Nov. 24, 1942. L. J. F. MORINS 2,303,220

HAIR NET

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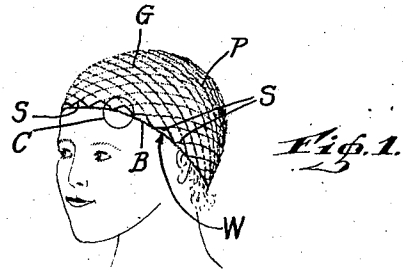


Fig. 1.

Fig. 2.

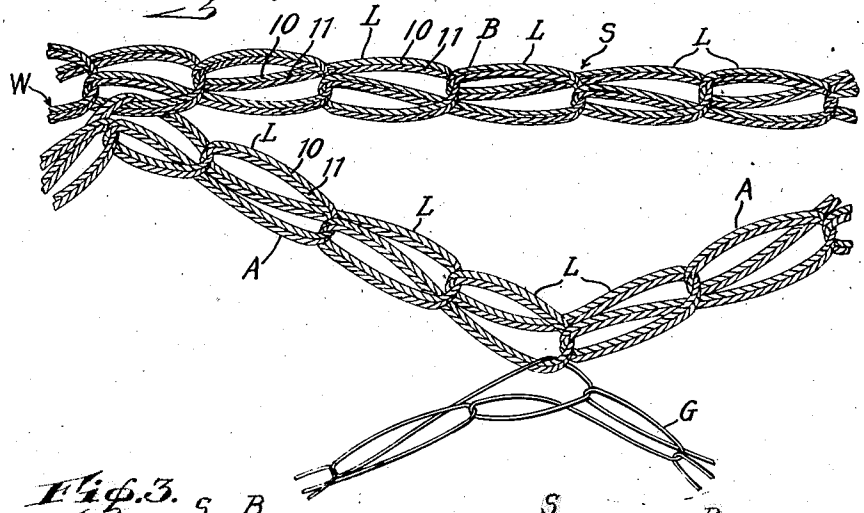
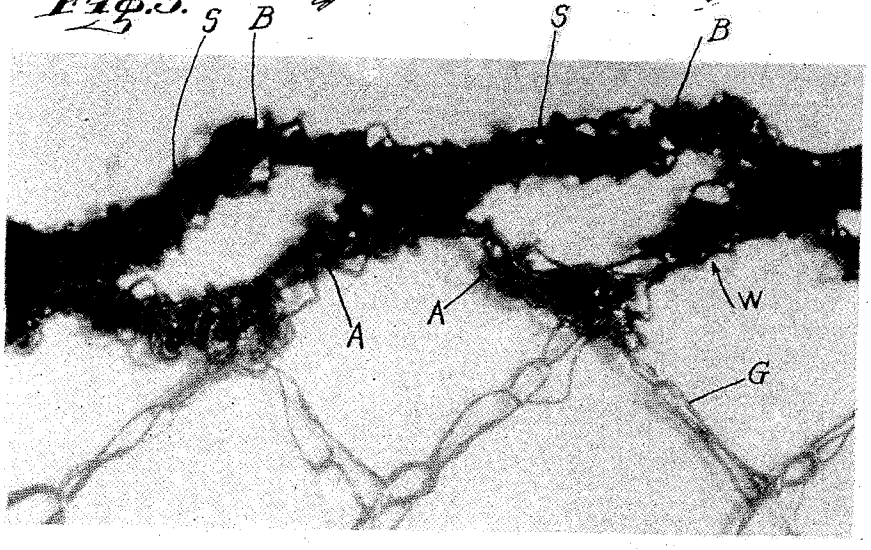


Fig. 3.



INVENTOR.
LEON J. F. MORINS

BY

ATTORNEY.

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HAIR NET

Leon J. F. Morins, New York, N. Y.

Application September 24, 1942, Serial No. 459,594

9 Claims. (Cl. 132—49)

The present invention is a hair net for desirably retaining the dress of hair and an object thereof is to provide a hair net having a ground mesh including a normally contracted resilient border formed of links of oppositely biased or highly twisted yarn to provide a myriad of normally condensed irregular and closely disposed loops adapted to be appropriately stretched to elongate the resilient border. Other important functional and structural features of the invention will appear from the following detailed disclosure considered in connection with the accompanying drawing wherein:

Fig. 1 is a perspective view of the hair net according to my invention.

Fig. 2 is an enlarged schematic showing of a portion of the hair net to illustrate the biased or oppositely twisted relation of the juxtapositioned strands of the border net system prior to processing for shrinking and drying, and

Fig. 3 is a very much enlarged photograph of a portion of the elastic border netting confined within the circle C shown in Fig. 1, the photograph showing the border inverted, that is, upside down.

The hair net according to the invention embodies the pouch P which consists of a so-called ground mesh or netting G to define the pocket or pouch to appropriately and removably encompass the head of hair.

Attached or interlocked with the ground mesh G is the normally contracted endless border net work generally denoted W which comprises a plurality of interlocked sections S each having diverged arms A carried by and interlocked to the ground mesh G as shown. The sections S also include bridge portions B interwoven or interlocked with their respective arms A and to contiguous section S. In other words, the border net work W may be said to be suspended from the ground mesh and in fact constitutes a peripherally closed margin of the hair net characterizing an endless but elastic band for desirably and disengageably gripping the head of hair and the forehead of the latter to prevent accidental dislodgement of the hair net pursuant to positioning thereof.

According to the invention the marginal band or border net work W has its strands 10 and 11 of the several links L of the bridge B and the arms A of the sections S of a highly twisted yarn several times the diameter of the yarn or thread of the ground mesh G. For example as shown in Fig. 2 the bias or high twist of the threaded or yarn 10 of the links is illustrated by oblique lines disposed in an opposed or counter direction to the bias or high twist of the yarn 11 likewise shown by oblique lines. In Fig. 2, the companion strands 10 and 11 of the links L are disposed in juxtaposition, that is, before the shrinking and dyeing operations. The purpose of the twist for the companion strands of the links is to set up inherent counter balancing action in the border net work when processed in shrinking and dyeing, that is, before the process of shrinking the border mesh work retains the juxtapositioning of the companion strands of the several links as illustrated in Fig. 2. However pursuant to boiling in a suitable heated liquid which may be water, the juxtapositioning of the strands although retaining their opposite biased relation, in part lose such juxtapositioning, concomitantly disposing the shrunken strands in a fairly accentuated and crinkled relation illustrated in Fig. 3, after drying. However, pursuant to processing, the links have materially shrunk, approximately to forty percent of their initial length.

Thus after processing of the hair net, the border net work becomes a myriad of appreciably and closedly contracted or compressed links in each and every section S thereof with their strands oppositely crinkled or twisted and readily expandible when applying the hair net to the head of hair to desirably encompass the latter.

By the present arrangement even though no rubber is utilized in the matter of forming the border net work, the inherent characteristic thereof after processing as described resides in its elasticity, that is, it may be stretched to meet the requirements of the head of the user and is automatically adjustable to such head upon release of finger pressure due to the inherent retraction or recoil of the oppositely twisted strands or threads of the normally contracted loops and the counter twist of the strands facilitates such automatic retraction. Normally the border net work when the hair net is off the head of hair, is of a peripherally smaller size than the periphery of the head of the user but is conveniently susceptible to be stretched and fitted thereover as described.

As a commentary in respect to the showing of Fig. 3, this showing while truly exhibiting a portion of the border net work, nevertheless has been obtained not without difficulty in that in actual practice such net work follows the form of a closely crinkled and endless line and without appreciable amplification thereof it is difficult to determine the precise structure of this

elastic band, hence the schematic or exaggerated showing disclosed in Fig. 2 and the amplified exhibit of Fig. 3 for purposes of clarification, although the ground net work G is of an untwisted or relatively inelastic yarn or thread.

After appreciable use, the elasticity of the border net work G may in part be decreased. If such be the case, the original resiliency again may be restored by dipping the hair net in toto in cold water for a moment or two for preshrinking the strands as aforesaid and drying in any conventional manner.

Various changes may be made in the details of construction and arrangement of parts without departing from the spirit of the invention nor sacrificing any of the advantages thereof inherent therein.

I claim:

1. In a hair net, a ground mesh defining a pouch having a peripherally closed band comprising a plurality of sections each having a bridge portion and diverged arms, said ground mesh carrying said arms, and said bridge portion and arms of each of said sections comprising strands of relatively twisted yarn disposed in an opposite biased relation.

2. In a hair net, a ground mesh defining a pouch having a peripherally closed band comprising a plurality of sections each having a bridge portion and diverged arms, said ground mesh carrying said arms, and said bridge portion and arms of each of said sections comprising shrunken strands of relatively highly twisted yarn disposed in an opposite biased relation.

3. In a hair net, a ground mesh defining a pouch having a peripherally closed band comprising a plurality of sections each having a bridge portion and diverged arms, said ground mesh carrying said arms, and said bridge portion and arms of each of said sections comprising shrunken strands of relatively highly twisted yarn disposed in an opposite biased relation, and defining appreciably crinkled and irregularly shaped loops.

4. In a hair net, a ground mesh defining a pouch having a peripherally closed band comprising a plurality of sections each having a bridge portion and diverged arms, said ground mesh carrying said arms, and said bridge portion and arms of each of said sections comprising shrunken strands of highly twisted yarn disposed in an opposite biased relation and comprising normally contracted and crinkled loops.

5. In a hair net, a ground mesh defining a pouch having a peripherally closed and contracted band comprising a plurality of sections each having a bridge portion and diverged arms, said ground mesh carrying said arms, and said bridge portion and arms of each of said sections comprising shrunken strands of twisted yarn disposed in an opposite biased relation and defining interconnected and resilient and normally contracted loops adapted to be stretched over a head of hair and automatically retained in position against the latter.

6. In a hair net, a ground mesh defining a netted pouch of relatively untwisted yarn, a peripherally closed relatively elastic band comprising shrunken yarn of oppositely twisted strands and defining relatively interconnected and elastic loops normally disposed in an appreciable contracted relation and adapted to be elongated for enlarging the perimeter of said band, said mesh sustaining said band at the lower margin thereof.

7. In a hair net, a ground mesh defining a netted pouch of relatively untwisted yarn, a peripherally closed relatively elastic closed band comprising appreciable shrunken yarn of oppositely twisted strands and defining relatively interconnected and relatively elastic loops normally disposed in an appreciable contracted relation and adapted to be elongated for enlarging the perimeter of said band, said mesh sustaining said band at the lower margin thereof.

8. In a hair net, a ground mesh defining a netted pouch of relatively inelastic yarn, and a normally contracted relatively elastic band of yarn sustained by said pouch and disposed in interconnected loops subjected to moisture and drying for shrinking said band and arranging said loops in a normally contracted closely crinkled relation along the perimeter of said band to render the latter stretchable over a head of hair and automatically retractable pursuant to release of finger pressure from localized portions of said band.

9. In a hair net, a ground mesh defining a netted pouch of relatively inelastic yarn, and a normally contracted relatively elastic closed marginal band of oppositely biased yarn strands sustained by said pouch and disposed in interconnected loops subjected to moisture and drying for shrinking said band and arranging said loops in a normally contracted closely crinkled relation along the perimeter of said band to render the latter stretchable over a head of hair and automatically retractable pursuant to release of finger pressure from localized portions of said band.

LEON J. F. MORINS.