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LIGHTING UNIT

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7 Claims. (Cl. 240—81)

My invention relates, generally, to lighting units, and, more particularly, to lighting units adapted to provide a source of ordinary illumination or visible light combined with a source of ultra-violet light.

The object of my invention generally stated is to provide a dual purpose lighting unit which shall be simple and economical to manufacture, and which may be readily used for illuminating and therapeutic purposes.

A more specific object of my invention is to provide a floor, table or desk lighting unit wherein provision is made for supporting a source of ultra-violet light in such manner that it may be utilized to the greatest advantage and with the utmost ease on the part of the user.

Another object of my invention is to provide a standard for a floor, desk or table lamp having a harp section or element which may be utilized for supporting a source of ultra-violet light in the most advantageous manner.

A further object of my invention is to provide, in a lighting unit having a source of visible light and a source of ultra-violet light, for controlling the ultra-violet source by means of a voltage reducer located in the base of the unit.

Still another object of my invention is to provide a lighting unit wherein provision is made for obtaining both direct and indirect illumination and for also obtaining ultra-violet light rays in the most effective and desirable manner.

For a more complete understanding of the nature and objects of my invention, reference may now be had to the drawing in which;

Figure 1 is an elevational view of a floor lamp embodying the principal features of my invention;

Fig. 2 is an enlarged detail view of the reflector and mounting for the reflector for the ultra-violet lighting unit shown in Fig. 1;

Fig. 3 is a modification of the unit illustrated in Fig. 1;

Fig. 4 is an enlarged detail view of a modified form of reflector and mounting therefor; and

Figs. 5, 6, 7 and 8 are diagrammatic views of the connections which may be used for energizing and controlling the light sources employed in the units illustrated in Figs. 1 and 3.

Referring now to the drawing, there is illustrated in Fig. 1 a lighting unit commonly known as a floor lamp comprising, generally, an upright member or standard 10 provided at its lower end with a base 11 and at its upper end with a suitable socket 12 which may be utilized to hold a light source such, for example, as an ordinary incandescent lamp 13 to provide visible illumination. In these respects the unit illustrated does not differ fundamentally from other well known units of the same general kind and it is to be understood that the novel features of the invention which are to be described in detail hereinafter may be embodied in any kind of a unit regardless of its structural and ornamental characteristics.

I have discovered that an ultra-violet light source may be utilized to great advantage by suitably combining it with a lighting unit of the general type shown whether it be an ordinary floor lamp, reading lamp, table lamp, bridge lamp, therapeutic lamp or otherwise, in such manner that the ultra-violet source may be utilized by anyone using the lighting unit or by anyone in the near vicinity thereof.

In order to accomplish this purpose, the upright member or standard is provided with a suitable intermediate section or member 14 which for convenience may be termed a harp, which may be utilized as a mounting or support for the ultra-violet light source 15 which may take the form of a lamp, as shown.

In this particular instance, the harp 14 is provided with a suitable socket 16 which is adapted to support the ultra-violet lamp 15 in a downward position, as shown. It will be readily understood, of course, that the ultra-violet lamp 15 may be mounted in any desired position although it should be preferably so mounted and positioned as to provide a symmetrical and pleasing design.

As illustrated, the harp 14 is circular in shape but any other desirable shape or form may be used, such, for example, as oval, rectangular, hexagonal or the like, or it may be open on one side with a single bow member, or whatever shape it may be, located in any desired position with respect to the lamp 15. The harp may be formed as an integral part of the standard or as a separate element.

It is also to be understood that the position of the harp with respect to the base 11, may be as desired and to best suit the use for which it is intended and to comply with the tastes of the designer and purchaser.

In order to provide for controlling to some extent the direction of the ultra-violet rays from the lamp 15, there is provided a suitable reflector 17 which may be adjustably supported in any suitable manner adjacent to the lamp 15. In this embodiment of the invention the reflector is supported by means of a U-shaped member 18, at-

source of ultra-violet light visibly mounted within the harp section, a reflector, and means secured to the standard for supporting the reflector adjacent the ultra-violet light source for directing the rays therefrom.

4. A lighting unit comprising, in combination, a source of visible light, a standard provided with a socket at the top thereof for supporting the source of visible light and a base for supporting the standard, a source of ultra-violet light, a harp device of circular shape interposed intermediate the socket at the top of the standard and the base and constituting a supporting portion of the standard for visibly supporting the source of ultra-violet light below the source of visible light and at a different height from the base than the source of visible light, and reflector means secured directly to the harp device for directing the ultra-violet radiations.

5. A lighting unit comprising, in combination, a source of visible light, a standard provided with a supporting base and a socket at the top thereof for supporting the source of visible light, said standard being divided into two sections, a source of ultra-violet light, means joining the two sections of the standard together for visibly supporting the ultra-violet light source intermediate the base and the source of visible light, said means constituting a supporting section of the standard, and a reflector adjustably mounted upon said means for directing the ultra-violet radiations.

6. A lighting unit, in combination, a source of visible light, a standard provided with a base and a socket at the top thereof for supporting the source of visible light, a source of ultra-violet light, said standard being provided with a supporting harp section intermediate the base and the socket, means for visibly supporting the source of ultra-violet light within the harp section below the source of visible light and at a different height from the base than the source of visible light, and a reflector supported by the harp section for directing the radiations from the ultra-violet light source.

7. A lighting unit comprising, in combination, a plurality of incandescent lamps, a standard provided with sockets at the top thereof for supporting said lamps and a base, a reflector shade supported by said standard adapted to direct the rays from some of said lamps upwardly and the rays of others downwardly to provide indirect and direct illumination, said standard being provided with a supporting harp section intermediate the top and base, an ultra-violet lamp visibly mounted in said harp section, and adjustable reflector means mounted on the standard for directing radiations from the ultra-violet lamp.

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INGOT TRANSFER ARM

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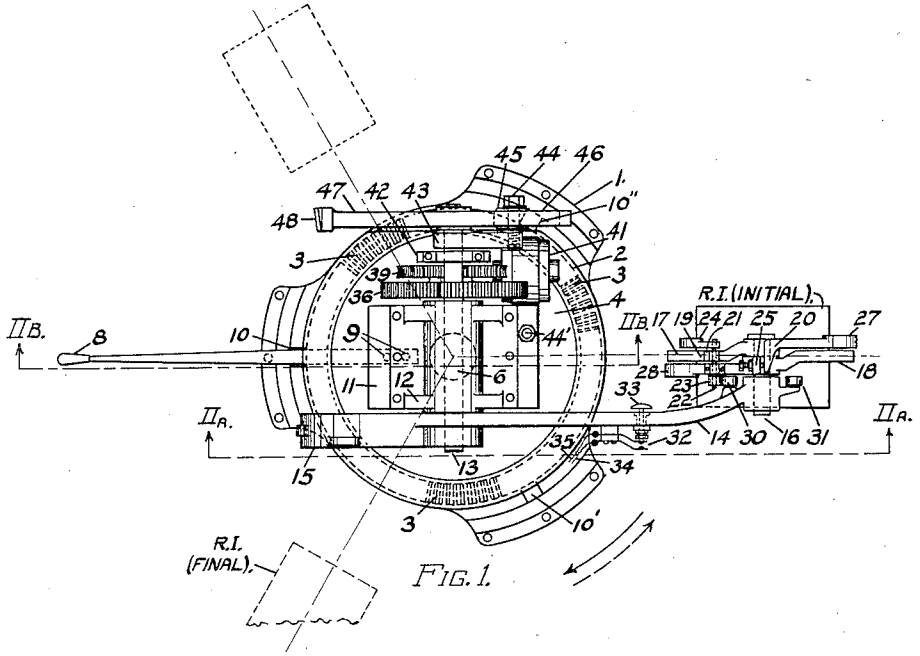


FIG. 1.

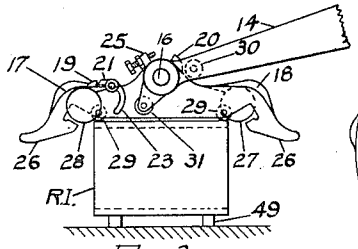


FIG. 3.

FIG. 2.

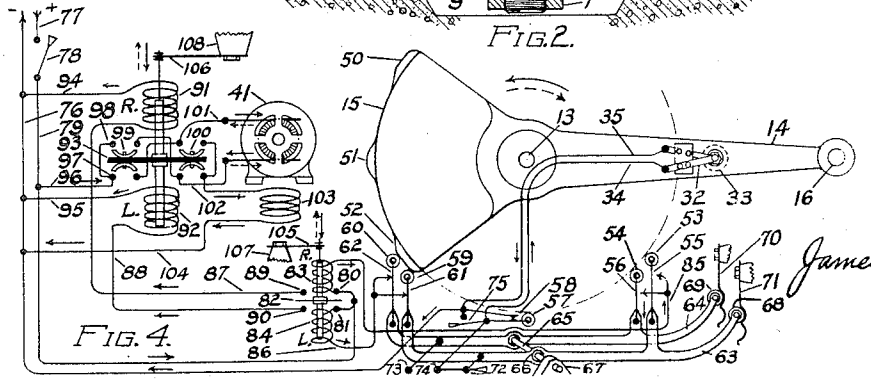


FIG. 4.

INVENTOR.

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