

Title (en)  
LIGHTING DEVICE FOR CLEAN ROOM

Title (de)  
BELEUCHTUNGSEINRICHTUNG FÜR REINRAUM

Title (fr)  
DISPOSITIF D'ÉCLAIRAGE POUR SALLE PROPRE

Publication  
**EP 2273184 A1 20110112 (FR)**

Application  
**EP 10168255 A 20100702**

Priority  
FR 0954648 A 20090706

Abstract (en)  
The device has a bonnet (3) provided parallel to a support plate (2). Electroluminescent diodes (5) are provided as a light source. The support plate places the electroluminescent diodes in a position. The support plate and the bonnet form an envelope structure for closing the device. The envelope structure provides two principal external opposite faces. Side walls (31) connect the principal faces by forming an obtuse angle with an extension virtual plane, where the obtuse angle is ranged between 115 and 160 degrees. The bonnet is made of plastic, glass, aluminum and/or incorporating steel of optics transparency. The device is made of a polymeric coating material i.e. polyurethane.

Abstract (fr)  
La présente invention concerne un dispositif d'éclairage (1) pour salle propre comportant des diodes électroluminescentes (5) en tant que sources lumineuses, une plaque (2) de support pour les dites diodes, et un capot (3) opposé à la plaque de support et fermant le dispositif, caractérisé en ce que la plaque de support (2) et le capot (3) forment une structure d'enveloppe pour le dispositif qui est plate en étant destinée à être directement fixée contre la surface d'accueil dudit dispositif.

IPC 8 full level  
**F21S 8/04** (2006.01); **F21K 99/00** (2016.01); **F21V 17/16** (2006.01); **F21W 131/402** (2006.01)

CPC (source: EP US)  
**F21S 8/04** (2013.01 - EP US); **F21V 3/02** (2013.01 - EP); **F21V 3/04** (2013.01 - EP); **F21V 15/01** (2013.01 - EP); **F21V 17/164** (2013.01 - EP); **F21W 2131/402** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (applicant)

- WO 03036159 A1 20030501 - TIR SYSTEMS LTD [CA], et al
- US 2008084693 A1 20080410 - SHIMADA JUNICHI [JP], et al
- US 2008304250 A1 20081211 - HARBERS GERARD [US], et al
- WO 2009018433 A1 20090205 - LSI INDUSTRIES INC [US], et al

Citation (search report)

- [X] GB 2452637 A 20090311 - SANDERS ASSOCIATES LTD [GB], et al
- [X] WO 2009018433 A1 20090205 - LSI INDUSTRIES INC [US], et al
- [X] AU 2005100975 A4 20051222 - AUTUMN SOLAR INSTALLATIONS PTY LTD [AU]
- [X] US 2008232093 A1 20080925 - KIM STEVEN [US]
- [X] US 2007133193 A1 20070614 - KIM STEVEN [US]

Cited by  
CH706648A1; DE102012020199A1; WO2015011179A1

Designated contracting state (EPC)  
AL 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

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2273184 A1 20110112**; **EP 2273184 B1 20160831**; ES 2605822 T3 20170316; FR 2947610 A1 20110107; FR 2947610 B1 20160122; PT 2273184 T 20161220

DOCDB simple family (application)  
**EP 10168255 A 20100702**; ES 10168255 T 20100702; FR 0954648 A 20090706; PT 10168255 T 20100702