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LANTERN REFLECTOR

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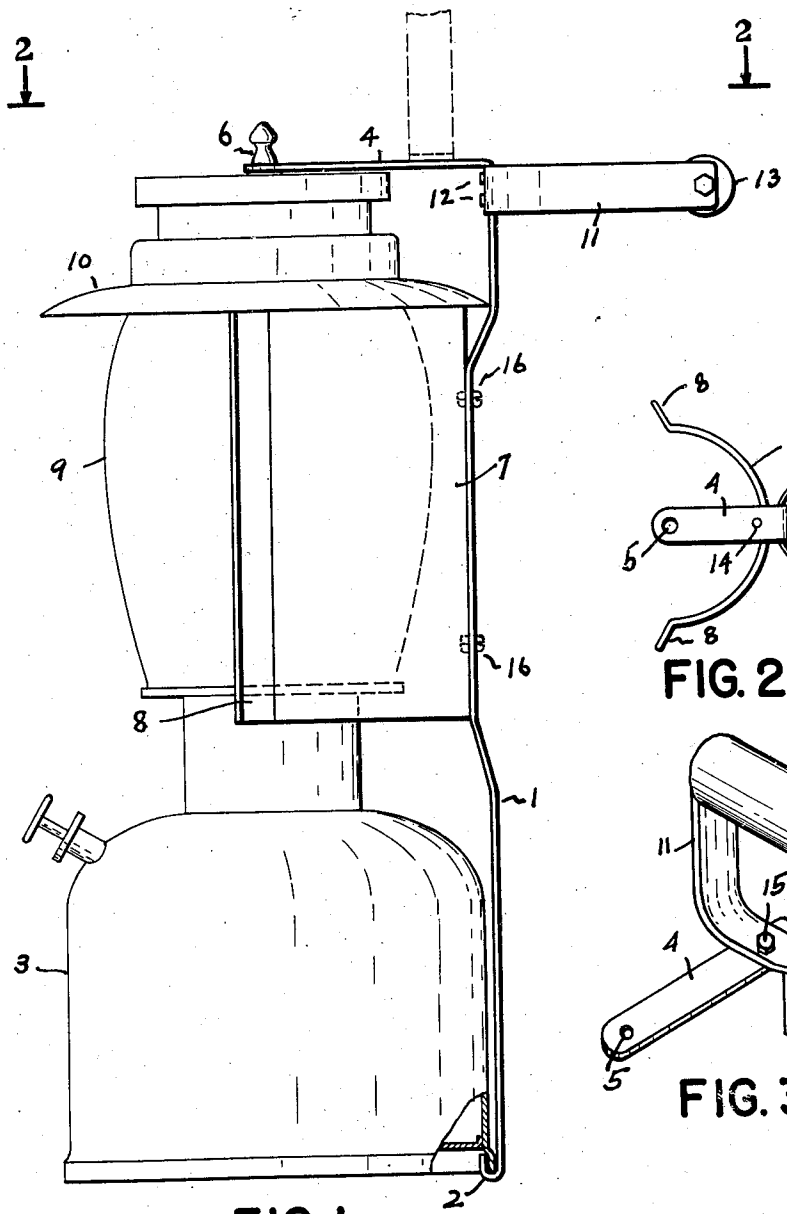



FIG. 1




FIG. 2




FIG. 3

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## LANTERN REFLECTOR

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1 Claim. (Cl. 240—52)

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This invention relates to a lantern reflector.

An object of the invention is to provide a reflector of the character described that may be readily attached to and detached from a conventional type of lantern.

Another object of the invention is to provide a lantern reflector of the character described which is equipped with a handle, or grip member, that may be readily adjusted to either horizontal, or vertical, position.

It is a further object of the invention to provide a reflector of the character described shaped to partly surround a lantern globe and which has forwardly diverging lateral wings which increase the lighting efficiency.

With the above and other objects in view the invention has particular relation to certain novel features of construction, arrangement of parts and use, an example of which is given in this specification and illustrated in the accompanying drawings, wherein:

Figure 1 is an elevational view of the reflector as applied to a lantern.

Figure 2 is a reduced plan view on the line 2—2 of Figure 1.

Figure 3 is a fragmentary, enlarged, perspective view showing the handle, or grip member, in vertical position.

Referring now more particularly to the drawings wherein like numerals of reference designate the same parts in each of the figures, the numeral 1 designates the reflector frame which comprises a single vertical bar whose lower end is inwardly retracted forming a hook 2 which is engageable over the bottom rim of the lantern 3, as clearly illustrated in Figure 1, and whose upper end is overturned at right angles forming an arm 4 whose free end is provided with an opening 5. This arm overlies the top of the lantern and a set bolt 6 is fitted through the opening 5 and screwed into the top of the lantern to secure the frame to the lantern.

The numeral 7 designates a reflector which is substantially semi-circular in horizontal cross-sectional contour and whose free margins are formed into outwardly diverging wings 8, 8 extending from the upper to the lower ends thereof. The forward faces of the reflector and wings are formed with bright reflecting surfaces. The reflector 7 is secured to the frame, or bar, 1 and is of a length to extend from slightly beneath the lantern globe 9 up to the hood 10 of the lantern. The frame, or bar, 1 is slightly offset outwardly, at its respective ends, to clear the globe 9 and the

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hood 10, as shown in Figure 1, and the reflector 7 is curved on a larger radius than the radius of globe 9 so that the reflector will be spaced the required distance from the globe.

There is a U-shaped handle 11 whose cross-bar may be attached to the upper end of the bar 1, beneath the arm 4 by clamp bolts, as 12, and between the ends of the side bars of the handle there is a suitable grip member 13. This arrangement of the handle will cause the lantern to tilt at the correct angle to throw the light downwardly and forwardly.

However, the handle may be arranged in vertical position if desired, as indicated in Figure 3, by loosening the clamp bolts 12. For this purpose the arm 4 is provided with a hole 14 to receive a clamp bolt, as 15, by means of which the handle may be secured to the arm 4 so that the lantern may be held more nearly in a vertical position.

The frame 1 and reflector 7, with its wings 8 may be composed of any suitable material, preferably a durable metal and the reflector may likewise be formed of any suitable material preferably Monel metal. The grip member 13 will preferably be composed of hard wood although it may be made of other material is desired.

It is to be here noted that the reflector is secured to the bar, or frame, 1 by clamp bolts 16, 16 so that by removing said clamp bolts 16 and the clamp bolts fastening the handle to the frame the parts may be readily separated for convenience in packing and shipping.

The drawings and description are illustrative merely while the broad principle of the invention will be defined by the appended claim.

What we claim is:

A lantern reflector comprising, a single vertical bar whose lower end is inwardly retracted forming a hook adapted to engage over the bottom rim of a lantern and whose upper end is overturned at right angles forming an arm adapted to overlie the top of a lantern and whose free end is provided with an opening to receive a set bolt to secure said arm to the top of the lantern, a reflector formed of thin material and substantially semi-circular in horizontal cross-sectional contour and whose free side margins are formed into outwardly diverging wings, the forward surfaces of the reflector and wings being reflecting surfaces, means securing the reflector to the bar, said reflector being of a length to extend from slightly beneath the lantern globe up to the hood of the lantern, said bar being slightly offset at its respective ends to clear the globe and hood

of the lantern, a U-shaped handle having a cross bar attached to said vertical bar beneath said arm, a grip member between the free ends of the U-shaped handle and means for securing the handle to the vertical bar either in horizontal or vertical position.

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RALPH D. DAVIDSON.

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