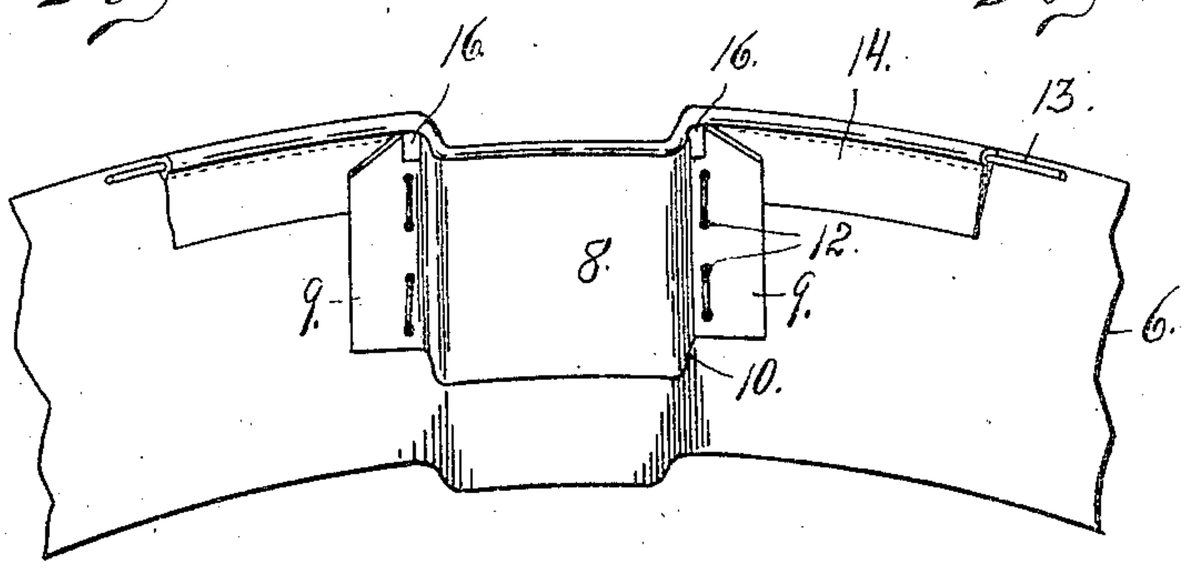

Fig. 6.

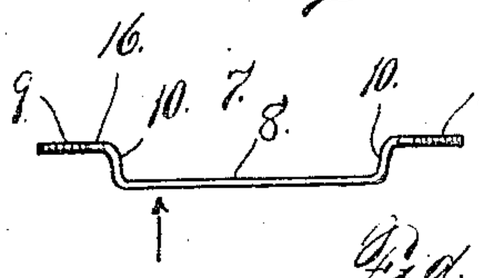

Fig. 7.

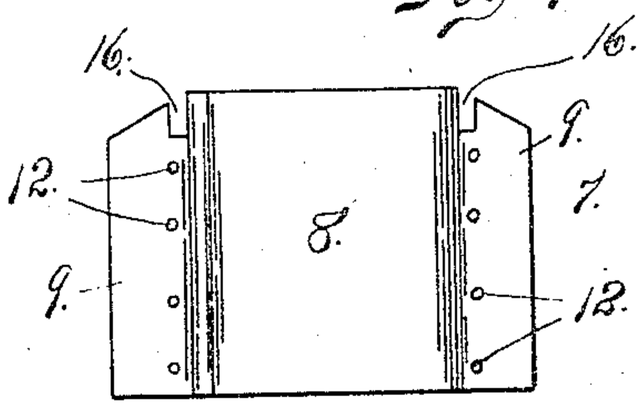

Fig. 8.

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UNITED STATES PATENT OFFICE.

EDWIN M. JOHNSON, OF DENVER, COLORADO.

SWEAT-BAND.

No. 917,873. Specification of Letters Patent. Patented April 13, 1909.

Application filed September 25, 1907. Serial No. 394,464.

To all whom it may concern:

Be it known that I, EDWIN M. JOHNSON, a citizen of the United States, residing in the city and county of Denver and State of Colorado, have invented certain new and useful Improvements in Sweat-Bands; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in sweat bands for hats, caps, helmets and head gear generally, my object being to provide a sweat band adapted to provide for circulation of the air, to prevent the overheating of the head, and also to relieve the head from undue pressure and make provision for the proper circulation of the blood. In order to accomplish this object I provide the sweat band with stiffening devices in which are formed offsets which give a corresponding shape to the sweat band to which the stiffening devices are attached, the said stiffening means being attached to the inside of the sweat band and secured thereto in such manner as to give shape to the band. I prefer to employ a series of thin metal pieces the central part of each of which is pressed inwardly while its sides beyond the offset portion constitute flanges which are perforated to permit the fastening of the offset plates to the sweat band and on the inside thereof. These offset portions of the plates being covered by the sweat band, cause the latter to engage the head only where the offsets are located, making it practicable to reduce the sweat-band-bearing surface to a minimum thus relieving the head from pressure and making provision for ventilating spaces between the offsets or head-engaging portions of the sweat band. Furthermore between the offset portions of the stiffening plates and the body of the hat are formed channels which make further provision for free circulation of air. By using a series of the offset stiffening plates, the crown of a soft hat, remains practically as flexible as when the stiffening device is not applied since there is a considerable space between each two plates where the sweat band is entirely plain or free from the stiffening plates. This is a very decided advantage in soft hats over a continuous stiffening device. The ordinary reed or stiffening device applied to the lower edge of the sweat band may be used or not with my improvement. In the drawing this reed or strengthening device is illustrated though it must be understood that it may be omitted without departing from the spirit of the invention.

Having briefly outlined my improved construction, I will proceed to describe the same in detail reference being made to the accompanying drawing in which is illustrated an embodiment thereof.

In this drawing, Figure 1 is a vertical longitudinal section, taken on the line 1—1 of Fig. 2 through a hat equipped with my improved sweat band. Fig. 2 is a horizontal section taken on the line 2—2 of Fig. 1. Fig. 3 is a section taken on the line 3—3 Fig. 2, the parts being shown on a larger scale and viewed in the direction of the arrow. Fig. 4 is a section taken on the line 4—4 Fig. 2, the parts being shown on a larger scale than in Figs. 1 and 2, but on a smaller scale than in Fig. 3. Fig. 5 is a section similar to Fig. 4 but taken on the line 5—5 Fig. 2 cutting the offset portion of one of the stiffening plates. Fig. 6 is a perspective view of my improved sweat band with its lower edge uppermost. Fig. 7 is an end view of the offset stiffening plate. Fig. 8 is a detail view of the same looking in the direction of the arrow on Fig. 7.

The same reference characters indicate the same parts in all the views.

Referring to the drawings 5 designates the crown of an ordinary hat and 6 the sweat band thereof. To the outside of the sweat band or the side next to the crown of the hat is applied a series of plates 7 each of which is pressed inwardly to form an offset portion 8, the last named part being connected with flanges 9 by offsets 10. These plates may be connected with the sweat band in any suitable manner. As shown more particularly in Fig. 8 the flanges adjacent the offsets 10 are provided with openings 12 to permit the sewing, riveting or otherwise fastening of the plates to the band in such manner that the latter shall conform to the shape of the plates, the latter constituting stiffening devices which determine the form of the band. After the offset plates or stiffening devices are all applied to the sweat band in the manner heretofore explained, the sweat band may be secured to the hat between the offset portions in the usual way. As shown in

Fig. 6 a strengthening wire or reed 13 inclosed in a folded strip of material 14 is secured to the outside of the sweat band in the usual manner. Between the parts 13 and 14 and the body of the crown of the hat is placed a folded strip of material 15 which is ordinarily of waterproof character and is in common use in hats. These special devices may be used or not as desired.

It is preferred to fasten the sweat band to the body of the hat, by sewing through the strips 14 and 15 and to this end the lower edges of the flanges 9 are provided with recesses or slots 16 through which the needle and thread may be passed. The stitches thus formed are indicated by dotted lines at 17 in Figs. 4 and 5. By reason of the slots 16 being formed in the flanges, the sewing of the sweat band to the body of the hat does not interfere with the flexibility of the band at its lower edge. In other words after the sweat band is attached as heretofore explained, it may be turned outwardly to give access to the offset plates beneath whenever it may be necessary to do so, being practically hinged at its lower edge in the usual manner.

When the sweat band is in place, it has offset portions 18 which are the only parts which bear upon the head of the wearer. The dotted line 19 in Fig. 2 indicates the outline of the head when the hat is in place. Hence there are air spaces 20 between the head and the sweat band, intermediate the head-bearing surfaces 18. At the same time additional air spaces 21 are formed between the offset portions of the plates and the body of the hat.

It will be observed, from an inspection of the drawings, that the strip 15 projects downwardly below the lower edge of the sweat band proper and conceals the said edge thereof and the projecting off-set, while the hat is being worn.

Having thus described my invention, what I claim is:

1. A sweat band provided on its outer surface with a series of separated stiffening devices shaped to impart to the band a series of offset head-engaging surfaces separated by air spaces, the said stiffening devices having recesses formed in their lower edges to permit the fastening of the sweat band to the body of the hat without interfering with the hinging of the sweat band at its lower edge.

2. A sweat band provided on its outer surface with a series of separated stiffening devices, each of said devices being in the form of a plate, having its intermediate portion off-set to form lateral attaching wings, each of said wings being notched in one edge, adjacent its point of junction with the offset intermediate portion to permit fastening of the sweat band to the body of the hat.

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

EDWIN M. JOHNSON.

Witnesses:

A. J. O'BRIEN,

DENA NELSON.