

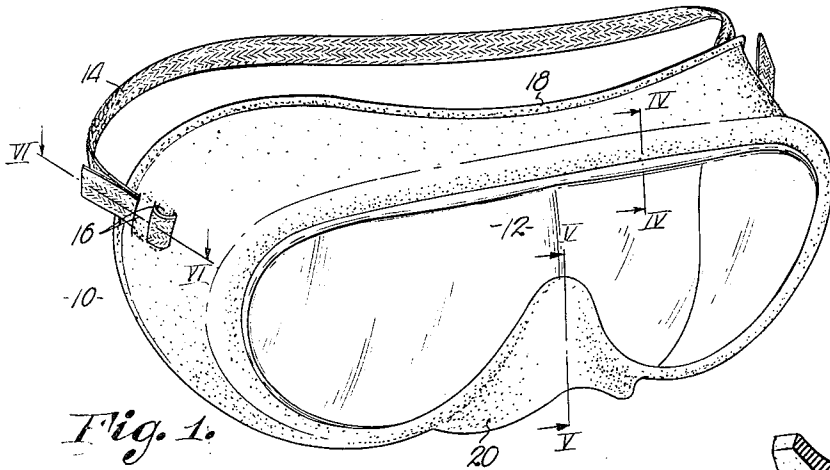
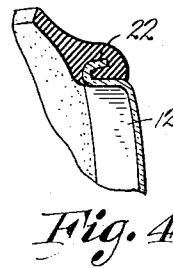
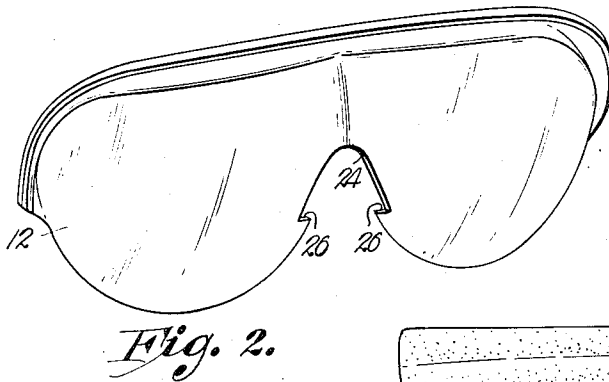
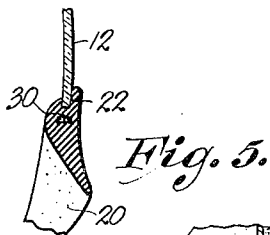
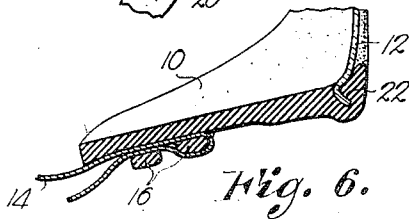
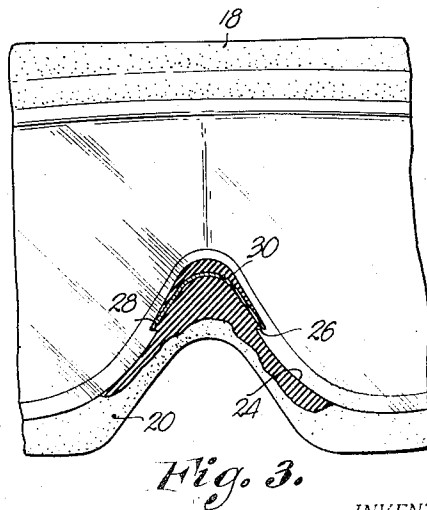
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2,625,685

GOGGLE ASSEMBLY

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2,625,685

GOGGLE ASSEMBLY

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3 Claims. (Cl. 2-14)

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This invention relates to safety appliances in the nature of a goggle assembly designed to protect the eyes of the wearer, and the primary aim is to provide such an article of manufacture as will fulfill the objects of immediately conforming to the contour of the face of the wearer adjacent to the eyes when donned and will have the further property of having a transparent cover or front adapted to be replaced without employment of instruments or tools and through the utilization of the inherent resilient characteristics of the frame thereof.

Other important objects of the invention include the manner of forming the structure at the zone of interconnection between a tubular frame and cover to prevent accidental displacement and to establish requisite, practical interlocking; and the provision of cooperating interengaging elements on the cover and frame to lend structural rigidity to the aforesaid interlocking and to prevent spreading of the tubular frame.

Other objects of the invention will appear during the course of the following specification, referring to the accompanying drawing wherein:

Fig. 1 is a perspective view of the goggle assembly embodying the invention.

Fig. 2 is a perspective view of the cover or front thereof entirely removed from its association with the remaining parts of the assembly.

Fig. 3 is an enlarged, fragmentary, front elevational view of the median portion of the goggle assembly, parts being broken away to reveal the reinforced interlock between the frame and cover.

Fig. 4 is an enlarged, detailed, fragmentary, sectional view taken on line IV-IV of Fig. 1.

Fig. 5 is a similar view taken on line V-V of Fig. 1; and,

Fig. 6 is an enlarged, fragmentary, sectional view taken on line VI-VI of Fig. 1.

The chosen illustrated embodiment of the invention comprises a tubular frame of resilient substance broadly designated by the numeral 10 and a cover 12 of transparent material closing one end of the frame and removably held in place by specially-formed, cooperating elements hereinafter specifically defined. One end of frame 10 is contoured to substantially conform to the face of the wearer when the goggle assembly is maintained in position through the medium of a head-encircling elastic band 14.

This band 14 is anchored to frame 10 as detailed in Fig. 6. A pair of loops 16 formed inte-

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grally with frame 10 and in relative parallelism is disposed at each end of frame 10; and elastic band 14 will be securely fastened when threaded around the loops 16 as shown in Fig. 6. Obviously, the employment of these loops 16 obviates the necessity of perforating frame 10 and thereby presenting the possibility of allowing foreign matter to enter the frame when the goggle assembly is donned.

The end 18 of frame 10 which is contoured to fit the face merges with a nose-engaging section 20 that extends inwardly on the median line of frame 10. Thus, the end of frame 10 opposite to contoured edge 18 presents an opening having a periphery in substantial conformity with the shape of the edge of cover 12 shown in Fig. 2. The marginal edge of cover 12 snugly fits into an inwardly-facing groove 22 formed in frame 10 at the end thereof opposite to contoured edge 18.

That portion of groove 22 along the normally upper edge of cover 12 and at the upper portions of the ends of said cover is arched as shown in Figs. 4 and 6 to receive the similarly arched marginal edge of cover 12. Notch 24 provided on the median line of cover 12 receives nose-engaging section 20 and is specially formed as shown in Figs. 2 and 3 with respect to the provision of opposed shoulders 26.

Cooperating shoulders 28 provided on frame 10 within the groove 22 thereof at the nose-engaging section 20 rest against shoulders 26 on cover 12 when elements 10 and 12 are assembled, and rigidity attended by a positive reinforced interengagement is assured by the provision of a flexible, U-shaped insert 30 having its ends at shoulders 28 and disposed to bear against shoulders 26 when cover 12 is fitted in place.

These shoulders 26 are opposed to portions of the arched marginal edge of cover 12 to such a degree that any tendency on the part of frame 10 to spread laterally will be prevented. Insert 30 is sufficiently resilient to permit drawing together the ends thereof when cover 12 is to be removed for replacement.

No special tools are needed to manipulate tubular frame 10 when cover 12 is being removed or inserted, and a damaged cover may be replaced with speed and ease when necessary.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A goggle assembly comprising a tubular frame; and a cover of transparent material closing one end of the frame, said frame having an

inwardly-facing groove, arcuate in cross section, formed therein at said one end thereof for receiving the marginal edge of the cover, said cover having an arched flange at its said marginal edge to substantially conform to the arcuate form of said groove, whereby to enter the same and prevent accidental lateral expansion of the frame.

2. A goggle assembly comprising a tubular frame; and a cover of transparent material closing one end of the frame, said frame having a nose-engaging section integral therewith and projecting inwardly at the median line of the frame, said cover being provided with a notch to receive the nose-engaging section, said frame having an inwardly-facing groove, arcuate in cross section, formed therein at said one end thereof for receiving the marginal edge of the cover, said cover having opposed shoulders created on the edge thereof forming the said notch, said frame having cooperating shoulders formed in the groove thereof at the nose-engaging section to engage said shoulders on the cover, said cover having an arched flange at its said marginal edge to substantially conform to the arcuate form of said groove, whereby to enter the same and prevent accidental lateral expansion of the frame.

3. A goggle assembly comprising a tubular frame; and a cover of transparent material closing one end of the frame, said frame having a nose-engaging section integral therewith and projecting inwardly at the median line of the

frame, said cover being provided with a notch to receive the nose-engaging section, said frame having an inwardly-facing groove, arcuate in cross section, formed therein at said one end thereof for receiving the marginal edge of the cover, said cover having opposed shoulders created on the edge thereof forming said notch, said frame having cooperating shoulders formed in the groove thereof at the nose-engaging section to engage said shoulders on the cover, said cover having a flexible, U-shaped insert embedded therein, said insert having ends bearing against the shoulders of the cover when the frame and cover are in an assembled condition, said cover having an arched flange at its said marginal edge to substantially conform to the arcuate form of said groove, whereby to enter the same and prevent accidental lateral expansion of the frame.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,959,318	Sundback	May 15, 1934
2,182,104	Wilen et al.	Dec. 5, 1939
2,387,522	Maurer	Oct. 23, 1945
2,391,349	Ring	Dec. 18, 1945
2,513,507	Moeller	July 4, 1950