

C. E. GODLEY.

LAMP.

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1,308,012.

Patented June 24, 1919.

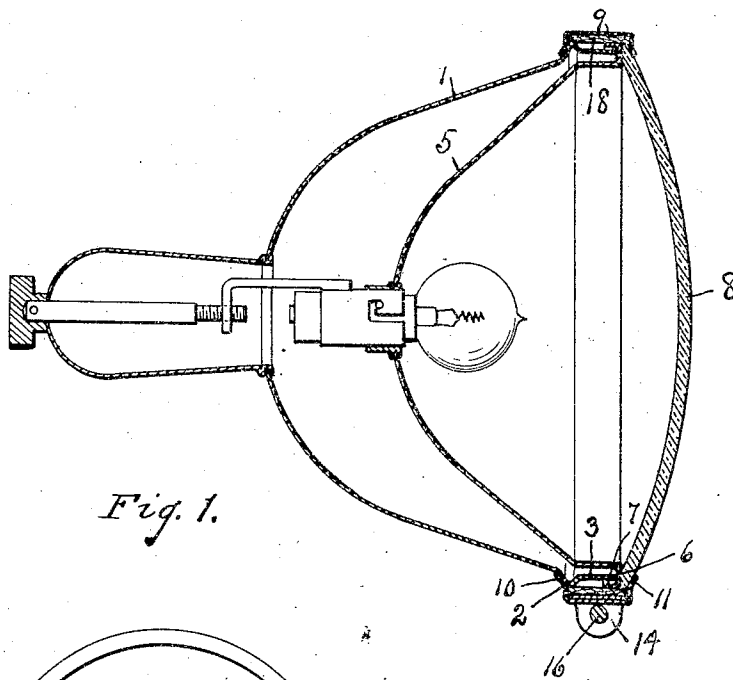


Fig. 1.

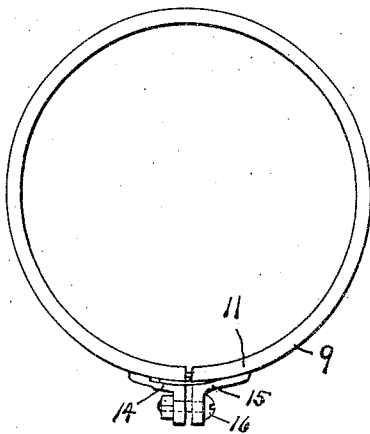


Fig. 2.

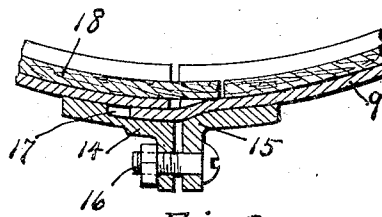


Fig. 3.

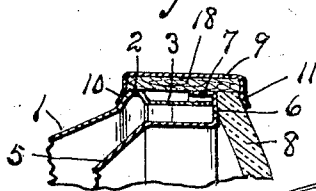


Fig. 4.

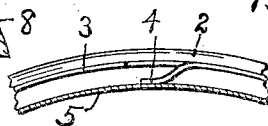


Fig. 5.

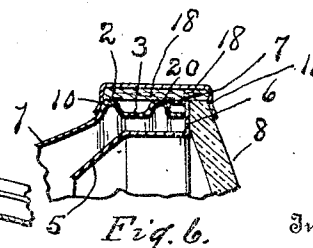


Fig. 6.

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LAMP.

1,308,012.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES E. GODLEY, a citizen of the United States, and residing at Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Lamp, of which the following is a specification.

This invention consists in means for securing the glass or lens to the body of a lamp of the headlight type, and its objects are to provide means for forming a substantially rain and dust tight joint between the lens and lamp body, to provide a positive mounting for the reflector of a lamp of this character whereby the reflector shall be properly positioned without the use of springs, to provide a lamp with a connecting device between the lens and body which will permit of all the parts being readily removed and replaced, and to provide a construction of this character which can be made accurate and interchangeable at minimum cost.

This invention consists, in combination with a cup-shaped lamp body having an external bead or rib near its open end, of a cup-shaped reflector mounted in said body, a lens positioned to close the open end of the body, and a band extending around the edge of the lens and the end of the body and having flanges lying against the outer face of the lens and against the external bead on the body.

It further consists in a strip of cork, paper, felt or other yieldable material fitting within the band and against the edge of the lens and against the rib on the body to prevent rain and dust from entering.

It also consists in the details of construction illustrated in the accompanying drawing and particularly pointed out in the claims.

In the drawing, Figure 1 is a central longitudinal section of this improved lamp. Fig. 2 is a front view of the locking band. Fig. 3 is a transverse section of the locking band. Fig. 4 is an enlargement of the upper right corner of Fig. 1. Fig. 5 is a view illustrating the tongue to position the reflector. Fig. 6 is a view similar to Fig. 4 of a slightly modified form of lamp body.

Similar reference characters refer to like parts throughout the several views.

The cup-shaped body 1 is shown to have a circumferential bead or rib 2 near its outer edge 3 which may be cut at intervals to per-

mit the tongues 4 to be bent inwardly to prevent the reflector 5 from rattling. It will be understood, however, that this invention is not limited to bodies having cylindrical ends or to bodies having continuous beads or ribs, for the ends of the bodies may be of any desired form and the bead or rib of intermittent sections. The reflector is also cup-shaped and has an outwardly turned flange 6 which may or may not have a cylindrical edge 7, as desired. The lens 8 is of any desired type and is substantially of the same diameter as the edge 7 of the reflector.

A locking band 9 of sheet metal extends around the end of the lamp and has inclined edge flanges 10 and 11 that engage the rib or bead 2 and the face of the lens so that when the band is contracted, the lens is pressed against the flange 6 of the reflector and flange 6 is pressed against the end of the edge 3 of the body. As the thicknesses of the lens and of the flange 6 are predetermined and the locking ring and its flanges are rolled accordingly, the only machining necessary outside of the punch-press work is to fix the length of the cylindrical edge 3 of the body measured from the rear of the bead or rib 2.

While any desired means may be employed to connect the ends of the locking band and to tension it, I prefer small brackets 14 and 15 secured to the ends of the band and a bolt 16 to draw them together. The bracket 14 may have a notch 17 so that the ends of the band may be lapped and the opposite end of the band may be drawn into this notch so as to substantially prevent the entrance of rain.

A packing strip 18 of indurated felt, cork, rubber, leather or other suitable, slightly yieldable material may be placed within the band and pressed thereby against the rib or bead 2 on the body 1, against the cylindrical edge 7 of the reflector and against the edge of the lens. This strip will not only serve to position the lens and reflector, but will also serve to exclude rain and dust. As indicated in Fig. 3, the strip will "break joints" with the band. It is evident that this band may be employed to secure lenses to bodies in which separate reflectors are not used.

If desired, a second bead 20 may be formed on the cylindrical end 3 of the body to engage the strip 18 adjacent the edge of the

reflector. Many other changes in the details and proportions of this device may be made by those skilled in the building of lamps without departing from the spirit of my invention as set forth in the following claims.

I claim:—

1. In a lamp, the combination of a body having a circular open end and a circumferential outwardly sloping shoulder adjacent said end, a lens closing said open end, and a locking band extending around the end of the lamp and the edge of the lens and having inwardly extending flanges at its edges inclined away from each other, means to draw the ends of the band together, one of said flanges engaging the back of said shoulder on the body and the other engaging the front face of the lens to draw the lens toward the body when the ends of the band are drawn together.

2. In a lamp, the combination of a body having a circular open end and a circumferential outwardly sloping shoulder adjacent said end, a lens closing said open end, a locking band extending around the end of the lamp and the edge of the lens and having

inwardly extending flanges at its edges inclined away from each other, means to draw the ends of the band together, one of said flanges engaging the back of said shoulder on the body and the other engaging the front face of the lens to draw the lens toward the body when the ends of the band are drawn together, and a cylindrical strip of yieldable material within the band extending around the circumference of the lens and the end of the body and adapted to be pressed against the edge of the lens.

3. In a lamp, the combination of a cup-shaped body having a circular open end and a circumferential outwardly sloping shoulder adjacent thereto, a lens closing said open end, and a locking band extending around the end of the lamp and having overlapping ends and inwardly extending flanges at its edges inclining away from each other, brackets secured to said band near its ends and a screw to draw the brackets together, one of the flanges engaging the shoulder on the body and the other the face of the lens to draw the lens toward the body when the band is drawn together by said screw.

CHAS. E. GODLEY.