

Title (en)
LIGHT-EMITTING DIODE (LED) DEVICES COMPRISING NANOCRYSTALS

Title (de)
LICHTEMITTIERENDE DIODENVORRICHTUNGEN MIT NANOKRISTALLEN

Title (fr)
DISPOSITIFS DE DIODES ELECTROLUMINESCENTES (DEL) COMPRENANT DES NANOCRISTAUX

Publication
EP 2494603 A4 20180411 (EN)

Application
EP 10827425 A 20101027

Priority
• US 60973609 A 20091030
• US 60976009 A 20091030
• US 2010054259 W 20101027

Abstract (en)
[origin: WO2011053635A1] The present invention provides light-emitting diode (LED) devices comprises compositions and containers of hermetically sealed luminescent nanocrystals. The present invention also provides displays comprising the LED devices. Suitably, the LED devices are white light LED devices.

IPC 8 full level
H01L 31/00 (2006.01); **H01L 33/50** (2010.01); **H01L 33/58** (2010.01)

CPC (source: EP KR)
C09K 11/02 (2013.01 - EP); **C09K 11/025** (2013.01 - EP); **C09K 11/565** (2013.01 - EP); **C09K 11/883** (2013.01 - EP); **G02B 6/0041** (2013.01 - EP); **H01L 33/48** (2013.01 - KR); **H01L 33/50** (2013.01 - KR); **H01L 33/507** (2013.01 - EP); **G02F 1/133603** (2013.01 - EP); **G02F 1/133617** (2013.01 - EP); **G02F 2202/36** (2013.01 - EP); **H01L 33/58** (2013.01 - EP); **H01L 2924/0002** (2013.01 - EP); **Y02B 20/00** (2013.01 - EP)

Citation (search report)
• [XY] WO 2008116079 A1 20080925 - EVIDENT TECHNOLOGIES INC [US], et al
• [XY] JP 2006321966 A 20061130 - KYOCERA CORP
• [XY] WO 2006017125 A2 20060216 - EVIDENT TECHNOLOGIES [US], et al
• [XY] EP 1541656 A1 20050615 - NAT INST OF ADVANCED IND SCIEN [JP]
• See references of WO 2011053635A1

Cited by
US9885809B2; US9176536B2; WO2014079532A1; US9810942B2

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 RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2011053635 A1 20110505; EP 2494603 A1 20120905; EP 2494603 A4 20180411; JP 2013509714 A 20130314; KR 101312238 B1 20130926; KR 20120099704 A 20120911

DOCDB simple family (application)
US 2010054259 W 20101027; EP 10827425 A 20101027; JP 2012536994 A 20101027; KR 20127013915 A 20101027