March 9, 1943. E. J. KING 2,313,381

HAT CONSTRUCTION

Filed Jan. 25, 1941

Fig. 1

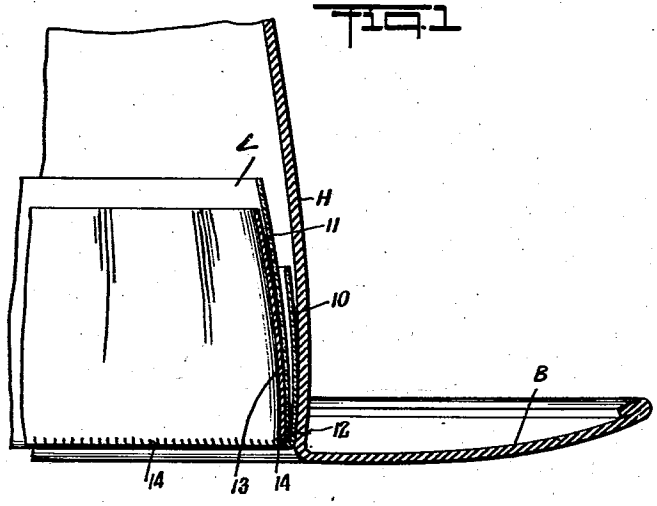


Fig. 2

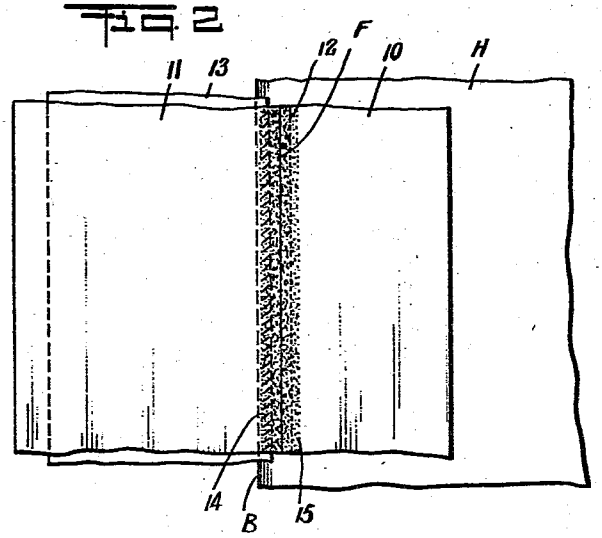
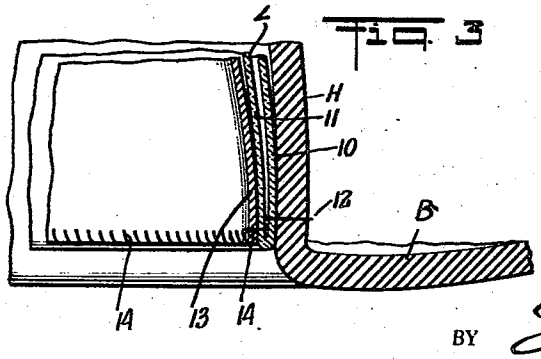


Fig. 3



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Patented Mar. 9, 1943 2,313,381

UNITED STATES PATENT OFFICE

2,313,381

HAT CONSTRUCTION

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Application January 25, 1941, Serial No. 375,876

6 Claims. (Cl. 2—181)

My invention relates to sweat-bands for hats and is more particularly directed to auxiliary means and a method of connecting an ordinary sweat-band to a hat so as to prevent the perspiration from reaching and staining the body of the hat and its ornamental hatband.

It is well recognized that the obvious expedient of disposing a waterproof member between the sweat-band and the body of the hat does not provide the solution because the connecting threads act as wicks and the needle holes likewise permit the moisture to reach the body of the hat therethrough.

It is therefore the principal object of the present invention to provide a construction whereby such thread and needle holes are so disposed and so treated as to effectively prevent the undesirable travel of the perspiration in the manner described.

Another object of the present invention is not only to insulate the body of the hat from the sweat-band by a waterproof liner but to prevent perspiration from being transmitted from the top edge of the sweat-band directly to the hat body or hat lining.

Other objects of my invention will be apparent from the following description, it being understood that the above general statements of the objects of my invention are intended to describe and not to limit it in any manner.

Referring to the drawing:

Fig. 1 is a fragmentary cross-section through a hat provided with a sweat-band construction according to my invention.

Fig. 2 is a fragmentary view thereof with the sweat-band lowered to illustrate the construction thereof.

Fig. 3 is an enlarged view similar to Fig. 1.

The hat H, provided with a brim B, has the usual leather sweat-band 13 therein and the means adopted to positively insulate the hat body from the sweat-band comprises in general the special waterproof liner L folded to provide the sides 10 and 11, the line F indicating the fold line.

To render effective the treatment hereinafter described, the inner L consists of a thin, highly flexible sheet of a thermoplastic synthetic resin, such as cellulose nitrate, cellulose acetate and vinyl resins, which class of resins is inherently thermoplastic and unlike the thermosetting class, can be caused to flow by the application of heat and pressure or suitable solvents without causing a chemical reaction.

The sweat-band is assembled by stitching the side 11 of the liner L to the bottom edge of the sweat-band 13 by a line of stitching 14 and stitching the side 10 of the liner L to the hat by a line of stitching 12.

The stitch holes and threads are then most effectively sealed against the transmission of perspiration by the procedure of applying a solvent of the thermoplastic liner L to these lines of stitching, thereby coating the threads to prevent any capillary or wick action and virtually making the liner and threads integral.

This end may be realized by means of either a solvent solution or by a simple, rapid, heat-sealing operation. The solvents adaptable for the particular thermoplastic resin employed are well known to those skilled in the art and in general, acetone, propylene oxide, ethylene dichloride, mesityl oxide, or the higher ketones are satisfactory. A simple heat-sealing operation can be performed with a soldering iron but the use of a solvent solution is preferred. The solvent solution may be fortified with the particular type of plastic used so that the threads are more positively coated and the holes more perfectly sealed.

The use of threads made of the same or similar type of thermoplastic resin to perform the required stitching is also recommended since the material is waterproof and the threads and liner L fuse by virtue of the applied solvent.

Fig. 2 illustrates the application of such a solvent 15 to the stitching 12 and 14, although it need only be applied to one line of stitching to be effective.

Various embodiments of my invention are possible, the primary concept being the use of a thermoplastic liner and fusing means therefor in the form of a solvent or applied heat. Over the solvent 15 may be disposed a strip of thermoplastic material, if reinforcement of the stitched portions is necessary. In this embodiment a liquid solvent may well be dispensed with and only heat employed since the liner and strip will fuse satisfactorily. The plasticizing property of these thermoplastic resins may also be utilized to secure the sweat-band to the hat body without the use of stitching, the solvent being applied in the form of a liquid solution or heat and pressure.

In the preferred embodiment the side 11 of the liner L extends slightly above and below the sweat-band 13 so that perspiration cannot travel from the top or bottom of the sweat-band to the lining or body of the hat.

I have shown a preferred embodiment of my

invention but it is obvious that numerous changes and omissions may be made without departing from its spirit.

I claim:

1. A method of securing a sweat-band to a hat which comprises stitching said sweat-band to a liner of a thermoplastic resin by thread of the same material as said liner, stitching said liner to the hat body with said type of thread, so that said liner is between said sweat-band and said hat body and applying a solvent of said liner and thread over at least one of said stitched portions of said liner.

2. A hat construction comprising a hat body, a sweat-band, and a liner of a thermoplastic resin disposed between said sweat-band and hat body, said hat body being connected to said liner and said liner being connected to said sweat-band at least one of said connections including an impregnation of one of said connected elements by said thermoplastic liner.

3. A hat construction comprising a hat body, a sweat-band and a liner of a thermoplastic resin disposed between said sweat-band and hat body, said hat body being connected to said liner and said liner being connected to said sweat-band, at least one of said connections being effected by thread stitching and at least one of said connections including an impregnation of one of said connected elements by said thermoplastic liner.

4. A hat construction comprising a hat body, a sweat-band and a liner of a thermoplastic synthetic resin disposed between said sweat-band and said hat body, said hat body being connected to said liner by a first row of thread stitching and said liner being connected to said sweat-band by a second row of thread stitching, at least one of said rows of thread stitching being coated and permeated with thermoplastic material integral with said thermoplastic liner.

5. A hat construction comprising a hat body, a sweat-band and a liner of a thermoplastic synthetic resin disposed between said sweat-band and said hat body, said hat body being connected to said liner by a first row of thread stitching and said liner being connected to said sweat-band by a second row of thread stitching, said stitching comprising thread of a thermoplastic synthetic resin, at least one of said rows of thermoplastic thread stitching being impregnated with thermoplastic material rendering said liner and said impregnated row of stitching integral.

6. A hat construction comprising a hat body, a sweat-band and a liner of a thermoplastic material disposed between said sweat-band and said hat body, said hat body being connected to said liner and said liner being connected to said sweat-band, one of said connections comprising a row of thread stitching, said thread stitching being of thermoplastic material and being coated with thermoplastic material whereby said liner and thread are rendered integral.

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