Feb. 20, 1945. A. H. FEDER 2,369,778

LAMP

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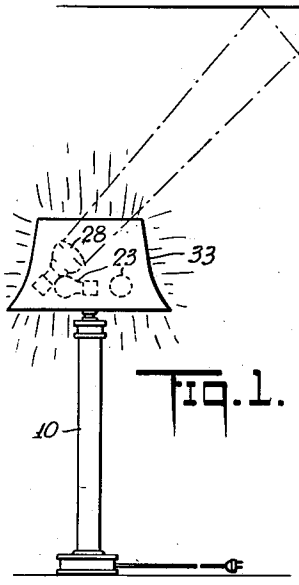


Fig. 1.

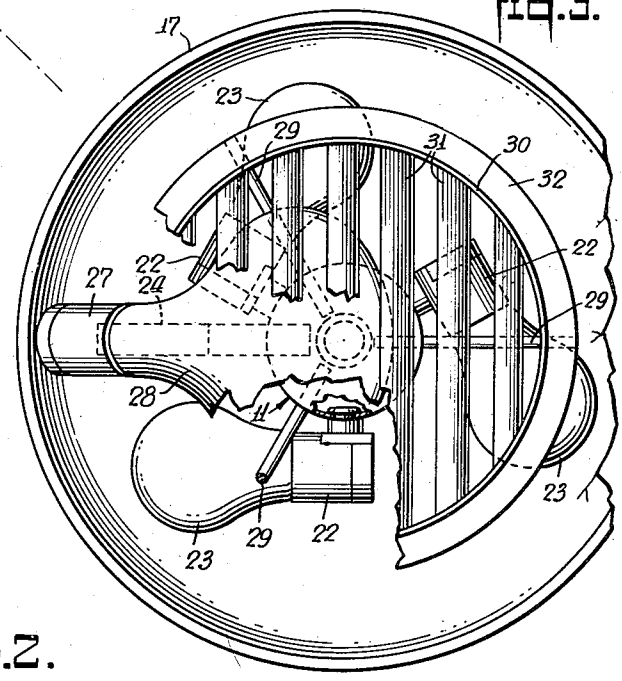
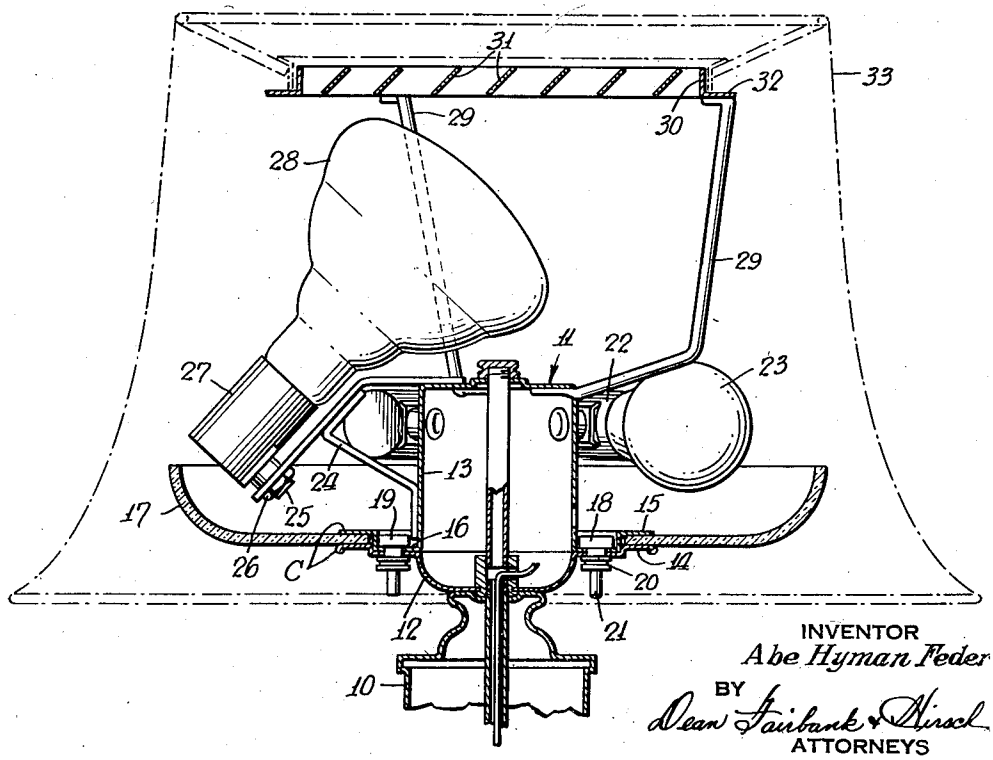


Fig. 3.

Fig. 2.



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LAMP

Abe Hyman Feder, New York, N. Y.

Application September 23, 1942, Serial No. 459,360

8 Claims. (Cl. 240—81)

The present invention relates to lamps, especially for domestic use, and may be embodied in various types, as for instance, a floor lamp, a table lamp, a piano lamp, or the like.

As conducive to a clear understanding of the objects of the invention, it is noted that the ordinary indirect lamp admits of effective use only when positioned near the region where maximum illumination is required, and this entails the shifting of lamps, as for instance, for card playing, from their normal position near the wall to the center of the room, where the lamp is in the way of the players and apt to be upset.

An object of the present invention is to provide a lamp which inherently affords the maximum indirect illumination at regions remote therefrom, so that a set of such lamps in a room will project light for maximum illumination at the main area of the room and will afford a decorative pattern of light at and near the walls of the room.

Another object is to provide a lamp, which in addition to the utility above set forth, is useful as a reading lamp for persons seated near the same.

Another object is to provide a lamp which performs the various functions above enumerated, without glare and without necessitating a freakish or unconventional appearance.

In the accompanying drawing in which is shown one of various possible embodiments of the several features of the invention,

Fig. 1 is a more or less diagrammatic view of a floor lamp embodying the invention and illustrating the approximate distribution of light emanating therefrom,

Fig. 2 is a view in longitudinal cross-section showing the lamp head, and,

Fig. 3 is a plan view of the lamp with parts of the baffle ring broken away,

Referring now to the drawing, the lamp comprises a standard 10 which may be conventional and upon the upper end of which is carried a hub 11 which in turn carries the various shade, shield, bulb and baffle elements to be described hereinafter. The hub is preferably made up of two complementary cupped elements including a lower shallow dished member 12 and an upper deep cup member 13, said members having outstanding rims 14 and 15 respectively, the upper of said rim elements being preferably dished as at 16 to rest upon the lower rim element and to afford an annular clamp c for the inner periphery of the dished diffusing shield 17 preferably of opal glass. Desirably, the control switches 18 and 19 for the bulbs rest in the well of the rim 15 and nuts 20 on the studs of said switches serve to clamp the rims 14 and 15 together, as well as to retain the switches in place. The operating knobs 21 of the switches protrude downward through the nuts 20.

The hub 11 preferably mounts a plurality, preferably three tangentially extending sockets 22, disposed in a horizontal plane, each mounting a bulb 23 above the diffusing shield 17. One of the switches 18 controls the circuit to said bulbs 23.

Mounted on the hub 11 is a laterally extending arm or bracket 24 upon which is supported in any suitable manner as by bolt 25 and nut 26 a socket 27 extending obliquely inward and upward in the axial plane of the standard 10 and hub 11, desirably at an angle of 45 degrees. In said socket 27 is mounted a bulb 28 which desirably has an inner or outer mirror surface on its paraboloid wall, the most luminous point of the filament being substantially at the focus of said paraboloid, to project a beam that diverges but little. The bulb described is an article of commerce and is designated by me a "reflector bulb." The circuit to the reflector bulb is controlled by switch 19.

Mounted upon the upper end of the hub 11 there are desirably three wire struts 29 extending outward and upward and supporting upon the upper end thereof a horizontal baffle ring 30 which may be soldered, welded or riveted thereto. The baffle ring has a series of parallel baffle plates 31 thereacross, each of said plates being desirably inclined at the same angle as the inclination of the reflector bulb axis and its socket. The outstanding rim 32 of the baffle ring supports the usual silk or parchment lamp shade 33, which encompasses the various bulbs, the hub, the diffusing shield and the baffle ring.

When the switch 18 is turned on to place the small bulbs 23 into circuit, the lamp serves as a reading lamp by which glareless illumination penetrates the diffusing shield 17. The bulbs also effect the desired ornamental luminosity of the shade 33.

When switch 19 is thrown to close the circuit to the reflector bulb 28, the beam from the latter is projected obliquely upward through the baffle ring 30 to the ceiling and thence reflected obliquely downward with relatively little spread. Accordingly, substantial illumination is projected by the lamp standing in a corner of the room to a table in the middle of a room. The baffles plates 31 of ring 30 shield the eyes of a person standing near and above the lamp. The oblique plates 31 also disperse a small amount of light downward to

enhance the decorative illumination of the shade 33.

When both switches 18 and 19 are on, the lamp serves simultaneously as a reading lamp for those seated near the same and for the desired maximum illumination remote therefrom.

It will be seen that by proper disposition of a number of lamps near the walls of a room, decidedly ornamental and scientifically correct illuminating effects may be attained in the main area of the room, while yet affording proper illumination for reading by those near the lamp.

Changes could be made in the above construction and different embodiments of this invention could be made without departing from the scope of the claims. It is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense except to the extent that such limitations are imposed by the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. A lamp having a standard and a shade and including a reflector bulb therein extending obliquely inward and upward from one side of the standard, struts supported by said standard, a horizontal baffle ring carried by said struts extending above said bulb and having a plurality of parallel oblique baffle plates thereacross, said shade carried by the periphery of said baffle ring, whereby the lamp will afford maximum nonglare, indirect illumination at areas laterally spaced therefrom.

2. A lamp comprising a standard having a laterally extending bracket at its upper end, a socket supported on said bracket and extending obliquely upward and inward in the axial plane of said standard, a reflector bulb in said socket, shade support struts on said standard, a horizontal baffle ring upon said struts having oblique baffle plates, and a shade supported on the periphery of said ring.

3. A lamp comprising a standard, a laterally extending arm on the upper end thereof, a lamp socket extending obliquely inward and upward in the axial plane of said standard, a substantially parabolic reflector bulb in said socket, a plurality of struts supported on said standard, a horizontal ring carried on said struts, having parallel oblique baffle plates thereacross and a shade supported upon the periphery of said ring.

4. A lamp comprising a standard, an arm extending laterally from the upper end thereof, a lamp socket supported on said arm and directed obliquely inward and upward in the axial plane of said standard, a bulb therein having a substantially parabolic mirror surface to cast a beam, struts supported upon said standard, a horizontal baffle ring carried by said struts and superposed over said bulb, a shade carried by said ring, the beam from said bulb extending obliquely through the top of said shade and from within the periphery thereof, said ring having parallel oblique baffles extending at substantially the angle of said bulb.

5. A lamp comprising a standard, an arm extending laterally from the upper end thereof, a lamp socket supported on said arm and directed obliquely inward and upward in the axial plane of said standard, a bulb therein having a substantially parabolic mirror surface to cast a beam, struts supported upon said standard, a horizontal baffle ring carried by said struts and superposed over said bulb, said ring having parallel oblique baffles extending at substantially the angle of said bulb, and a shade supported by the periphery of said baffle ring.

6. A lamp comprising a standard having a hub at the upper end thereof, a plurality of lamp sockets supported laterally of said hub and extending in a horizontal plane, bulbs therein, an opal glass shield encompassing said hub below said lamps, an arm extending laterally of said hub, a lamp socket supported on said arm and extending obliquely inward and upward in the axial plane of said standard, a lamp bulb therein having a substantially paraboloid mirror surface associated therewith, struts supported on said hub, a horizontal baffle ring carried on said struts and having oblique parallel baffle plates thereacross extending substantially at the inclination of the reflector bulb and socket, and a shade supported on the periphery of said baffle ring and encompassing said various bulbs and said opal glass shield.

7. A lamp comprising a standard having a sheet metal hub at the upper end thereof, said hub comprising two cup members, each provided with an outstanding rim, an annular opal glass shield retained at its inner periphery between the outer parts of said rims, at least one of said rims being dished for direct engagement of said rims at the portion thereof encircled by said shield, switches lodged in the annular cavity determined by the dished rim, nuts securing said switches in position and clamping said rims together, and lamp bulbs supported by said hub and under control of said switches.

8. A combined indirect and direct lamp, comprising a standard having a hub at the upper end thereof, a plurality of lamps mounted laterally of said standard with their axes extending substantially tangentially of the hub and in a horizontal plane, a diffusing shield encircling said hub and below said lamps, an extension laterally of said hub, a socket extending obliquely inward and upward from one side of said hub in the axial plane of said standard, a paraboloid reflector bulb in said socket, baffle means above said latter lamp to guard against glare and a shade supported thereon encompassing the hub and the various bulbs, the baffle and the shield.

ABE HYMAN FEDER.