

ABSTRACT

BRIGHTNESS ENHANCEMENT STRUCTURE OF LUMINESCENT ASSEMBLY

The present invention relates to a brightness-enhanced light-emitting structure of a luminescent assembly, and more particularly, to a structure capable of enhancing the brightness of a luminescent assembly by directing blue/ultraviolet light of a light-emitting source to shine on a fluorescent/phosphorescent coating so as to excite visible light therefrom in a surface excitation manner. The brightness-enhanced light-emitting structure of a luminescent assembly is comprised of: a blue/ultraviolet light-emitting source having a side thereof being coated with a cover layer; and a light screen disposed outside the light-emitting source, having a primary visible light layer arranged on the inner surface thereof at a position opposite to the cover-layer-coated side of the light source; wherein a visible light or white light, being a mixture of visible lights, is emitted from the primary visible light layer in the surface excitation manner as soon as the primary visible light layer is irradiated by the ultraviolet or blue light of the light-emitting source, while the cover layer of the light-emitting source is blocking the harmful ultraviolet light and the same time being excited directly or indirectly to generate another visible light, and thus the brightness of the luminescent assembly is enhanced.

Figure 5.