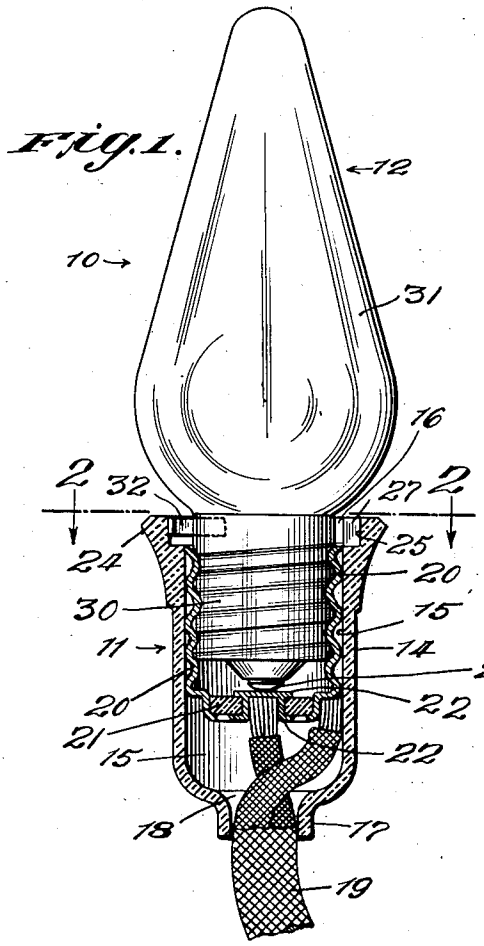
Nov. 15, 1932. L. PROPP 1,887,785

ELECTRICAL ILLUMINATING DEVICE

Filed July 26, 1929

Fig. 1.



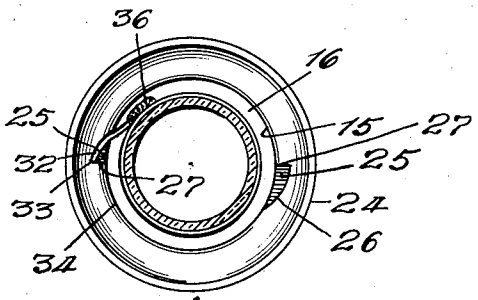


Fig. 2.

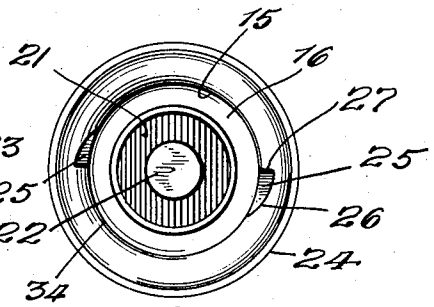


Fig. 3.

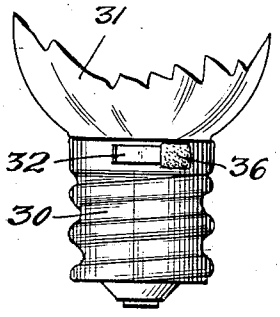


Fig. 4.

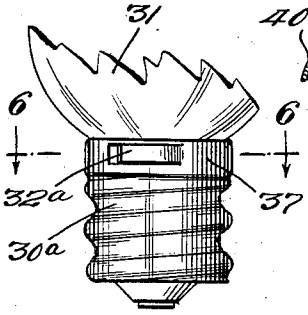


Fig. 5.



Fig. 6.

INVENTOR
Louis Propp
BY
Wyomi Finkelstein
ATTORNEY

Patented Nov. 15, 1932 1,887,785

UNITED STATES PATENT OFFICE

LOUIS PROPP, OF NEW YORK, N. Y., ASSIGNOR TO M. PROPP CO., INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK

ELECTRICAL ILLUMINATING DEVICE

Application filed July 26, 1929. Serial No. 381,104.

This invention relates to electrical illuminating devices. More particularly it is directed to novel screw shell and socket members having means for preventing loosening or disengagement of the lamp from the socket.

An object of this invention is to provide in a lamp and socket members of the character described cooperating means for automatically locking the lamp to the socket upon screwing the lamp base into said socket.

A further object of this invention is to provide a lamp and socket of the character described which shall be cheap to manufacture, comprise few and simple parts, simple to manipulate for positively locking the lamp to the socket, and shall yet be practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawing, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is a partial, axial, cross-sectional view of a lamp and socket embodying the invention;

Fig. 2 is a cross-sectional view taken on line 2—2 of Fig. 1;

Fig. 3 is a top-plan view of the socket with the lamp removed;

Fig. 4 is a side, fragmentary, elevational view of the lamp;

Fig. 5 is a view similar to Fig. 4 but showing a modified construction; and

Fig. 6 is a cross-sectional view taken on line 6—6 of Fig. 5.

Referring now in detail to the drawing, 10 designates an electrical illuminating device embodying the invention and comprising a screw socket receptacle 11 and lamp 12, said lamp being shown, for the purpose of illustration only, in the form of a miniature decorative lamp ordinarily used for Christmas tree illumination. The receptacle 11 comprises a housing 14 made of any suitable insulating material such as phenol-condensate products or the like substances. It is formed with a chamber 15 having an open end 16, for receiving the lamp, and with a reduced portion 17 having an opening 18 for permitting passage of the conductor wires 19 into the socket. Firmly secured within said socket in any suitable manner adjacent the open end 16 thereof, is a screw shell 20 made of spun sheet metal such as brass. Said shell 20 is closed at one end as by an insulating disc 21 carrying the central contact member 22. The conductor wires 19 are secured within the socket in the usual manner, one of said wires being soldered to the central contact 22 and the other being soldered to the shell as at 23. For the purpose hereinafter appearing, the outer rim 24 of the insulating housing 14, adjacent the open end 16 thereof, is formed with a pair of diametrically opposed notches 25, each providing a curved wall 26 and a radial abutmentment wall 27.

The lamp 12 comprises a screw threaded base 30 adapted for screwing into the shell 20, and a bulb 31. Integrally formed with the base 30, adjacent the bulb 31, is a small resilient strip or spring metal 32. Said strip may be soldered or riveted to the base in any suitable manner as at 36, the free end 33 of said spring extending away from said base in a counterclockwise direction as shown in Fig. 2 for the usual lamp base having a right handed screw thread. It will now be clear that upon screwing the lamp 12 into its receptacle 11, the spring 32 will slide against the inner surface 34 of the housing 14 and will tend to press outwardly and snap into the notches 25 when aligned therewith. The notches 25 and the spring 32 are so arranged with respect to the socket and lamp base respectively that upon completely screwing the base 30 into the shell 20, the spring 32 will be received in one of the notches 25 and the end 33 thereof will substantially abut the radial wall 27 of said notch. Loosening of the lamp will obviously be prevented since due to the contact of the spring 32 with said wall 27, unscrewing of the lamp cannot take place,

thus ensuring against looseness and breakage of the lamps. The spring 32 and notches 25 constitute pawl and ratchet means for preventing unscrewing of the lamp.

In accordance with the modified construction shown in Figs. 5 and 6, the lamp base 30*a* is formed with an integral spring finger portion 32*a* similar to the spring 32 but stamped from the upper portion 37 of said base. Said spring portion 40 is bent outwardly sufficiently to engage the notches 25 of a socket receptacle 11 in the manner described above for lamp 10.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention I claim as new and desire to secure by Letters Patent:

1. In combination, an electric lamp socket comprising an insulating tubular housing having an open mouth portion, a screw shell within said housing, a screw threaded lamp base receiving the shell fixed within said housing, the rim of said mouth portion being formed with a notch on the inner surface thereof, a lamp having a screw threaded base screwed to said shell, said base having a spring finger adjacent the bulb of said lamp adapted to snap into said notch upon screwing said lamp to said shell.

2. In combination, an electric lamp socket comprising an insulating tubular housing having an open mouth portion, and a fixed screw shell within said housing, a screw threaded lamp base receiving the shell fixed within said housing, the rim of said mouth portion being formed with a notch on the inner surface thereof, a lamp having a screw threaded base screwed to said shell, said base having a spring finger adjacent the bulb of said lamp adapted to snap into said notch upon screwing said lamp to said shell, said finger being formed from a portion of the wall of said base.

In testimony whereof I affix my signature.

LOUIS PROPP.