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J. D. HALL

1,842,167

CANDLE LAMP

Filed Sept. 9, 1929

Fig. 1.

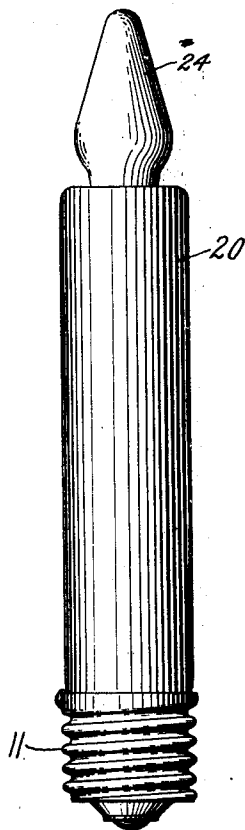


Fig. 2.

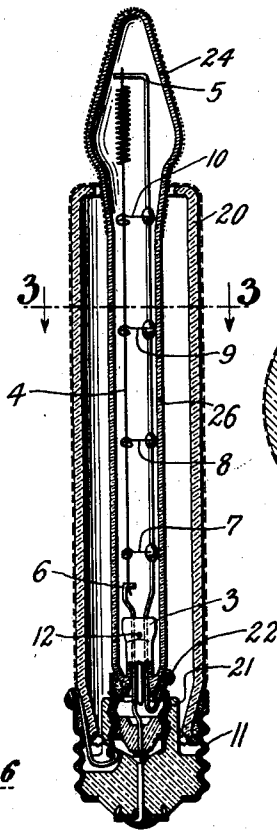


Fig. 3.

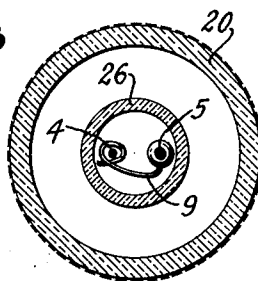


Fig. 5.

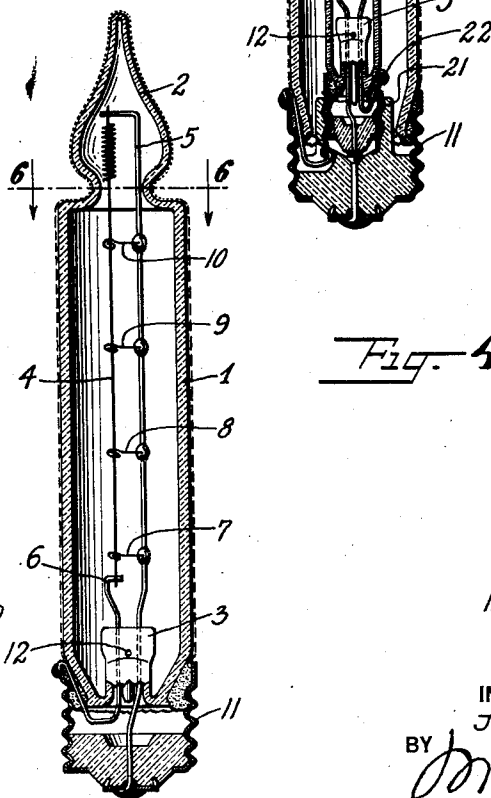


Fig. 6.

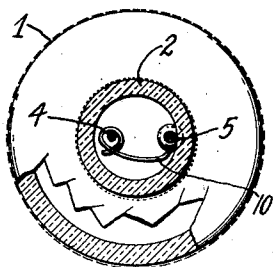
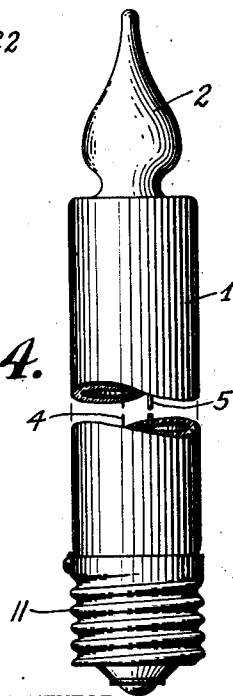


Fig. 4.



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CANDLE LAMP

Application filed September 9, 1929. Serial No. 391,189.

This invention relates to incandescent electric lamps and more particularly to incandescent electric lamps of the decorative type, and has for its object the provision of a novel type of incandescent electric lamp which when lighted simulates in appearance a lighted candle.

Another object of this invention is to provide a candle shaped lamp having a tip or wick portion operating at a relatively high luminosity and a lower or candle portion operating at a relatively low luminosity.

Another object of this invention is to provide an incandescent electric lamp shaped in the configuration of a candle and adapted to be used in the usual lamp socket, having an upper bright or wick portion and a lower relatively less bright candle portion.

Other objects and advantages will become apparent as the invention is more fully disclosed.

Heretofore it has been customary to form candle lamps in the configuration of a tip or wick of a candle and colored to simulate a flame when lighted which lamps are inserted into a socket concealed in a candle shaped base or candelabra. The assembly does not appear realistic and often the size of the lamp tip or wick portion is out of proportion with respect to the size of the base or candle portion.

By means of the present invention I am enabled to overcome these disadvantages and to produce a novel and realistic appearing candle lamp, as will be more fully disclosed. Before further disclosing the nature of the present invention reference should be had to the accompanying drawings wherein;

Figs. 1, 2 and 3 set forth one specific embodiment of the present invention, and

Figs. 4, 5 and 6 set forth a second specific embodiment of the same.

Fig. 1 is a side elevational view of a candle lamp constructed in accordance with one specific embodiment of the present invention.

Fig. 2 is a side elevational view partly in cross-section of the same showing the type of filament mount employed.

Fig. 3 is a cross-sectional view of the same lamp taken through plane III—III Fig. 2.

Fig. 4 is a side elevational view of a second specific embodiment of the present invention,

Fig. 5 is a side elevational view partly in cross-section of the same showing the type of filament mount employed, and

Fig. 6 is a cross-sectional view of the same taken through plane VI—VI, Fig. 5.

A lamp constructed in accordance with the present invention in its simplest construction may be a unitary device such as shown in Fig. 4 comprising essentially in a tubular shaped enclosing glass envelope 1 having one end shaped in the configuration of a wick or flame 2 which may be fluted or not as desired, and the other end fusibly united to the flare tube of a filament mount attached to the stem 3, the filament 4 of said mount extending along the longitudinal axis of the enclosing envelope 1 terminating at one end into a segment shaped in the convolution of a coil located within the tip or wick section of the enclosing glass envelope 1 and retained therein by filament lead support wire 5 and extending as a straight, fluted or corrugated filament segment through the center of the tubular section of the lamp.

The lower end of the filament 4 is attached in any convenient manner to lead wire 6. The filament is retained in position along the longitudinal axis of the enclosing glass envelope 1 by means of filament retaining members 7, 8, 9 and 10 which are integrally attached to, but electrically insulated from, support wire 5.

The filament support wires 5 and 6 are electrically connected through the press of the stem 3 of the mount to the screw base 11 in the usual manner. The exterior surface of the lamp is coated by well known prior art methods in any desired color or combination of colors. The lamp may be of the evacuated or gas filled type as desired and may be evacuated in a manner heretofore employed in incandescent lamps of other types, such as indicated at 12 through the use of stems of the tipless type. If desired, however, it is possible to evacuate the lamp through a tubulature attached to the apex of the tip 2.

As a modification of the simplest construction

tion of my invention the candle lamp may be a composite device, one unit of which comprises an outer tubular shaped shell 20 which may be of glass, one end of which is open
5 and the other end of which is sealed in the usual manner to a lamp base 11 of the usual type and containing internally adjacent said base and electrically connected thereto a lamp socket 21 adapted to receive a lamp base 22
10 of smaller diameter than the external lamp base of shell 20.

The second unit of the lamp comprises an elongated tubular shaped enclosing glass envelope 23 shaped at one end to the configuration of a candle tip or wick or flame, 24 and
15 fluted if desired, and fusibly united at the other end to the flare of the stem 3 in the usual manner, the stem carrying a two sectioned filament 4 mounted in a manner analogous to that heretofore described in the first
20 specific embodiment, and electrically connected through the press of the stem 3 to the base of smaller diameter 22 integral with the enclosing glass envelope 23. This lamp may
25 also be evacuated or gas filled as desired, and the stem 3 may also be of the tipless type.

The advantages gained through the use of the structure shown in Figs. 1, 2 and 3 are that the tip 24 of the lamp may be flame
30 tinted or any other desired color and the lower portion of the enclosing glass envelope 23 clear or colored any desired color and the outer shell 20 may be of any desired color. If a color change is desired a change in the
35 outer shell 20 only need be made. The consumer therefore may have a set or series of outer shells of different desired colors which are interchangeable at will and utilize only one set of incandescent lamps, whereas in
40 the first specific embodiment a consumer must interchange entire lamps and sometimes the fixture itself in order to change the color scheme of the candle lamp.

In either specific embodiment, however, I
45 obtain substantially the same lighting effect namely an upper or wick or flame portion operating as a result of the section of coiled filament interiorly located therein, at a relatively high luminosity and a lower or candle
50 portion of a lamp operating at a relatively low or diffused luminosity, as a result of the straight segment of filament centrally traversing the longitudinal axis of the tubular section of the lamp.

55 Having broadly and specifically outlined the nature of my invention and given two specific embodiments of the practice of the same it is apparent that there may be many variations and departures thereof without
60 substantially departing from the invention as set forth in the following claims.

What is claimed is:

1. In an incandescent electric lamp comprising a filament and an enclosing tubular
65 shaped glass envelope, a filament mount com-

prising a stem, lead wires sealed there-through and filament support wires, one of which extends interiorly substantially the entire length of said tubular shaped envelope and a filament disposed between said support wires, a filament comprising an upper coiled section adapted to give a light of high local intensity and a lower straight section adapted to give a light of low local intensity.

2. An incandescent electric lamp comprising a tubular shaped glass envelope, a filament comprising a coiled section to give light of relatively high intensity disposed adjacent to one end of said envelope and a straight portion extending to the opposite end of said envelope to give light of relatively low intensity.

3. An incandescent electric lamp comprising a candle shaped glass envelope having a hollow flame shaped portion integral therewith, a filament comprising a section of relatively high light giving intensity in said flame shaped portion and a section of relatively low light giving intensity in said candle shaped portion.

In testimony whereof, I have hereunto subscribed my name this 6th day of September, 1929.

JAMES DOYLE HALL.