

HELMET**BACKGROUND OF THE INVENTION****1. Field of the Invention**

The present invention relates to a helmet, and in particular, to an improved helmet which makes it possible to enable a wide field-of-view angle by improving a front portion protection member of a helmet which is designed to protect the face of a user.

2. Description of the Conventional Art

Generally, a helmet (a so-called police helmet) is used in order to effectively protect the head or the face of a user during a protest, a demonstration, or the like. Namely, the helmet is designed to effectively protect the head or the face of a user from stones thrown by demonstrators, or steel pipes, wood bar or the like used by the same. However, the conventional helmet has only a rear side protection member in order to protect the rear portion of the head of a user and has a net portion disposed in the front portion of the helmet.

In the conventional helmet, the meshes of the net portion are designed such that stones or the like can not pass through the same for thus protecting the head or the face of a user. However, the net portion of the helmet has a small mesh size so

that the fingers of demonstrator can be easily inserted into meshes of the net portion. Therefore, the helmet may be easily took off by a demonstrator during the demonstration, so that the head of a user may be damaged by stones or the like. In addition, when demonstrators catch the front net portion of the same by inserting the fingers of the demonstrator into the meshes of the net portion of the helmet, it is impossible to secure a desired wide field-of-view angle in order to more effectively check the movements of demonstrations. In addition, since the front portion protection member is fixed to the helmet, it is impossible to adjust the shape of the helmet based on the shape of the head of a user, causing inconvenience when taking on/off the helmet. If the size of the head of a user is big, since the size of the helmet can not be adjusted, the helmet should be exclusively fabricated for a user having a big size head.

SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide a helmet which overcomes the aforementioned problems encountered in the conventional art.

It is another object of the present invention to provide an improved helmet which is capable of enabling a wide field-of-view angle by improving a front portion protection member of a helmet which is designed to protect the face of a user.

It is another object of the present invention to provide an improved helmet which is capable of easily adjusting a field-of-view angle of a front portion protection member of a helmet.

It is another object of the present invention to provide an improved helmet by which a helmet is more stable used.

It is another object of the present invention to provide an improved helmet which is capable of preventing water from flowing into a face portion of the helmet.

It is another object of the present invention to provide an improved helmet by which it is possible to more easily take on/off the helmet.

To achieve the above objects, there is provided a helmet which includes side portion protection members having a plurality of openings and disposed at both sides of a helmet main body, cushion members attached to the inner surfaces of the side portion protection members, a front portion protection member disposed in a front portion of the helmet main body for protecting the face of a user, a rear portion protection member disposed in a rear portion of the helmet main body for protecting the rear portion of the head of the user, a fixing member disposed at both sides of the helmet main body, respectively, and having a latching function for adjusting an angle of the front portion protection member of the helmet main body, and a stopper disposed behind the fixing member for limiting a movement of the front portion protection member.

Additional advantages, objects and other features of the invention will be set forth in part in the description which follows and in part will become apparent to those having ordinary skill in the art upon examination of the following or may be learned from practice of the invention. The objects and advantages of the invention may be realized and attained as particularly pointed out in the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will become more fully understood from the detailed description given hereinbelow and the accompanying drawings which are given by way of illustration only, and thus are not limitative of the present invention, and wherein:

Figure 1 is a side view illustrating a helmet according to the present invention;

Figure 2 is a side view illustrating an operational state of a helmet according to the present invention;

Figure 3 is a cross-sectional view illustrating a helmet according to the present invention; and

Figure 4 is a perspective view illustrating a rear side protection member of a helmet according to the present invention.

DETAILED DESCRIPTION OF THE INVENTION

Referring to Figures 1 through 4, the helmet according to the present invention will now be explained.

As shown therein, the helmet according to the present invention includes side portion protection members 4 having a plurality of openings 5 and disposed at both sides of a helmet main body 1, cushion members 6 attached to the inner surfaces of the side portion protection members 4, a front portion protection member 2 disposed in a front portion of the helmet main body 1 for protecting the face of a user, a rear portion protection member 3 disposed in a rear portion of the helmet main body 1 for protecting a rear portion of the head of the user, a fixing member 7 disposed at both sides of the helmet main body 1 and having a latching function for adjusting the angle of the front portion protection member 2 of the helmet main body 1, and a stopper 8 disposed behind the fixing member 7 for limiting the movement of the front portion protection member 2.

In addition, the helmet according to the present invention further includes a packing portion 9 disposed in an upper portion of the front portion protection member 2 of the helmet main body 1 for covering a predetermined space defined between a front edge portion of the helmet main body 1 and an upper edge portion of the front portion protecting member 2.

In the drawings, reference numeral 11 denotes a strap, and

12 denotes an end portion member.

The operation of the helmet according to the present invention will now be explained with reference to the accompanying drawings.

First, in a state that openings 5 are formed in both sides of the helmet main body 1, the side portion protection members 4 having the cushion members 6 are disposed in the helmet main body 1, and the rear portion protection member 3 and the end portion member 12 are disposed in the rear portion of the helmet main body 1, the front portion protection member 2 is disposed in the fixing member 7 which is capable of adjusting an installation angle of the front portion protection member 2 and which has a latch function. When taking on the helmet, the front portion protection member 2 is lifted up, and the openings 5 and the cushion member 6 of the side portion protection members 4 contact with ears of a user. In this state, the front portion protection member 2 is lifted up, the front portion protection member 2 maintains a lifted-up state by the fixing member 7 having an angle adjusting function and a latch function.

After the helmet is taken on, when the front portion member 2 is moved down, the downward movements of both ends of the front portion protection member 2 are limited by the stopper 8, so that the front portion protection member 2 is fixed at a predetermined angle for thus maintaining a vertical state with respect to the front surface of the front portion protection

member 2. In addition, when a predetermined force is externally applied to the front portion protection member 2 of the helmet, the front portion protection member 2 is not influenced thereby. Namely, the front portion protection member 2 is not backwardly moved by an externally applied force, whereby it is possible to effectively protect the face of the user.

In addition, when the front portion protection member 2 is further moved, since the packing portion 9 contacts with a shield portion 10 of the helmet main body 1, water or the like is prevented from flowing into a portion formed therebetween, whereby it is possible to enable a desired see-through condition of the front portion protection member 2.

Since the rear portion protection member 3 disposed in the rear portion of the helmet main body 1 is detachable, it is possible to detach the rear portion protection member 3 for thus enabling a lighter helmet when the same is not needed. In addition, a laterally applied force is effectively cushioned by the cushion member 6. Furthermore, during the operations, a user can more effectively communicate through the openings 5. In addition, the end portion member 12 is basically directed to protect the end portion of helmet edge portions.

As described above, the helmet according to the present invention is capable of adjusting the front portion protection member 2 by the fixing member 7 at a predetermined angle, effectively protecting the user when an externally applied force

is applied to the front portion protection member 2, absorbing the impact, which is externally applied thereto, by using the side portion protection member 3 and the cushion member 6, whereby it is possible to effectively protect the head of a user. In addition, since the front portion protection member 5 has a good field-of-view angle and is formed of a transparent resin, it is possible to enable a desired see-through capability of the user. Furthermore, it is possible to prevent water from flowing into the inside portion of the helmet. In addition, since a finger of the demonstrator is not inserted into meshes of the net portion. The helmet is not easily took off by demonstrators, and it is possible to more effectively protect the face and head of the demonstrator.

Although the preferred embodiments of the present invention have been disclosed for illustrative purposes, those skilled in the art will appreciate that various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as recited in the accompanying claims.



What is claimed is:

1. A helmet, comprising:

side portion protection members having a plurality of openings and disposed at both sides of a helmet main body;

cushion members attached to inner surfaces of the side portion protection members;

a front portion protection member disposed in a front portion of the helmet main body for protecting the face of a user;

a rear portion protection member disposed in a rear portion of the helmet main body for protecting a rear portion of the head of the user;

fixing means disposed at both sides of the helmet main body and having a latching function for adjusting an angle of the front portion protection member of the helmet main body; and

a stopper disposed behind the fixing means for limiting a movement of the front portion protection member.

2. The helmet of claim 1, further comprising a packing portion disposed in an upper portion of the front portion protection member of the helmet main body for covering a predetermined space defined between a front edge portion of the helmet main body and an upper edge portion of the front portion protecting member.