

SAFETY HELMET LINER

BACKGROUND OF THE UTILITY MODEL

(a) Field of the Utility Model

5 The present utility model relates to a safety helmet liner, and more particularly to a liner structure that can be worn on a user's head to achieve hygiene.

(b) Description of the Prior Art

10 When wearing a safety helmet or performing cooking, cleaning, or working, most people will wear a different type of hat or liner to prevent external dust or foreign matters from contaminating the head or avoid hair falling to cause a hygienic problem. In terms of wearing the safety helmet, currently most people will put a liner in the safety helmet in advance to isolate the interior part of the safety helmet from the head.

15 However, this kind of liner may shift or fall out in moving, and the effect of hygiene is limited as the liner cannot cover the head. On the other hand, most people will wear a hat in cooking, cleaning, or working. As most hats are fixed in shape, the hats cannot fit everyone's head shape, and cannot be folded in carrying or storage, which is very inconvenient.

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SUMMARY OF THE UTILITY MODEL

Accordingly, the primary object of the present utility model is to provide a safety helmet liner which is constituted by a base fabric, two hot melt yarns and two flexible pressing strips. Two outer folded sections corresponding to edges of the base fabric are expanded outward, and an inner folded section of the base fabric is expanded simultaneously. After the outer folded sections are expanded outward, the expanded shape of the outer folded sections can be maintained by the provided flexible pressing strips, so that the liner can be worn on the user's head stably, thereby achieving hygiene to the user's head.

To enable a further understanding of the said objectives and the technological methods of the utility model herein, the brief description of the drawings below is followed by the detailed description of the preferred embodiments.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows a three-dimensional view of the present utility model.

FIG. 2 shows a three-dimensional exploded view of the present utility model.

FIG. 3 shows a side view of the present utility model.

FIG. 4 shows a first schematic view of a preferred embodiment of the

present utility model.

FIG. 5 shows a second schematic view of the preferred embodiment of the present utility model.

FIG. 6 shows a third schematic view of the preferred embodiment of the present utility model.

FIG. 7 shows a fourth schematic view of the preferred embodiment of the present utility model.

FIG. 8 shows a fifth schematic view of the preferred embodiment of the present utility model.

FIG. 9 shows a sixth schematic view of the preferred embodiment of the present utility model.

FIG. 10 shows a seventh schematic view of the preferred embodiment of the present utility model.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to FIGS. 1 to 10, it shows a three-dimensional view, a three-dimensional exploded view, and a side view of the present utility model, as well as schematic views of a preferred embodiment of the present utility model. As shown in the drawings, a safety helmet liner 1 of the present utility model comprises primarily:

a base fabric 2, a center of which is folded inward with an inner

folded section 21, with that each of two edges of the base fabric 2 is folded outward correspondingly with an outer folded section 22, a front end of the base fabric 2 is formed with a front end portion 23, and a rear end of the base fabric 2 is formed with a rear end portion 24;

5 two hot melt yarns 3, with that one hot melt yarn 3 is disposed on the front end portion 23 of the base fabric 2, and the other hot melt yarn 3 is disposed on the rear end portion 24 of the base fabric 2, to fix the edges of inner folded section 21 and the edges of outer folded sections 22; and

 two flexible pressing strips 4, which are disposed between the base
10 fabric 2 and the outer folded sections 22.

The outer folded sections 22 of the base fabric 2 are provided with plural hot melt yarns 221. The plural hot melt yarns 221 are used to fix the flexible pressing strips 4 and also fix the outer folded sections 22 on the base fabric 2.

15 The length of outer folded sections 22 of the base fabric 2 is larger than the length of inner folded section 21.

The outer folded sections 22 of the base fabric 2 can be expanded outward, and the inner folded section 21 will be expanded simultaneously, forming a folded portion 211 on the front end portion 23
20 and rear end portion 24 of the base fabric 2.

The front end portion 23 of the base fabric 2 can be a curved edge or an oblique edge.

The rear end portion 24 of the base fabric 2 can be a curved edge or an oblique edge.

5 Upon using the safety helmet liner 1 of the present utility model, the outer folded sections 22 on two corresponding edges of the base fabric 2 are expanded outward, resulting in a three-dimensional space. At this time, a user can wear the safety helmet liner 1 on the head, so as to prevent the head from getting in touch with external dust or dirt, thereby
10 achieving the object of hygiene.

Accordingly, at the same time when the outer folded sections 22 are expanded outward, the inner folded section 21 of the base fabric 2 will be expanded too. As the edges of inner folded section 21 are fixed by the hot melt yarns 3, after the inner folded section 21 is expanded, a
15 folded portion 211 will be formed on the front end portion 23 and the rear end portion 24, i.e. on each edge of the inner folded section 21. The folded portion 211 can further maintain the expanded shape of the inner folded section 21, and can even increase the structural strength of the entire structure.

20 On the other hand, after the outer folded sections 22 are expanded

outward, the expanded shape of outer folded sections 22 can be maintained by the provided pressing strips 4. Therefore, if the safety helmet liner 1 is taken off and needs to be used again, the user can wear on again conveniently.

5 Furthermore, upon wearing the safety helmet liner 1, the reasons why the front end portion 23 and the rear end portion 24 of the base fabric 2 can be the curved edges or the oblique edges, and the length of outer folded sections 22 is larger than the length of inner folded section 21, are primarily to keep the entire safety helmet liner 1 at a structure in
10 a shape of wide bottom and narrow top, and result in a three-dimensional space of different depth after expansion, so that users in various head sizes can all wear on.

Moreover, as shown in FIG. 10, after taking off the safety helmet liner 1, the user only needs to push the outer folded sections 22 of the
15 base fabric 2 inward, and push the inner folded section 21 downward, that the entire safety helmet liner 1 can restore to a folded and flat state, thereby facilitating carrying or storage.

Before wearing a safety helmet, the user first puts the safety helmet liner 1 on the head, so as to prevent the head from getting in touch the
20 interior part of safety helmet directly when wearing the safety helmet. In

addition, the hair of user can be prevented from being contaminated by the interior part of safety helmet, thereby achieving the object of hygiene.

Whereas after the outer folded sections 22 of the safety helmet liner 1 are expanded outward, as the expanded shape of the outer folded

5 sections 22 can be maintained by the provided pressing strips 4, the outer folded sections 22 can abut at the interior part of safety helmet.

Naturally, the user can also wear the safety helmet liner 1 in cooking, cleaning, or working, so as to avoid the hair from falling and even prevent the hair from being contaminated by external dust or foreign

10 matters.

Accordingly, in comparison with the conventional hat or liner that exists in all kinds of shortcomings and inconvenience, through the special design of one base fabric 2, two hot melt yarns 3, and two flexible pressing strips 4, the safety helmet liner 1 of the present utility model can

15 maintain the shape stably while using the safety helmet liner 1, and can even restore to the flat state when the safety helmet liner 1 is not used, so as to facilitate carrying or storage. Moreover, through the design of front end portion 23 and rear end portion 24, the present utility model can be even fitted to users in various head sizes.

20 It is of course to be understood that the embodiments described

herein is merely illustrative of the principles of the utility model and that a wide variety of modifications thereto may be effected by persons skilled in the art without departing from the spirit and scope of the utility model as set forth in the following claims.