

(No Model.)

A. S. MARTEN.
SHADE FOR ELECTRIC LAMPS.

No. 539,959.

Patented May 28, 1895.

Fig. 1.

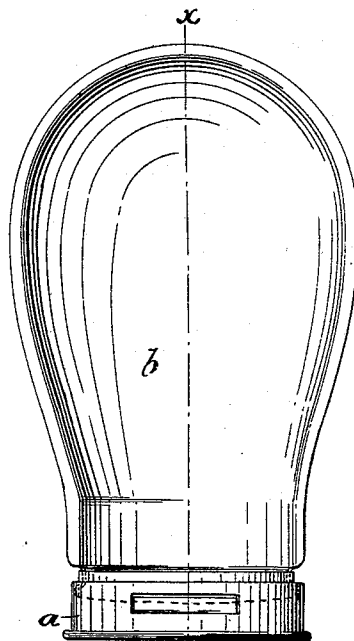


Fig. 5.

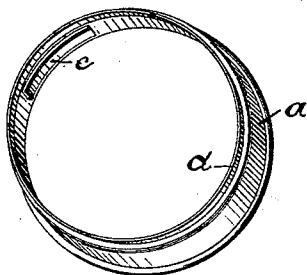
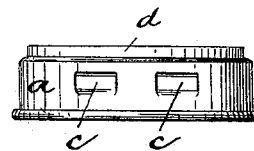


Fig. 3.

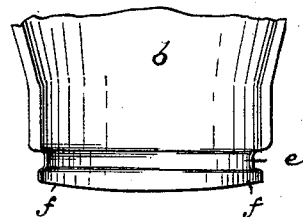


Fig. 4.

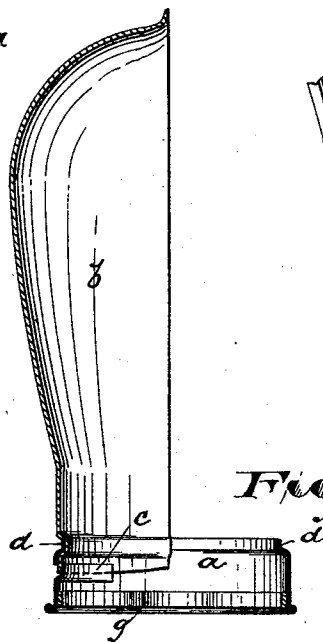


Fig. 2.

Witnesses
Robert Sollburger
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UNITED STATES PATENT OFFICE.

ALBERT S. MARTEN, OF EAST ORANGE, NEW JERSEY.

SHADE FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 539,959, dated May 28, 1895.

Application filed February 11, 1895. Serial No. 537,864. (No model.)

To all whom it may concern:

Be it known that I, ALBERT S. MARTEN, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Shades for Electric Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to enable half shades for electric lamps to be bundled together in close order independent of the collars and thus to secure greater compactness in the wholesale packages for the market; to enable the shade proper to be adjusted in its relation to the collar holding the same, and to secure other advantages and results some of which will be referred to hereinafter in connection with the description of the parts. The invention consists in the improved shade for electric lamps, and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like letters indicate corresponding parts in each of the views, Figure 1 is a front elevation of the shade and collar. Fig. 2 is a central section of the same, taken on line *x*. Fig. 3 is a perspective view of the collar. Fig. 4 is a detail of a portion of the half-shade, and Fig. 5 is an elevation of a preferred form of collar.

In said drawings, *a* designates the collar and *b*, the body portion of the shade. Heretofore, these have been permanently soldered together and, because of their shapes and relations, could not be nested. Thus they made a cumbersome and bulky package. By the present construction, all soldering is avoided, and in sending the goods out into the market, the collars can be neatly wrapped together in one package and the shades nested and inclosed in another and much space can be saved in shipping large quantities. Furthermore, by the improved construction, the shade por-

tion can be adjusted in its relation to the lamp without changing the relation of the collar to the lamp fixtures. With these ends in view, I have formed in the sides of the collar an inwardly projecting tongue or tongues, *c*, adapted to overlap the edge of the shade as indicated in Figs. 1 and 2. The said tongue, or tongues, *c*, are integral with the collar, being cut and pressed by suitable dies from the metal comprising the collar as will be understood upon reference to Fig. 2. The projecting end of the tongue lies back from the inner wall of the collar a distance equal to the thickness of the half shade so that when the latter is turned into position there will be no looseness, but on the contrary the two parts will be held together with firmness and security. One of the edges, the one adapted to lie in engagement with the half shade, is bent inwardly as shown at *d*, and forms an annular neck which fits a groove, *e*, formed in one end of the half shade. The said end of the half shade is curved in lines concentric with the curve of the collar, so that when the said shade is laid against the inner wall of the said collar, the neck, *d*, enters the groove, *e*. By turning the half shade lying closely against the interior wall of the collar, said shade enters beneath the tongue *c* and a locking of the parts is occasioned, the neck and groove preventing a withdrawal of the shade from the collar and, because of the curve in the shade, any vibratory action of said shade in relation to said collar, and the parts are held rigidly and firmly together.

To facilitate the entrance of the half shade edge beneath the tongue, the former is curved or beveled oppositely as shown at *f*, in Fig. 4.

I prefer to provide two short tongues, *c*, *c*, as in Fig. 5 rather than one long one, inasmuch as it is difficult because of varying resilience in the different metals or for other causes, to maintain a uniform and proper projection at the end of the tongues, where the same are of considerable length, as in Fig. 1.

In assembling the parts to bring them in operative relation, the end of the half shade is simply inserted in the collar so that its convex side lies against the concave wall of the collar at one side of the neck, *c*, and the tongue *d*, lying within the groove, *e*. Then, by turning said half shade around on the axis of said col-

lar its edge enters beneath the tongue, *c*, and the parts are rigidly but adjustably held together.

The collar, *a*, is provided with suitable means to receive the lamp, such as are indicated at *g*, and are described and shown more fully in my prior patent, No. 507,714, of October 31, 1893.

Having thus described the invention, what I claim as new is—

1. The combination with the collar, *a*, having the neck, *d*, and inwardly extending tongue, *c*, of a half-shade having the curved and grooved end, adapted to engage said collar and be held thereto, substantially as set forth.

2. The combination with the collar, *a*, having means, *g*, to receive and hold the lamp, and having a tongue, as *c*, for holding the half shade, of said half shade independent of said collar, having a curved end face conforming to the face having said tongue, *c*, and said end and collar lying face to face, the convexity of one engaging the concavity of the other and the said tongue, *c*, overlying the edge of said half shade the half shade and collar being correspondingly bent to prevent withdrawal of said edge from said tongue in lines parallel with the axis of the collar, but admitting a

turning of one part on the other around the said axis substantially as and for the purposes set forth.

3. The improved shade for electric lamps in which is combined a collar having means to receive and hold it to the electric lamp and tongues, *c*, projecting inside the curved walls of said collar and adapted to overlap the edge of the half shade and a half shade removably secured to said collar and having oppositely beveled edges substantially as set forth.

4. The improved shade for electric lamps in which is combined a collar having means for securing it to the electric lamp and a half shade curved at one end to conform to the curve of the collar and removable from said collar, the said collar and shade end being provided with a neck and groove in lines concentric with the axis of the collar and the collar being provided with fastening means to receive the half shade by turning said half shade, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of February, 1895.

ALBERT S. MARTEN.

Witnesses:

CHARLES H. PELL,
BEATRICE CHARLES.