To all whom it may concern:

Be it known that we, WALTER C. GREIST, ANDREW J. CARMICHAEL, and JOHN R. PETERSON, citizens of the United States of America, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Lamp- Shade Supports, of which the following is a full, clear, and exact description.

This invention relates to shade-supporting means for electric and other lamps, whereby the shade may be supported reliably at various angles with reference to the bulb.

An important feature of the invention comprises an improved form of clamping device to engage the bulb, and which is constructed to reliably support the shade from the bulb in a simple and efficient manner, and by the use of an economical construction which may be manufactured in large quantities, and at a relatively small cost.

In connection with the clamping device, the invention contemplates the use of a universal joint or connection between said device and the lamp shade, the construction of which is such that the shade may be tilted at various angles to the longitudinal axis of the bulb and will be reliably maintained in any of the positions of adjustment to which it may be set.

Other important features of the invention, such as valuable details of construction and combinations of parts, will be better understood from the following description in connection with the accompanying drawings, and the novel features of the invention will be pointed out in the appended claims:

Fig. 1 represents a lamp shade in section, and the improved shade supporting device in side elevation;

Fig. 2 is a view in elevation of the shade support taken at right angles to the position in which said support is illustrated in Fig. 1, and

Fig. 3 is an inverted plan view of Fig. 2.

Referring to Fig. 1, the shade 3 is provided at its central top portion with a hole through which passes a threaded stem 5 which extends from a split member 6 of the universal joint comprising the members 6, 7, and 8. A shoulder on the member 6 bears against a metal washer 9 within the shade and having a hole in alignment with the hole in the shade through which passes the stem 5, and a knob 10, provided with an internal thread to engage the stem 5, serves to clamp the member 6 and washer firmly to the lamp shade. Said knob is located at the top, central portion of the shade and serves as an ornamental feature thereof.

The member 7 of the universal joint is preferably formed from a single piece of sheet metal, having two parallel limbs 11, 11, which embrace the split member 6 of the joint and are connected thereto by a suitable rivet 12 which is preferably headed at both extremities on the outside of the limbs 11, 11. Two limbs 13, 13, which extend away from the limbs 11, 11, and which are bent along lines extending at right angles to the lines on which the limbs 11, 11, are bent are connected by a pivot 14 with a split member 15. The member 15 of the universal joint has rigid connection, as by a rivet, with the two crossed members 16, 17, which constitute the shade support proper. The member 16 of the shade support has a flat portion 20 from which the arms a, a, are bent downwardly and outwardly and terminate at their lower end in circular clamps 21, 21. The member 17 is provided with a flat portion overlying the flat portion of the member 16, and has also two downwardly and outwardly inclined arms b, b, like the arms a, a, but arranged at right angles to the latter. The arms b, b, also terminate in circular portions 22, 22, forming clamps which are located between the circular clamps 21, 21, of the member 16. The four circular clamping members 21, 21, and 22, 22, are arranged, as will appear from Fig. 1, approximately 90° apart and serve to engage the lamp bulb B upon four sides.

The clamping members 16, 17, are formed entirely of sheet metal, and may be stamped or otherwise produced by dies, or the like, in great quantities and at a relatively low cost. This material is sufficiently resilient to secure a yielding clamping pressure upon the bulb, and will serve to reliably maintain the lamp shade thereon, when applied, but at the same time will permit the removal of the clamp and shade from the bulb by a slight effort, when desired. The circular formation of the clamps 21, 22, serves to very positively hold the shade in...
position upon the bulb and is more reliable in this respect than a coil of wire or any other form of metal clamp which has less positive holding power than the circular formation. At the same time, the circular clamping members may be stamped out of sheet metal with ease, and by the use of simple dies, the material employed in such form of clamp rendering it possible to manufacture the device in quantities at a minimum expense.

If it be desired to tilt the shade 3, relatively to the bulb B so as to obscure the rays of the light and prevent the glare in any particular direction, this may be done with ease, and the frictional engagement between the split members 6, and 8 of the joint 7 will, by their frictional engagement with the limbs 11, 11, and 13, 13, hold the shade in any position of adjustment, without disturbing the normal relation between the clamping members and the bulb B which should be that shown in Fig. 1 of the drawings.

While advantageous results have been found to follow from the employment of two pairs of clamping members, as 16, 17, each provided with two circular clamps, as shown herein, certain benefits of the invention have been found to follow from the use of three circular clamps, instead of four. It is also within the contemplation of the invention to form the crossed members 16, 17, of a single piece of metal instead of two pieces, and in some instances this modification has been found to give very good results. The invention is, accordingly, not necessarily limited to the exact details of construction and arrangement of parts shown herein, but may be varied in the respects noted, and otherwise, so long as such variations fall within the scope of the following claims.

What we claim is new and desire to secure by Letters Patent is:

1. A lamp shade support made of flat sheet material, and comprising a plurality of clamping arms arranged angularly to each other, said arms terminating in circular clamping members to engage a lamp, with means for securing said support to a shade.

2. A lamp shade support made of sheet material, and comprising two members arranged at right angles and provided with overlapping flat portions, each of said members having a pair of downwardly extending diverging arms terminating in completely circular lamp-engaging portions, and a flexible joint having rigid connection with said flat portions at one end, the other end of said joint being secured to a lamp shade.

3. A lamp shade support comprising, in combination, two sheet metal members crossed at their central portions and having downwardly bent outwardly diverging arms terminating in circular clamping portions to engage a lamp, and a flexible joint comprising resiliently connected friction members, said joint connected at one terminal with said support and at its other terminal with a lamp shade, said joint being capable of movement to permit said shade to be adjusted at varying angles to the axis of the lamp without causing said support to move from normal lamp engaging position.

4. A lamp shade support comprising, in combination, a sheet metal member having a perforated flat portion with a plurality of downwardly extending diverging arms terminating in completely circular lamp-engaging portions, and a flexible joint having rigid connection with said flat portion at one end, the other end of said joint being secured to a lamp shade.

In testimony whereof we have hereunto set our hands this 15th day of February A. D. 1923.

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