

Title (en)

LED lamp set for enhancing illumination and eliminating ghost images

Title (de)

LED-Lampensatz zur Verstärkung der Beleuchtung und Beseitigung von Doppelbildern

Title (fr)

Ensemble lampe à DEL permettant d'améliorer l'éclairage et d'éliminer les images fantômes

Publication

EP 2636943 A1 20130911 (EN)

Application

EP 12158272 A 20120306

Priority

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Abstract (en)

An LED lamp set for enhancing illumination and eliminating ghost images includes a lamp shade (20), a diffusion membrane (10) and a circuit board (30). The lamp shade (20) has a plurality of light cups (23) each having a housing chamber (24) to hold at least one LED (40). The housing chamber (24) has an aperture (28) at the bottom run through by the LED (40) to form electric connection with the circuit board (30) and an opening (27) remote from the aperture (28) to define a light output surface (271). The diffusion membrane (10) covers the light output surface (271) and is made of a transparent material and includes a plurality of transparent bumps (11) on the surface. The circuit board (30) is located below the lamp shade (20). Through the concave shape of the light cups (23) and repetitive reflection of the bumps (11), light can be condensed to avoid scattering and loss. Moreover, as the light is greatly and uniformly condensed, ghost images can be eliminated.

IPC 8 full level

F21S 4/00 (2006.01); **F21V 7/00** (2006.01); **F21Y 103/00** (2006.01)

CPC (source: EP US)

F21S 4/28 (2016.01 - EP); **F21V 7/0083** (2013.01 - EP US); **F21V 29/763** (2015.01 - EP); **F21Y 2103/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

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Designated extension state (EPC)

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