

Title (en)
LED illuminant

Title (de)
LED- Beleuchtung

Title (fr)
Source lumineuse à diodes électroluminescentes

Publication
EP 1341142 A3 20060125 (DE)

Application
EP 03003325 A 20030213

Priority
DE 20203326 U 20020301

Abstract (en)
[origin: EP1341142A2] An LED illumination having plates equipped with a number of LEDs with cables connecting the plates together and to a voltage source. A transparent encapsulation is provided for at least the LEDs on the plates. More specifically, one plate is provided per LED.

IPC 8 full level
G09F 13/22 (2006.01); **F21S 4/20** (2016.01)

CPC (source: EP)
F21S 4/20 (2016.01); **G09F 13/22** (2013.01)

Citation (search report)

- [XY] EP 0760448 A2 19970305 - STANTECH [US]
- [Y] WO 9958899 A2 19991118 - VENTUR RESEARCH & DEV INC [US], et al
- [X] US 6283612 B1 20010904 - HUNTER MARK A [US]
- [X] DE 10100877 A1 20020103 - REKLAME CONRAD WILDEN NACHF GM [DE]
- [X] US 5496427 A 19960305 - GUSTAFSON THOMAS L [US], et al
- [DA] DE 19904915 A1 20010201 - ALCATEL SA [FR]
- [DA] DE 10052380 A1 20011025 - EUROP SIGN SYSTEMS ESS GMBH [DE]

Cited by
DE102004064254B3; DE102004004777B4; US7926976B2; WO2012023856A1

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 SE SI SK TR

DOCDB simple family (publication)
EP 1341142 A2 20030903; EP 1341142 A3 20060125; EP 1341142 B1 20091125; AT E450028 T1 20091215; DE 20203326 U1 20020704; DE 50312147 D1 20100107; DK 1341142 T3 20100412

DOCDB simple family (application)
EP 03003325 A 20030213; AT 03003325 T 20030213; DE 20203326 U 20020301; DE 50312147 T 20030213; DK 03003325 T 20030213