

Title (en)
CATADIOPTRIC LIGHTING DEVICE

Title (de)
VORRICHTUNG ZUR KADADIOPTRISCHEN BELEUCHTUNG

Title (fr)
DISPOSITIF D'ÉCLAIRAGE CATADIOPTRIQUE

Publication
EP 3431868 A1 20190123 (EN)

Application
EP 17182632 A 20170721

Priority
EP 17182632 A 20170721

Abstract (en)
A lighting device (10) is disclosed comprising an array of light sources (25) on an annular carrier (20), said carrier delimiting a first aperture (21), a first annular reflector (30) having a first light reflective surface (35) opposing the array of light sources and delimiting a light exit aperture (31) of the lighting device, a second reflector (40) positioned in the first aperture and having a further light reflective surface (45) facing the first light reflective surface and a collimating arrangement (50) arranged to collimate the light of the light sources onto the first light reflective surface. The first annular reflector is arranged to reflect the collimated light onto the further light reflective surface, and the second reflector is arranged to further reflect the reflected light received from the first annular reflector through the light exit aperture. Also disclosed is a luminaire comprising such a lighting device.

IPC 8 full level
F21V 13/04 (2006.01); **F21V 7/00** (2006.01); **F21V 7/06** (2006.01); **F21V 5/00** (2018.01); **F21V 5/04** (2006.01); **F21V 7/04** (2006.01); **F21V 13/14** (2006.01); **F21Y 103/33** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP)
F21V 7/0041 (2013.01); **F21V 7/06** (2013.01); **F21V 13/04** (2013.01); **F21V 5/007** (2013.01); **F21V 5/043** (2013.01); **F21V 7/041** (2013.01); **F21V 13/14** (2013.01); **F21Y 2103/33** (2016.07); **F21Y 2115/10** (2016.07)

Citation (applicant)
WO 2014155241 A1 20141002 - KONINKL PHILIPS NV [NL]

Citation (search report)
• [XI] US 2009190347 A1 20090730 - LANZ RUDIGER [DE]
• [XI] WO 2006027621 A2 20060316 - POWER PROJECTOR LTD [GB], et al
• [X] US 2014268072 A1 20140918 - TAKAHASHI TATSUYA [JP], et al
• [I] US 20111110096 A1 20110512 - HONG SUNGHO [KR], et al
• [AD] WO 2014155241 A1 20141002 - KONINKL PHILIPS NV [NL]
• [A] US 2013230306 A1 20130905 - NETA URI [IL]
• [A] DE 102012003071 A1 20130814 - STIFTUNG A WEGENER INST POLAR [DE]

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3431868 A1 20190123

DOCDB simple family (application)
EP 17182632 A 20170721