

Title (en)

Stem mount for light emitting diode

Title (de)

Steg zur Befestigung einer Leuchtdiode

Title (fr)

Tige support pour une diode électroluminescente

Publication

EP 1617132 A2 20060118 (EN)

Application

EP 05015270 A 20050714

Priority

- US 58847004 P 20040716
- US 99585504 A 20041123

Abstract (en)

A lamp assembly (10) that comprises a reflector (12) for directing light in a given direction. An aperture (14) is formed in the reflector (12), substantially in the base thereof, and a thermally conductive post (16) is fitted in the aperture (14) and has a first surface (18) within the reflector and a second surface (20) outside of the reflector. The post (16) is preferably a metal such as copper. A single, side emitting, LED light source (22) is fixed to the first surface (18), preferably via an electrically insulating but thermally conductive member (23). A heat sink (24) is fixed to the second surface (20) and preferably is an inherent part thereof to insure good heat conductivity between the post (16) and the heat sink (24). Circuitry (26), which can be mounted on a printed circuit board, is associated with the LED light source (22) for supplying power thereto. Suitable electrical connections, not shown, can be supplied from the circuitry (26) to the LED light source (22) via insulated wires running up the side of the post (16) or threaded through longitudinal apertures formed in the post (16). Alternatively, an electrically insulating material supplied with conductive traces can cover the post (16). The LED light source can include a cap having a secondary reflector thereon or the light source (22) can be covered by a dome-shaped, transparent element having sidewalls and a closed top having at least one metallized surface and including an optic.

IPC 8 full level

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CPC (source: EP US)

F21K 9/60 (2016.07 - EP US); **F21S 43/14** (2017.12 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by

DE102010030296A1; DE102010030296B4; US8657457B2; WO2013067781A1; WO2009135327A1

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