Nov. 30, 1943. M. V. ST. CLAIR 2,335,706

SHIELD

Filed Aug. 9, 1940 2 Sheets-Sheet 1

Fig. 1.

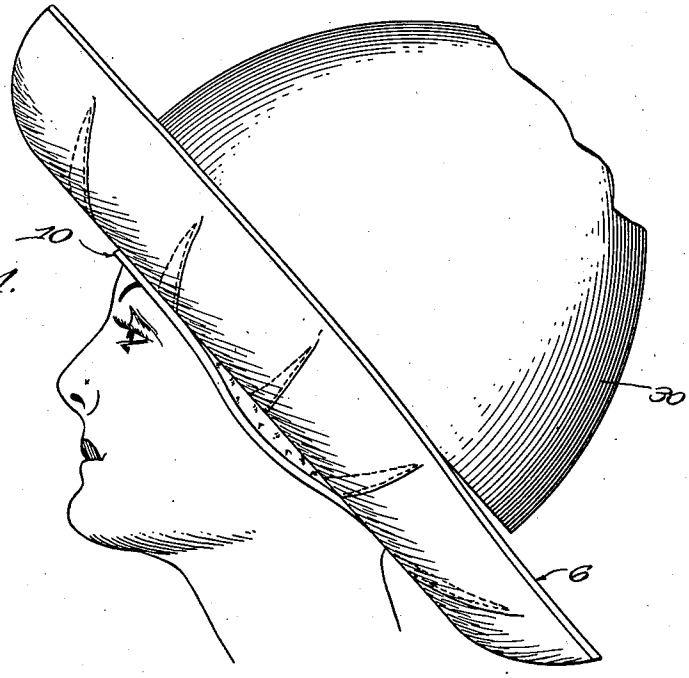
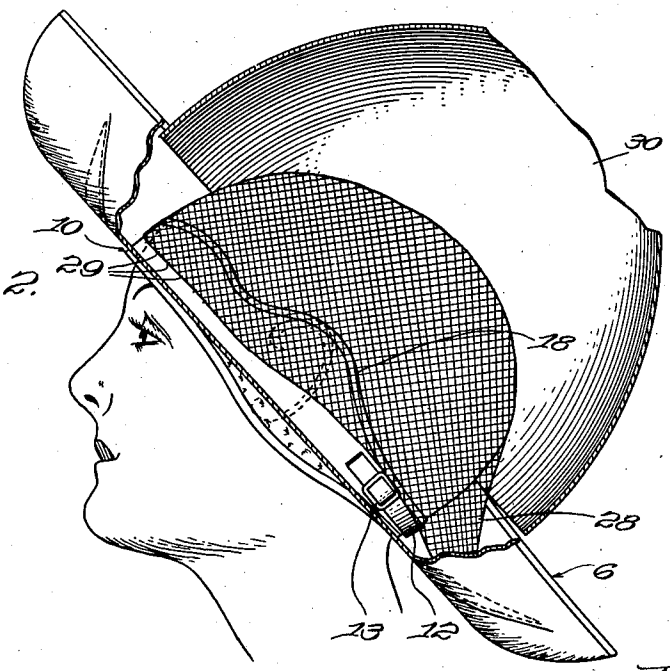


Fig. 2.



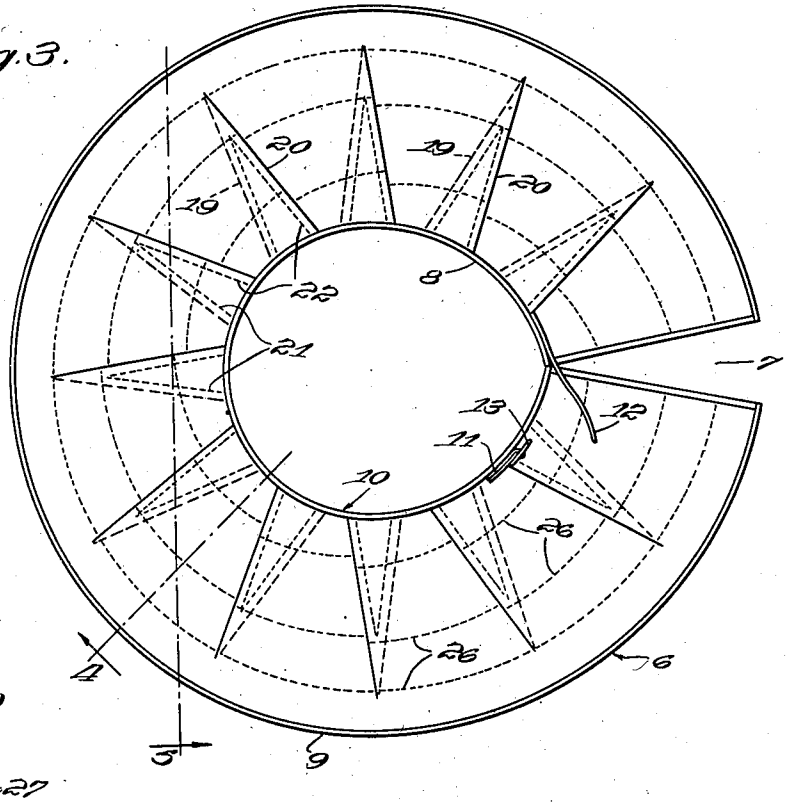
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SHIELD

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Fig. 3.



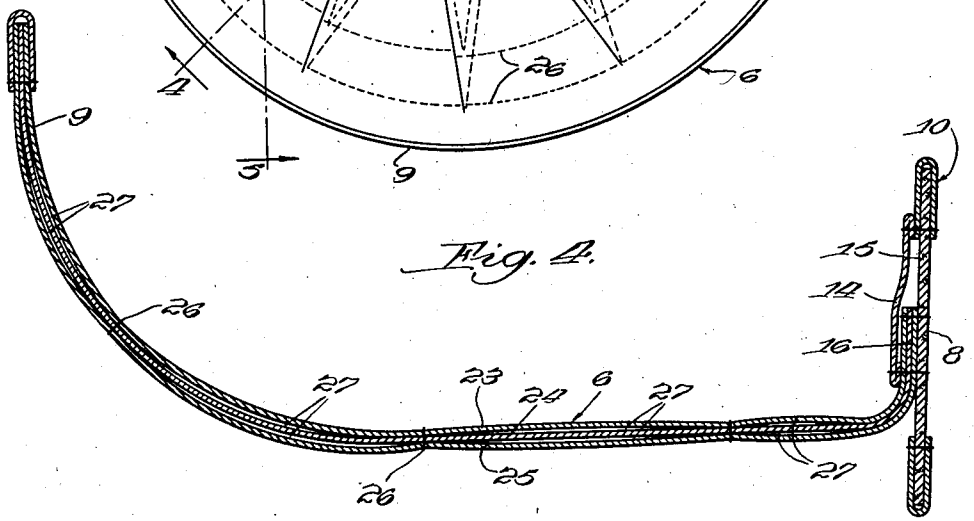
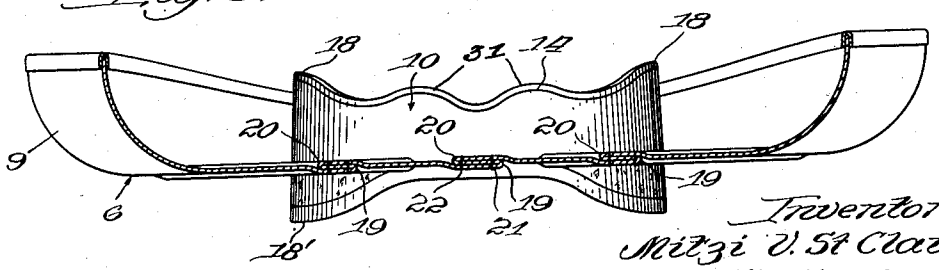


Fig. 4.

Fig. 5.



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Patented Nov. 30, 1943 2,335,706

UNITED STATES PATENT OFFICE

2,335,706

SHIELD

Mitzi V. St. Clair, Chicago, Ill.

Application August 9, 1940, Serial No. 352,021

6 Claims. (Cl. 2—174)

My invention relates to shields to be used on women's heads during the drying of their hair after washing.

In accordance with the usual practice in so-called beauty parlors, air, heated to relatively high temperature, is blown, from driers, through the hair, to dry it as quickly as possible, and without proper protection of the patron against discomfort, if not injury, because of the subjection to the heat of those portions of the patron's head which are below the hair-line.

It is therefore one of my objects to provide a shield which shall serve to protect such portions of the patron's head from the heat of the drier, avoiding discomfort and injury to the patron.

Another object is to provide a shield by which the hair may be much more quickly dried than has hitherto been possible, and preferably without discomfort or injury to the patron.

Still another object is to provide a simple and economical construction of shield for the purpose stated; and other objects as will be manifest from the following description.

Referring to the accompanying drawings:

Figure 1 is a view in side elevation of a shield constructed in accordance with my invention showing it applied to use on the head of a person, with a hair-drying device, shown in part only, applied to the head.

Figure 2 is a view like Fig. 1 showing a portion of the shield broken away to disclose interior details.

Figure 3 is a plan view of the shield.

Figure 4 is a fragmentary sectional view of the shield, the section being taken at the line 4 on Fig. 3 and viewed in the direction of the arrow; and

Figure 5, an enlarged sectional view of the shield, the section being taken at the line 5 on Fig. 3 and viewed in the direction of the arrow.

According to the illustrated embodiment of my invention, the shield is formed of a body portion 6 of general non-continuous circular form, the gap in the body portion, and shown as located at the back portion of the shield and rendering it of non-continuous generally circular form and extending continuously through the inner and outer margins of the body portion, being shown at 7, the body portion thus presenting an opening 8 therethrough shown substantially at its center at which the shield is to be applied to the head of the person whose hair is to be dried.

The body portion 6 is provided along its entire outer marginal edge with an upturned brim 9 and about its inner marginal edge with an upwardly extending band 10, the structure thus provided and which surrounds the head when applied to use thus being of general dished form, the upper surface thereof being of general concave form in cross section as shown more particularly in Fig. 3.

The ends of the body portion 6 at the gap 7 are provided with means for connecting them together when the shield is applied to use as shown in Figs. 1 and 2. These means may be of any suitable construction those shown comprising strips 11 and 12 secured to the ends of the band 10 adjacent the gap 7, with a buckle 13 on the outer end of the strip 11 to receive the outer end of the strip 12 and securely hold the shield in adjusted position on the head of the person to which it is to be applied.

The band 10 which may be made of any suitable material, as for example a strip 14 of cloth at its outer side and preferably a stiffer, yet flexible, strip 15 at its inner side, sewed or otherwise secured to the cloth strip 14.

The band 10 preferably comprises material which will serve to cause the portion of the head surrounded by the band to be insulated from such of the hot air applied to the hair in the drying operation, as tends to heat the band and it is therefore preferred that the inner strip 15 be formed of heat insulating material, as for example cork, which also serves as a noise insulator.

The band 10 is shown as secured to the inner margin of the body portion 6 which is upturned throughout its length as shown at 16, the upper and lower edges of the band 10, which preferably extend above and below, respectively, the body portion, being preferably of convoluted or sinuous form as shown, presenting at its upper edge a contour which corresponds and registers with the hair line at the front of the forehead when the shield is applied to use, parts of the convolutions at its upper edge forming lobes 31 to contact the forehead and lobes 18 at opposite sides of the band, in position to lie over the upper portions of the ears of the person to whom the shield is applied, to protect the ears against the heat and also deaden the noise from the hair drying apparatus.

The upper edge of the band 10 is provided of the contour as stated to cause it to engage the head throughout the length of the band, substantially along the hair line to prevent slippage and to expose all of the hair to the drying action of the blower and still protect, to as great a degree as possible, the flesh below the hair line,

including the ears, from the heat of the hair-drying air.

The lower convoluted edge of the band presents lobes 18' at opposite sides thereof which extend downward over the lower portions of the ears as shown.

Because of the forming of the band of convoluted or sinuous form, as shown, the band, when the shield is applied to the head, engages the head substantially along the upper edge only of the band, and the lower portion of the band flares away from the head and thus extends in spaced relation to the head to permit of the circulation of the surrounding unheated air in the space thus provided, to avoid undue heating of the portion of the head surrounded by the band.

The body portion 6 may be of any suitable construction. Preferably it is formed as shown, namely, from rectangular shet material folded upon itself along one lengthwise edge thereof at equal intervals, along inwardly converging lines 19 and 20 reaching close to the opposite lengthwise edge and stitched along the converging lines 21 and 22. Thus the rectangular sheet material is caused to assume substantially a circular shape in plan to form the body portion as described and curl upwardly along the outer margin of the body portion to form the upstanding brim 9.

Preferably the body portion 6 is made at least in part of heat insulating material to minimize the transmission, through the body portion and against the wearer, of heat from the hot air directed downwardly against it.

Preferably the body portion 6 is formed of three layers 23, 24 and 25 of sheet material, the central layer 24 of a material, as for example, Cellophane, which, while flexible, holds its shape even when subjected to moisture, and the outer layers 23 and 25 of fireproof heat insulating material, as for example fireproofed crepe paper. By reason of its flexibility, the body portion may be turned down to a curve reversed from its position of use and the whole may be rolled into a compact bundle to be carried.

In forming the body portion as shown and above described, namely, from rectangular sheet material folded as stated, the three sheets forming the layers 23, 24 and 25 may be provided of similar rectangular shape and size and flatwise assembled together and the stack of sheets thus provided stitched along spaced lines 26 paralleling the long edges of the stack of sheets, and then folded, as a unit, along the converging lines 19 and 20 and stitched along the converging stitching lines 21 and 22.

The portions of the body portion 6 between the lines of stitching are thus cellular, as exemplified at 27 of the part of the body portion 6 shown along the line of the section in Fig. 4, thereby affording air spaces between the layers 23, 24 and 25 which enhance the heat insulating effect.

The stitching 26 also serves to hold the sheet layers together, and may, if desired, be used whether the body portion 6 is formed of more or less of the sheet layers and regardless of any of the sheet layers being of insulating material.

In use the shield is applied to the head of the person whose hair is to be dried, to the position shown in Figs. 1 and 2 and the ends of the shield drawn together to taut the shield about the head and secured together at the strap and buckle device above described, the upper portion of the band 10 closely fitting the head of the person substantially along the hair line and covering the ears. The hair is then covered with a net shown at 28 and preferably provided as a part of the shield, as for example by stitching it at its forward portion to the forward portion of the band 10, as indicated at 29.

The heated air as it discharges from the hot air blower apparatus, the discharge bowl or helmet portion of which represented at 30 is positioned over the hair to be dried as shown in Figs. 1 and 2, passes through the hair and against the upper surface of the body portion 6 which because of its general dished or cupped shape shown and above referred to, serves to cause the heated air as it flows toward the outer margin of the body portion to be deflected upwardly by the brim 9 instead of freely discharging radially from the body portion as it would if no brim were provided. The heated air thus restrained by the body portion rises to exert a continuing drying effect on the hair, this being an important feature of my invention as the hair drying operation thereby may be effected in much shorter time than hitherto possible. At the same time the body and neck of the person and the portion of the head below the hair line is protected against any possibility of injury or uncomfortable heat, by the insulating features and the features of spacing the band 10 at its lower edge from the head, as above described, which features while preferably employed are not essential to my invention as to certain phases thereof.

While I have illustrated and described a particular embodiment of my invention I do not wish to be understood as intending to limit it thereto as the construction shown may be variously modified and altered and the invention embodied in other forms of structure without departing from the spirit of my invention.

What I claim as new and desire to secure by Letters Patent is:

1. A shield for the purpose set forth, comprising a body portion having an opening at which the shield is applied to the head, said opening provided with a marginal band, the upper edge of said band being of convoluted form presenting forehead engaging lobes laterally of the front mid-section thereof to generally conform to the hair-line of the person to whom the shield is applied and to prevent slippage.

2. A shield for the purpose set forth, comprising a body portion adapted to be applied about the head below the hair to be dried, said body portion comprising a sheet of foldable material gathered along the head engaging edge to cause the sheet to assume a curved form in a crosswise direction with its outer edge upwardly turned to form an upwardly extending brim, a band including heat insulating cork composition material to which said gathered edge is secured formed with ear covering portions, and means to fasten the ends of the band together to hold the shield on the head.

3. A shield for the purpose set forth comprising: a band to encircle the head formed at its upper edge with forehead contacting lobes laterally of its median frontal portion to contact the head; a body secured at its inner portion to and entirely supported by said band, said body sloping downwardly from the point of attachment, then generally horizontally, then curving upwardly; whereby to deflect air away from the head below the hair then in an upward eddy; said band flaring from top to bottom providing access of cool air from below to the head sub-

stantially to the line of contact of the upper edge of the band with the head.

4. A shield for the purpose set forth comprising: a head engaging band; a body of generally annular formation secured at its inner edge to said band and curving outwardly and upwardly therefrom; said body comprising a middle layer of flexible, moisture resistant material as Cellophane, and an outer layer of fireproof paper at each surface of the first named layer.

5. A shield for the purpose set forth comprising: a head engaging band including a layer of head and sound insulating cork composition formed with ear covering portions; a shield body attached to said band, curving outwardly and upwardly therefrom and comprising a layer of moisture resistant, flexible material as Cellophane, faced on at least one side with fireproof paper.

6. A shield for the purpose set forth comprising: a flexible head engaging band formed with a sinuous upper edge including forehead engaging lobes laterally of the median frontal portion, and with ear covering lobes; said band including a layer of cork composition; a shield body comprising a layer of flexible Cellophane between face layers of fireproof crepe paper; said body of generally annular form attached to said band at its inner edge and sloping downwardly, then curving outwardly and upwardly therefrom for control of air currents directed upon the head of the wearer; the structure by its flexibility rollable into a compact bundle.

MITZI V. ST. CLAIR.

CERTIFICATE OF CORRECTION.

Patent No. 2,335,706. November 30, 1943.

MITZI V. ST. CLAIR.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction as follows: Page 3, first column, line 13, claim 5, for "head" read --heat--; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 25th day of January, A. D. 1944.

Henry Van Arsdale,
Acting Commissioner of Patents.

(Seal)