

Title (en)
LIGHTING UNIT WITH REFLECTOR

Title (de)
LEUCHTE MIT REFLEKTOR

Title (fr)
APPAREIL D'ÉCLAIRAGE À RÉFLECTEUR

Publication
EP 2844474 B1 20160727 (DE)

Application
EP 13714847 A 20130314

Priority
• DE 102012008641 A 20120502
• EP 2013000783 W 20130314

Abstract (en)
[origin: CA2872074A1] The invention relates to a lighting unit comprising a first module (1) and at least one second module (1), each of which comprises a plurality of LEDs (3) which are distributed over a module surface. The modules (1) are arranged on at least one heat sink (2) in order to dissipate lost heat. The lighting unit also comprises a reflector (5). Light emitted by one of the modules (1) is deflected by the reflector (5, 5a, 5b) into an outlet opening (6) of the lighting unit, wherein an optical unit (8, 9, 11, 12) is provided between at least some of the LEDs (3) and the outlet opening (6), and the light of the LEDs (3) is bundled into a defined structure in a target surface (10) by means of said optical unit.

IPC 8 full level
B41F 23/04 (2006.01); **B41J 11/00** (2006.01)

CPC (source: EP KR US)
B41F 23/0409 (2013.01 - EP KR US); **B41F 23/0453** (2013.01 - EP KR US); **B41J 11/002** (2013.01 - KR); **B41J 11/00214** (2021.01 - EP US); **F21V 7/0083** (2013.01 - KR); **F21V 13/04** (2013.01 - KR US); **F21V 29/56** (2015.01 - KR US); **F21V 29/70** (2015.01 - KR); **F21Y 2115/10** (2016.07 - EP KR US); **Y10S 362/80** (2013.01 - KR)

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)
DE 102012008641 A1 20131107; BR 112014027222 A2 20170627; CA 2872074 A1 20131107; CA 2872074 C 20170117; CN 104428136 A 20150318; CN 109973958 A 20190705; DK 2844474 T3 20161024; EP 2844474 A1 20150311; EP 2844474 B1 20160727; ES 2599278 T3 20170131; HR P20161336 T1 20161118; HU E030637 T2 20170628; JP 2015524158 A 20150820; JP 5921763 B2 20160524; KR 101748016 B1 20170615; KR 20140146164 A 20141224; LT 2844474 T 20161110; PL 2844474 T3 20170131; PT 2844474 T 20161018; SI 2844474 T1 20161130; US 2015130880 A1 20150514; US 9266360 B2 20160223; WO 2013164051 A1 20131107

DOCDB simple family (application)
DE 102012008641 A 20120502; BR 112014027222 A 20130314; CA 2872074 A 20130314; CN 201380023207 A 20130314; CN 201910353365 A 20130314; DK 13714847 T 20130314; EP 13714847 A 20130314; EP 2013000783 W 20130314; ES 13714847 T 20130314; HR P20161336 T 20161013; HU E13714847 A 20130314; JP 2015509316 A 20130314; KR 20147030754 A 20130314; LT 13714847 T 20130314; PL 13714847 T 20130314; PT 13714847 T 20130314; SI 201330342 A 20130314; US 201314397893 A 20130314