

Title (en)
ILLUMINATION UNIT COMPRISING LUMINESCENCE DIODE CHIP AND OPTICAL WAVEGUIDE, METHOD FOR PRODUCING AN ILLUMINATION UNIT AND LCD DISPLAY

Title (de)
BELEUCHTUNGSEINHEIT MIT LUMINESZENZDIODENCHIP UND LICHTLEITER, VERFAHREN ZUM HERSTELLEN EINER BELEUCHTUNGSEINHEIT UND LCD-DISPLAY

Title (fr)
UNITE D'ECLAIRAGE COMPORTANT UNE PUCE A DIODE ELECTROLUMINESCENTE ET UN GUIDE D'ONDES OPTIQUES, PROCEDE DE FABRICATION D'UNE UNITE D'ECLAIRAGE ET AFFICHAGE LCD

Publication
EP 1929340 A1 20080611 (DE)

Application
EP 06791397 A 20060922

Priority

- DE 2006001687 W 20060922
- DE 102005047064 A 20050930
- DE 102005052356 A 20051102

Abstract (en)
[origin: WO2007036207A1] An illumination unit comprising a luminescence diode chip mounted on a chip carrier and an optical waveguide is specified. The optical waveguide (3) is assembled from at least two separate parts (4, 5), the luminescence diode chip (2) being encapsulated by one of the parts (4) of the optical waveguide (3). A method for producing a luminescence diode chip (2) of this type and also an LCD display comprising an illumination unit of this type are furthermore specified.

IPC 8 full level
F21K 99/00 (2016.01); **G02B 6/00** (2006.01); **H01L 33/30** (2010.01); **H01L 33/48** (2010.01); **H01L 33/54** (2010.01); **H01L 33/56** (2010.01); **H01L 33/58** (2010.01); **H01L 33/62** (2010.01)

CPC (source: EP KR US)
G02B 6/0001 (2013.01 - KR); **G02B 6/0018** (2013.01 - EP US); **G02B 6/002** (2013.01 - EP US); **G02B 6/0028** (2013.01 - EP US); **G02B 6/0065** (2013.01 - EP US); **G02B 6/0073** (2013.01 - EP US); **G02B 6/42** (2013.01 - KR); **G02F 1/1335** (2013.01 - KR); **H01L 2224/48091** (2013.01 - EP US); **H01L 2224/48247** (2013.01 - EP US)

Citation (search report)
See references of WO 2007036207A1

Citation (examination)

- EP 0403764 A1 19901227 - INOTEC GMBH GES FUER INNOVATIV [DE]
- EP 1503434 A2 20050202 - LUMILEDS LIGHTING LLC [US]
- WO 2004100279 A2 20041118 - CREE INC [US]
- US 6961190 B1 20051101 - TAMAOKI SATOSHI [JP], et al
- US 2004008952 A1 20040115 - KRAGL HANS [DE]
- EP 1213773 A1 20020612 - LABOSPHERE INST [JP]

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
WO 2007036207 A1 20070405; CN 101273294 A 20080924; CN 101273294 B 20121114; DE 102005052356 A1 20070412; EP 1929340 A1 20080611; JP 2009510742 A 20090312; JP 5150498 B2 20130220; KR 101304843 B1 20130905; KR 20080064965 A 20080710; TW 200718990 A 20070516; TW I348036 B 20110901; US 2009297090 A1 20091203; US 8331746 B2 20121211

DOCDB simple family (application)
DE 2006001687 W 20060922; CN 200680035847 A 20060922; DE 102005052356 A 20051102; EP 06791397 A 20060922; JP 2008532590 A 20060922; KR 20087010552 A 20060922; TW 95136148 A 20060929; US 99297506 A 20060922