Aug. 25, 1925. 1,551,482

T. M. HAMILTON

INCANDESCENT ELECTRIC LAMP BULB

Filed June 1, 1923

Fig. 1.

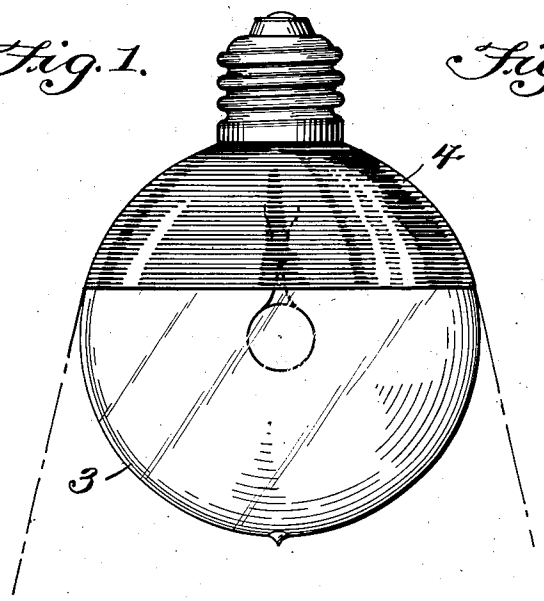


Fig. 2.

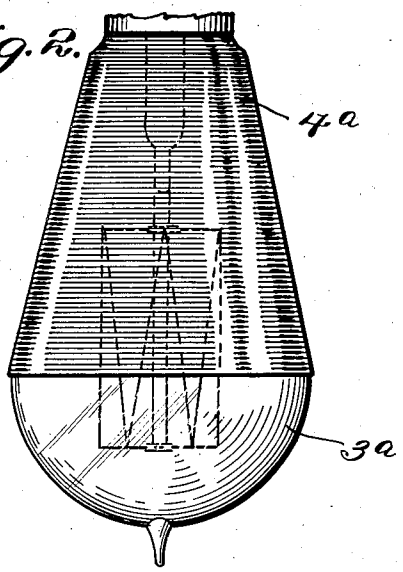


Fig. 4.

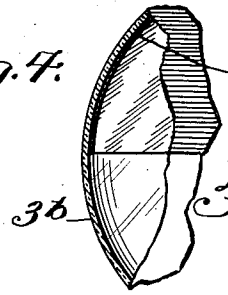


Fig. 7.

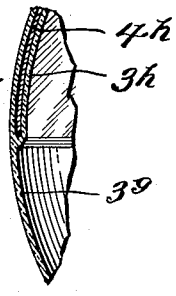


Fig. 3.

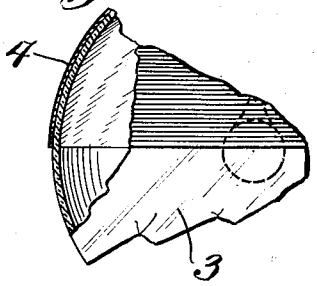


Fig. 5.

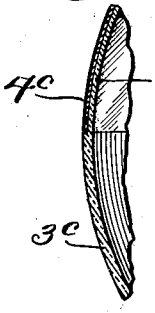
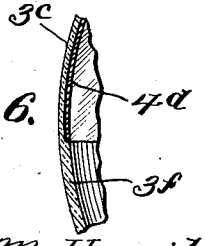


Fig. 6.



T. M. Hamilton
INVENTOR

BY Victor J. Evans
ATTORNEY

J. L. Wright
Thomas E. Turpin
WITNESSES.

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UNITED STATES PATENT OFFICE.

TYRE M. HAMILTON, OF HAPEVILLE, GEORGIA.

INCANDESCENT-ELECTRIC-LAMP BULB.

Application filed June 1, 1923. Serial No. 642,808.

To all whom it may concern:

Be it known that I, TYRE M. HAMILTON, a citizen of the United States, residing at Hapeville, in the county of Fulton and State of Georgia, have invented new and useful Improvements in Incandescent-Electric-Lamp Bulbs, of which the following is a specification.

The object of my said invention is the provision of an incandescent electric lamp bulb having at its upper portion a mirror adapted to serve as a reflector and thereby increase the illuminating capacity of the lamp.

To the attainment of the foregoing, the invention consists in the improvement as hereinafter described and definitely claimed.

In the accompanying drawings, forming part of this specification:—

Figure 1 is an elevation of an incandescent electric lamp constructed in accordance with my invention.

Figure 2 is a side elevation of a lamp with a bulb of different shape constructed in accordance with my invention.

Figure 3 is a fragmentary section taken through the bulb of the embodiment in Figure 1.

Figures 4, 5, 6 and 7 are fragmentary sections illustrative of modifications hereinafter explicitly referred to.

Similar numerals designate corresponding parts in Figures 1 and 3, to which reference will first be made.

The incandescent electric lamp of Figure 1 comprises the usual threaded neck 1, filament 2 and glass bulb 3.

In accordance with my invention the upper portion of the glass bulb 3 is provided at 4 and above the horizontal center of the bulb with a mirror, the reflecting surface of which is toward the interior of the bulb and is therefore adapted to reflect the light afforded by the incandescent filament and in that way increase the illuminating capacity of the lamp. As shown in Figure 3 the mirror 4 is arranged at the outer side of the glass bulb 3.

In Figure 2 the mirror 4^a is arranged at the outer side of the glass bulb 3^a, and both mirror and bulb are shaped differently from the corresponding elements in Figures 1 and 3.

In Figure 4 the mirror 4^b is arranged at the inner side of the glass bulb 3^b of the incandescent electric lamp.

In Figure 5, the upper portion of the glass bulb 3^c, is reduced in thickness as designated by 3^d and the mirror 4^c is arranged at the outer side of the said bulb portion 3^d and so that the exterior surface of the mirror is arranged flush with the exterior surface of the major portion of the bulb. This relative arrangement of the glass bulb and the mirror manifestly contributes to the finished appearance of the bulb without interfering in any measure with the reflecting capacity of the mirror 4^c, which, of course, is arranged with its reflecting surface inwardly.

In the embodiment of Figure 6, the mirror 4^d is arranged with its reflecting surface innermost, and is also arranged at the inner side of a comparatively thin upper portion 3^e of the bulb 3^f so that the mirror 4^d rests flush with the inner side of the major portion of the bulb 3^f, thereby contributing to the finished appearance of the bulb.

In the embodiments shown in Figures 4 and 6, the mirrors are placed in the bulbs at the time of manufacture of the latter by artisans skilled in glass working.

In the modification of Figure 7, the bulb 3^g has its upper portion shaped in the form of a pocket 3^h, and the mirror 4^h is arranged in the said pocket 3^h, the mirror being formed by quick silver or any other appropriate substance possessed of reflecting capacity, deposited in the said pocket 3^h.

It will be apparent that all of the embodiments disclosed are susceptible of being inexpensively produced, and that while each embodiment contributes to the illuminating capacity of the lamp, it does not detract from the finished appearance of the lamp nor does it increase the cost of the lamp to any great extent.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiments of my invention in order to impart a full, clear and exact understanding of the said embodiments. I do not desire, however, to be understood as confining myself to the specific construction and relative arrangement of parts inasmuch as in the future practice of the invention various changes and modifications may be made such as fall within the scope of my invention as defined in my appended claims. For instance while I have shown and described an electric lamp bulb as characterized by my improvement, I desire it distinctly un-

derstood that the improvement may form part of the upper portion of a lamp chimney of glass with a view to increasing the illuminating capacity of the lamp.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:—

1. In an incandescent electric lamp, a glass bulb enclosing a filament and having a mirror the reflecting surface of which is presented toward the interior of the bulb; a portion of the glass bulb being of reduced thickness and terminating in a shoulder, and the mirror being in the form of a layer applied to said reduced thickness and arranged flush with the remainder of the glass bulb.

2. In an incandescent electric lamp, a glass bulb carried by a neck and enclosing a filament and having adjacent to the neck a mirror the reflecting surface of which is presented toward the interior of the bulb; the portion of the glass bulb adjacent to the neck being of reduced thickness and terminating in an exterior shoulder, and the mirror being in the form of a layer applied exteriorly to said reduced thickness and arranged flush with the remainder of the glass bulb.

In testimony whereof I affix my signature.

TYRE M. HAMILTON.