

Title (en)  
LIGHT-EMITTING DIODE ARRANGEMENT COMPRISING A REFLECTOR

Title (de)  
LEUCHTDIODENANORDNUNG MIT REFLEKTOR

Title (fr)  
DISPOSITIF A DIODES ELECTROLUMINESCENTES A REFLECTEUR

Publication  
**EP 1563330 A1 20050817 (DE)**

Application  
**EP 03772259 A 20031024**

Priority  
• DE 10250383 A 20021029  
• EP 0311840 W 20031024

Abstract (en)  
[origin: WO2004040346A1] The invention relates to a light-emitting diode arrangement consisting of a sub-mount on which a light-emitting diode chip is mounted, and a reflector which is installed on the sub-mount and has a reflector surface located in the beam path of the light-emitting diode chip. The reflector is formed from the lateral wall of a solid body (8, 8a, 8b, 8c) consisting of a transparent material and having a small irradiation surface located opposite the light-emitting diode chip (3) and a large radiation surface (11, 11a) which is located opposite the same, at a distance. A lateral wall forming the reflector surface (10) extends between the irradiation surface and the radiation surface, and the sub-mount (1) comprises an opening into which the reflector body (8) is inserted, with the irradiation surface first.

IPC 1-7  
**G02B 6/42**

IPC 8 full level  
**H01L 33/60** (2010.01); **G02B 6/42** (2006.01); **G02B 27/00** (2006.01); **H01L 33/58** (2010.01); **G02B 6/00** (2006.01)

CPC (source: EP US)  
**G02B 6/4298** (2013.01 - EP US); **H01L 33/58** (2013.01 - EP US); **H01L 33/60** (2013.01 - EP US); **G02B 6/0001** (2013.01 - EP US); **G02B 6/4249** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004040346A1

Citation (examination)  
DE 68923240 T2 19951109 - HEWLETT PACKARD CO [US]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004040346 A1 20040513**; DE 10250383 A1 20040519; DE 10250383 B4 20070510; EP 1563330 A1 20050817; US 2005190559 A1 20050901; US 2006104060 A1 20060518

DOCDB simple family (application)  
**EP 0311840 W 20031024**; DE 10250383 A 20021029; EP 03772259 A 20031024; US 11683305 A 20050428; US 53346505 A 20050523