June 3, 1947. M. W. MAMLIN ET AL 2,421,427

FACE PROTECTOR FOR FIRE FIGHTERS

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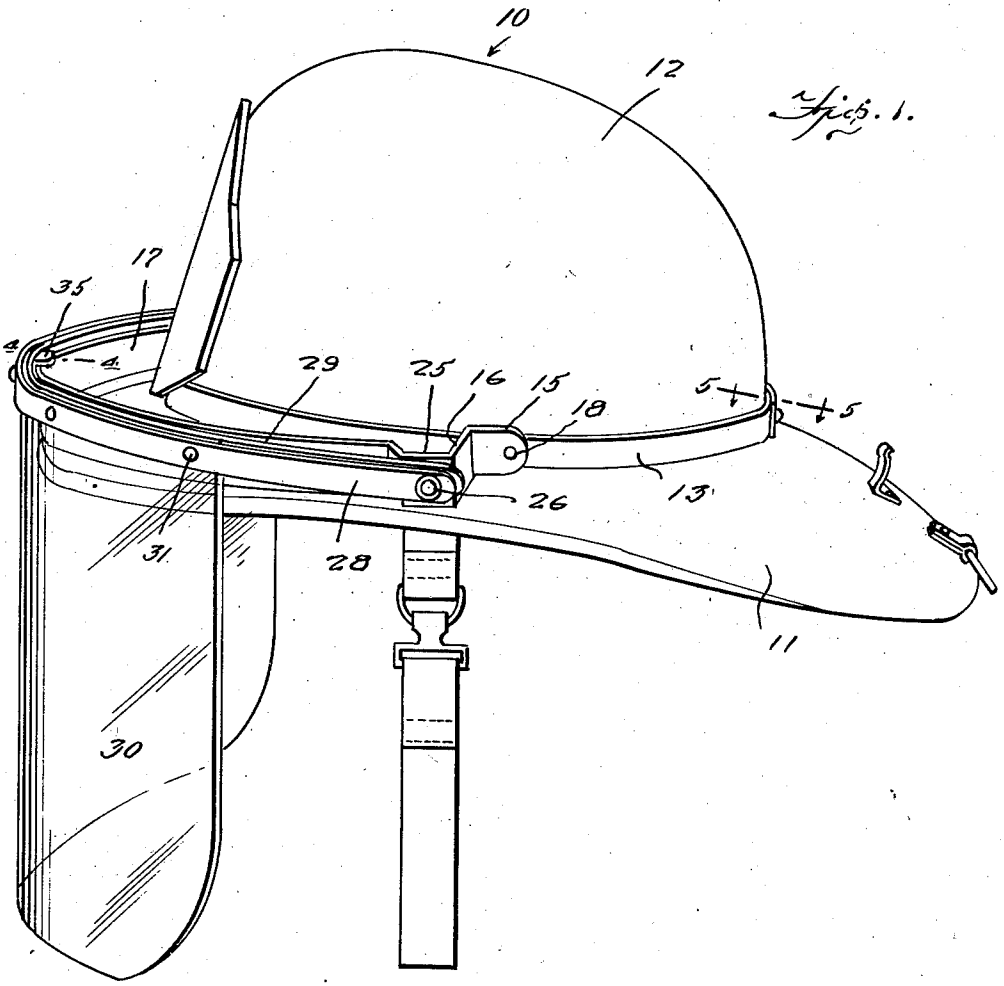


Fig. 1.

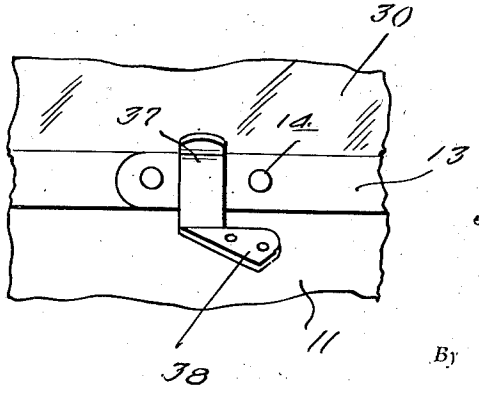


Fig. 6.

Inventor
Morris W. Mamlin
Ralph E. Welker

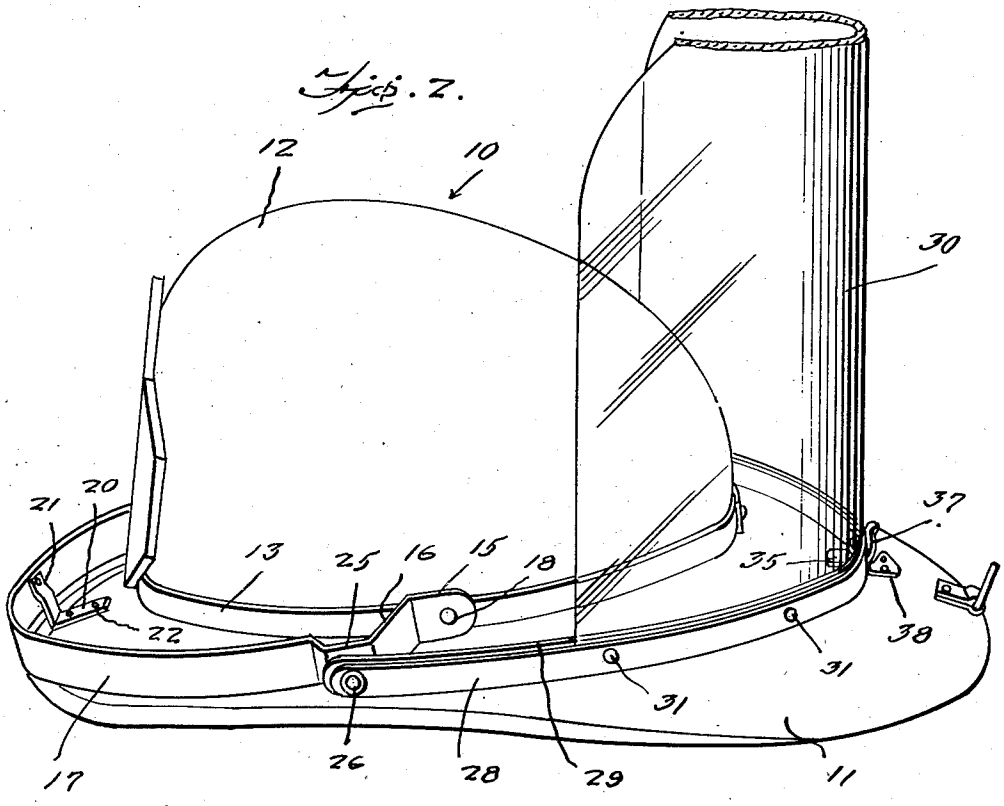
By Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

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FACE PROTECTOR FOR FIRE FIGHTERS

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Fig. 2.



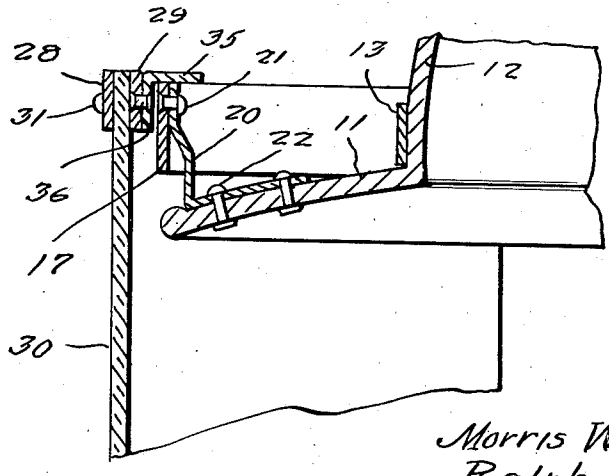


Fig. 4.

Inventor
Morris W. Mamlin
Ralph E. Welker

By Clarence A. O'Brien and Harvey B. Jacobson
Attorneys

June 3, 1947. M. W. MAMLIN ET AL 2,421,427

FACE PROTECTOR FOR FIRE FIGHTERS

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Fig. 3.

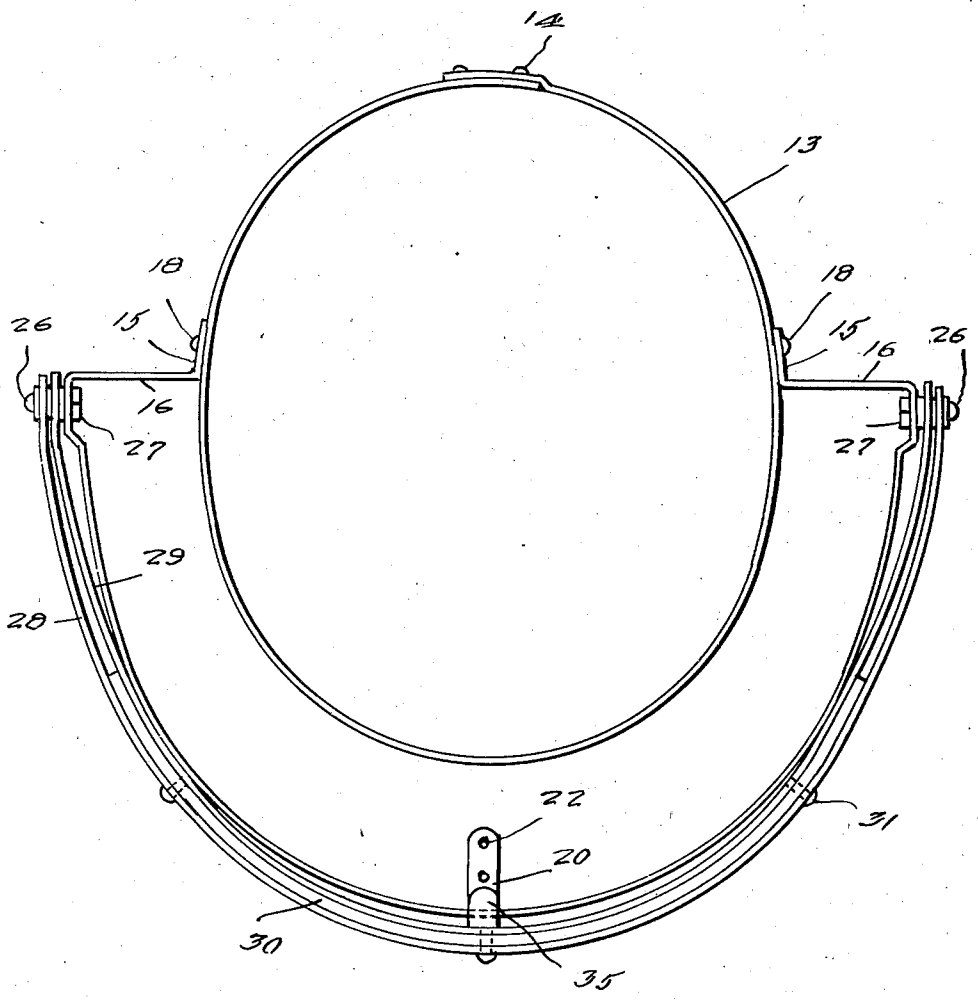
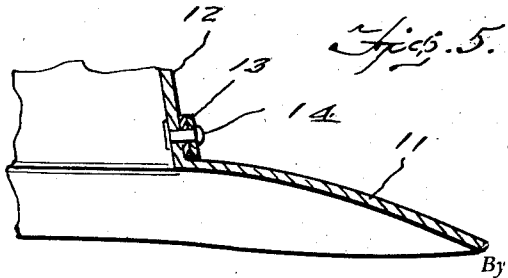


Fig. 5.



Inventor

Morris W. Mamlin

Ralph E. Welker

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

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UNITED STATES PATENT OFFICE

2,421,427

FACE PROTECTOR FOR FIRE FIGHTERS

Morris W. Mamlin, Pine Bluff, and Ralph E. Welker, Laurinburg, N. C.

Application December 9, 1944, Serial No. 567,402

4 Claims. (Cl. 2—5)

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This invention relates to a face protector for fire fighters, and more particularly to such protector adapted to be fitted to a fireman's helmet or the like.

A primary object of this invention is the provision of an improved face protector adapted to be utilized in conjunction with a fireman's helmet, adapted to be swung forwardly over the face of the wearer thereof, in order to enable the operator to approach a blaze relatively closely without burning or injuring the face.

An additional object of this invention is the provision of such a protector adapted to afford the wearer of the helmet maximum visibility when the same is in position.

Still another object of the invention is the provision of such a protector adapted to be pivotally secured to the helmet, in such manner that the same may be readily swung out of the way when not in use.

Other objects will in part be obvious and in part be pointed out as the description of the invention proceeds and shown in the accompanying drawings, wherein there is disclosed a preferred embodiment of this inventive concept.

In the drawings:

Figure 1 is a perspective view of a fireman's helmet disclosing the device of the instant invention as applied thereto and in operative position.

Figure 2 is a view similar to Figure 1, but disclosing the device swung to inoperative position.

Figure 3 is a top plan view of the device of the instant invention shown as removed from the helmet.

Figure 4 is an enlarged detail sectional view taken substantially along the line 4—4 of Figure 1.

Figure 5 is an enlarged detail sectional view taken substantially along the line 5—5 of Figure 1, and

Figure 6 is an enlarged fragmentary detail view of a constructional element.

Like reference numerals refer to like parts throughout the several views of the drawings.

Having reference now to the drawings, there is generally indicated at 10 a fireman's helmet of conventional design comprised of a brim 11 and a crown 12.

Surrounding the crown 12 at its juncture with the brim is a metal band 13, preferably comprised of aluminum or the like, and secured together as by rivets 14, one of which if desired may be passed through the crown of a hat to hold the band in related assembly therewith.

Secured to oppositely disposed aligned central portions of the band 13 are the flanged ends 15

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of offset portions 16, of a roughly semi-circular band 17 adapted to extend about the forward edge of the helmet brim 11. The extremities 15 are secured to the band 13 as by means of rivets 18, and an L-shaped member 20 is secured to the band 17 as by means of a rivet 21 and the brim 11 as by means of rivets 22 to hold the parts in related assembly.

Pivotally secured to offset portions 25 of the band 17 adjacent the inwardly turned portions 16, as by bolts 26 and nuts 27 are the opposite extremities of a pair of spaced semi-circular bands 28 and 29 between which is secured the upper peripheral extremity of an arcuate sheet 30 preferably of transparent plastic material such as "Plexiglas" or the like. Sheet 30 is secured between the bands 28 and 29 as by means of rivets or screws 31.

An L-shaped supporting bracket 35 is secured as by a rivet 36 to a mid-point of the inner band 29, and is adapted to rest as best shown in Figure 4 on the rim of band 17, to support the visor 30 in proper position before the face of the wearer of the helmet.

When it is not desired to utilize the shield, the same may be swung about the pivots 26 to the position shown in Figure 2, whereupon it extends upwardly resting on the rear portion of the brim 11. A resilient clip 37 may be secured to the brim as by rivets 38 to engage the band 28 and hold the visor in position on the brim of the hat.

Now from the foregoing it will be seen that there is herein provided an improved face protector for fire fighters or the like, by means of which the fire fighter may approach a blaze relatively closely, without subjecting his face to the intense heat created by the fire.

By constructing the shield of "Plexiglas" or the like it will be seen that the same is durable, heat-resistant, and substantially unbreakable. However, should the shield become cracked or broken by any chance, it will be obvious that the same may be readily replaced merely by removal of the rivets 31.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative and not in a limiting sense.

We claim:

1. In a device of the character described, in combination, a helmet having a crown and brim, a band surrounding the crown of said helmet, a second band supported by the front portion of

the brim and having offset portions secured to said first-mentioned band, a pair of bands having terminal portions pivotally secured to said offset portions, and a transparent visor secured between said pair of bands.

2. In a device of the character described, in combination, a helmet having a crown and brim, a band surrounding the crown of said helmet, a second band supported by the front portion of the brim and having offset portions secured to said first-mentioned band, a pair of bands having terminal portions pivotally secured to said offset portions, a transparent visor secured between said pair of bands, and means for supporting said visor in depending position at the front of the helmet.

3. In a device of the character described, in combination, a helmet having a crown and brim, a band surrounding the crown of said helmet, a second band supported by the front portion of the brim and having offset portions secured to said first-mentioned band, a pair of bands having terminal portions pivotally secured to said offset portions, a transparent visor secured between said pair of bands, means for supporting said visor in depending position at the front of the helmet, said means including a supporting bracket secured to one of said pair of bands and adapted to rest on said second-mentioned band.

4. In a device of the character described, in combination, a helmet having a crown and brim, a band surrounding and secured to the crown of said helmet, a supporting member secured to said band and to a portion of said brim, and a transparent visor pivotally secured to said supporting member.

MORRIS W. MAMLIN.
RALPH E. WELKER.

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