

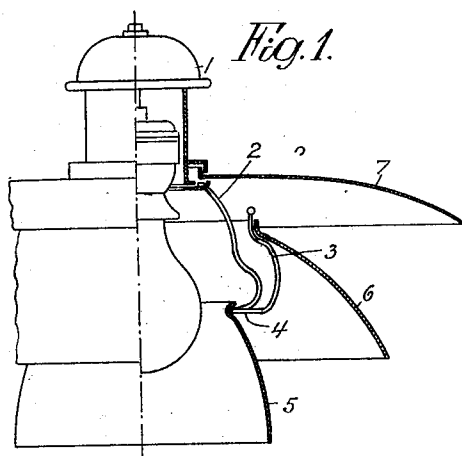
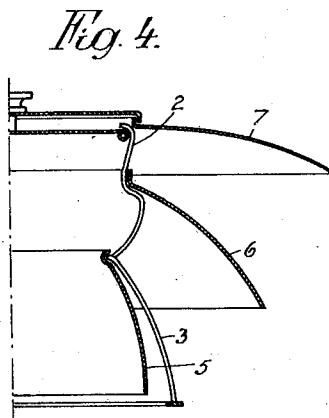
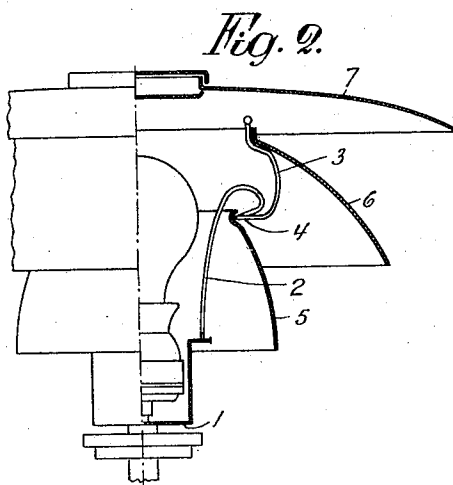
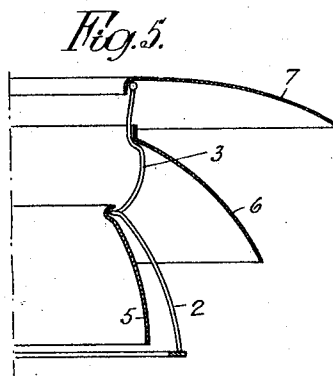
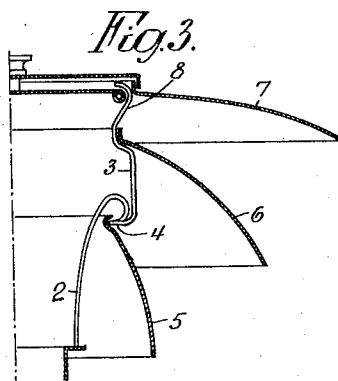
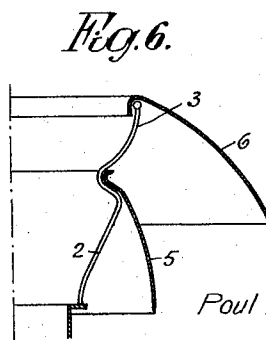
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SHADE HOLDER FOR ELECTRIC LAMPS

Filed June 13, 1929



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SHADE HOLDER FOR ELECTRIC LAMPS

Application filed June 13, 1929, Serial No. 370,581, and in Denmark July 21, 1928.

In the systems of multiple-shades, which during recent years have come more and more into use for electric-light fittings and the like, the drawback has become apparent that the shades have been difficult to remove and to place into position, while at the same time the vibrations and outer actions to which the shades are exposed have been able to cause the lower shade to drop down specially when screw devices are used.

The present invention has for its object to provide a shade-holder filling both of the two requirements, viz. that the shades are easy to remove and to replace and, at the same time, that the shades especially the bottom one are held or clipped in perfectly safe and reliable manner, and the invention has for its object to utilize the weight of the shades themselves, so that the shade-holder consists entirely or partly of springs co-operating with the shades in such a manner that the bottommost shade is locked into its proper position by the next one above, and the latter again by the following one etc.

By this arrangement a perfectly reliable attachment of all the shades, but especially of the bottom shade, will be attained.

The distinguishing feature of the present invention consists therefore in the use of springs more or less V-shape to be further described in the following, the middle part thereof is used as a clipping device for the bottom-most shade.

Then it must be emphasized that while in such a shade-holder usually three shade-holder branches or springs are used the number is not thus limited, nor is it necessary that all the shade-holder branches should be resilient.

The invention is shown on the drawing, where

Fig. 1 shows a multiple-shade reflector in side elevation, partly sectional, and with a construction of a resilient shade-holder branch suitable mainly for suspended lamps.

Fig. 2 is a similar view of a table lamp and with a modified construction of the shade-holder spring.

Finally Figs. 3 to 6 show various forms of such shade-holder springs.

On the drawing 1 is the crown-piece of the shade-holder with a sleeve or tube to which one or more shade-holder springs are attached. In the construction shown in Fig. 1 the shade-holder spring is of irregular shape, mainly a kind of V-shape with bent point or middle part.

The legs or branches of the shade-holder spring are indicated by 2 and 3 and the bent point by 4. It will now be seen that the bent point 4 can clip and hold in position a bottom shade 5, while the bent end portion of the free leg 3 of the spring holds the intermediate shield 6. When the shades 5 and 6 are to be removed, the point 4 is first pulled outward until the top edge of the groove of the shade 5 is released and then the shade 6 is pulled down against the action of the spring. But when the parts are in the position shown in the figure, the intermediate shade 6 acts by its weight as a kind of lock for the shade-holder member 4 of the bottom shade 5.

A construction of shade-holder springs intended to be used for table lamps is shown on Fig. 2 by which the fixed branch 2 of the shade-holder spring, instead of being bent upward along the branch 2, as shown on Fig. 1, is now bent downward. The principle is otherwise exactly the same, and here too the bottom shade 5 is locked when the shade 6 is placed into position. Figs. 3 and 4 show modification in which the springs 2, 3, are fixed at both ends.

Fig. 5 shows another modification where the shade-holder springs hold three shades, viz. a bottom shade 5, an intermediate shade 6 and an upper shade 7. Here not only the bottom shade 5 is locked when the shade 6 is in position, but this latter is in turn locked when the upper shade 7 is in position.

Finally Fig. 6 shows a modified construction, which has been included in order to show that the invention may also be used in such a manner that the shade-holder spring engages the inside of the shade 5 and the outside of the inward bent flange of the intermediate shade 6.

Having now described my invention, what

I claim as new and desire to secure by Letters Patent is:

1. In a shade holder for electric lamps of the kind comprising a plurality of superposed shades a spring member extending between the uppermost and lowermost shades and engaging each of the shades, said spring member having a median portion constituting a clip for retaining the lowermost shade in position and having a portion acted on by the weight of the penultimate shade to lock the lowermost shade in position.

2. A shade holder in accordance with claim 1 wherein the aforesaid spring member is secured at each end to a substantially rigid portion of the lamp fitting.

In testimony whereof I affix my signature.
POUL HENNINGSEN.

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