

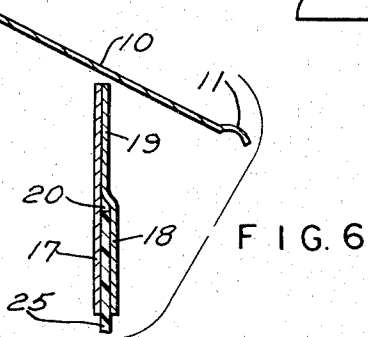
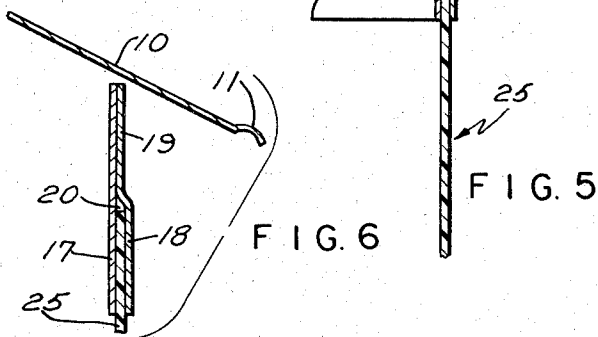
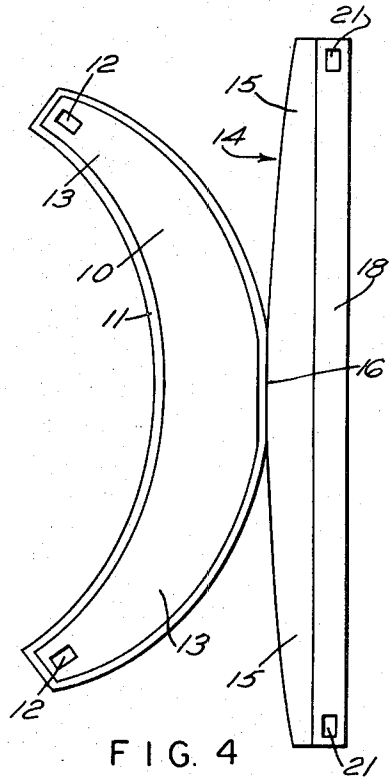
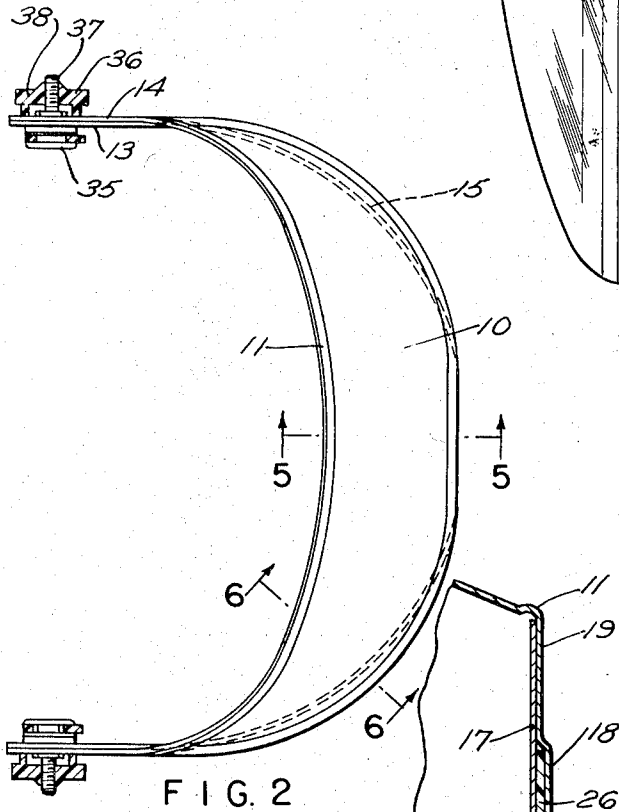
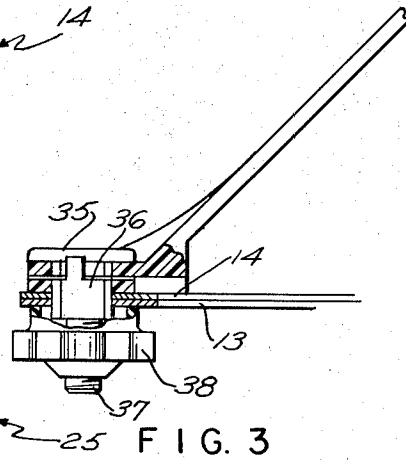
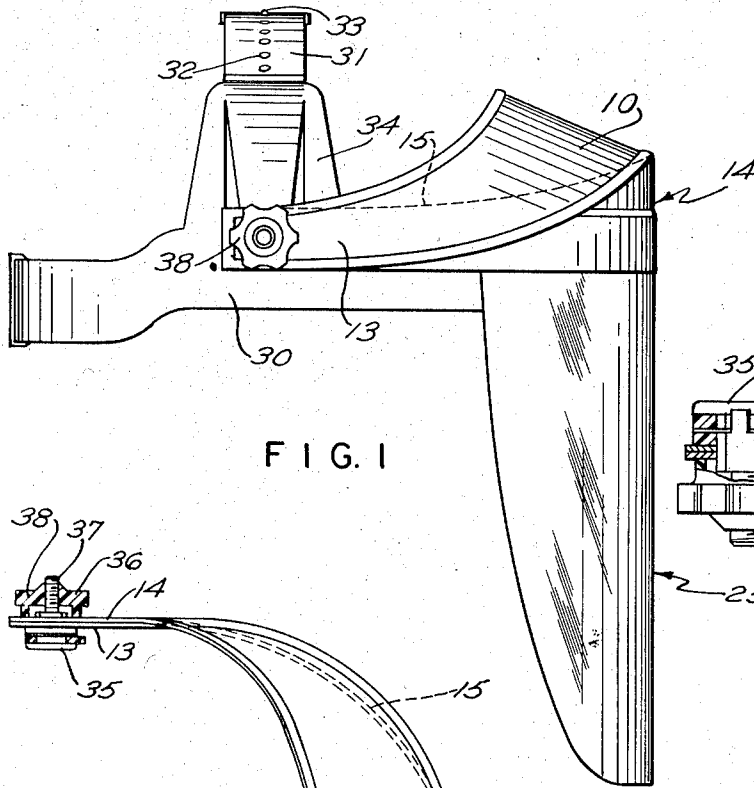
Jan. 19, 1971

G. T. PATTON, JR

3,555,562

FACE SHIELD MOUNTING

Filed Feb. 24, 1969



INVENTOR
GEORGE T. PATTON, JR.

BY

Barlow & Barlow
ATTORNEYS

1

3,555,562

FACE SHIELD MOUNTING

George T. Patton, Jr., Barrington, R.I., assignor to Welsh Manufacturing Company, a corporation of Rhode Island

Filed Feb. 24, 1969, Ser. No. 801,258

Int. Cl. A42b 1/00

U.S. Cl. 2-10

3 Claims

ABSTRACT OF THE DISCLOSURE

A face shield and its mounting means both formed flat and shipped in flat knocked down condition and then assembled and bent into curved shape which bending holds the face shield in its mounting so it may be positioned on a head support.

BACKGROUND OF THE INVENTION

A head support consisting of a band to extend horizontally about the head with a vertical band extending over the top of the head is usually provided with a molded arcuate shape face shield mounting that is pivoted to the head support on either side of the head. The curved form of these structures requires a large cubic volume for shipping, which large cubic is undesirable.

SUMMARY OF THE INVENTION

A head support has already been formed so that it may be generally flat for shipping. The face shield is also flat in unmounted position. The mounting member for the face shield is flexible flat stock formed in two plies connected together at their upper edge so that the face shield may be sandwiched between the plies. The plies with the shield between them when bent into curved form for attachment to the head support bind the shield in the mounting member. A visor portion is hinged to this mounting member and is generally crescent shape, and when similarly bent will extend over portions of the mounting member with its ends overlapping the mounting member to hold it in a position so that the visor and mounting member are angularly disposed, while the end portions of each have registering openings to hold the parts in the arcuate position to which they have been bent and also serve as a means for pivoting the assembly on the head support.

DESCRIPTION OF THE DRAWINGS

FIG. 1 is a side elevation of the head support, the shield, and its mounting in working position;

FIG. 2 is a top plan view of the shield mounting portion by itself but illustrating the pivotal mounting of its end portions;

FIG. 3 is an enlarged view of the pivotal mounting hinge;

FIG. 4 is a top plan view of the shield mounting device in a flat form;

FIG. 5 is a sectional view through the center portion of the shield and its mounting; and

FIG. 6 is a sectional view on line 6-6 of FIG. 2.

DESCRIPTION OF THE PREFERRED EMBODIMENT

The head support consists of a band 30 to extend horizontally about the head and may be suitably adjusted as to size by holes and studs in a known manner. A further band 31 extends in a vertical plane over the top of the head and may be adjusted as to size by holes 32 and studs 33 for sizing. A suitable connection as at 34 between the horizontal and vertical bands is provided and at substantially the juncture of the vertical plane band and the

2

horizontal plane band, there is provided a means for mounting the face shield device. This mounting means for the face shield device consists of a pivot bolt having a head 35 with a post 36 extending therefrom reduced as at 37 and screw threaded to receive the nut 38 thereon to hold the shield mounting device in position on the head support.

In FIG. 4 there is shown a shield mounting means in flat form before it is bent into arcuate shape. It is of a molded plastic construction comprising a visor portion 10 which has its margin offset as at 11 to generally stiffen the same and provide greater rigidity. Openings 12 are located at the opposite ends 13 of this visor. A mounting member designated generally 14 has tapered portions 15 and is hinged to the visor at 16 by being molded therewith and is similarly flat in form. The shield mounting means may be formed of two plies of material, the inner ply being designated 17 (FIG. 5) and the outer ply being designated 18 which plies are secured together at their upper portion as at 19, while they are free from each other at their lower edges as seen in FIG. 5 to form a slot 20. Alternately, the shield mounting means may be molded with a slot 20. Openings 21 are formed at either end of this mounting member as seen in FIG. 4.

A shield of transparent material designated 25 may be of a flat sheet of material so that it may be shipped in flat form, and when in this flat form its upper portion 26 is located in slot 20 or between the plies 17 and 18 as seen in FIG. 5. With the transparent shield 25 sandwiched in place, the mounting member 15 may be bent into arcuate form as may be seen in dotted lines in FIG. 2 or in elevation in FIG. 1, which act of arcing places the outer ply 18 in tension and the inner ply 17 in compression causing these two plies to move toward each other into binding relation on the upper portion 26 of the transparent shield so as to grip it firmly in place in the position in which it is located. This act of curving also locates the openings 21 so that they may be received on the stud 36 mounted on the sides of the head support.

The shield mounting device heretofore described is bent into curved form to generally follow the arcuate shape of the horizontal band 30 and it is of a length so that its openings 21 will be received on the post 36, and as this is bent into shape, the visor 10 is also bent into arcuate shape as seen in FIG. 1. Since the visor is of crescent form, the portion 13 thereof will extend outwardly beyond the hinge connection 16 and over and beyond the portion 15 of the curved mounting member 14 so that the visor overhangs this portion 15 as is seen in FIG. 6 and by the dotted line in FIGS. 1 and 2 of the edge of portion 15. The ends of the visor 10 are then brought into overlapping relation with the ends of mounting member 14, as may be seen in FIGS. 1 and 2, with the openings 12 in registry with the openings 21. Both of these end portions may then be mounted on the post 36 carried by the head band or head support and this post provides a means so that the shield mounting device 10 and 14 may be swung upwardly to expose the face carrying the shield 25 or may be swung down into a position to cover the face as is desired.

By this arrangement the entire construction may be shipped flat in a small cubic space and then assembled into the form curved as shown and described to function in a usual manner.

I claim:

1. A face shield mount attachable to a headband comprising in flat planar form a shield mounting member of flexible material, said shield mounting member having a slot opening formed along an edge thereof by an outer wall and an inner wall of said shield mounting member whereby when a sheet of shield material is removably inserted into said slot and said shield mounting member

3

is bent into arcuate shape for attachment to a headband, the walls of the slot will function to bind the shield due to the outer wall being placed under tension and the inner wall being compressed to frictionally grip the shield therebetween.

2. A face shield mount as recited in claim 1 wherein said shield mounting member has a crescent shaped visor hingedly attached to said mounting member at the mid portion of the edge opposite said slot, said visor and mounting member having openings formed at their ends for attachment to a headband.

3. A face shield as recited in claim 2 wherein said crescent shaped visor is also made of flexible material whereby when the visor is bent for attachment to the headband, the visor and the shield mounting member will

4

be disposed at an angle to each other and the ends of said visor and mounting member will overlap with the respective openings of each in registry with one another for mounting in pivotal relation of a headband.

5

References Cited

UNITED STATES PATENTS

2,397,722	4/1946	Bowers	2—8
2,755,476	7/1956	Bowers	2—8
2,763,006	9/1956	Amundsen	2—8
3,214,767	11/1965	Weber	2—9

10

15

JORDAN FRANKLIN, Primary Examiner

G. V. LARKIN, Assistant Examiner