W. F. ANKLAM.

LAMP.

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Patented Nov. 12, 1912.

1,043,791.

Fig 1

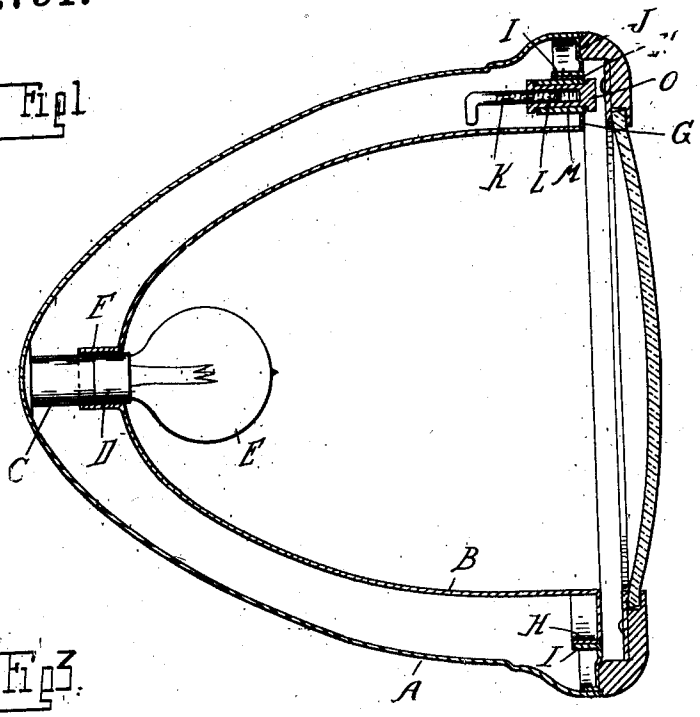


Fig 3.

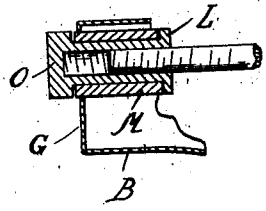
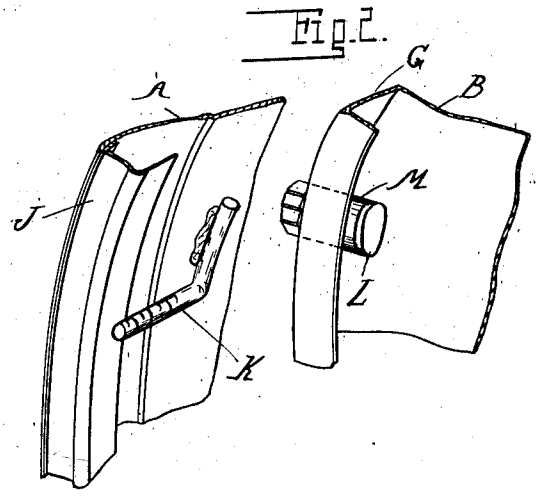


Fig 2.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM F. ANKLAM, OF DETROIT, MICHIGAN, ASSIGNOR TO C. M. HALL LAMP COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

LAMP.

1,043,791. Specification of Letters Patent. Patented Nov. 12, 1912.

Application filed March 16, 1912. Serial No. 684,218.

To all whom it may concern:

Be it known that I, WILLIAM F. ANKLAM, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Lamps, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to lamps of that type in which the illuminant is placed at the focus of a parabolic reflector and more particularly to lamps employing incandescent electric bulbs. With such constructions it is necessary to adjust the position of the bulb with respect to the reflector to secure the proper focus, the lamp filaments varying in position.

The present invention relates to a novel construction of means for adjusting the focus, which broadly described consists of an adjustment for the parabolic reflector with respect to the bulb and lamp casing which are in relatively fixed position, thereby avoiding the necessity of flexing electrical connections to the bulb.

The invention further consists in the construction of means for guiding and adjusting the reflector and further in various details of construction as hereinafter set forth.

In the drawings,—Figure 1 is a central longitudinal section through the lamp; Fig. 2 is a perspective view showing portions of the lamp case and reflector detached; Fig. 3 is a section through the adjusting means.

A is the outer casing of a lamp which is preferably of parabolic form and B is the parabolic reflector arranged within the outer case.

C is a guide post arranged at the center of the outer case and secured thereto, said post being hollow and forming a lamp D with which the electric bulb E is engaged. The outer surface of this post is cylindrical and forms a guide for engaging a flange or sleeve F upon the reflector B permitting of a relative longitudinal movement. The outer end of the reflector has a slidable engagement with the case which as shown, is formed by providing an outwardly extending disk flange G on the reflector terminating in a rearwardly extending cylindrical flange H, the latter slidably engaging a cylindrical flange I upon the disk flange J secured to the outer case.

K is a screw-threaded stud extending parallel to the axis of the case and post C and secured at its rear end to the wall of the case. This stud passes into engagement with the rotary nut L which is journaled in a bearing M secured to the flange G of the reflector, the arrangement being such that by rotating the nut L the reflector is moved outward or inward sliding upon the post C and flange I.

O is a thumb piece on the outer face of the flange G secured to the nut L and forming a means for rotating the same.

The lamp is provided with a suitable door with transparent panel and the lining of this door is arranged to abut against the flange J, preferably having a stepped engagement therewith and providing clearance at the point opposite the thumb piece O.

In use, when the door of the lamp is closed the reflector can not be adjusted, which prevents unauthorized tampering with the same. When however, it is desired to adjust the reflector to properly focus the lamp, or to throw it out of focus where a less intense light is required, this may be done by opening the door and revolving the thumb piece O.

The bulb E is engaged in the socket D and the latter is provided with any suitable electrical connections (not shown) and as the socket is always in fixed relation to the outer case, no provision is required for flexible connectors.

What I claim as my invention is:

1. In a lamp, the combination with a case, of a post extending axially within said case and secured thereto, a lamp socket within said post, a parabolic reflector sleeved upon said post, a bearing with which the outer end of said reflector is slidably engaged, and means for adjusting said reflector.

2. In a lamp, the combination with a case, of a post extending axially within said case and fixed thereto, a parabolic reflector sleeved upon said post, a cylindrical flange at the outer end of said parabolic reflector, a corresponding cylindrical flange upon said case with which said reflector flange is slidably engaged, and a screw adjustment for moving said reflector upon its slidable bearings.

3. In a lamp, the combination with a case, of a parabolic reflector therein, a post fixed to said case and extending axially in relation

to said reflector through an apertured bearing therein, a lamp mounted on said post within said reflector, a cylindrical flange at the outer end of said reflector, a corresponding cylindrical flange on said case with which said reflector flange is slidably engaged, a stud secured to said case and extending parallel to the axis of said reflector through the flange thereof, and a nut rotatively secured to said reflector flange and engaging said threaded stud.

4. In a lamp, the combination with a case, of a post extending axially within said case and secured thereto, a lamp socket within said post, a parabolic reflector sleeved upon the post, coöperating bearing portions upon the parabolic reflector and the case permitting a longitudinal movement of the reflector in relation to the case, and means at the front of the reflector for adjusting the latter.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM F. ANKLAM.

Witnesses:
B. J. BELKNAP,
JAMES P. BARRY.