

Title (en)

LAMP WITH REMOTE LED LIGHT SOURCE AND HEAT DISSIPATING ELEMENTS

Title (de)

LAMPE MIT EINER ENTFERNTEN LED-LICHTQUELLE UND WÄRMEABSTRAHLUNGSELEMENTEN

Title (fr)

LAMPE À SOURCE DE LUMIÈRE À DEL DISTANTE ET ÉLÉMENTS DE DISSIPATION THERMIQUE

Publication

EP 2893254 A1 20150715 (EN)

Application

EP 13762957 A 20130830

Priority

- US 201213607300 A 20120907
- US 2013057712 W 20130830

Abstract (en)

[origin: WO2014039405A1] LED based lamps (220) and bulbs are disclosed that comprise an elevating element (224) to arrange LEDs (226) above the lamp or bulb base. The elevating element (224) can at least partially comprise a thermally conductive material. A heat sink structure is included, with the elevating element thermally coupled to the heat sink structure. A diffuser (228) can be arranged in relation to the LEDs (226) so at least some light from the LEDs (226) passes through the diffuser (228) and is dispersed into the desired emission pattern. Some lamps and bulbs utilize a heat pipe (224) for the elevating elements, with heat from the LEDs (226) conducting through the heat pipe (224) to the heat sink structure where it can dissipate in the ambient. The LED lamps can include other features to aid in thermal management and to produce the desired emission pattern, such as internal optically transmissive and thermally conductive materials, and heat sinks with different heat fin arrangements.

IPC 1-7

F21V 29/02

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2014039405A1

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