

Title (en)
Lighting apparatus with interchangeable modules

Title (de)
Beleuchtungsanordnung mit austauschbaren Modulen

Title (fr)
Appareil d'éclairage avec modules interchangeables

Publication
EP 2385294 B1 20201021 (EN)

Application
EP 11164604 A 20110503

Priority
KR 20100041552 A 20100503

Abstract (en)
[origin: EP2385294A2] Disclosed is a lighting apparatus, and more particularly, a lighting apparatus with interchangeable modules that can obtain a desired distribution of luminous intensity by interchanging and combining a plurality of modularized light sources. A lighting apparatus with interchangeable modules according to an aspect of the invention provides a lighting apparatus including: a frame; and at least two light source modules detachably coupled to the frame, wherein the light source modules are interchangeable. Furthermore, the at least two light source modules may be selected from a first light source module emitting light at a large radiation angle and a second light source module emitting light at a small radiation angle.

IPC 8 full level
F21S 2/00 (2016.01); **F21V 5/04** (2006.01); **F21V 17/00** (2006.01); **F21V 19/04** (2006.01); **F21V 29/00** (2015.01); **F21Y 113/00** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP KR US)
F21S 2/005 (2013.01 - EP KR US); **F21V 5/007** (2013.01 - KR); **F21V 5/048** (2013.01 - KR); **F21V 17/002** (2013.01 - EP KR); **F21V 17/12** (2013.01 - KR); **F21V 19/04** (2013.01 - EP KR); **F21V 29/507** (2015.01 - KR); **F21V 29/70** (2015.01 - KR); **F21V 5/007** (2013.01 - EP US); **F21V 5/048** (2013.01 - EP US); **F21V 17/12** (2013.01 - EP); **F21V 29/507** (2015.01 - EP US); **F21V 29/70** (2015.01 - EP US); **F21Y 2103/10** (2016.07 - EP KR US); **F21Y 2105/16** (2016.07 - EP KR US); **F21Y 2113/00** (2013.01 - EP KR); **F21Y 2115/10** (2016.07 - EP KR US)

Citation (examination)
US 2008273327 A1 20081106 - WILCOX KURT S [US], et al

Cited by
CN104676328A; EP2600054A1; CN102705734A; US10180248B2; JP2015181133A; EP3051212A1; DE102016115035A1

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)
EP 2385294 A2 20111109; EP 2385294 A3 20140319; EP 2385294 B1 20201021; KR 101139425 B1 20120427; KR 20110121998 A 20111109

DOCDB simple family (application)
EP 11164604 A 20110503; KR 20100041552 A 20100503