

June 19, 1923.

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L. SCHMIDT

ATTACHMENT FOR ELECTRIC LAMPS

Filed June 18, 1921

Fig. 1

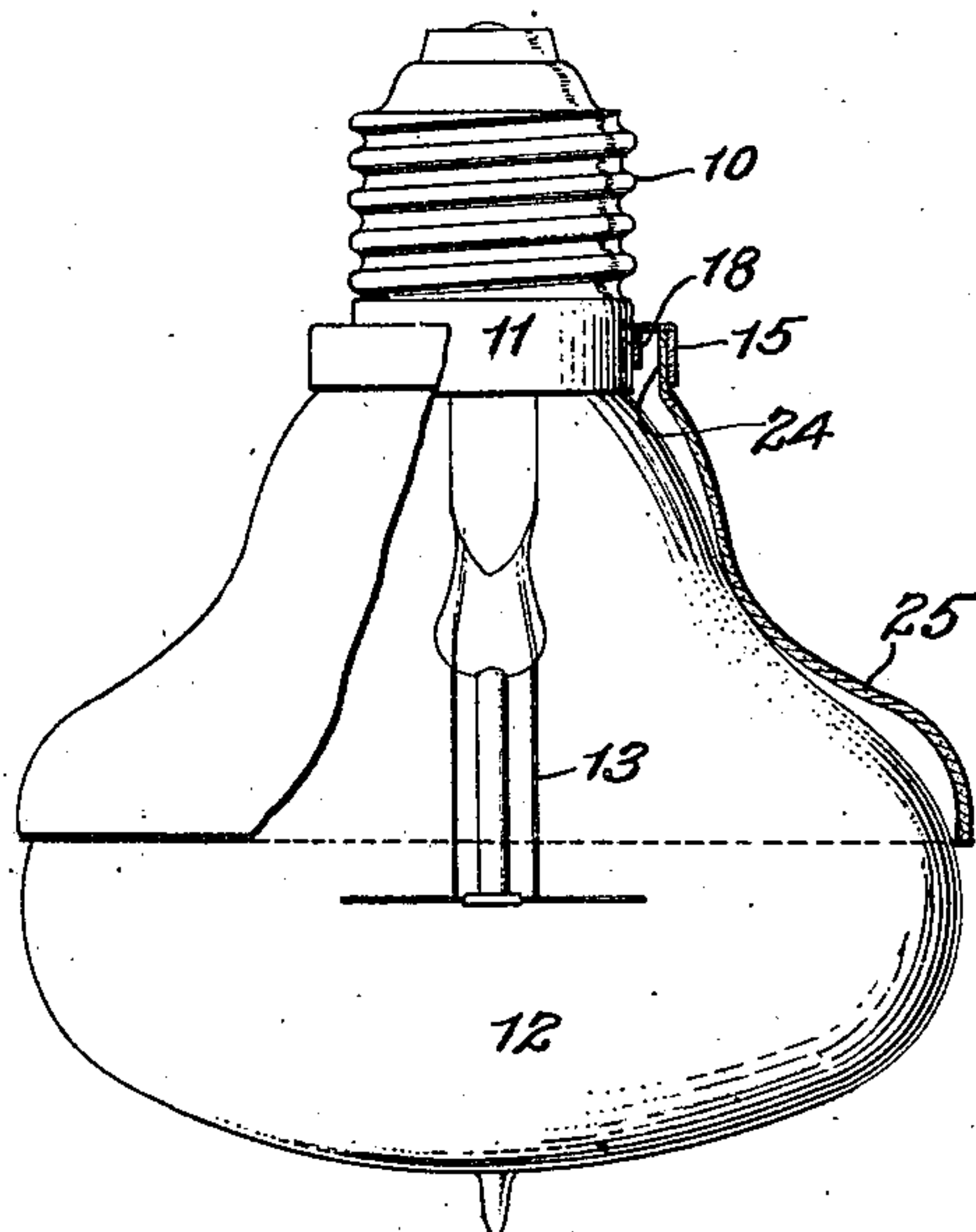


Fig. 2

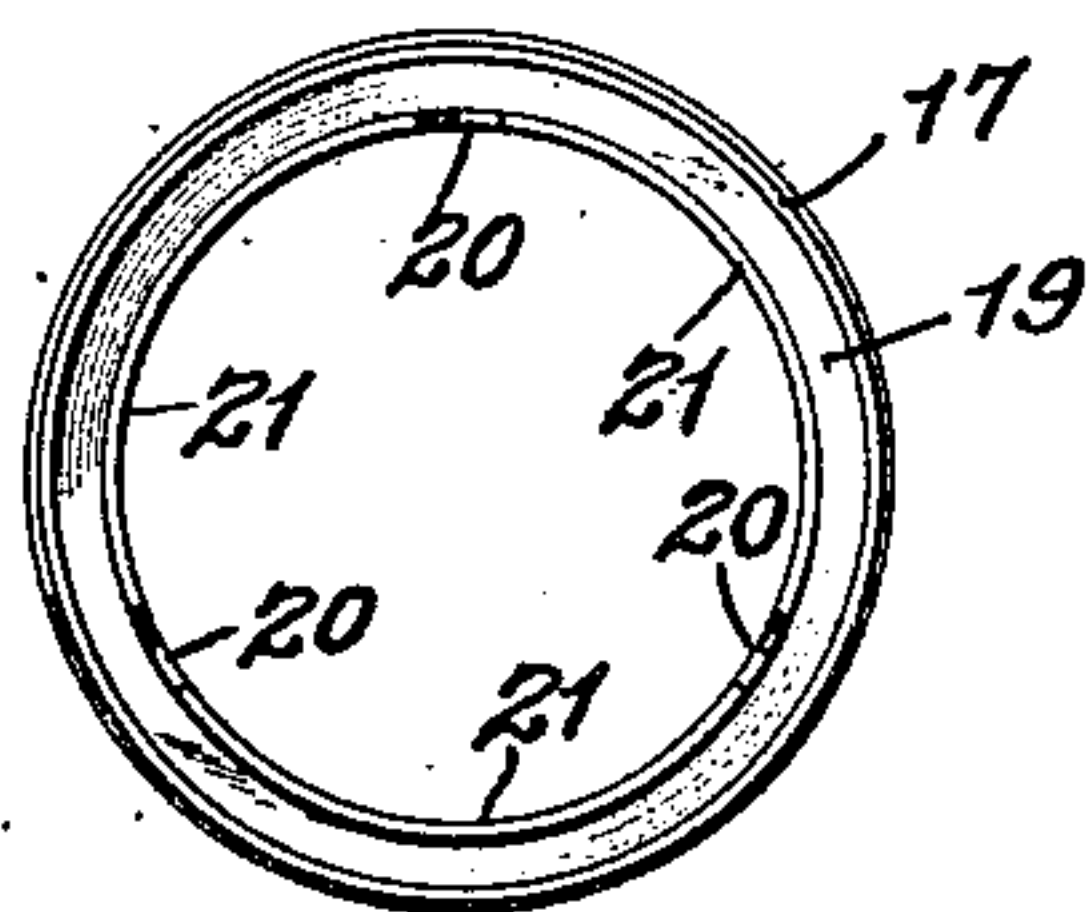


Fig. 3

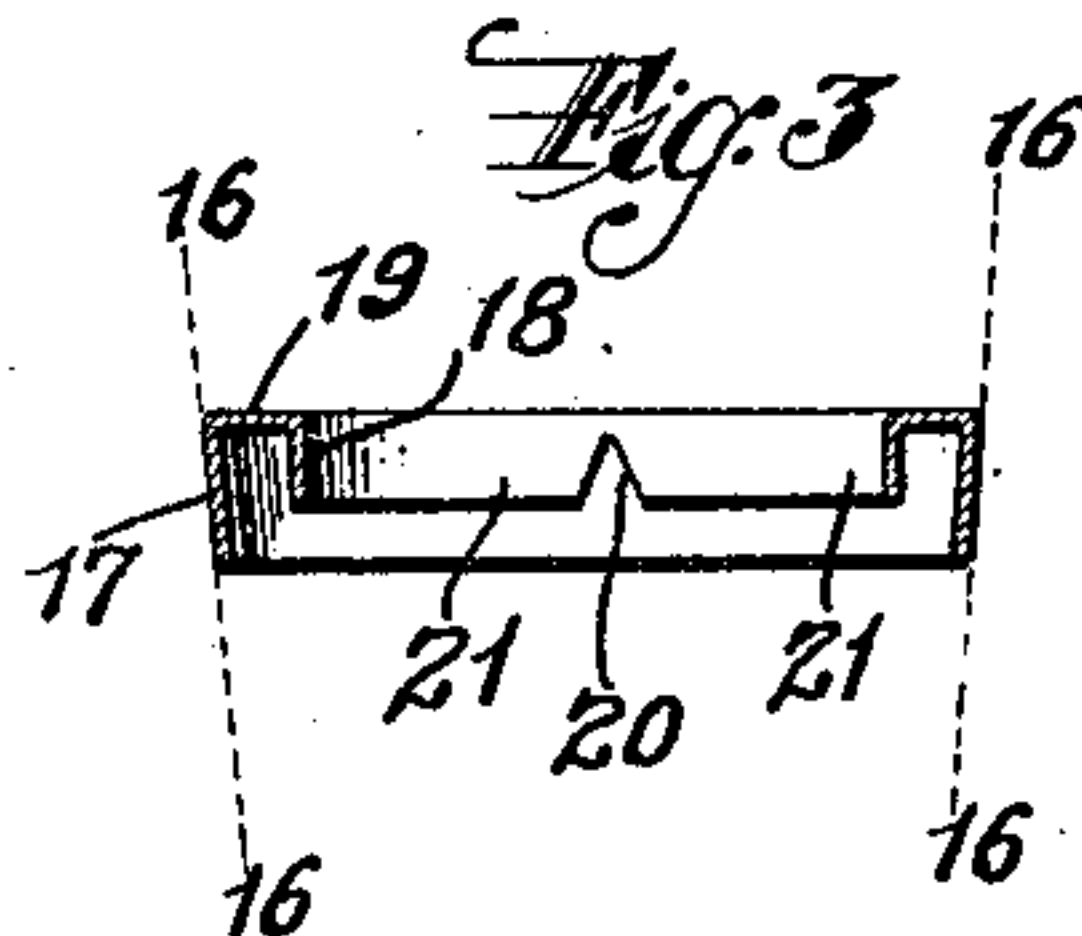
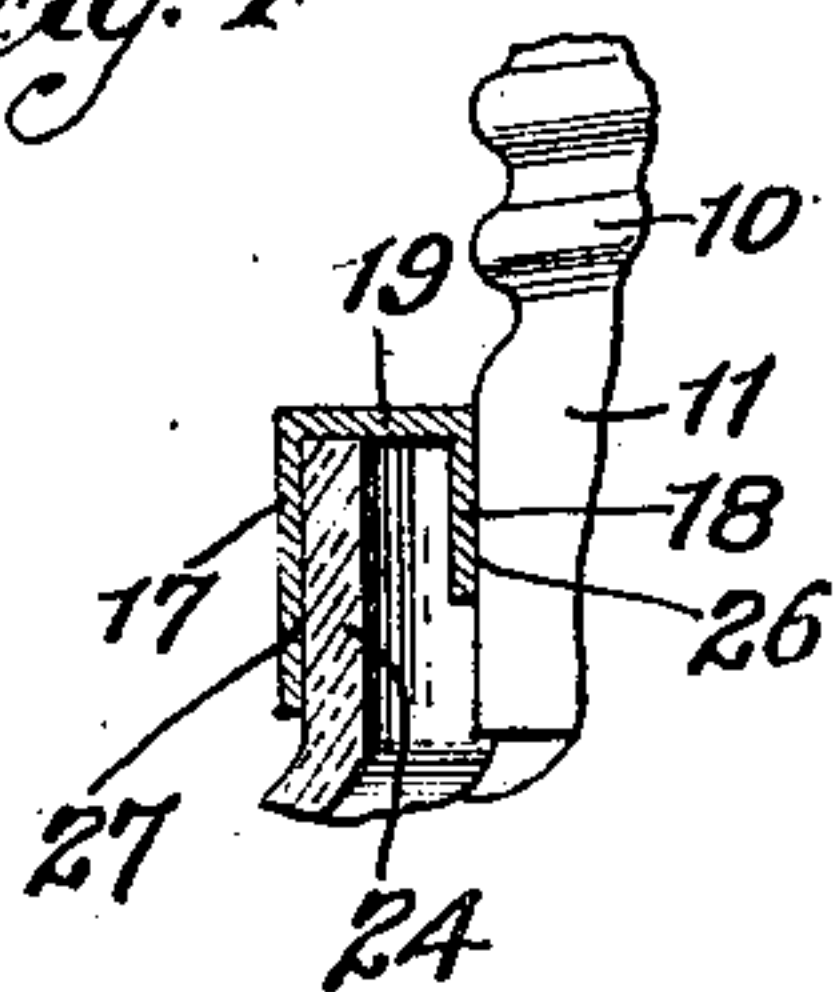


Fig. 4



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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR ELECTRIC LAMPS.

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To all whom it may concern:

Be it known that I, LAMBERT SCHMIDT, a citizen of the United States, and resident of the borough of Brooklyn, county of Kings, city and State of New York, have invented certain new and useful Improvements in Attachments for Electric Lamps, of which the following is a specification.

This invention relates to attachments for electric lamps and more particularly to such attachments as are used to hold a shade against the lamp bulb in such a manner that on the vibration of the lamp or shade, the shade will be held tightly against the bulb so as to prevent a jarring or concussion of one in respect to the other. It has heretofore been proposed to provide such attachments, but they have not been entirely satisfactory because on the one hand they require a special form of a lamp shade to fit over a specially shaped bulb, and on the other hand, they require a special form of base on to which the attachment is applied. Such special devices discouraged the general use of attachments of this kind in view of the expense and inconvenience connected with such special devices.

The object of my invention is to provide an improved attachment which is so arranged that it will huggingly hold a lamp shade against a bulb so as to prevent relative vibratory actions of one in respect to the other and thereby prevent either bulb or shade from becoming broken, but mainly to provide an improved means whereby any ordinary base or lamp may have applied thereto in a convenient manner the improved attachment without any change whatever in the base or in the lamp bulb or in the lamp shade. The invention will be more fully described hereinafter and finally pointed out in the appended claim.

In the drawings,

Figure 1 shows a side view of an ordinary base and a lamp bulb with the shade applied thereto which is in the form of the regular shade as found upon the market, the shade being held against the bulb by my improved attachment;

Figure 2 shows a plan view of the bottom side of my improved attachment;

Figure 3 is a vertical central section of my attachment;

Figure 4 shows an enlarged view of the attachment holding the shade against the socket.

Similar characters of reference indicate corresponding parts throughout the various views.

Referring to the drawings and more particularly to Figure 1, the ordinary Edison base consisting of a screw threaded portion 10, and a small shoulder 11, is there shown as part of the lamp bulb 12. The drawings represent well known forms of both the lamp and base. The lamp bulb 12 has the usual filament 13. The exterior diameter of the shoulder 11, which is part of the well known base is substantially equal to the exterior and largest diameter of the threaded portion.

In Figure 1, if a line be drawn through the outer edge of the threads, that line will pass through the exterior surface of the shoulder 11.

I provide a collar 15, shown clearly in Figure 3, in section, which may be said to be generally of inverted U-shape, excepting that it has its exterior side or flange at an inclination to the plane of the upper surface of the collar. The direction of the inclination is shown by the dotted lines 16—16 of Figure 3 and thereby the exterior flange 17 is formed. The interior flange 18 is substantially perpendicular to the aforesaid plane and the annulus 19 is in the aforesaid plane. The flange 18 is provided with cut outs 20, preferably three in number, as shown in Figure 2, the object of these being to allow a yieldable movement of the parts 21 of the flange 18 between the cut outs 20. When the collar is applied to the shoulder 11, the yieldable tongues 21 between the recesses or cut outs enable a clamping action to take place so as to give a secure frictional hold, such as to hold the flanges 24 of the shade 25 and hence the shade against the bulb. The frictional hold is such that any ordinary vibration of the shade in respect to the bulb is counter acted and the shade is held firmly at all times against the bulb. To insure this further, the inclined flange 17 of the collar which is also provided with cut-outs 40 acts to press tightly against the flange 24 of the shade and in so doing becomes, due to its resilient character, shaped into a position substantially parallel with the flange of the shade. By the continuous pressure thus exerted, the flange 17 serves to hold the flange of the shade firmly against rattling, and at the same time the reaction resulting on the collar or its innermost

flange increases the frictional hold between the shoulder and collar. The exterior flange 17 and the body of the annulus 19 are adapted to turn about the inner edge of the annulus where it is connected to the flange 18.

In Figure 4 an enlarged view is shown. The flange of the shade 24 is straight, that is, it is not inclined nor flaring and the hold at 26 is frictional the engagement of the parts at 26 being frictional and that at 27 being of a clamping character.

It will thus be seen that my improvement is such that it may be readily used to combine a shade with a bulb or hold a shade huggingly to a bulb without danger of having either part vibrate in respect to the other. The construction is such that it may be readily manufactured at a small expense and may be readily applied to existing bases of lamp shades, neither an especially shaped base, nor a special shaped lamp shade being necessary, nor a special shaped bulb being necessary, as was heretofore proposed. The frictional hold obtained is a very secure hold and serves admirably to hold the respective parts in position and at the same time permits, first, a ready disassembling of the parts, and secondly, a ready assembling of the same.

Having thus described one satisfactory

and practical embodiment of my invention, it is nevertheless understood that the same is susceptible to many other modifications, and I accordingly reserve the privilege of adopting all such legitimate changes as may be fairly embodied within the spirit and scope of the invention as claimed.

I claim:

An attachment for electric lamps comprising a sheet metal annulus of angular form in cross section, having a horizontally disposed flange adapted to surround a lamp plug and provided with a split flange extending from the inner edge of said horizontal flange and affording a series of resilient tongues for frictional clamping engagement with the plug, said annulus also having a second flange at the outer edge of said horizontal flange inclined inwardly in convergent relation to said split flange and of greater width than the latter, said inclined flange being adapted for frictional clamping engagement with the terminal flange of a lamp shade to support said shade in applied position relative to the lamp.

In testimony that I claim the foregoing as my invention, I have signed my name hereunder.

LAMBERT SCHMIDT.