

Title (en)  
OUTDOOR LIGHTING UNIT

Title (de)  
AUSSENRAUM-BELEUCHTUNGSEINHEIT

Title (fr)  
UNITÉ D'ÉCLAIRAGE EXTÉRIEUR

Publication  
**EP 2401543 B1 20150318 (DE)**

Application  
**EP 10717521 A 20100330**

Priority  
• EP 2010002031 W 20100330  
• DE 102009016256 A 20090403

Abstract (en)  
[origin: WO2010112205A1] The invention relates to an outdoor lighting unit for lighting streets, pavements, industrial grounds, and the like, comprising one LED light source (11) which includes several light emitting diodes (21) in a two-dimensional array, and a housing (13). The housing has a single-piece solid housing element (15), which has at least one planar assembly section (31) on an underside, on which a backside of the LED light source is arranged in heat-conducting connection in a planar manner. The housing element further has on said underside a circumferential wall section (33), which projects downwardly from the plane of the assembly section. Further, the housing element comprises an exposed cooling section (37) on an upper side, which is convexly curved and has several cooling channels (39), which extend along the convex curvature. The housing element also comprises a holding portion (41), by means of which the lighting unit can be secured to a holding device (45) in a self-supporting manner.

IPC 8 full level  
**F21S 8/08** (2006.01); **F21V 15/01** (2006.01); **F21V 29/00** (2015.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)  
**F21S 8/086** (2013.01 - EP US); **F21V 7/005** (2013.01 - EP US); **F21V 15/01** (2013.01 - EP US); **F21V 17/107** (2013.01 - EP US); **F21V 19/04** (2013.01 - EP US); **F21V 29/505** (2015.01 - EP US); **F21V 29/75** (2015.01 - EP US); **F21V 29/763** (2015.01 - EP US); **F21S 2/005** (2013.01 - EP US); **F21V 19/003** (2013.01 - EP US); **F21V 21/116** (2013.01 - EP US); **F21V 21/30** (2013.01 - EP US); **F21W 2131/10** (2013.01 - EP US); **F21W 2131/103** (2013.01 - EP US); **F21W 2131/105** (2013.01 - EP US); **F21Y 2103/10** (2016.07 - EP US); **F21Y 2105/00** (2013.01 - EP US); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**WO 2010112205 A1 20101007**; DE 102009016256 A1 20101014; EP 2401543 A1 20120104; EP 2401543 B1 20150318; RU 2011144508 A 20130510; RU 2539363 C2 20150120; US 2012026737 A1 20120202

DOCDB simple family (application)  
**EP 2010002031 W 20100330**; DE 102009016256 A 20090403; EP 10717521 A 20100330; RU 2011144508 A 20100330; US 201013262760 A 20100330