Aug. 16, 1938. R. H. OSBRINK 2,126,971

REFLECTOR

Filed Dec. 4, 1935

Fig. 1

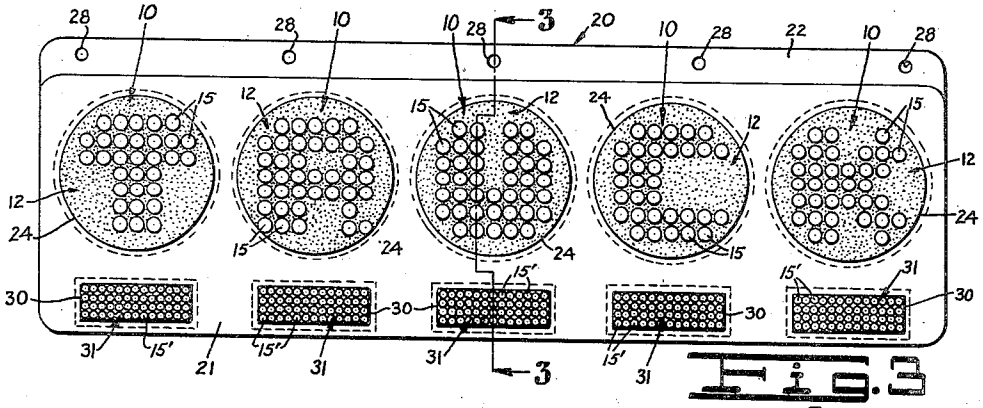


Fig. 2

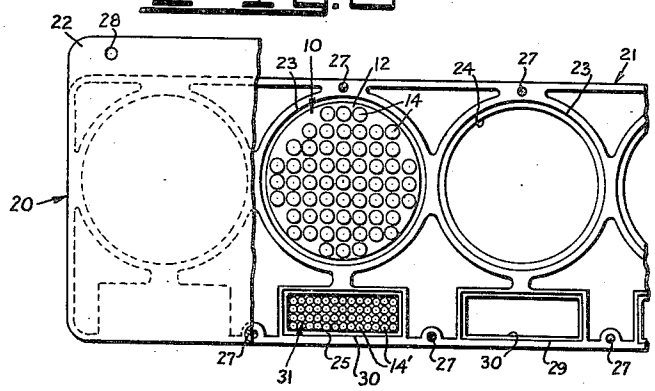


Fig. 3

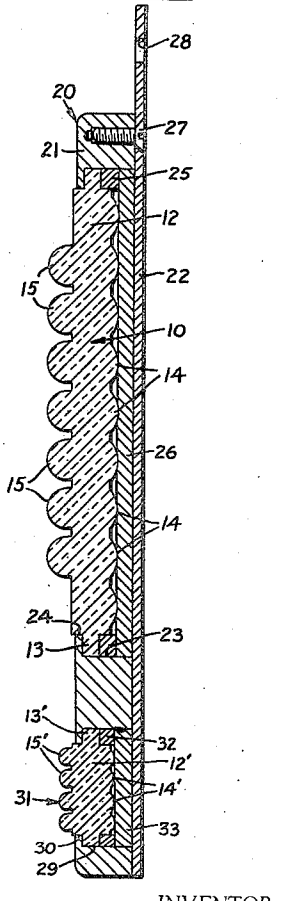


Fig. 5

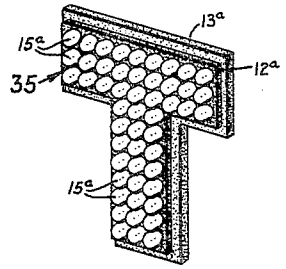
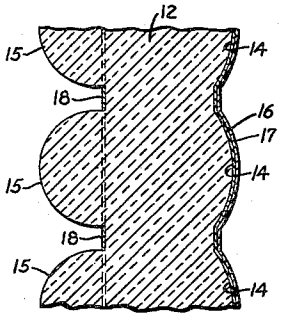


Fig. 4



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REFLECTOR

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3 Claims. (Cl. 40—130)

This invention relates to improvements in reflectors.

The general object of this invention is to provide an improved glass reflector.

Another object of the invention is to provide novel means for forming indicia in glass light reflectors.

Other objects and the advantages of this invention will be apparent from the following description taken in connection with the accompanying drawing, wherein:

Fig. 1 is a front view of a plurality of my improved reflector devices operatively positioned in a holder;

Fig. 2 is a fragmentary rear view of the device shown in Fig. 1 with a portion of the back broken away and a portion removed;

Fig. 3 is an enlarged section taken on line 3—3 of Fig. 1;

Fig. 4 is a greatly enlarged cross section through one of the reflector devices; and

Fig. 5 is a perspective view of another form of reflector.

Referring to the drawing by reference characters I have indicated my improved light reflectors generally at 10. As shown each of the reflectors 10 is made of a good grade of clear cast glass and includes a cylindrical body portion 12 having an enlarged peripheral flange 13 thereon of less thickness than the body and disposed between the front and rear faces of the body.

The body 12 on the rear face thereof includes a plurality of spaced protruding convex portions 14 and the front face of the body has a plurality of protruding hemispherical portions 15 thereon. The axis of each of the hemispherical portions 15 passes through the center of curvature of a corresponding convex portion 14 on the rear face of the body 12.

As shown in Fig. 1 the hemispherical protuberances 15 are arranged to form indicia as, for instance, they may form letters to spell a word, such as the word "truck". On the back face of the body 12 I arrange a coating of silver 16 and over the silver a coating of dark paint 17 is provided. On the front face of the body a coating of dark paint 18 is provided between the protuberances 15.

For supporting a plurality of the reflector members 10 I provide a holder 20 which is preferably made of alumina. As shown the holder 20 includes a body portion 21 and a back plate member 22. In the rear face the holder body 21 has a plurality of recesses 23 therein and in the front face has a plurality of reduced coaxial apertures 24. The reflectors 10 are positioned in the holder body 21 with the flanges 13 of the reflectors positioned in the recesses 23 and the forward portions of the bodies 12 positioned in the apertures 24 (see Fig. 3).

Positioned in each of the recesses 23 and engaging the rear face of the reflector flange 13 I provide a cushion member 25 which may be made of cork and positioned in the recess 23 engaging the protuberances 14 I provide a cork or other disk 26.

The back plate member 22 is shown as secured to the body 21 by a plurality of screws 27 and preferably extends above the top of the body where it has a plurality of apertures 28 therein in which screws or bolts may be positioned for screwing the holder to a suitable support, such as on the back of a truck or other vehicle.

In the rear face of the holder body 21 I provide a plurality of rectangular recesses 29 which are positioned one below each of the recesses 23 and the front face has a plurality of reduced concentric rectangular apertures 30 therein.

Positioned in each of the recesses 29 I provide a reflector member 31 which is similar to the reflector 10 except that it is rectangular in shape instead of circular and like portions thereof are indicated by similarly primed reference numerals. The reflectors 31 are preferably made of a good grade of ruby glass instead of clear glass and paint is preferably omitted from between the reflectors on the front face of the body 12'.

Positioned in each of the recesses 29 and engaging the rear face of the flange 13' of the reflector 31 I provide a cork gasket 32 and positioned in each of the recesses 29 engaging the protuberances 14' I provide a cork plate 33.

When the back member 22 is secured to the holder body 21 it firmly engages the cork discs 26 and 33 and firmly holds the reflector members 10 and 31 in position.

In Fig. 5 I have indicated another form of my improved reflector generally at 35. The reflector 35 is substantially the same as the reflectors 10 and like portions thereof are indicated by similar "a" exponent reference numerals. In the reflector 35 the body portion 12^a is formed in the shape of a symbol or letter such as the letter "T" shown. Thus it will be seen that I may make my improved reflectors in various designs to suit a great number of purposes.

From the foregoing description it will be apparent that I have provided a novel reflector device which is simple in construction and highly efficient in use.

Having thus described my invention I claim:

1. A light reflecting device including a holder member and a plurality of light reflector members, each of said light reflector members being made of glass and including a cylindrical body portion, a plurality of protuberances on the rear face of said body and a plurality of protuberances on the opposite or front face of said body, said rear face of said body having a reflecting coating thereon covering said rear protuberances and a coating of opaque material overlaying said reflecting coating, said front face of said body having a coating of opaque material thereon in the spaces between said front protuberances, said holder member including a body portion having a plurality of apertures therein, said holder including flanges extending into the apertures near the front face of the holder, one of said light reflector members being positioned in each of said apertures and engaging the flange of the aperture and with the front protuberances extending beyond the front face of said holder body and means to secure the reflector members in position.

2. A light reflecting device including a holder member and a plurality of light reflector members, each of said light reflector members being made of glass and including a cylindrical body portion having a flange thereon of greater circumference than said body and of less thickness than said body, a plurality of protuberances on the rear face of said body and a plurality of protuberances on the opposite or front face of said body, said rear face of said body having a reflecting coating thereon covering said rear protuberances and a coating of opaque material overlaying said reflecting coating, said front face of said body having a coating of opaque material thereon in the spaces between said front protuberances, said holder member including a body portion and a back plate member, said holder body having a plurality of apertures therein, said holder including flanges extending into the apertures near the front face of the holder, one of said light reflector members being positioned in each of said apertures with the flange of the reflector member positioned in an aperture and engaging the flange of the aperture and with said front protuberances extending beyond the front face of said holder body, said back plate member being secured on the rear of said holder body and extending over the apertures and a resilient member positioned in each of said apertures between said back plate and said light reflector members.

3. A light reflector including a glass body portion having a plurality of closely arranged projecting convex lens protuberances arranged in rows on one face thereof to form characters and a plurality of closely arranged projecting convex lens protuberances also arranged in rows on the other face of said body opposite said first mentioned face, said protuberances on one face being aligned in pairs with those on the other face, said protuberances on both faces of the body being spaced apart from each other, said body including a dark coating between said first mentioned protuberances, said other face of said body having a reflecting coating thereon covering said second mentioned protuberances, a coating of opaque material overlaying said reflecting coating.

RAYMOND H. OSBRINK.