

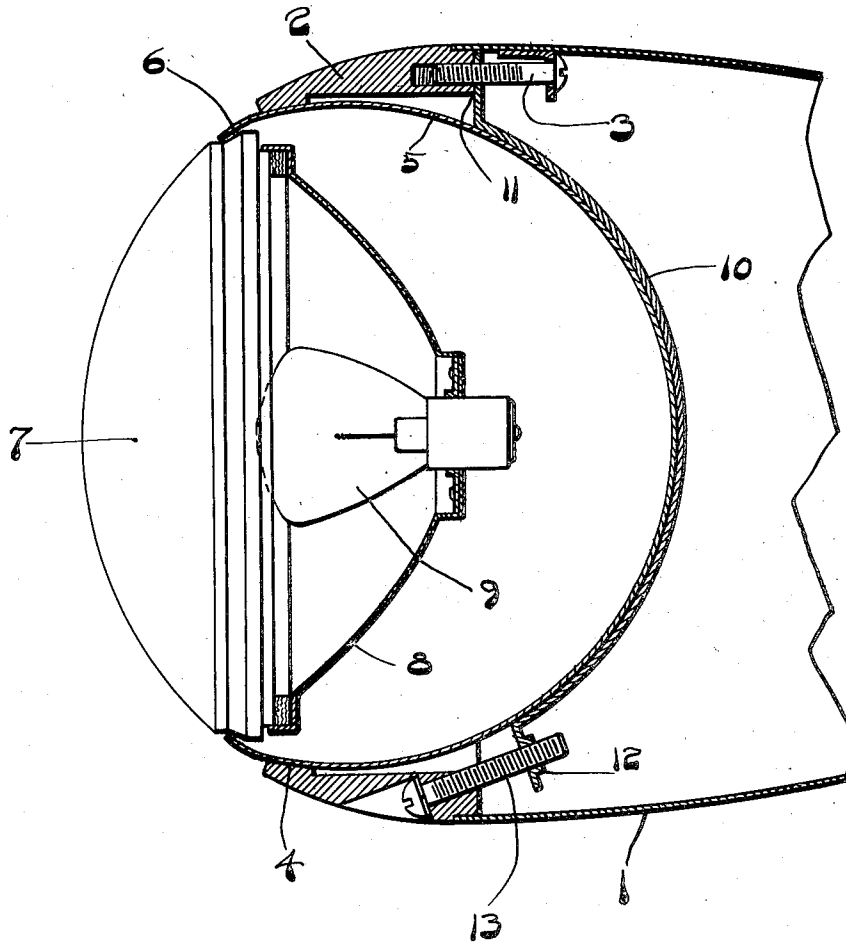
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R. W. JOHNSON

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ADJUSTABLE LAMP

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INVENTOR.

BY *Roy W. Johnson*
Eger & Eger
ATTORNEYS

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ADJUSTABLE LAMP

Roy W. Johnson, Wyoming, Ohio, assignor to
The Corcoran-Brown Lamp Company, Cin-
cinnati, Ohio, a corporation of Ohio

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2 Claims. (Cl. 240—41)

The lamp herein set forth is designed primarily for automobile use, although it is equally adaptable to other uses wherein critical directioning or aiming of the light beam is essential to the proper functioning of the lamp for the purposes for which it may be designed.

An object of my invention is to produce a lamp which is novel in its structural features wherein aiming is accomplished within itself in an improved manner for accurate adjustment, easy adjustment, positive locking in adjusted positions, and without changing the appearance of the lamp within itself or the relationship of the lamp relatively to the vehicle or other mounting machine or agency with which the lamp is to be used.

In automobile use the lamp is especially adaptable in that present design tendencies dictate built-in structural relationship of the nonadjustable portions of the lamp. Such a condition precludes the necessary aiming of the lamp to direct its projected light beam correctly to meet the requirements of lighting regulations, unless some suitable provisions be made to obtain such adjustments, preferably within the lamp itself.

The single figure of drawing illustrates fragmentally and in section an example of lamp construction embodying my invention.

A lamp to embody my invention may consist of a basic inclosing element such as a shell 1 which is of the conventional shape or which may be a portion of a vehicle body, radiator, fender, nacelle, fuselage, or wing. As a clamping element which may partake of the shape of the element 1, a ring 2 may be provided at the forward edge, which ring may be of solid or sheet metal formation and which may be a part of the element 1, or separate therefrom as shown. If separately provided, suitable attaching means such as screws 3, may be provided around the inside of the element 1.

The forward portion of the ring 2 may be shaped internally, as at 4, to fit the outer surface of an open ended body 5 which is spherically formed, at least adjacent to its open end, which will operate against the surface 4 as a ball in a socket. The front of the body has a rim 6 which may retain a lens 7, somewhat as shown, the interior of the body 5 containing the usual reflector 8 and lamp bulb 9. Details of the mounting of these elements 7, 8 and 9 are not shown or described since they do not constitute a part of this invention.

In order that the ball-like lamp structure may be held in place and locked in adjusted positions within the ring 2, against the socket surface 4 thereof, I have provided a body-hugging strap or cup-like clamping member 10, preferably fastened at its upper end 11 and having tightening connection at its lower end 12 with a screw 13 or other tightening device which may be accessible exteriorly, whereby adjusted positions of the ball-like body 5 is assured.

Obviously, the embodiment I have illustrated and described is but exemplary of the invention I have made and which is expressed in the following claims.

Having thus described my invention, I claim:

1. An adjustable lamp structure consisting of a lamp unit having an open-ended body, said body having a substantially spherically shaped surface, a substantially ringlike socket occupying the spherical body in a plane normal to the body axis, a strap fixed at one end to the socket, extending in a plane normal to the socket and in engagement with the lamp surface substantially from said fixed end throughout the length of said strap, and means attaching the opposite end of the strap to the socket at a point opposite to the fixed attachment thereof with the socket, said means adapting said opposite end to adjustment whereby the strap may be tightened to grip the body and clamp it within the socket to maintain adjusted positions of the body therein.

2. An adjustable lamp structure consisting of a movable lamp unit having an open-ended body, said body having a substantially spherically shaped surface, and a fixed harness consisting of two elements, one element substantially embracing said body in a zone about the open end of the body, and the other element embracing said body in a zone right angularly disposed to said first mentioned zone, the latter harness element functioning in its gripping of the second mentioned zone to cause said first mentioned harness element to grip the body in said first mentioned zone, and jointly therewith frictionally to maintain adjusted positions of the body within the socket, and means at the ends of the latter mentioned harness element connecting and adjusting it relatively to the first mentioned harness element to accomplish said stated functions.

ROY W. JOHNSON.