F. M. ROSENFELD.

LIGHTING DEVICE.

APPLICATION FILED JAN. 31, 1920.

1,390,389. Patented Sept. 13, 1921.

Fig. 1

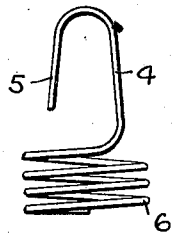


Fig. 4

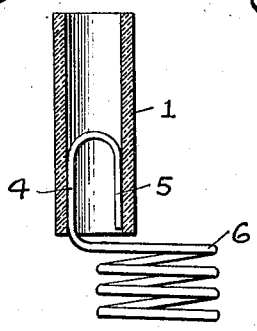


Fig. 5

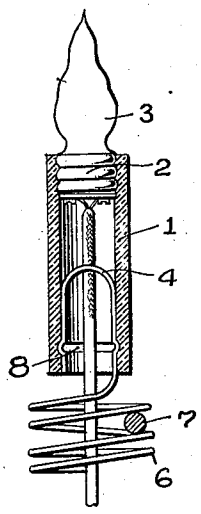


Fig. 7

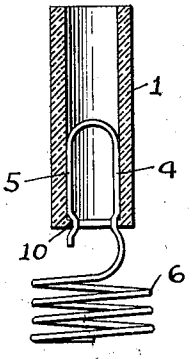


Fig. 2

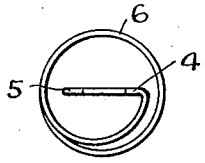


Fig. 3

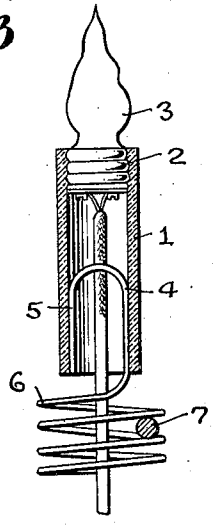


Fig. 6

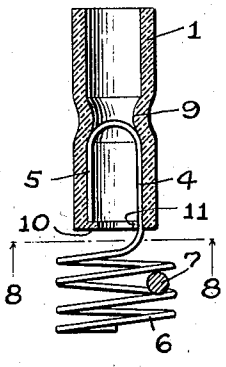
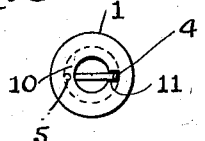


Fig. 8



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UNITED STATES PATENT OFFICE.

FRANCIS M. ROSENFELD, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO DIAMOND ELECTRIC SPECIALTIES CORPORATION, OF NEWARK, NEW JERSEY, A CORPORATION OF NEW JERSEY.

LIGHTING DEVICE.

1,390,389. Specification of Letters Patent. Patented Sept. 13, 1921.

Application filed January 31, 1920. Serial No. 355,404.

To all whom it may concern:

Be it known that I, FRANCIS M. ROSENFELD, a citizen of the United States, and a resident of the city, county, and State of New York, have invented an Improvement in Lighting Devices, of which the following is a specification.

The present invention relates to an improvement in lighting devices and more particularly to the kind including lamp holders made in imitation of candles commonly used for illuminating Christmas trees and for other decorative purposes. One object of the invention is to provide a device including a lamp support which may not only be readily attached to and detached from a Christmas tree or other similar object to be illuminated, but which may also be easily attached to and detached from the lamp holder. A further object of the invention is to provide a support which, while readily attachable to and detachable from the holder, will normally engage said holder securely in holder supporting relation. It is also contemplated that devices embodying the present invention may permit the lamp holder to be readily adjusted to different positions and attached and detached without permanently distorting or injuring the support.

An embodiment of my invention is illustrated in the drawings which form a part of the present specification and in which,

Figure 1 is an elevation,

Fig. 2, a plan view,

Fig. 3, an elevation with a lamp and the support assembled and mounted,

Fig. 4, a modification partly in vertical section showing the holder engaging portion of the support offset from the gripping coil,

Figs. 5, 6 and 7, modifications partly in vertical section showing interlocking means between the holder and the support, and

Fig. 8, is a bottom view partly in cross section on the line 8—8 of Fig. 6.

Referring to the drawings, a device embodying my invention may comprise means for supporting a hollow candle shaped lamp holder 1 which is commonly provided with a metallic lamp receiver to which conductors 2 may be secured to provide current for an electric lamp 3 of any suitable form. For the purpose of retaining holder 1 in an upright or in any other desired position, means are provided to interiorly engage said holder and may comprise a single strip of wire having opposed holder engaging portions 4 and 5 continuous with and carried by an attaching portion 6 preferably in the form of a coil arranged to yieldingly grip a branch of a Christmas tree indicated in Fig. 3, or other object to be illuminated.

As indicated more clearly in Figs. 5 to 8 inclusive, means may be provided for effecting secure engagement between the holder 1 and its support. Fig. 5 shows a holder provided with an interiorly arranged annular groove 8 constituting in effect an enlargement of the opening of the holder 1 which may of course be of any desired cross sectional shape. In the form of device shown in Fig. 6 an annular projection 9 constricts the opening of the holder 1, as does also the interiorly extending flange 10, Figs. 6 and 7. Where the interior opening of the holder varies in extent so as to form relatively constricted portions adjacent to enlarged portions, the opposed holder engaging portions 4 and 5 of the wire support may be bent to conform to the interior surfaces of the holder. Thus, where the normal distance between portions 5 and 6 is sufficiently greater than the extent of the interior opening of the holder, said portions will press yieldingly against the interior surface when in engagement therewith. And, if the members 4 and 5, or either of them, are provided with deformations corresponding to the deformations on the interior surface, the holder will be the more securely retained in effective engagement with the support. Where it is desired to lock the holder positively against rotation relatively to the support, a notch 11 may be provided, as shown in Figs. 6 and 8. This construction also affords a positive lock against endwise movement of the holder 1 relatively to the support because the flange 10 engages the free end of the portion 5 preventing removal of the holder from the support, and the annular projection 9 serves to limit the extent of movement of the support into the holder.

It is believed that the mode of operation of the devices hereinabove described will be apparent from examination of the drawings

taken with the description. Also, it will be clear that a lighting device comprising an electric lamp holder of hollow or recessed construction, and a support for the holder consisting of a wire having a portion adapted to engage the interior of the holder and a portion in the form of a gripping coil presents various advantages both in use and in manufacture. Since safety in use is an important consideration the additional security features of applicant's improved lighting device will enhance its utility without materially increasing the cost of production.

I claim as my invention:

1. A lighting device comprising a hollow lamp holder having a portion of its interior opening constricted relatively to the normal opening and a support for said holder consisting of a single length of wire having one portion bent to engage surfaces of said constricted portions to retain said holder and said support in effective relation and another portion arranged in convolutions to form a gripping coil.

2. A lighting device comprising the electric lamp holder 1, and a separate holder supporting member detachable therefrom and consisting of a single length of wire including the gripping coil 6 and the opposed holder engaging portions 4 and 5.

3. A Christmas tree lighting device comprising a hollow lamp holder simulating a candle stick and a support adapted to retain the lamp holder in upright position on a Christmas tree and having one end arranged in convolutions to form a gripping coil and the other end bent back upon itself to form a hook shaped member adapted to project through an open end of the holder and to support the same securely and in a position with its longitudinal axis substantially parallel with the axis of the coil.

4. A Christmas tree lighting device comprising in combination a hollow lamp holder and a support adapted to retain the lamp holder in upright position on a Christmas tree and having one end arranged in convolutions to form a gripping member and the other end bent back upon itself to form a hook shaped member adapted to project through an open end of the holder and to support the same in operative position on a Christmas tree.

In testimony whereof, I have signed my name to this specification this 28th day of January, 1920.

FRANCIS M. ROSENFELD.