

Title (en)

Light emitting diode lighting set

Title (de)

Beleuchtungsset mit lichtemittierenden Dioden

Title (fr)

Ensemble d'éclairage à diode électroluminescente

Publication

EP 2151621 A1 20100210 (EN)

Application

EP 08014013 A 20080805

Priority

EP 08014013 A 20080805

Abstract (en)

A light emitting diode (LED) lighting set includes an aluminum extrusion radiating base (10), an LED module (20), a light focus plate (30), a diaphanous cover (40) and two electrical connectors (50). The LED module has a substrate (21) settled onto the radiating base and a plurality of LED lamps (22) electrically connected onto the substrate (21). The light focus plate (30) is fixed onto the radiating base (10) and correspondingly formed under the LED lamps (22). The diaphanous cover (40) connects the radiating base (10) and correspondingly formed under the light focus plate (30). The electrical connectors (50) separately connect two ends of the radiating base (10) and also electrically connect the substrate (21). The aluminum extrusion radiating base (10), the diaphanous cover (40) and the two electrical connectors (50) define a closed space together, and the LED module (20) and the light focus plate (30) are received in the closed space; therefore, the LED lighting set has good heat dissipating performance and the usage life-span is greatly improved.

IPC 8 full level

F21S 4/00 (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

F21K 9/27 (2016.07 - EP US); **F21K 9/69** (2016.07 - EP US); **F21V 29/763** (2015.01 - EP); **F21V 15/013** (2013.01 - EP); **F21V 29/507** (2015.01 - EP); **F21Y 2103/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

- [XY] US 2006146540 A1 20060706 - REO ANN [US], et al
- [Y] WO 2007043034 A2 20070419 - NUALIGHT LTD [IE], et al
- [Y] US 2007090737 A1 20070426 - HU TSENG-HSIANG [TW], et al
- [A] WO 2005073627 A1 20050811 - TIR SYSTEMS LTD [CA], et al
- [A] WO 2005024291 A2 20050317 - SPACE CANNON VH S P A [IT], et al
- [A] US 6582103 B1 20030624 - POPOVICH JOHN [US], et al
- [A] US 2008008218 A1 20080110 - CHEN JEN-SHYAN [TW]

Cited by

EP2796782A1; IT201900002027A1; CN102235590A; EP2870405A4; CH709978A1; WO2016102512A1; WO2021073236A1; JP2014049349A; US8267549B2; US9347658B2

Designated contracting state (EPC)

DE

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2151621 A1 20100210

DOCDB simple family (application)

EP 08014013 A 20080805