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GOGGLE SUPPORT

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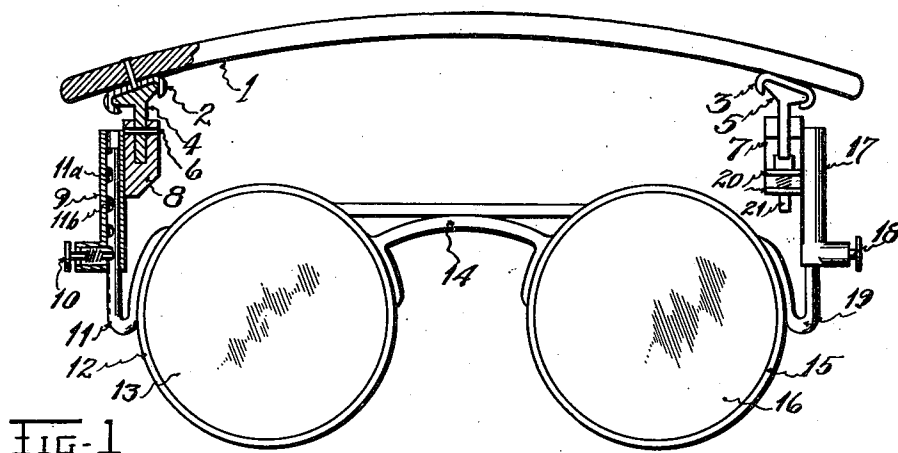


FIG-1

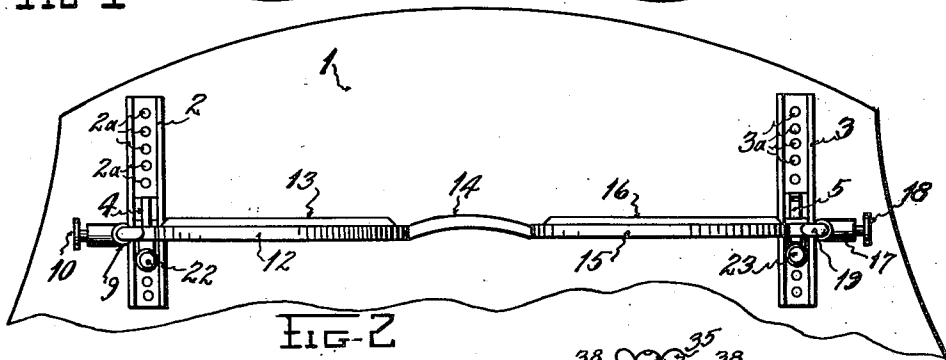


FIG-2

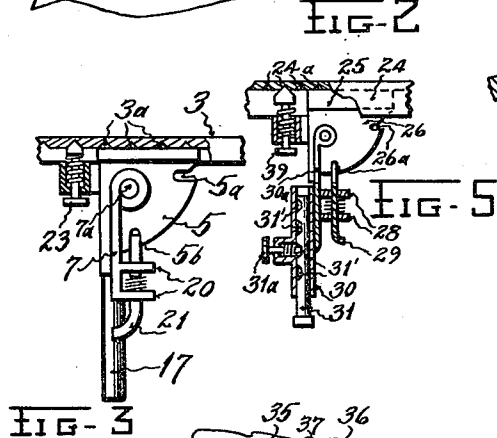


FIG-3

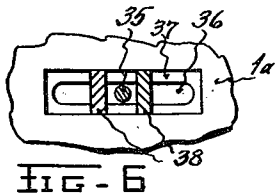


FIG-4

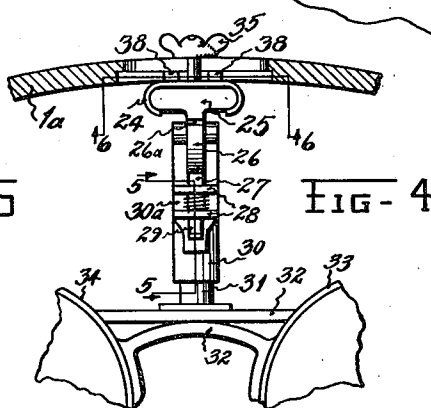


FIG-5

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GOGGLE SUPPORT

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9 Claims. (Cl. 2—10)

This invention relates to goggle supports generally. More particularly this invention relates to arrangements for adjustably supporting goggles upon the visor or rim of a cap or hat.

5 An object of this invention is to provide a goggle or spectacle support to the visor of a cap or the rim of a hat or helmet such that the position of the goggles with respect to the wearer's eyes may be adjusted so that the cap, hat or helmet may be worn in its most convenient position and with least physical fatigue to the wearer.

10 Another object of this invention is to provide a goggle or spectacle support to the visor of a cap or the rim of a hat or helmet, such that the goggles or spectacles may be adjusted in two or more directions most convenient to the physical features of the wearer.

15 Other and further objects of this invention will be apparent to those skilled in the art to which this invention appertains from the following specification and the appended claims.

20 In accordance with this invention I provide a mechanism for supporting goggles or spectacles on the front of a cap, hat or helmet in a manner that permits and facilitates convenient and rigid adjustment of the goggles or spectacles.

25 I have found that where protective goggles are attached, for example, to miners' helmets, where no adjustment is provided, the goggle positions in a great many cases do not fit, even though the size of the helmet is correct.

30 Attempts have been made to fold the goggles or spectacles fastened to a cap or hat against surfaces of the cap or hat; this does not solve the problems solved by my invention.

35 In my invention I provide substantial supporting members for the goggles or spectacles; these are adjusted to cooperate with a rack, channel or similar member or members for receiving, in movable relation, a supporting member or members attached to the frame of the goggles. I prefer to construct the goggle supports of my invention in such a way that the goggles may be adjusted with ease, either vertically, backward and forward as well as angularly with respect to the direct line of vision of the wearer.

40 While my invention is particularly adapted for helmets worn by miners, it is obvious that it may be used in conjunction with hats or caps, no matter what the occupation of the wearer may be.

45 A detailed description of this invention is set forth in detail in the following specification and the drawing, in which, briefly,

50 Fig. 1 is a view illustrating an embodiment of my invention;

Fig. 2 is a view showing details of the backward and forward adjustment of the goggle support;

Fig. 3 is a partial sectional view of the angularly adjustable support employed in accordance with my invention;

Fig. 4 illustrates a modified form of my invention;

Fig. 5 is a partial sectional view, showing a section along the line 5—5 of Fig. 4, and

Fig. 6 is a sectional view along line 6—6 of Fig. 4.

Referring to Fig. 1 of the drawing in detail, reference numeral 1 designates the visor of a cap or the front portion of the rim of a hat. To the underside of this rim 1 are attached two elongated channel members 2 and 3, extending backward and forward, as illustrated in Fig. 2. These channel members may be attached to the rim 1 in any of the well known ways, such as by rivets, screws, cementing and the like. Each of the channel members 2 and 3 is provided with a plurality of small indentations 2a and 3a, respectively, as shown in detail in Figs. 2 and 3. The small spring retained pins 22 and 23 are formed with a sharpened end for engaging the indentations 2a and 3a of channels 2 and 3 in the manner illustrated in Fig. 3, wherein the pin 23 is shown engaging the channel 3 in one of the indentations 3a thereof.

Members 4 and 5 are positioned in the channels of channel members 2 and 3. The block 8 is pivoted to the member 4 by the pin 6. Member 7 is pivoted to the member 5 by the pin 7a, as illustrated in Fig. 3. The member 5 is provided with notches 5a and 5b to receive the end of the catch 21 which is supported by the projections 20 of the member 7. A spring having one end thereof attached to the member 21 is positioned between these projections 20 to hold this member under pressure in either one of the notches 5a or 5b.

The glass members 13 and 16 are supported in rims 12 and 15, respectively, which are joined by the members 14. It is, of course, obvious that glass members may or may not be mounted in these rims, inasmuch as the member 14 may be conveniently attached to the glass members direct. It is also obvious that the members 13 and 16 may be made of transparent materials other than glass where desired.

The rims 12 and 15 are provided with supporting members 11 and 19, respectively, attached thereto in any convenient manner, such as sol-

dering, welding and the like. The member 11 is arranged to slide in the tubular member 9 which is attached to the block 8 in any convenient manner. The supporting member 11 is provided with a plurality of notches, such as notches 11a and 11b, to receive the pin 10. Different ones of these notches are employed for different vertical adjustments of the goggles. Similar notches are provided to the supporting member 19 for the purpose of cooperating with the pin 18 inside of the tubular member 17 which is attached to the member 7 and cooperates with the member 19 in adjustably supporting one side of the goggles.

In Figs. 4, 5 and 6 a modified form of this invention, in which the goggles are supported from a central portion thereof, is illustrated. In this embodiment of my invention the rims 33 and 34, supporting the glasses of the goggles, are held together by means of the bridge member 32, to which is attached an upright member 31. A tubular member 30 is provided to receive the member 31. A pin 31a is positioned on the side of the member 30. Notches 31' are formed in the member 31 along the length thereof at slightly displaced intervals to cooperate with the pin 31' and retain the goggles at any one of a plurality of predetermined vertical adjustments.

In this embodiment of my invention the tubular member 30 is attached to the element 30a which is hinged to the arcuate member 26 for permitting angular adjustment of the goggles. The channel 24 is adapted to receive the block 25 which is formed integral with the member 26. Notches 24a are formed in the channel 24 to receive one end of the pin 39, which is supported by the member 26, and maintain any one of a plurality of horizontal adjustments of the goggles. Notches 26a are provided to the member 26 to cooperate with the latch 29, which is supported by the projections 28 under the tension of a spring, for the purpose of maintaining the goggles in predetermined angular positions.

The channel 24 is attached to the rim 1a of the helmet or hat by a bolt 35. Two blocks 38 are also positioned on the channel member 24 and cooperate with a recessed portion 36 and surface 37 of the rim 1a to guide and maintain the goggle support in alignment during the horizontal sidewise adjustment of the goggles.

The goggle support of my invention illustrated in Figs. 4, 5 and 6 permits and facilitates three position adjustments of the goggles, namely, vertical, backward and forward horizontal and sidewise horizontal. Each of these adjustments may be maintained through suitable adjustment locking means.

While I have described my invention in considerable detail, it is, of course, to be understood that numerous modifications thereof may be made without departing from the spirit and scope thereof, and that, therefore, I do not desire to limit it to the exact details set forth in the foregoing specification except in so far as those details may be defined by the appended claims.

What I claim and desire to secure by Letters Patent of the United States is as follows:

1. In combination, a pair of goggles having a pair of transparent members and a frame for retaining said members in predetermined relation, and supporting means for supporting said goggles on the brim of a hat or helmet, said supporting means including channel members attached to said brim, means for adjusting the vertical posi-

tion of said goggles and means slidable in said channel members for adjusting said goggles backward and forward.

2. In combination, a pair of goggles, a supporting means for said goggles including upright members attached to said goggles, means attached to the rim of a hat or helmet for slidably receiving said upright members, means for maintaining said upright members in predetermined positions in said second means, and means for adjusting the backward and forward position of said goggles with respect to said hat or helmet rim independent of the adjustment of said upright members.

3. In combination, a set of goggles including a pair of transparent members held in spaced relation by a frame, means for suspending said goggles from the rim of a helmet, members cooperating with said means and extending transversely of said helmet rim for shifting said goggles backward or forward in the line of vision of the wearer of said helmet, means for adjusting the vertical position of said goggles with respect to the rim of said helmet, and means for maintaining said goggles at a predetermined vertical adjustment.

4. In combination, a set of goggles, and means for supporting said goggles on the rim of a helmet, said means including members extending transversely of said helmet rim, members slidably engaging said first members for shifting said goggles backward or forward in the line of vision of the wearer of said helmet, means for adjusting the vertical position of said goggles with respect to said helmet rim, and means for maintaining said goggles at a predetermined vertical adjustment.

5. In combination, a set of goggles, and means for supporting said goggles on the rim of a helmet, said means including members extending transversely of said helmet rim, members slidably engaging said first members for shifting said goggles backward or forward in the line of vision of the wearer of said helmet, a pair of upright members attached to said goggles for adjusting the vertical position of said goggles with respect to the rim of said helmet, and means for engaging said upright members and for maintaining said goggles at a predetermined vertical position.

6. In combination, a pair of goggles and supporting means for said goggles, said supporting means including at least one elongated member attached to the under side of the brim of a hat and extending substantially transversely across said brim, a slider for slidably engaging said elongated member, a tubular member pivoted to said slider, a piston-like member for said tubular member, and means for attaching said goggles to said piston-like member for supporting said goggles to said brim.

7. In combination, a pair of goggles and supporting means for said goggles, said supporting means including at least one elongated member attached to the under side of the brim of a hat and extending substantially transversely across said brim, a slider for slidably engaging said elongated member, means for said slider to lock said slider in a predetermined position on said elongated member, a tubular member pivoted to said slider, a piston-like member for said tubular member, and means for attaching said goggles to said piston-like member for supporting said goggles to said brim.

8. In combination, a pair of goggles and supporting means for said goggles, said supporting

means including at least one elongated member
attached to the under side of the brim of a hat
and extending substantially transversely across
said brim, a slider for slidably engaging said
5 elongated member, means for said slider to lock
said slider in a predetermined position on said
elongated member, a tubular member pivoted to
said slider, a piston-like member for said tubular
member, means for locking said piston-like mem-
10 ber in a predetermined position in said tubular
member, and means for attaching said goggles

to said piston-like member for supporting said
goggles to said brim.

9. In combination, a pair of goggles and sup-
porting means for said goggles, said supporting
means including members positioned wholly on 5
the underside of a rim of a hat or helmet and
means slidably cooperating with said members
for adjusting said goggles backward and for-
ward with respect to said rim substantially in a
straight line.

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