

Title (en)
OPTOELECTRONIC LIGHTING MODULE

Title (de)
OPTOELEKTRONISCHES LEUCHTMODUL

Title (fr)
MODULE LUMINEUX OPTOÉLECTRONIQUE

Publication
EP 2394495 A2 20111214 (DE)

Application
EP 10710171 A 20100202

Priority
• DE 2010000113 W 20100202
• DE 102009007498 A 20090205

Abstract (en)
[origin: WO2010088885A2] An optoelectronic lighting module (10) is provided, comprising - a connection carrier (2), - a plurality of light emitting diodes (1) arranged in a matrix, wherein the light emitting diodes (1) are applied to an upper side (2a) of the connection carrier (2) and adjacent light emitting diodes (1) are arranged at a distance of at least 20 mm and at most 50 mm from each other, and - at least one constant current source (32) for at least one light emitting diode chip (1a) of at least one of the light emitting diodes (1), wherein the at least one constant current source (32) is arranged on a lower side (2b) of the connection carrier (2).

IPC 8 full level
H05B 44/00 (2022.01)

CPC (source: EP US)
H01L 27/156 (2013.01 - EP US); **H05B 45/18** (2020.01 - EP); **H05B 45/20** (2020.01 - EP US); **H05B 45/325** (2020.01 - EP US)

Citation (search report)
See references of WO 2010088885A2

Citation (examination)
US 2005073495 A1 20050407 - HARBERS GERARD [US], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010088885 A2 20100812; WO 2010088885 A3 20101223; CN 102308385 A 20120104; DE 102009007498 A1 20100819; DE 102009007498 B4 20221208; EP 2394495 A2 20111214

DOCDB simple family (application)
DE 2010000113 W 20100202; CN 201080006669 A 20100202; DE 102009007498 A 20090205; EP 10710171 A 20100202