

[54] LAMP FOR DISPLAYING VARIABLE SHADING AND COLORING EFFECTS AND FOR GENERAL ILLUMINATION

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[57] ABSTRACT

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A lamp comprising at least two light sources and shade components displaceable in relation to each other, whereby said shade components are arranged to affect the light emitted by one light source upon an outer shade component due to mutual displacement of said shade components in order to vary the shading or coloring effects or both on outer shade element.

[56] References Cited

7 Claims, 2 Drawing Figures

FOREIGN PATENTS OR APPLICATIONS

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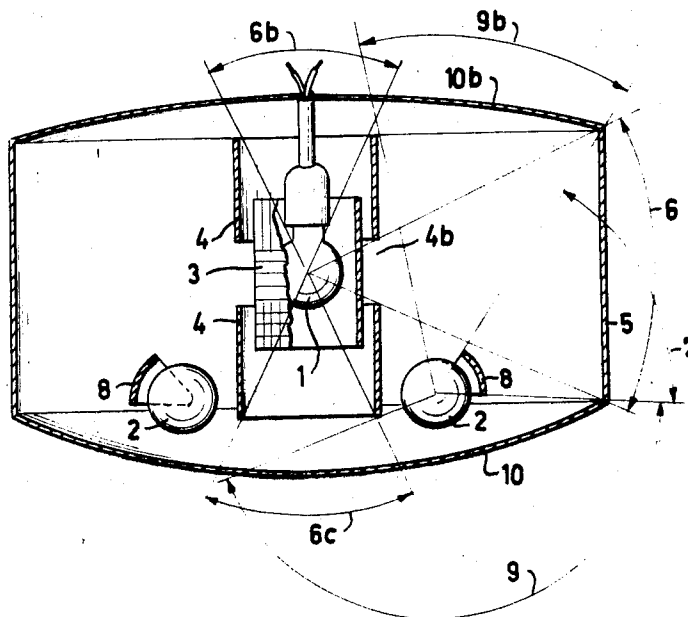
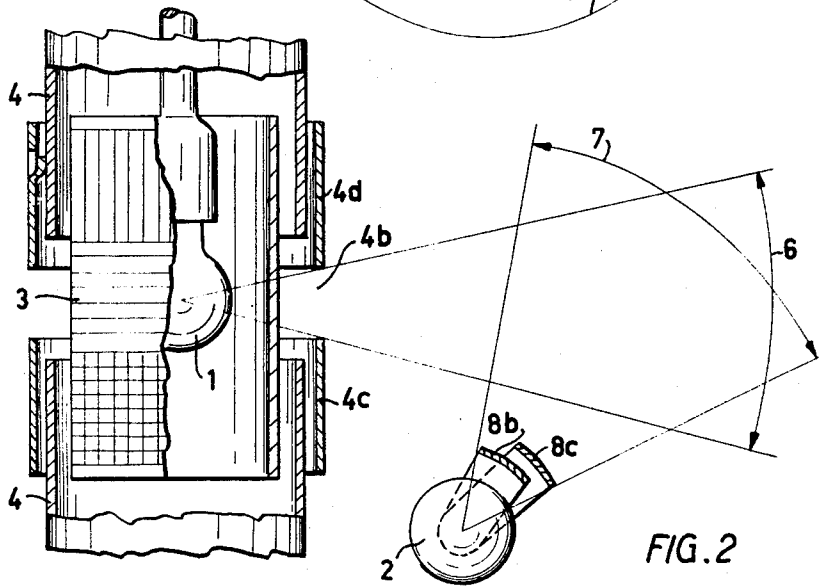
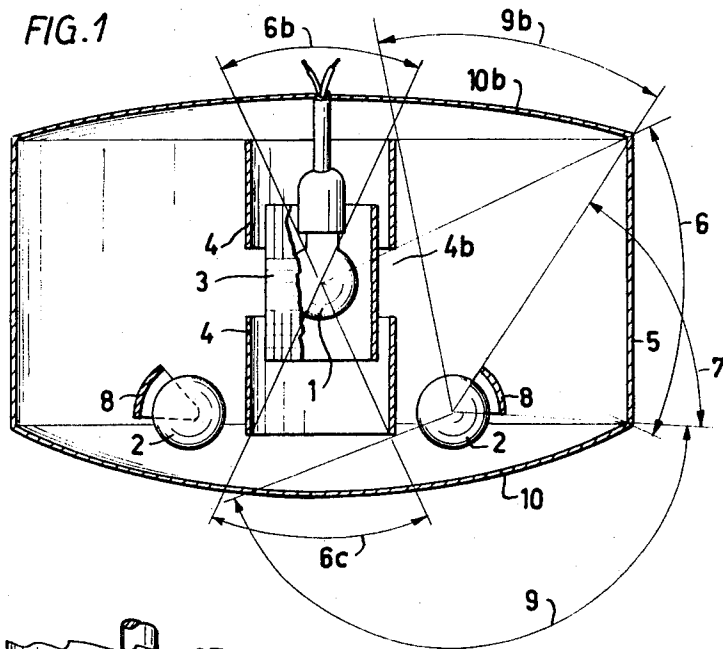


FIG. 1



## LAMP FOR DISPLAYING VARIABLE SHADING AND COLORING EFFECTS AND FOR GENERAL ILLUMINATION

The present invention relates to a lamp which is adjustable to vary the shading or coloring effects or both on an outer shade. The lamp includes shade components movable with respect to each other and two or more light sources, and the invention relates in particular to a construction in which the light from at least one light source passes through one or more movable shade components to an outer shade component while the light of the other light sources is used substantially for illuminating the room.

A purpose of the invention is to make a lamp adjustable with respect to shading and/or coloring effects more generally usable so that it is possible, besides making the lamp ornamental and one which is capable of varying shading and coloring effects, also to make the lamp efficient for illuminating the room independent of the position of the shading elements.

According to its lamp according to the invention comprises one or more light sources, or there may be several light sources located so as to radiate light through the lamp's shade components that are movable with respect to each other to one or more outer shade components, whereby the said light source in combination with the shade components makes it possible to adjust the lamp's illumination and particularly its appearance. The purpose of the other light sources, which may be one or more in number, is to illuminate the room in the conventional way without, however, affecting the shading and/or coloring produced by the former light source on the outer shade component. This is why it is preferably to provide these latter sources of light with shading in the direction of the outer shade, because they may easily, especially if they have a relatively high power, weaken the impression produced by the light source illuminating the outer shade component through the movable shade components.

Which section of the outer shade is used for coloring and/or shading effects and which section is used for general illumination can be determined by means of the position and shape of the shade.

The invention is applicable to several lamp types and categories of lamps such as table, stand, wall and ceiling lamps, and to both indoor and outdoor lamps.

FIG. 1 shows one embodiment of the invention. In it part of the light radiated by the light source 1 passes through partly movable shade 3 which is colored or has a pattern or both and through an opening 4b parallel with the circumference of the shade 4 to the outer shade 5 at an angle 6, while part of the light passes unfiltered out of shades 3 and 4 at angles 6b and 6c. The purpose of the light radiated by the light source 1 at angle 6 is to provide shading or coloring effects or both upon shade 5, which shading is determined by the position of the movable shade 3. The illumination of the light sources 2 is primarily at angles 9 and 9b and this illumination is shaded in the direction of angle 7 by shades 8. In this way, the filtered light is brought to part of the shade 5 and direct light from light source 2 to the shade sections 10 and 10b of shade 5. By entirely removing shade 3 the shade 5 also receives the direct light of light source 1 whereby the lamp operates in the conventional way.

In FIG. 2, the shade elements close to the light

sources 1 and 2 of the lamp are shown in more detail. Around the light source 1 is a movable shade 3 inside of a shade element 4 fitted having an opening parallel with its circumference. In order that this unit could be used in lamps of different diameters and in order that the illumination angle of light source could be adjusted otherwise as well, case annular shade elements 4d and 4c have been installed outside shade and on both sides at opening 40, the movement of which adjusts the size of angle 6. For the same purpose, the shade of the light source 2 has been constructed adjustable. This is achieved, for example, by means of two shade components 8b and 8c, which are located one outside the other and which can be moved with respect to each other. By turning these shade components in a circumferential direction it is possible to make the angle 7 smaller or larger.

The invention should not be limited by the specific embodiments but only as set forth in the attached patent claims. Light means a source of light proper, for example, the glow wire of an incandescent lamp. There may be two or more shade components that are movable in relation to each other.

The light sources 2, i.e. the light sources intended for general illumination, may also be located so that they point upwards, if desired.

The separate light sources 1 and 2 may be one common light tube which is arranged vertically in the embodiment according to FIG. 1 so that the upper part of said tube forms the light source 1 and the lower part forms the light source 2.

What I claim is:

1. A lamp comprising an outer shade, a first light source within said outer shade, first shade means between said first light source and said outer shade for varying the effect of the light emitted by said first light source, second shade means between said first shade means and said outer shade and movable relative to said first shade means for controlling the portion of light affected by said first shade means which reaches said outer shade and a second light source within said outer shade for illuminating the room.

2. The lamp according to claim 1 in which the first shade means has a pattern for creating a shading effect on the outer shade.

3. The lamp according to claim 1 in which the first shade means is colored for creating a coloring effect on the outer shade.

4. The lamp according to claim 1 including third shade means between the second light source and the outer shade for shading the area of said outer shade from light emitted by said second light source in those areas illuminated by light emitted from said light source.

5. The lamp according to claim 4 in which the shading area affected by the third shade means is adjustable.

6. The lamp according to claim 5 in which the third shade means comprises two separate shades adjustable relative to one another to affect the shading area of said third shade means.

7. The lamp according to claim 1 in which the second light source is comprised of two cylindrical shades separated from each other so as to allow a portion of the light passing through said first shade means to reach said outer shade.

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