E. C. FISHER.

ILLUMINATING DEVICE.

APPLICATION FILED SEPT. 20, 1919.

1,360,387.

Patented Nov. 30, 1920.

2 SHEETS—SHEET 1.

Fig. 1

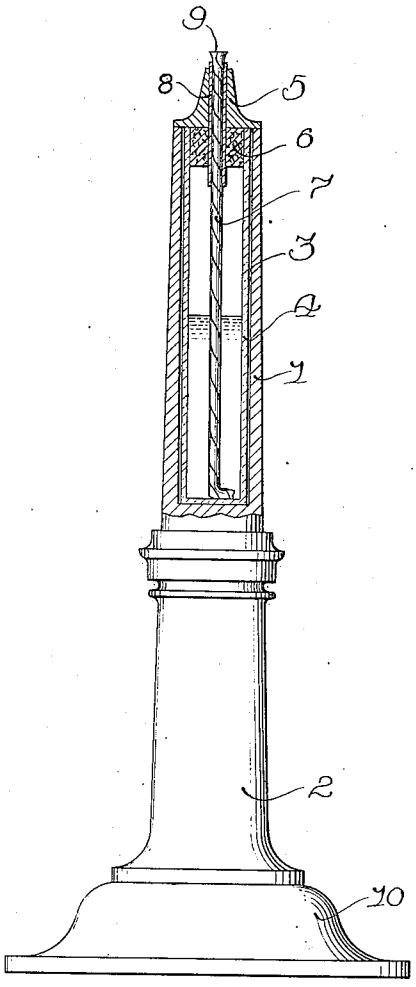
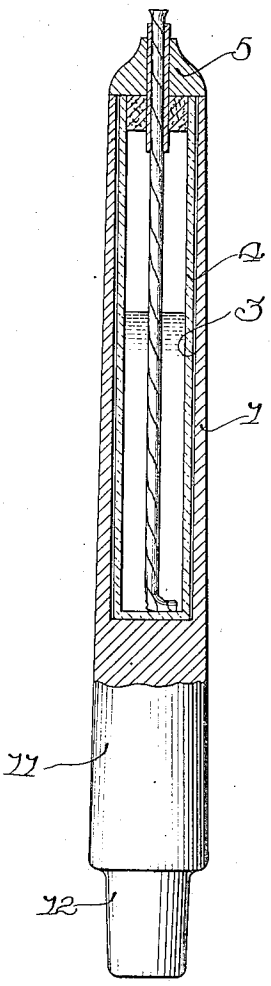


Fig. 2



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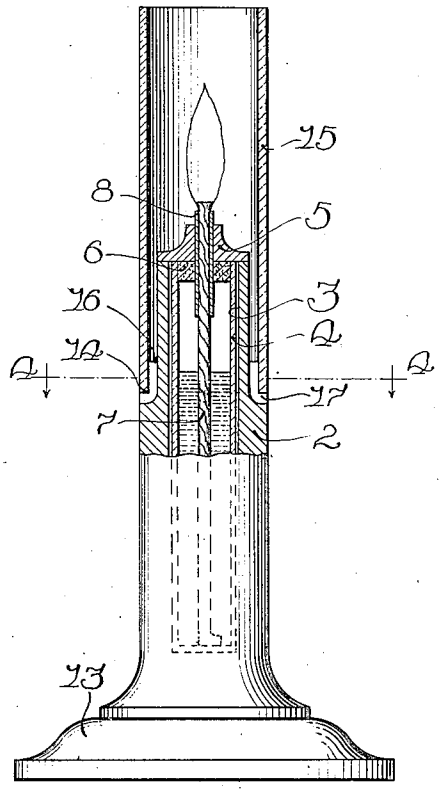
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2 SHEETS—SHEET 2.

Fig. 3



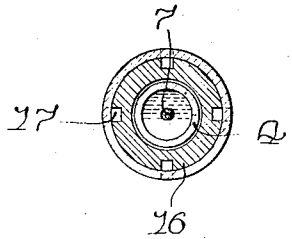


Fig. 4

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UNITED STATES PATENT OFFICE.

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ILLUMINATING DEVICE.

1,360,387. Specification of Letters Patent. Patented Nov. 30, 1920.

Application filed September 20, 1919. Serial No. 325,171.

To all whom it may concern:

Be it known that I, EUGENE C. FISHER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Illuminating Devices, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to improvements in illuminating devices and has special reference to a lamp made to simulate a candle.

The object of my invention is to provide a lighting device which shall have the appearance of a candle and which will not waste away, but will remain of the same external dimensions and appearance.

My invention comprises an outer casing having the external dimensions, shape and appearance of a candle or a combined candle and candle-stick, as the case may be, preferably made of wood or some other suitable material, which can be finished in imitation of a candle and stick and having a chamber in its upper part for receiving a suitable oil font. The font extends to the top of the casing and is closed by a top piece having the shape and appearance of the upper end of an unburned candle. Secured to the top piece is a cork for closing the font and a metal wick tube, preferably aluminum, extends through the top piece and the cork, thus protecting the top piece and cork and also serving to conduct heat down along the wick so that the oil which is carried up to the flame is heated to a certain degree before it reaches the flame.

As indicated by the several drawings my invention may be embodied in an ordinary full sized candle adapted to be used in any candle-stick or suitable socket, or a combined candle and candle-stick, or in one special form, as a candle having a chimney or guard, made of colored or opaque glass or other suitable translucent material adapted to reduce the light emitted by the flame for use as a night lamp.

In said drawings:

Figure 1 is a side elevation, partly in section, of a combined candle and candle-stick embodying my invention;

Fig. 2 is a side elevation, partly in section, of a candle adapted to be placed in a suitable candle-stick or socket;

Fig. 3 is a side elevation, partly in section, of a combined candle and candle-stick arranged for use as a night lamp; and

Fig. 4 is a horizontal section on the line 4—4 of Fig. 3.

In said drawings, 1 is an outer casing having the shape, at least, at its upper part, of a candle and which may be formed at its lower part 2 to simulate a candle stick.

In the various embodiments of my invention the casing 1 has an open topped central chamber 3 in its upper part for receiving a relatively long oil font 4, which substantially fills the chamber 3 and has its upper open end substantially flush with the upper end of the casing. The font rests upon and is supported by the bottom wall of the chamber 3.

I provide a tapered top piece 5 which is made to simulate the upper end of an unburned candle and is flared at its lower end to the outer diameter of the upper end of the casing, to properly coöperate therewith to simulate a candle. I close the upper end of the font preferably by a cork 6 secured to the underside of the top piece and adapted to fit tightly within the upper end of the font. The cork 6 connects the top piece 5 with the font so that the font can be removed from the chamber 3 by means of the top piece.

The font 4 contains the oil for the flame and I provide a wick 7, extending down through the top piece and the cork and to the bottom of the font. To protect the top piece and the cork from the flame temperature, I provide a metallic tube 8 extending centrally through them and projecting a short distance above the upper end of the top-piece. I preferably make this tube of a metal which is a good conductor of heat, such as aluminum or brass, and the heat is conveyed thereby down along the wick. The heat conveyed to the wick serves to heat the oil which is being drawn up the wick, so that when it reaches the tip 9 of the wick, it burns without smoke, which is especially true of the heavier oils such as kerosene.

The description thus far applies equally to the several embodiments of my invention shown, except as to the lower end. In Fig. 1 as described the lower part 2 simulates a candle-stick having a relatively large base 10, so that the device is stably supported in upright position when in use. In Fig. 2 the lower part 11 is formed like the lower end of the relatively large candle

with a tapered extreme lower end 12 adapted to fit in a suitable socket or candle stick for holding the device in upright position.

The form shown in Fig. 3 has a base 13, similar to the base 10, simulating a candle stick. In this form I provide the casing with an annular shoulder 14 below its upper end adapted to receive and support a cylindrical chimney 15. The chimney surrounds the upper part of the candle and the flame and can be made of opaque or colored glass to reduce the light from the flame, thus converting the device into a night lamp.

To hold the chimney central, I provide a shoulder 14 upon which it rests, there being an annular space 16 between the chimney and the body part. Air is admitted to the bottom of the chimney by way of the passageways 17.

The font can be readily lifted from the casing and the cork removed from the font for filling the font with the oil.

The device is especially suitable for ornamental illuminative purposes, particularly as its shape is permanent and it is capable of being as highly ornamental as desired.

As my invention is capable of many obvious modifications, I do not limit or confine the invention to the specific structure herein shown and described.

I claim:

1. An illuminating device comprising a cylindrical casing simulating a candle in appearance, said casing having a coaxial well therein, an oil font removably disposed in and substantially filling said well, a closure for said font, a metallic tube extending through said closure, and a wick passing through said tube and depending into said font.

2. An illuminating device comprising a cylindrical casing simulating a candle in appearance, said casing having a coaxial well therein, an oil font removably disposed in and substantially filling said well, a closure for said font, a metallic tube extending through said closure, and a wick passing through said tube and depending into said font, said font having its top flush with the top of said casing and said closure having a flange resting on the top of said casing and being coextensive therewith.

3. An illuminating device comprising a cylindrical casing simulating a candle in appearance, a base simulating a candle stick and integral with said casing, an oil chamber in said casing, a closure for said chamber, and a wick passing through said closure and depending into said chamber.

4. In a device of the kind described, a casing having an open topped chamber at its upper end, an oil font in said chamber and having its upper end substantially flush with the top of the casing, a closure for the font and the casing, a wick extending through the closure and into the font, an annular shoulder on the casing below its upper end adapted to secure and support a light dimming chimney, an annular projection on the casing above the shoulder adapted to hold a chimney centrally on the casing, and means for admitting air into the lower end of the chimney around said casing.

5. In a device of the kind described, a casing having an open topped chamber at its upper end, an oil font substantially filling the chamber and having its upper end substantially flush with the top of the casing, a closure for the casing and the font, a metallic wick-tube extending centrally through the closure and its upper end extending above the closure, an annular shoulder on the casing below its upper end, a chimney extending above the casing and resting at its lower end on said shoulder, an annular projection on the casing above said shoulder fitting within the lower end of the chimney and said casing having air admission channels extending from its outer surface beneath said chimney and up through said annular projection.

In witness whereof I hereunto subscribe my name this 16th day of September, 1919.

EUGENE C. FISHER.