

Title (en)
LIGHT-EMITTING DIODE CHIP

Title (de)
LEUCHTDIODENCHIP

Title (fr)
PUCE A DIODE LUMINESCENTE

Publication
EP 1738420 A2 20070103 (DE)

Application
EP 05742638 A 20050414

Priority

- DE 2005000677 W 20050414
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- DE 102005016592 A 20050411

Abstract (en)
[origin: WO2005101531A2] The invention relates to a thin-film light-emitting diode chip in which the distance between a reflective layer (4) and a light-generating active zone (3) is such that radiation from the active zone (3) interferes with light reflected by the reflective layer (4). The interference affects the internal quantum efficiency of the active zone (3), and consequently the active zone has an emission characteristic with at least one preferred direction.

IPC 8 full level
H01L 33/00 (2006.01); **H01L 33/40** (2010.01); **H01L 33/46** (2010.01)

CPC (source: EP US)
H01L 33/405 (2013.01 - EP US); **H01L 33/465** (2013.01 - EP US); **H01L 2224/48091** (2013.01 - EP)

Citation (search report)
See references of WO 2005101531A2

Citation (examination)

- DE 10246891 A1 20030424 - LUMILEDS LIGHTING US [US]
- DE 10330843 A1 20040212 - TOYOTA CHUO KENKYUHO AICHI KK [JP]

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
WO 2005101531 A2 20051027; WO 2005101531 A3 20060511; DE 102005016592 A1 20051124; EP 1738420 A2 20070103; JP 2007533143 A 20071115; KR 20070009673 A 20070118; US 2008142780 A1 20080619; US 7709851 B2 20100504

DOCDB simple family (application)
DE 2005000677 W 20050414; DE 102005016592 A 20050411; EP 05742638 A 20050414; JP 2007507664 A 20050414; KR 20067023305 A 20061107; US 57865705 A 20050414