Dec. 30, 1947. R. R. DUPLER 2,433,747

ILLUMINATED GLOBE STRUCTURE

Filed April 11, 1944

Fig. 3.

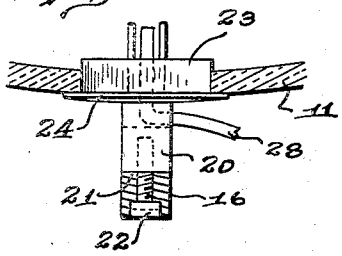


Fig. 1.

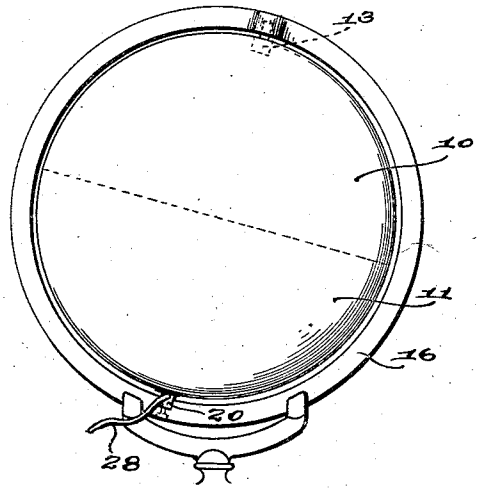
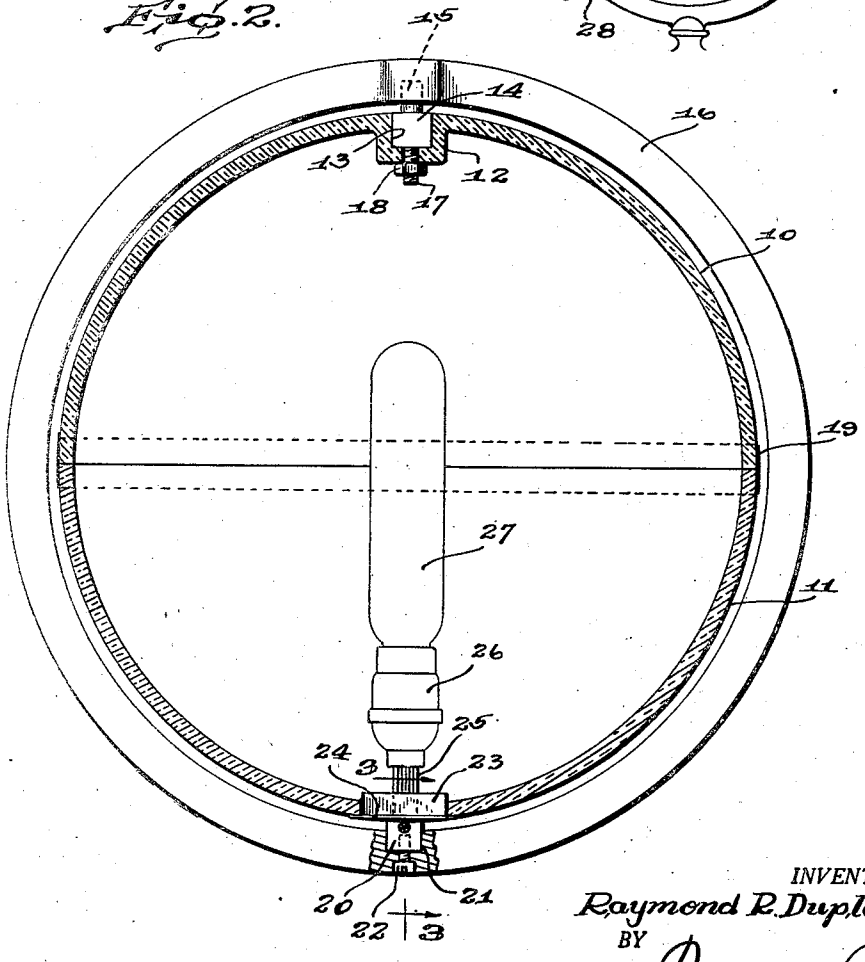


Fig. 2.



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ILLUMINATED GLOBE STRUCTURE

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3 Claims. (Cl. 240—2)

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This invention relates to illuminated globes such, for example, as globes having a source of light on the inside and the outside covered by translucent terrestrial or celestial maps, and an object is to produce a new and improved illuminated globe structure in which the globe is in the form of two hemispherical shells, the globe being supported by either a full meridian ring or semi-meridian ring by simple and efficient means.

Other objects and advantages will hereinafter appear and for purposes of illustration but not of limitation, an embodiment of the invention is shown in the accompanying drawings in which

Figure 1 is a side elevation of the illuminated globe structure;

Figure 2 is an enlarged vertical sectional elevation of the globe and meridian ring; and

Figure 3 is an enlarged transverse sectional view substantially on the line 3—3 of Figure 2.

The illustrated embodiment of the invention comprises a globe in the form of two hemispherical shells 10 and 11. The shells 10 and 11 are preferably of glass but may be of any suitable transparent or translucent material. In the region of the north pole the shell 10 is formed with an inwardly extending post 12 having an outwardly opening socket 13 which may be of any desired shape. Fitting within the socket 13 is a block 14 which may be of metal, and adhesive such as glue may be employed for fastening or cementing the block within the socket. Integral with the block 14 and projecting outwardly therefrom is a cylindrical post 15 which extends into an aperture or socket formed in a full meridian ring 16. It will be observed that the outer side of the block 14 is flush with and conforms to the adjacent peripheral surface of the shell 10.

In order to insure that the block will be held securely in position, it is provided with a screw-threaded shank 17 which extends through an aperture in the bottom wall of the socket 13. A nut 18 engages the shank 17 to hold the block securely in place.

The two shells 10 and 11 are secured together at their abutting edges by a strip 19 of transparent adhesive tape commercially known as Scotch tape. Obviously the light rays from the inside of the globe pass through the Scotch tape and when the same is covered by a map or some decorative design, the same will be obscured from view and will not be noticeable. Tape of this character possesses substantial strength sufficient to hold the two shells in the desired relation.

At the opposite end or south pole of the globe

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is a combined lamp bracket and globe support which has a block 20 of polygonal cross section. The block 20 fits a notch 21 on the inner side of the meridian ring 16 and this notch is open at opposite sides so that the block may be slipped laterally in one direction or the other as desired. A screw 22 extends through the opening in the meridian ring and threadedly engages the block 20 thereby to hold the same in the desired position. Mounted on the block 20 is a ring 23 which extends into and fits an opening formed in the shell 11. On the lower end of the ring 23 is an outwardly extending flange cap 24 which engages the outer side of the shell 11 in the region adjacent to the edge of the hole.

Suitably secured to the ring 23 and projecting inwardly therefrom inside of the globe are fingers 25 which support a lamp socket 26 carrying an elongated lamp bulb 27. The wiring 28 for the lamp passes through an opening in the side of the block 20 and thence upwardly between the fingers 25 to the socket 26.

From the above description it will be manifest that I have produced an exceedingly simple and practical globe assembly enabling the use of hemispherical shells which can be more readily produced than the one-piece globe. The shells can be readily molded and the attaching or mounting parts quickly and easily applied. When it is desired to detach the globe from the ring 16, it is merely necessary to loosen the screw 22 and then bodily shift the block 20 and its adjacent parts laterally clear of the notch 21. This rocking action is possible due to the mounting of the post 15 in its aperture or socket. Thereafter, the lamp bulb 27 can be readily replaced if necessary. The structure is such that it can be simply and inexpensively produced and the assembly problems reduced to a minimum.

It is to be understood that numerous changes in details of construction, arrangement and operation may be effected without departing from the spirit of the invention especially as defined in the appended claims.

What I claim is:

1. Illuminated globe structure comprising a globe in the form of a pair of hemispherical shells, means for adhesively joining said shells, one shell having an inwardly extending socket, a block within said socket having an outwardly projecting post, means for securing said block within said socket, an arcuate mounting for said globe having a socketed portion to receive said post, said arcuate mounting having a notch arranged diametrically opposite said socketed por-

tion, opposite sides of said notch being open, a combined lamp socket and globe support mounted in said notch, and a fastener for detachably securing said support to said mounting, whereby upon loosening said fastener, the support may be bodily moved from said arcuate mounting and then the post slipped out of its socketed portion.

2. Illuminated globe structure as claimed in claim 1, wherein the means for securing the block in the socket comprises a threaded shank depending from said block through an aperture in the bottom of said socket, and a nut on the inside of said shell engaging said shank.

3. Illuminated globe structure as claimed in claim 1, in which said combined lamp socket and globe support comprises a polygonal block fitting said notch for preventing turning of the block; a flanged ring on said block with the flange thereof engaging the outer side of the respective shell and the ring extending into an opening in the shell, a lamp socket on said ring and projecting inside of the globe, and a screw in said arcuate mounting in screw-threaded engagement with said polygonal block.

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