

March 26, 1963

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3,082,429

DISPOSABLE-TYPE PAPER HEADRESS

Filed April 24, 1961

2 Sheets-Sheet 1

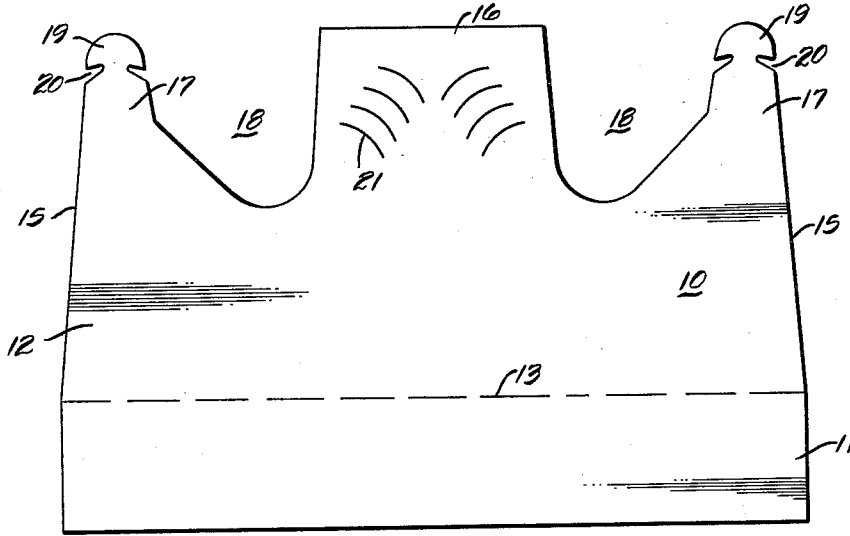


Fig. 1

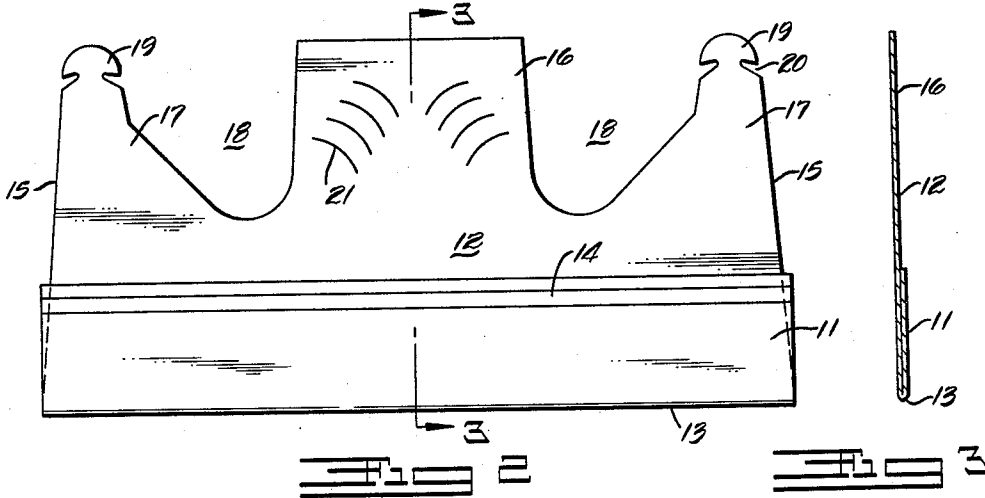


Fig. 2

Fig. 3

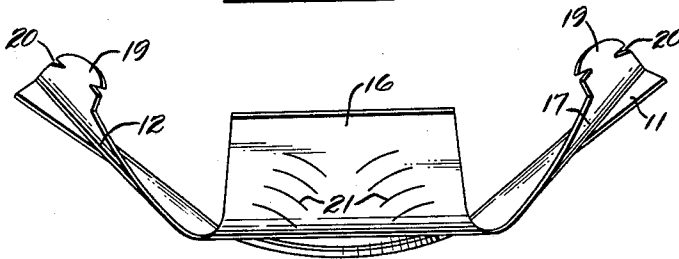


Fig. 4

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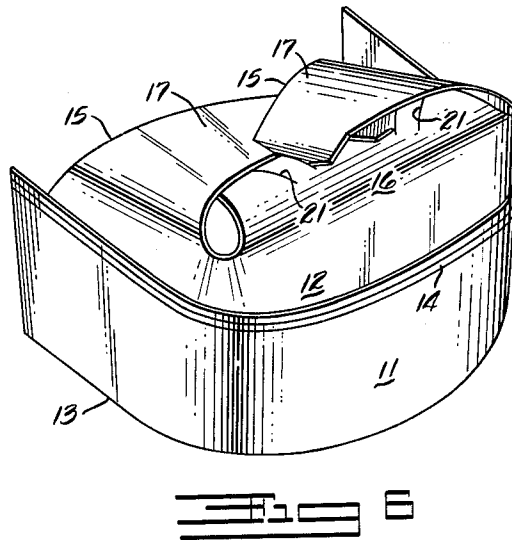
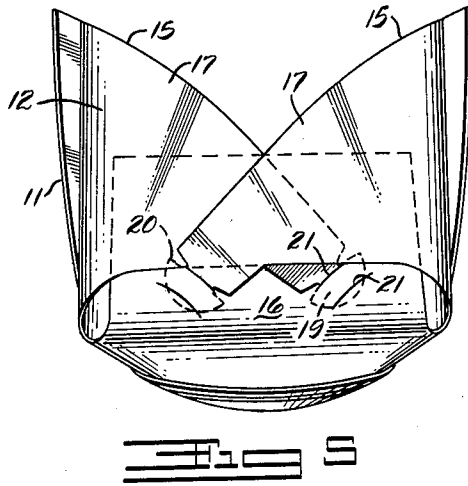
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3,082,429

DISPOSABLE-TYPE PAPER HEADRESS

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1 Claim. (Cl. 2—195)

This invention relates to a disposable-type paper headress. It has to do, more particularly, with an article of head wear especially adapted for feminine use by those engaged in certain occupations, such as nurses, waitresses, housemaids and others, for sanitary and esthetic reasons.

It is an object of this invention to provide an article of head wear for the general purposes stated, in which the article is formed entirely from paper or other similar relatively inexpensive flexible material, whereby following certain periods of use of the article, it may be economically discarded and a new article substituted therefor, thus avoiding laundering or other relatively expensive renovation of the article.

In its specific form, this invention contemplates the provision of a nurse's cap which simulates the caps now commonly in use and made of starched cloth or similar material. The cap will have a U-shaped head-engaging band portion together with an upstanding crown portion and is so designed that it will be relatively stiff and will not sag and will, therefore, have a pleasing crisp appearance.

The cap is of such a nature that even though it does have practical and esthetic characteristics as indicated above, it can be made easily and cheaply. It can be made from a single flat blank of material with little or no waste of material. The cap blank can be shipped and stored in flat condition and will occupy a minimum of space. When it is to be set up for use, the blank can be folded easily into the proper shape and can be secured in such shape by simple self-contained fastening means. Furthermore, the fastening means is such that adjustments can be made easily for various head sizes.

The accompanying drawings illustrate the present invention and in these drawings:

FIGURE 1 is a plan view of the blank from which the article of head wear or cap comprising the present invention is formed.

FIGURE 2 is a similar view but showing the flange of the headband portion folded upwardly.

FIGURE 3 is a vertical sectional view taken along line 3—3 of FIGURE 2.

FIGURE 4 is a top perspective view showing an initial step in the folding of the blank of FIGURE 2.

FIGURE 5 is a plan view of the headress or cap after it is formed by the complete folding and assembling of the blank.

FIGURE 6 is a perspective view of the cap and illustrating an adjustment for head size.

With reference to the drawings, and particularly to FIGURE 1, the improved article of head wear, according to this invention, is die cut or otherwise formed from a single piece blank 10 of flexible sheet material, such as paper, paperboard, synthetic resins or the like. However, paper is preferred as the material since it provides a suitable inexpensive material to make economically feasible the discarding of the article after use. The article of head wear will be referred to specifically hereinafter as a cap.

The blank 10 is so formed that it is overall of substantially rectangular outline and is cut and scored as indicated in FIGURE 1 so that only a small amount of material is waste. The blank includes a lower band flange portion 11 which is joined to a body or crown-

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forming portion 12 along a horizontal fold line 13 which may be scored or otherwise weakened to facilitate folding. The flange portion 11 may have on the underneath surface thereof a printed stripe 14, preferably of a different color than the remainder of the blank, or that surface of the flange may be provided with other ornamentation. Above the fold line 13, the side edges 15 of the blank preferably taper slightly inwardly. The upper edge of the blank is cut to provide a central crown flap 16 and the locking tab portions 17 at each side thereof. Each tab portion 17 is separated from the adjacent edge of the flap 16 by a relatively wide space 18. Each tab portion 17 includes an attaching or locking tang 19 having an outwardly curved end which is partially separated from the main tab portion 17 by the opposed locking notches 20 formed at the side edges of the tab portion. The crown flap 16 is provided with two sets of curved locking slits 21, each set being designed to cooperate with one of the locking tangs 19.

The caps of this invention are preferably supplied in blank form in the flat condition illustrated in FIGURE 1. To set up the blank in cap form, the flange 11 is first folded outwardly and upwardly along the fold line 13, as indicated in FIGURES 2 and 3. Then the band portion formed by the flange 11 and the underlying part of the blank is bent rearwardly at each side of the crown flap portion 16 to form a substantially U-structure, the start of which is indicated in FIGURE 4. The centrally disposed crown flap portion 16 is also bent rearwardly into horizontal position and the tab portions 17 are also bent into horizontal position. The tab portions 17 are crossed over each other, as indicated in FIGURE 5, and the tang 19 of each is inserted into one of the slits 21 of the cooperating set. It will be noted in FIGURE 5 that each tang 19 is positioned in one of the slits 21 of the set on the opposed side of the crown flap 16. It will also be noted that each row of slits 21 are disposed along a center line or axis which is at an angle to the center line of the flap 16 or blank so that the slits will be in proper position to receive the tang 19, the center line of which will be along a similar angular position when the flap portions are in criss-cross relationship, as shown in FIGURE 5. Thus, each row of the slits 21 are along axes which converge toward the outer edge of the flap 16. When the tangs 19 are inserted in their cooperating slits 21, the cap will be maintained in the condition illustrated in FIGURES 5 and 6. Proper locking slits 21 may be selected for the tangs 19 in accordance with head size.

Thus, the cap resulting from folding and locking of the blank 10 in the manner indicated above will appear as in FIGURES 5 and 6 and will have a generally U-shaped configuration with a crown portion open at the rear of the cap. It will have an upright head-engaging band portion and a crown portion 16 extending upwardly and rearwardly therefrom. It will be noted that the angularly criss-crossed flap portions 17 from a rearward and downward continuation of the crown portion 16 when the cap is set up and is locked in that condition. The criss-crossed flap portions 17 serve to hold the rearwardly bent crown portion in a generally horizontal position and to draw the sides of the headband portion of the cap into the desired U-shaped configuration.

According to the provisions of the patent statutes, the principles of this invention have been explained and have been illustrated and described in what is now considered to represent the best embodiment. However, it is to be understood that, within the scope of the appended claim, the invention may be practiced otherwise than as specifically illustrated and described.

Having thus described this invention, what is claimed is:

A cap-forming blank consisting of an integral, one-

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piece body of economically disposable, flexible sheet material having a generally rectangular body portion formed along one of its longitudinal edges with an upwardly foldable headband-forming flange and formed at the opposite longitudinal edge thereof with a pair of longitudinally spaced, transversely extending, outwardly tapering locking tabs and a generally rectangular, crown-forming flap extending transversely outwardly from said opposite edge of said body portion intermediate said locking tabs, each of said locking tabs being formed adjacent the outer end thereof with a notched tang portion, and said crown-forming flap being formed with two relatively spaced apart, outwardly convergent rows of tang-receiving slits, said body portion and headband-forming flange being resiliently foldable into generally U-shaped configuration and said crown-forming flap being resiliently downwardly foldable into a plane generally perpendicular

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ular to said body portion, and said locking tabs being resiliently foldable inwardly over one another and over said crown-forming flap to positions at which the tang portions thereof may be interlocked with selected slits of said rows of slits, whereby to retain said body portion and said headband-forming flange in said U-shaped configuration and said crown-forming flap in a plane generally perpendicular to said body portion.

References Cited in the file of this patent

UNITED STATES PATENTS

766,419	Breck et al. -----	Aug. 2, 1904
1,516,284	Schneider et al. -----	Nov. 18, 1924
1,985,111	Shofer et al. -----	Dec. 18, 1934
2,415,250	LaBelle -----	Feb. 4, 1947
2,740,567	Kaufman -----	Apr. 3, 1956