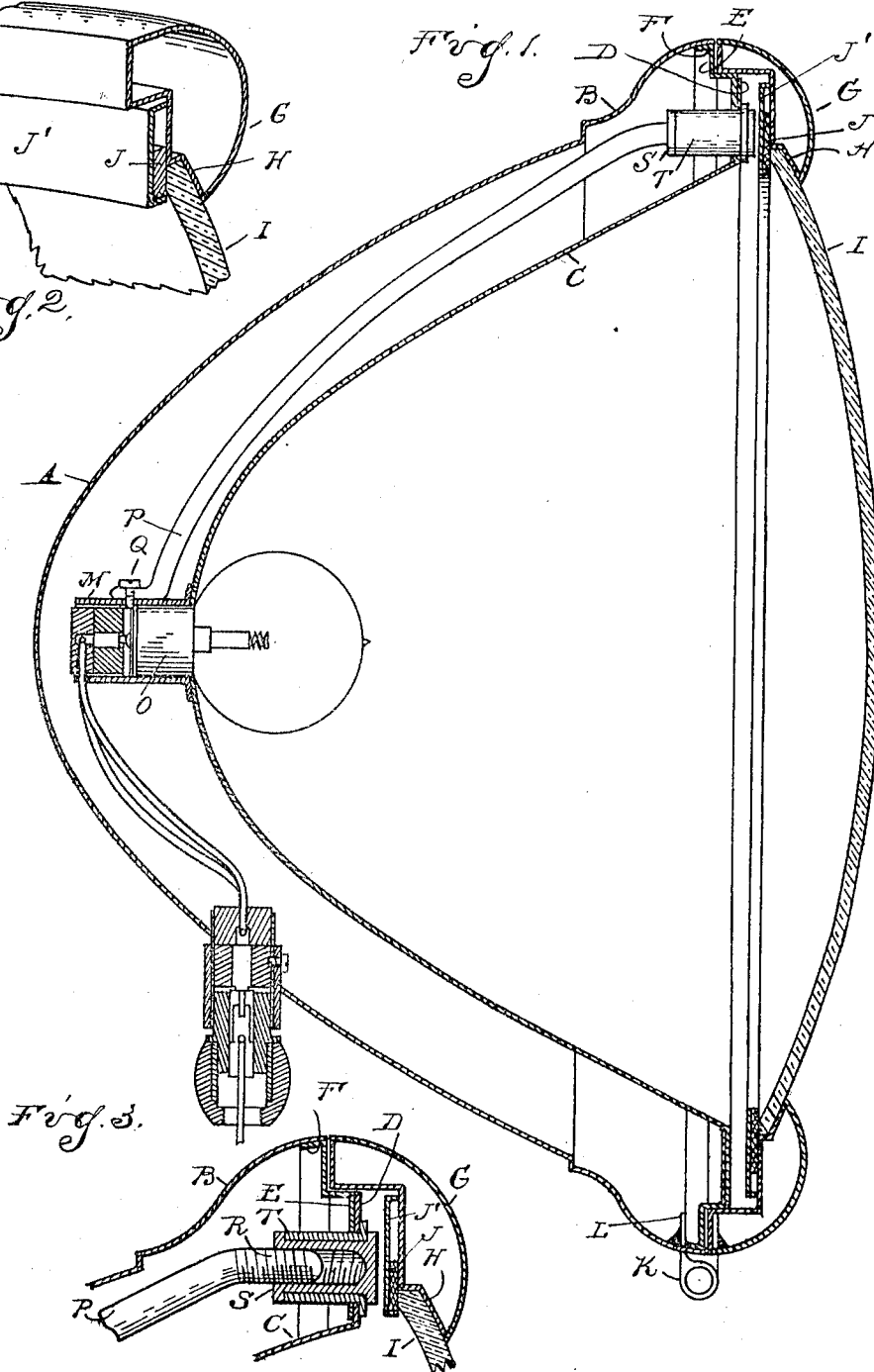


LAMP.

1,066,460.

Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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LAMP.

1,066,460.

Specification of Letters Patent.

Patented July 8, 1913.

Application filed May 18, 1912. Serial No. 698,175.

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 more particularly designed for use as head lights on motor vehicles and for similar uses, and it is the primary object of the invention to obtain a construction formed essentially of sheet metal stampings. In the present state of the art it is usual to employ in said structures one or more sheet metal members formed wholly or partially by spinning, and inasmuch as this is a hand operation the cost of manufacture is considerable. On the other hand sheet metal members formed wholly by stamping dies are manufactured at smaller cost, but with lamp constructions as heretofore made and of the desired form, it is difficult to form all of the parts by stamping. Thus if any portion of the lamp case is reversely curved or rounded inward, such a part must be made by spinning.

With the present construction I have overcome the difficulty by forming the parting between the lamp body and the door in the plane of maximum diameter, thereby avoiding reversed curves in any one member.

In the drawings, Figure 1 is a longitudinal section through the lamp case; Fig. 2 is a sectional perspective view showing portions of the members of which the lamp is formed, detached, Fig. 3 is a fragmentary section illustrating certain details.

A is the body portion of the case which is preferably of a parabolic form terminating at its outer end in the curved molding portion B, C is the lining and reflector for the case which also is of parabolic form having the outwardly extending flange D, E is an annular member having a flange F for fitting into the molded portion B of the outer case and extending inward to form a supporting bearing for the flange D of the lining C. This annular member E is preferably formed with a stepped section so as to form a break joint with the door or cover section. G is an annular member forming the outer face of the door and which is complementary to the molded portion B of the

body so that together therewith a rounded bead or molding will be produced. The member G has a lining member H which is stepped to be complementary to the stepped annular member E and which forms a bearing for the transparent face I and also a seat for the retaining member J' for said transparent face, the member J' being provided with a suitable packing ring J. All of these parts A, C, E, G and H are of such a form that they can be stamped from sheet metal without any spinning operation being necessary.

When the parts are assembled they are secured together by soldering or by other suitable means and the structure is completed by hinge members K the shanks L of which pass through slots in the molding B and are secured by soldering.

To get the proper lighting effect it is necessary to focus the lamp which requires a longitudinal adjustment of the bulb in relation to the parabolic reflector. This I accomplish in a simple manner by providing a tubular bearing M for the lamp at the inner end of the reflector and arranging in said bearing a slidable cylindrical socket member O. To this socket member an adjustable rod P is attached by means of a screw or pin Q passing through a slot in the tubular member M. This rod extends in the space between the reflector C and outer case A to a point adjacent to the annular member E and is then bent perpendicular to said member or parallel to the axis of the socket and is threaded at R to engage a nut S rotatively secured in a bearing T on the flange D.

What I claim as my invention is:

1. In a lamp, the combination with a centrally apertured parabolic reflector and an outer case inclosing the same, of a cylindrical lamp socket member, a tubular guide for said cylindrical socket member secured to said reflector and projecting rearward therefrom in alinement with the aperture therein, a rod secured to said socket extending through the space between said reflector and outer case and having its outer end threaded and extending parallel to the axis of said socket and tube, an annular member connecting the outer end of said reflector and case, and a rotative nut having a journal bearing on said annular member and engaging the threaded portion of said rod to adjust the same and the socket thereby.

2. In a lamp, a body member terminating at its outer end in a curved molding, a lining having an outwardly extending flange, an annular member having its outer edge fitted within the molding portion and provided with an inwardly extending flange parallel to and forming a supporting bearing for the outwardly extending flange of the lining, said annular member having a stepped portion intermediate its edges and a door comprising an annular rounded portion complementary to the curved molding portion, said annular portions having their line of separation that of the maximum diameter of said portions, and a lining member for said annular rounded portion, stepped to engage the stepped portion of said annular member whereby a break joint is formed between the door and the body.

3. In a lamp, a body member terminating at its outer end in a curved molding, a lining having an outwardly extending flange, an annular member having its outer edge fitted within the molding portion and provided with an inwardly extending flange parallel to and forming a supporting bearing for the outwardly extending flange of the lining, said annular member having a stepped portion intermediate its edges and a door comprising an annular rounded portion complementary to the curved molding portion, said annular portions having their line of separation that of the maximum diameter of said portions, and a lining member for said door portion stepped intermediate its edges to engage the stepped portion of said annular member whereby a break joint is formed between the door and the body.

4. In a lamp, a body member terminating at its outer end in a curved molding, a lining having an outwardly extending flange, an annular member having its outer edge fitted within the molding portion and pro-

vided with an inwardly extending flange parallel to and forming a supporting bearing for the outwardly extending flange of the lining, said annular member having a stepped portion intermediate its edges and a door comprising a curved molding portion of annular configuration complementary to the curved molding portion of the body, a lining member for said door portion stepped to engage the stepped portion of said annular member whereby a break joint is formed between the door and the body, a glass, said door lining having a seat for the glass, and a retaining member provided with a packing for securing the glass to its seat.

5. In a lamp, a body member terminating at its outer edge in a curved molding, a lining having an outwardly extending flange, an annular member having its outer edge fitted within the molding portion and provided with an inwardly extending flange parallel to and forming a supporting bearing for the outwardly extending flange of the lining, said annular member having a stepped portion intermediate its edges and a door comprising an annular rounded portion complementary to the curved molding portion, said molded portions having their line of separation that of their maximum diameter, a lining member for said door portion stepped to engage the stepped portion of said annular member whereby a break joint is formed between the door and the body, and an annular member lying in a plane parallel to the plane of separation of said moldings for securing said glass to its seat.

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

WILLIAM F. ANKLAM.

Witnesses:

W. J. BELKNAP,
JAMES P. BARRY.