

Title (en)  
DEVICE FOR DISTRIBUTING LIGHT BASED ON DIFFRACTION GRATINGS

Title (de)  
VORRICHTUNG ZUR LICHTVERTEILUNG MITTELS BEUGUNGSGITTERN

Title (fr)  
DISPOSITIF DE RÉPARTITION DE LUMIÈRE BASÉ SUR DES RÉSEAUX DE DIFFRACTION

Publication  
**EP 4139657 A1 20230301 (FR)**

Application  
**EP 21734407 A 20210527**

Priority  
• FR 2005656 A 20200528  
• FR 2021050964 W 20210527

Abstract (en)  
[origin: WO2021240115A1] Disclosed is a device for distributing light (100) configured such that, during use, it distributes light rays originating from an ancillary light source onto a scene (S) to be illuminated, and which comprises: - a planar waveguide (110), with a core layer (120) arranged between the two cladding layers; and - an extraction assembly, situated in the planar waveguide, and consisting of a plurality of diffraction gratings (151) distributed according to the two dimensions of a plane parallel to the plane of the planar waveguide.

IPC 8 full level  
**F21V 8/00** (2006.01); **G01N 21/00** (2006.01); **G01N 21/35** (2006.01); **G02B 5/18** (2006.01)

CPC (source: EP US)  
**G01N 21/35** (2013.01 - US); **G02B 6/0036** (2013.01 - US); **G02B 6/0038** (2013.01 - EP); **G02B 6/0076** (2013.01 - EP);  
**G01N 21/35** (2013.01 - EP); **G01N 2201/0635** (2013.01 - US); **G01N 2201/0638** (2013.01 - US); **G02B 5/18** (2013.01 - EP)

Citation (search report)  
See references of WO 2021240115A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**FR 3110979 A1 20211203**; EP 4139657 A1 20230301; US 2023221245 A1 20230713; WO 2021240115 A1 20211202

DOCDB simple family (application)  
**FR 2005656 A 20200528**; EP 21734407 A 20210527; FR 2021050964 W 20210527; US 202117999890 A 20210527