

Title (en)
LIGHTING DEVICE

Title (de)
BELEUCHTUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ÉCLAIRAGE

Publication
EP 3770491 A1 20210127 (EN)

Application
EP 20187725 A 20200724

Priority
CH 9452019 A 20190724

Abstract (en)
A lighting device (1) comprises a plurality of LED light sources (2) each provided with a collimating member (3) having a main direction of light propagation (33), and an at least partially transparent optical arrangement (4, 6) positioned adjacent to the collimating members (3) such that light generated by the LED light sources (2) and propagated by the collimating members (3) into the main direction of light propagation (33) passes through the optical arrangement (4, 6). The optical arrangement (4, 6) has a microstructure (41) with a plurality of refractive cells (43) configured to shape the light passing through the optical arrangement (4, 6). Each of the plurality of refractive cells has a shoulder angle relative to the main direction of light propagation and the plurality of refractive cells (43) has refractive cells (43) with differing shoulder angles.

IPC 8 full level
F21V 5/00 (2018.01); **F21V 7/00** (2006.01)

CPC (source: EP)
F21V 5/002 (2013.01); **F21V 7/0083** (2013.01); **F21V 5/005** (2013.01); **F21V 5/007** (2013.01); **F21Y 2105/10** (2016.07); **F21Y 2115/10** (2016.07)

Citation (search report)
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• [Y] WO 2017050929 A1 20170330 - REGENT BELEUCHTUNGSKÖRPER AG [CH]
• [A] US 2018335191 A1 20181122 - STEFANOV EMIL P [DE], et al
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• [A] EP 2647904 A1 20131009 - SITECO BELEUCHTUNGSTECH GMBH [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

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