Sept. 3, 1935.

N. F. JUDAH

2,013,053

PROTECTOR FOR HEADLIGHTS

Filed April 27, 1934

2 Sheets-Sheet 1

FIG. 1.

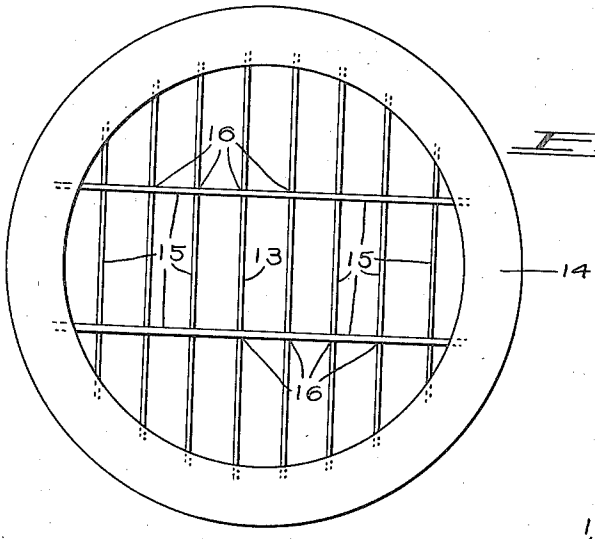
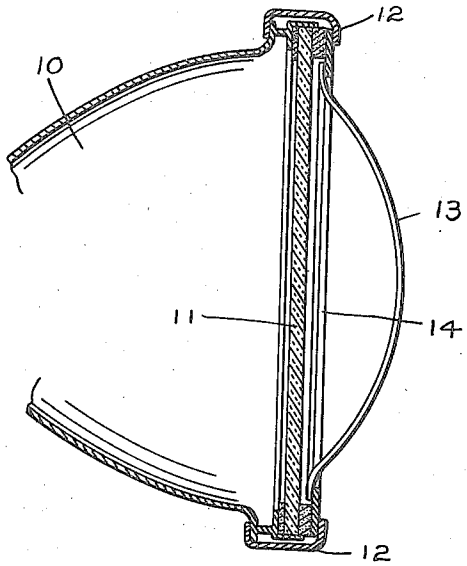


FIG. 2.



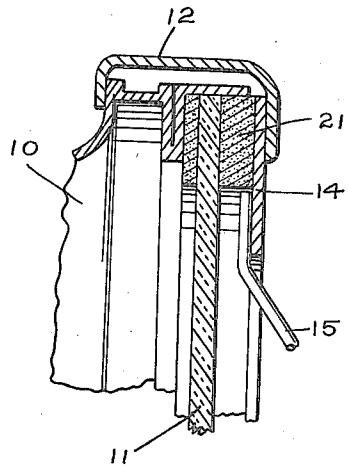


FIG. 3.

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PROTECTOR FOR HEADLIGHTS

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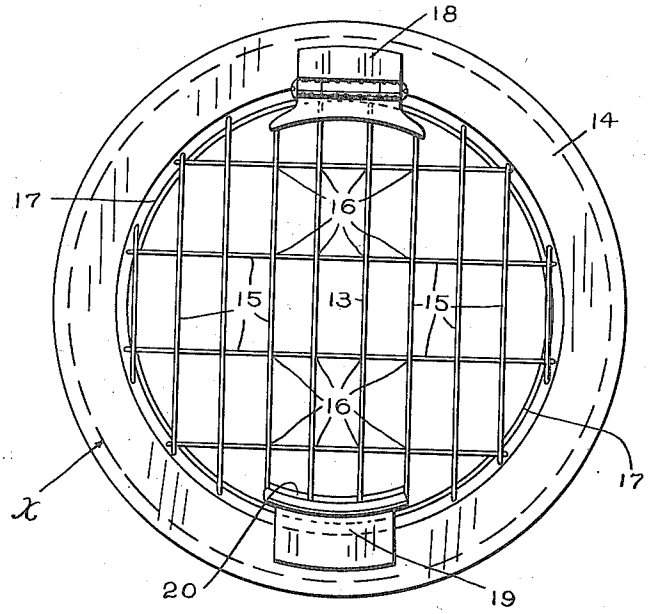


Fig. 4.

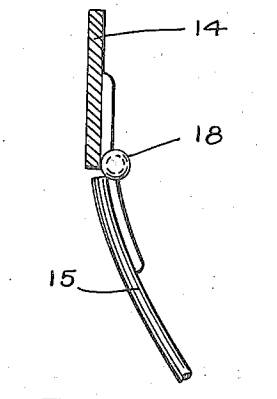


Fig. 5.

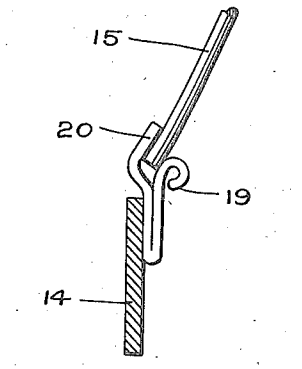


Fig. 6.

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UNITED STATES PATENT OFFICE

2,013,053

PROTECTOR FOR HEADLIGHTS

Noel Fulton Judah, Edmonton, Alberta, Canada

Application April 27, 1934, Serial No. 722,796

1 Claim. (Cl. 240—102)

This invention relates to a head lamp lens protector. Its primary object is to provide a guard composed of wire or other suitable material and means attaching the same to an automobile headlight to protect the lens thereof from breakage.

A further object of the invention is to design and construct a head lamp lens protector that may be conveniently attached by means of clips or other suitable methods to any standard made headlight without having to alter the construction thereof, or drill, bend or otherwise change the shape of the same.

A still further object of the invention is to provide such a head lamp lens protector that may be readily accommodated to fit any size or diameter of head lamp without changing the construction thereof.

With these and other objects in view that may appear while the description proceeds, the invention consists in the novel construction and arrangement of parts as hereinafter more specifically set forth, claimed and shown in the accompanying drawings and in which—

Fig. 1 is a front elevation of my invention in its simplest form.

Fig. 2 is a cross-sectional view through a standard head lamp showing my invention in conjunction therewith.

Fig. 3 is an enlarged partial sectional view of the same.

Fig. 4 is a front elevation of my improved headlight protector showing alternate construction thereof.

Fig. 5 is an enlarged detail view of the hinge used in the latter design.

Fig. 6 is an enlarged detail view of the spring fastener used in conjunction therewith.

Referring more in detail to the drawings in which similar reference characters designate corresponding parts throughout the several views it will be seen the invention comprises a lamp casing 10 having a lens 11 set therein in the usual manner and secured in the casing by the lens retaining ring 12. All of the foregoing are of standard design and construction as it is one main object of the invention as previously stated that the protector shall fit all standard head lamps.

The protector comprises a screen 13 of convex form secured to a rim 14. Said screen is constructed from a plurality of members 15 crossed as shown, or of any other convenient or artistic design, preferably spot welded at their points of contact 16 or woven or otherwise suitably affixed to make a rigid structure. The ends of the members are likewise spot welded or otherwise secured to the said rim 14.

In the alternate construction shown in Fig. 4. The screen 13 is formed into a desired shape and an additional support wire 17 added thereto. This design is of necessity spot welded or otherwise secured at the points of contact 16 to form a rigid self supporting structure. A hinge 18 is secured to the rim 14 and a number of the wires 15 are secured thereto. Diagonally opposite to the said hinge 18 is a spring fastener 19. The said fastener being secured to the rim 14 and extending toward the center thereof to engage the ends of the most central wires 15 forming part of the screen. A stop member 20 is formed as part of the fastener to work in conjunction therewith and hold the screen between the said stop and fastener in a manner to prevent rattling during the motion of the automobile.

The rim 14 is to be constructed from metal or other suitable material that may easily be cut by a pair of shears. This is to permit the rim being fitted to any diameter of head lamp. A circle may be scribed thereon as at "X" Fig. 4 by the person fitting the device on the head lamp by measuring the same with the lens retaining ring or lens and the surplus material trimmed off.

The device is fitted in the head lamp by placing the rim 14 under the ring clamp 12. A cushion ring 21 may be placed between the said rim and the lens 11. The said lens retaining ring is then forced into its locked position and the cushion ring compressed which holds the protector rigidly in position.

While the description has specifically mentioned the device to be used on automobile head lamps it will be recognized that the invention is applicable to all kinds of lamps having similar type lenses and construction such as locomotive head lamps and the like.

It is believed that the construction and advantages of the structure shown may be apparent from the foregoing paragraphs taken in conjunction with the accompanying drawings without further detailed description.

While the preferred embodiment of the invention has been disclosed it is understood that minor changes in the details of construction, combination and arrangement of co-operating parts may be resorted to within the scope of what is claimed without departing from the spirit of the invention.

I claim:—

In a head lamp lens protector as described, a

head lamp, a lens, means holding said lens in said head lamp structure and a lens retaining ring therefor, a member having an orifice therein, in combination with a convex screen positioned concentrically with said orifice, a hinge secured to said metal member and to said screen, a spring fastener therefor secured to said metal member diametrically opposite the said hinge, said metal member to be trimmed to fit a standard head lamp, and a cushion ring, said metal member fitted between said cushion ring and said lens retaining ring to mount the lens protector in the lamp structure.

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