

Title (en)
Lighting device, in particular tunnel lighting

Title (de)
Beleuchtungsanordnung, insbesondere Tunnelbeleuchtung

Title (fr)
Dispositif d'éclairage, en particulier pour tunnels

Publication
EP 1498656 A3 20061227 (DE)

Application
EP 04016567 A 20040714

Priority
• DE 20310827 U 20030714
• IT VR20030112 A 20030926

Abstract (en)
[origin: EP1498656A2] The illumination device has a housing device (8) and a circuit board (1) fitted with light emitting diodes (2) arranged inside the housing device. Several illumination devices can be arranged in modular form longitudinally and/or over an area, whereby the circuit board can be fitted with light emitting diodes at variable distances. An independent claim is also included for the following: (a) a tunnel illumination system.

IPC 8 full level
F21S 4/00 (2006.01); **F21V 21/005** (2006.01); **F21W 131/101** (2006.01)

CPC (source: EP US)
F21S 2/005 (2013.01 - EP); **F21S 4/20** (2016.01 - EP); **F21S 4/28** (2016.01 - EP); **F21S 8/033** (2013.01 - EP); **F21V 5/02** (2013.01 - EP US); **F21V 15/01** (2013.01 - EP); **F21V 17/104** (2013.01 - EP); **F21V 21/005** (2013.01 - EP); **F21V 21/116** (2013.01 - EP US); **F21V 21/30** (2013.01 - EP); **F21V 23/06** (2013.01 - EP); **F21V 31/005** (2013.01 - EP); **F21V 15/015** (2013.01 - EP); **F21W 2111/08** (2013.01 - EP); **F21W 2131/101** (2013.01 - EP); **F21Y 2103/10** (2016.08 - EP US); **F21Y 2115/10** (2016.08 - EP US)

Citation (search report)
• [XY] EP 0760448 A2 19970305 - STANTECH [US]
• [Y] WO 0227234 A1 20020404 - NILS LIGHT B V [NL], et al
• [XY] US 6354714 B1 20020312 - RHODES MICHAEL [US]
• [X] WO 03024188 A2 20030327 - ILLUMINATED GUIDANCE SYSTEMS I [US], et al
• [X] GB 2361988 A 20011107 - AVIMO LTD [GB]

Cited by
AT10807U3; EP2687773A1; DE202013100307U1; EP1922227A4; KR20180048564A; EP3184891A1; DE102005041333A1; EP2452859A3; DE202010015184U1; EP3981930A1; DE202010000087U1; DE202010015185U1; WO2014114670A1; EP2249076A1; DE102010004221A1; EP2594845A1; DE202021105678U1; WO2023066583A1; WO2007071746A1; WO2012143586A1; WO2013072270A1

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 PL PT RO SE SI SK TR

Designated extension state (EPC)
AL HR LT LV MK

DOCDB simple family (publication)
EP 1498656 A2 20050119; EP 1498656 A3 20061227; EP 1498656 B1 20080611; AT E398262 T1 20080715; DE 502004007344 D1 20080724; DK 1498656 T3 20081027; ES 2308070 T3 20081201; PL 1498656 T3 20090227

DOCDB simple family (application)
EP 04016567 A 20040714; AT 04016567 T 20040714; DE 502004007344 T 20040714; DK 04016567 T 20040714; ES 04016567 T 20040714; PL 04016567 T 20040714