

Title (en)

Device with light emitting diodes for marking surfaces

Title (de)

Vorrichtung mit lichtemittierenden Dioden für die Markierung von Flächen

Title (fr)

Dispositif avec des diodes électroluminescentes pour le marquage des surfaces

Publication

EP 1637656 A1 20060322 (DE)

Application

EP 05014416 A 20050702

Priority

- DE 102004045920 A 20040920
- DE 102004056169 A 20041120

Abstract (en)

An arrangement for integrating light-emitting diodes (LED's) in a surface to be marked comprises diode plates (2) (plus a connecting current supply cable (3)) inserted in a plastics profile (4), which (a) is transparent at least as far as the light exit surface, (b) has a reflective coating (5) on the underside opposite the light exit surface and (c) is embedded in a encapsulating, statically stable body (6), transparent at least as far as the light exit surface and having an external shape adapted to an indentation in the surface (1) to be marked.

IPC 8 full level

E01F 9/08 (2006.01); **F21S 4/00** (2006.01)

CPC (source: EP US)

E01F 9/20 (2016.02 - EP); **E01F 9/582** (2016.02 - EP); **F21S 4/28** (2016.01 - EP); **F21S 8/022** (2013.01 - EP); **F21V 7/00** (2013.01 - EP); **F21V 9/08** (2013.01 - EP); **F21V 15/01** (2013.01 - EP US); **F21V 31/04** (2013.01 - EP); **F21W 2111/00** (2013.01 - EP); **F21W 2111/02** (2013.01 - EP); **F21W 2111/06** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

- [A] WO 03024188 A2 20030327 - ILLUMINATED GUIDANCE SYSTEMS I [US], et al
- [A] DE 20209472 U1 20021002 - THIEME GMBH [DE]
- [A] EP 1122487 A2 20010808 - I D GMBH KONZEPTE FUER INNOVAT [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 11 29 November 1996 (1996-11-29)

Cited by

EP2587136A1; NL2011813C2; CN109083034A; FR2992401A1; WO2014175732A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1637656 A1 20060322; **EP 1637656 B1 20070801**; AT E368772 T1 20070815; DE 102004056169 A1 20060406; DE 502005001130 D1 20070913

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