

Title (en)

Luminous thin film having ultraviolet filtering and explosion-proofing for fluorescent lamps

Title (de)

Dünne Leuchtfolie mit Ultraviolettfilter und Explosionsschutz für Leuchtstofflampen

Title (fr)

Feuille luminescente avec filtration ultraviolet et protection contre l'explosion pour lampes fluorescentes

Publication

EP 1734562 A2 20061220 (EN)

Application

EP 05028436 A 20051223

Priority

CN 200510075337 A 20050616

Abstract (en)

A luminous lamp thin film having ultraviolet filtering and explosion-proof is disclosed. An outside of a lamp (10) is coated by a transparent layer (20) which comprises phosphor powder (30). Energy generated by the lamp (10) is absorbed by the phosphor powder (30) while the lamp is shining. The phosphor powder releases energy, so as to provide auxiliary lighting after turning off the lamp. In addition, the phosphor powder can absorb harmful ultraviolet and other harmful radiations with shorter wavelengths to be one part of the thin film for filtering harmful radiations. The harmful ultraviolet can be transformed by the phosphor powder into visible light to red shift radiations with short wavelengths; hence the harmful radiations with shorter wavelengths can be eliminated. The illumination of visible light can be further increased. The transparent layer can catch broken fragments of the outside of the lamp to decrease accidents when the lamp is broken.

IPC 8 full level

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