Jan. 10, 1928. 1,655,761

P. DUFFY

ELECTRIC INCANDESCENT LAMP

Filed April 2, 1927

Fig. 2.

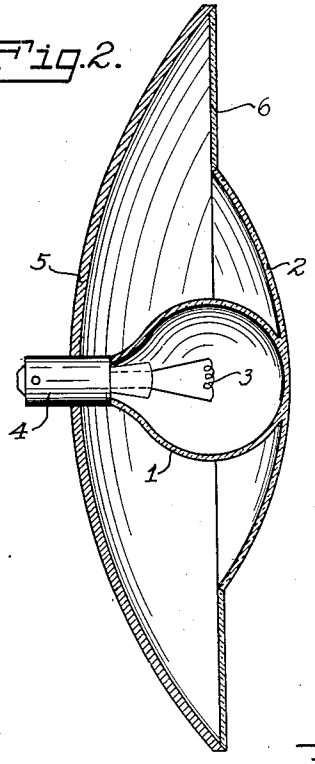
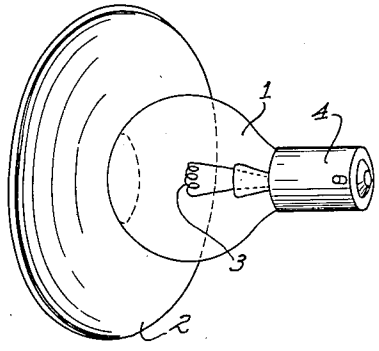


Fig. 1.



INVENTOR.
Paul Duffy.
BY Grant Griffith.
ATTORNEY.

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PAUL DUFFY, OF SAN FRANCISCO, CALIFORNIA.

ELECTRIC INCANDESCENT LAMP.

Application filed April 2, 1927. Serial No. 180,456.

The present invention relates to improvements in electric incandescent lamps, and with reference more particularly to those adapted for electro-therapeutical, general lighting, and automobile headlight uses.

A primary object of the invention is to provide an electric lamp carrying within itself and as a part of its construction all the elements necessary to the production of an indirect light of a selected color.

Another object is the provision in a device of the character designated of a bulb bearing as an integral part of its forward wall section a concavo-convex section of a selected color adapted to serve as both a reflector and a transmitter of the light as received from an incandescent filament.

A further object of the invention is the provision in an electric incandescent lamp of a transparent bulb bearing as an integral part thereof a light reflective-transmissive shield of a selected color adapted to act in combination with a reflector and a ray-filter for the production of a diffused light of a selected color.

An additional object in a device of the character designated is the provision of a combination of reflective elements coactively associated and adapted to serve as both shade and reflector for the creation of a diffused light.

Other objects and advantages will become apparent as this specification progresses, and be more fully set forth in the claims hereto appended.

In the accompanying drawings, forming a part of this specification, and in which similar characters of reference refer to like parts throughout;

Figure 1 is a perspective view illustrative of the electric light bulb and its integrally borne concavo-convex section, in combination with its coactively associated reflective element and ray-filter.

Figure 2 is a sectional view of the electric bulb and its filament, showing the bulb as bearing integrally a concavo-convex nose section of both light reflective and light transmissive character; and

Referring more particularly to the drawings, 1 represents a transparent glass bulb of preferably approximately spherical form and bearing forwardly as an integral part thereof a light reflective-transmissive shield 2 of concavo-convex form, 3 the bulb filament of concentrated character, 4 the bulb base, 5 the reflector borne by the bulb base, and 6 a ray-filter adapted to intercept, or screen out, all the constituent colors of white light excepting a particular selected color.

For electrotherapeutical treatments, the lamp would be as represented in Figure 1, the ray-filter being of the ray-color desired to be used, that is if of violet, then the screen 6 would be of violet color. If the device was to be employed for the production of a diffused light for general illumination, the screen 6 would be eliminated, and if for use as a headlight lamp it would be used in its simplest form as illustrated in Figure 2, in replacement of the ordinary electric bulb.

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

1. An electric incandescent lamp, comprising a base, a transparent bulb of substantially spherical contour having as an integral part thereof a concavo-convex nose section opposite the base and of a greater diameter than the length of the major axis of said bulb and of both a light reflective and light transmissive character throughout, the central section thereof constituting the nose of said bulb and having its concave side affixed thereto, and a filament.

2. An electric incandescent lamp, comprising a base, a transparent bulb of substantially spherical contour having as an integral part thereof a concavo-convex nose-section opposite the base and of a greater diameter than the length of the major axis of said bulb and of both a light reflective and light transmissive character throughout, the central section thereof constituting the nose of said bulb and having its concave side affixed thereto, a concentrated filament within said bulb, and a reflective element borne by said base.

3. An electric incandescent lamp, comprising a base, a transparent bulb of substantially spherical contour having as an integral part thereof a concavo-convex nose-section opposite the base and of a greater diameter

than the length of the major axis of said bulb and of both a light reflective and light transmissive character throughout, the central section thereof constituting the nose of said bulb, a concentrated filament within said bulb, and having its concave side affixed thereto, a reflective element borne by said base, and a ray-filter between said concavo-convex section and said reflector and arranged concentrically therewith.

In testimony whereof, I hereby affix my signature.

PAUL DUFFY.