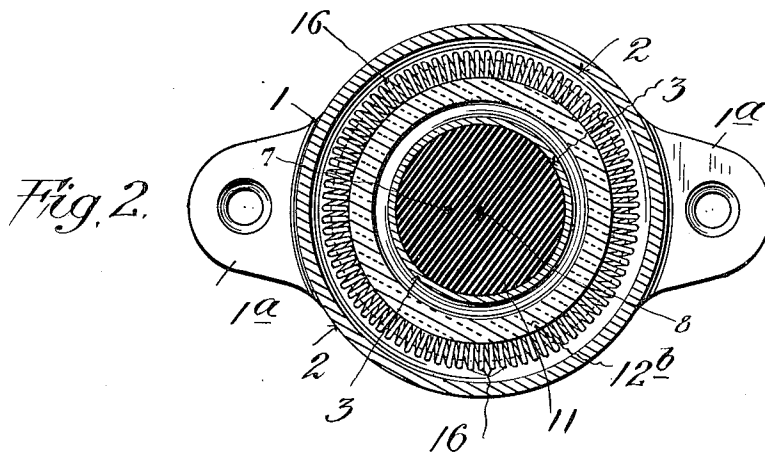
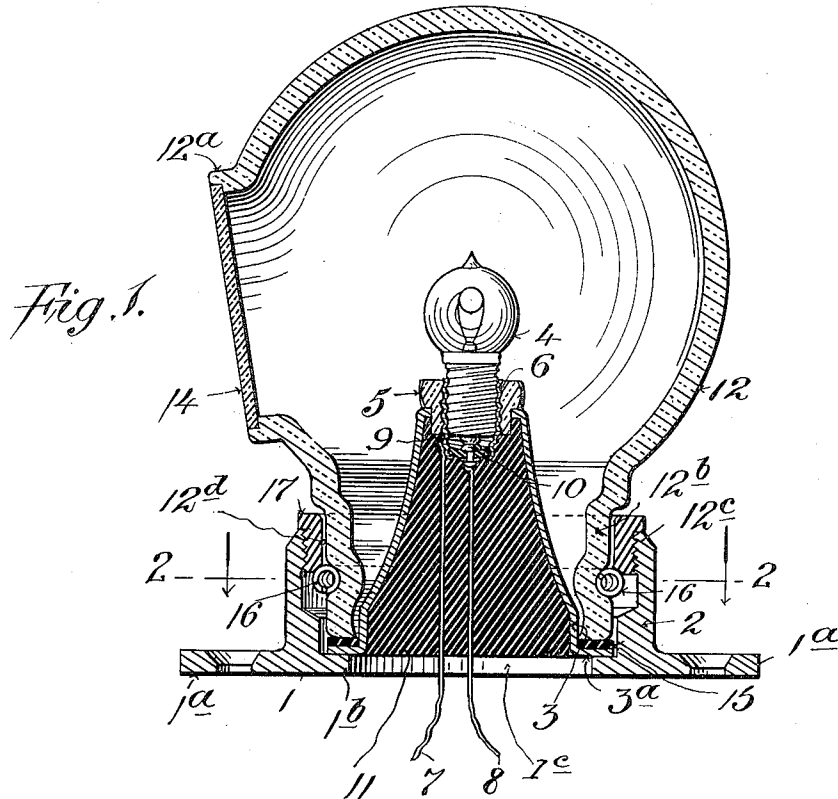


A. K. MILLER.
ELECTRIC SIGNAL LAMP.
APPLICATION FILED DEC. 20, 1912.

1,064,515.

Patented June 10, 1913.



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UNITED STATES PATENT OFFICE.

ARTHUR K. MILLER, OF PEEKSKILL, NEW YORK.

ELECTRIC SIGNAL-LAMP.

1,064,515.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed December 20, 1912. Serial No. 737,792.

To all whom it may concern:

Be it known that I, ARTHUR K. MILLER, a citizen of the United States, and resident of Peekskill, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Electric Signal-Lamps, of which the following is a specification.

My invention relates to an improved construction of electric signal lamps, and pertains more particularly to tail lamps for motor cars.

The object of my invention is to provide a simple and efficient tail lamp construction having a small number of parts, which may be easily adjusted and readily replaced by the user in case of damage; and also to provide an electric rear signal lamp for motor cars having a bracket adapted to be attached to the car and to which bracket a globe is adapted to be directly attached in such manner that the globe may be rotated to any desired position to throw a white light on a license number irrespective of the location of the latter on the back of the car. For automobile tail lamps I provide the globe with the longer segment or major arc thereof of red color, to show a signal from the greatest number of angles of approach, as when the car is turning either around a corner or in the road, a clear pane of glass of the globe through which the white light shows being placed substantially across the transverse axis of the globe, whereby the white light may be directed to desired position by merely rotating the globe on the bracket and securing the parts together.

In carrying out my invention I provide a bracket adapted to be attached to any desired part of the motor car, such as at the rear, a support for a lamp carried by the bracket and projecting into or through a chamber on one side of the bracket, a protecting globe for such lamp having a neck rotatively fitted to said chamber, said globe having a clear pane of glass on one side and means for retaining the globe in set position upon the bracket. In the particular embodiment of my invention illustrated in the accompanying drawings, I provide the neck of the globe with a groove containing a ring, and upon said neck, between the globe and the ring, is rotatively mounted a nut adapted to engage threads upon said

bracket, which ring retains the nut upon the neck and serves with the nut to retain the neck upon the bracket. By preference said ring is made resilient, and the end of the neck fits against a resilient gasket whereby the neck is held firmly, yet resiliently, upon the bracket, thereby affording an airtight and dust proof joint between the neck and the bracket. I have also shown the support for the lamp as made hollow, through which the lamp terminals pass, and which support is filled with insulating material, whereby, in conjunction with the tight fit of the neck against the gasket, the interior of the globe is rendered dust-proof to keep the inner wall of the globe and the glass pane clean.

My invention further comprises novel details of improvement and combinations of parts that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming part hereof, wherein,

Figure 1 is a vertical section of an electric lamp embodying my invention, and Fig. 2 is a section on the line 2, 2, in Fig. 1.

In the drawings the numeral 1 indicates a bracket shown provided with apertured extensions 1^a for securing the same in position, which bracket is provided on one side with a chamber or socket 2 in which is fitted a support 3 for an electric lamp 4. The support 3 is shown provided with an annular flange 3^a bearing against an inner flange 1^b of bracket 1. At the outer end of support 3, which is shown in hollow form, is an insulating block 5 having threads receiving corresponding threads on the lamp socket 6, to which the threaded base of the lamp is detachably connected. To socket 6 a conductor 7 is secured, and a conductor 8 is connected to a terminal 9 carried by socket 6 and insulated therefrom by insulation 10. Within support 3 is insulation 11 serving to secure the parts 5, 6, 7 and 8 firmly in support 3. The bracket has opening 1^c for the passage of conductors 7, 8. By the means described the lamp is made water and dust-tight and chafing and short circuiting of the wires 7, 8, is prevented, since the gasket being clamped at the inner end of the neck and the insulation filling support 3, serve to prevent the entrance of dust and water, and insulation firmly embedding

the wires 7, 8, serves to prevent them from chafing under vibration and prevent short circuiting.

At 12 is a glass globe shown in substantially spherical form, and having a pane of glass 14 at one side secured to a hub 12^a on globe 12. The globe 12 is shown provided with a neck 12^b adapted to fit within chamber 2 and to bear against a gasket 15 shown resting upon flange 12^c of support 3. Neck 12^b has an exterior annular groove 12^c receiving a resilient ring 16. Ring 16 is shown in the form of a spiral wire winding, made endless by joining its ends together, and adapted to be sprung into groove 12^c for retaining said ring upon neck 12^b. At 17 is a nut fitted upon the annular portion 12^d of neck 12^b, between ring 16 and the globe, whereby said nut is free to rotate upon the neck and is retained rotatively thereon by ring 16. Said nut is shown provided with exterior threads adapted to engage interior threads upon chamber 2.

Globe 12 may be made of any desired color, such as red or green, for indicating corresponding signals, or may be clear glass coated on the inside with any desired coloring material, and the glass 14 may be clear, whereby a white light from glass 14 may be thrown in a particular direction, such as upon a license plate on an automobile, while the contrasting color of globe 12 may indicate danger, or other desired signal, particularly where such globe is of red color. The pane 14 may be of flat glass or a lens, and may be cemented in the neck 12^a, or otherwise attached to the globe, or may be made in a single piece with the globe, where the globe is of substantially clear glass stained on the inside to produce the desired signal color effect.

To assemble the parts support 3 is placed within chamber 2 as shown in Fig. 1, gasket 15 being placed upon flange 3^a, then the neck of the globe, carrying ring 16 and the nut 17, is placed into the chamber and the nut screwed to the chamber so that the inner end of the nut bears upon ring 16, thereby forcing the inner end of the neck against the gasket and holding the parts firmly together. By means of the resilient ring 16 the pressure of nut 17 is transmitted resiliently to the glass of neck 12^b, and hence by such means in conjunction with the flexible gasket 15 the globe is resiliently supported upon the bracket to prevent fracture by pressure of the parts, vibration, etc. It also will be understood that by means of my improvements the globe may readily be adjusted in a circular direction to any desired angle or position, so that the light from glass pane 14 may be projected at any desired point around the axis of the globe and bracket. Furthermore, by means of such universal adjustment of the globe with re-

spect to the bracket 1 the latter may be secured in any desired position, as upon the top, side or rear portion of the frame or body of an automobile, without requiring any additional support for such bracket, although, of course, the bracket 1 may be attached to a support secured upon the automobile. Likewise, my improved lamp may be secured upon any desired portion of a car or other vehicle where it is desired to use the lamp.

Having now described my invention what I claim is:—

1. An electric tail lamp comprising a bracket, a support for an electric lamp, a globe having a neck adapted to receive said support, said globe being provided with a clear pane, a nut rotatively mounted upon said neck, and means on said neck to retain said nut thereon for securing said globe upon said bracket.

2. An electric tail lamp comprising a bracket, a support for an electric lamp, a colored globe having a neck adapted to receive said support, said globe being provided at one side of the axis of the globe and neck with a clear pane, a nut rotatively mounted upon said neck, and means on said neck to retain said nut thereon for securing said globe upon said bracket.

3. An electric tail lamp comprising a bracket, a hollow support for an electric lamp provided with means to retain a lamp thereon, conductors extending through said support from said retaining means, insulation within said support embedding said conductors, a globe having a neck receiving said support, and means for detachably retaining said globe upon the bracket.

4. An electric tail lamp comprising a bracket having a chamber on one side communicating with an opening in line with said chamber, a hollow support upon the bracket, a lamp socket carried by the support, conductors extending through the support from said socket, insulation within the support embedding said conductors, said conductors passing through said opening in the bracket, a globe having a neck receiving said support, and means for detachably retaining said globe upon the bracket.

5. An electric tail lamp comprising a bracket having a chamber on one side communicating with an opening in line with said chamber, a hollow support upon the bracket, a lamp socket carried by the support, conductors extending through the support from said socket, said conductors passing through said opening in the bracket, a globe having a neck receiving said support, a nut rotatively mounted upon the neck, means for retaining the nut upon the neck, and means for detachably connecting the nut with said chamber for retaining said globe adjustably upon the bracket.

6. A lamp comprising a bracket provided with a chamber, a support for an electric lamp projecting within said chamber, a globe having a neck fitted within the chamber, a nut fitted upon and carried by said neck and having threads to coact with threads supported by said bracket, and resilient means carried upon said neck and interposed between the globe-neck and the nut to retain the nut upon said neck and the globe in position.

7. A lamp comprising a bracket having a chamber on one side and having an interior flange, a support for an electric light having a flange to fit upon the first named flange, a globe having a neck fitting said chamber and opposed to said flanges, a nut rotatively fitted upon said neck, said neck being provided with a groove, and a resilient ring within said groove opposed to the inner end of said nut, said nut and chamber having threads for retaining the nut thereon and holding the nut against said ring.

8. A lamp comprising a bracket having a chamber on one side and having an interior flange, a support for an electric lamp having a flange to fit upon the first named flange, a globe having a neck fitting said chamber and opposed to said flanges, a nut rotatively fitted upon said neck, said neck being provided with an annular groove, a ring comprising a spiral winding fitted in said groove, said nut and chamber having threads to retain the nut on the chamber, said nut

bearing against said ring to hold the neck upon said flanges to retain said globe and support upon said bracket.

9. A lamp comprising a bracket having a chamber on one side and having an interior flange, a support for an electric lamp having a flange to fit upon the first named flange, a globe having a neck fitting said chamber and opposed to said flanges, a nut rotatively fitted upon said neck, said neck being provided with an annular groove, a ring comprising a spiral winding fitted in said groove, said nut and chamber having threads to retain the nut on the chamber, and a gasket interposed between the flange of said support and the inner end of said neck, said nut bearing against said ring to hold the neck upon said gasket to resiliently retain said globe and support upon said bracket.

10. A lamp comprising a bracket provided with threads, a substantially spherically shaped globe having a neck provided with a groove, a resilient ring fitted on said neck in said groove, and a nut rotative upon and carried by said neck between the ring and globe and adapted to retain said globe adjustably upon said bracket.

Signed at New York city, in the county of New York, and State of New York, this 14th day of December, A. D. 1912.

ARTHUR K. MILLER.

Witnesses:

T. F. BOURNE,

RALPH H. RAPHAEL.