

Title (en)  
EMISSION DEVICE FOR EMITTING A LIGHT BEAM OF CONTROLLED SPECTRUM

Title (de)  
EMISSIONSVORRICHTUNG ZUR EMISSION EINES LICHTSTRAHLS VON GESTEUERTER BANDBREITE

Title (fr)  
DISPOSITIF D'EMISSION D'UN FAISCEAU LUMINEUX DE SPECTRE CONTROLE

Publication  
**EP 2847558 A1 20150318 (FR)**

Application  
**EP 13727243 A 20130430**

Priority  

- FR 1201353 A 20120509
- FR 1261015 A 20121120
- FR 1350446 A 20130118
- FR 2013050957 W 20130430

Abstract (en)  
[origin: WO2013167824A1] The invention concerns an emission device (1) for emitting a light beam of controlled spectrum. The emission device comprises: - at least two separate light sources (Si to N) each emitting a light beam of wavelength  $\lambda_1$  or  $\lambda_2$ , and - spectral multiplexing means (25). The spectral multiplexing means (25) comprise an optical assembly (25) formed from at least one lens (25) and/or an optical prism. The optical assembly (25) has chromatic dispersion properties and moves the light beams spatially closer together. Moreover, each light beam having at least wavelength  $\lambda_1$  or  $\lambda_2$  propagates in free space from the corresponding light source (Si to N) to the optical assembly (25). Therefore the emission device (1) is particularly robust. It can have small dimensions and be produced at low cost.

IPC 8 full level  
**G01J 3/10** (2006.01); **G01J 3/02** (2006.01); **G01J 3/32** (2006.01); **G01J 3/42** (2006.01); **G01J 3/433** (2006.01); **G02B 27/10** (2006.01); **G02B 27/12** (2006.01)

CPC (source: EP US)  
**G01J 3/0208** (2013.01 - EP US); **G01J 3/0216** (2013.01 - EP US); **G01J 3/10** (2013.01 - EP US); **G01J 3/32** (2013.01 - EP US); **G01J 3/42** (2013.01 - EP US); **G01J 3/4338** (2013.01 - EP US); **G02B 27/1006** (2013.01 - EP US); **G02B 27/123** (2013.01 - EP US); **H04B 10/11** (2013.01 - US); **H04B 10/572** (2013.01 - US); **G01J 2003/1282** (2013.01 - EP US); **G01J 2003/1286** (2013.01 - EP US)

Citation (search report)  
See references of WO 2013167824A1

Citation (examination)  
CH 690864 A5 20010215 - HERA ROTTERDAM BV [NL]

Cited by  
JP2018537654A

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)  
**WO 2013167824 A1 20131114**; AR 090963 A1 20141217; BR 112014027758 A2 20170627; CA 2872595 A1 20131114; CN 104380065 A 20150225; CN 104380065 B 20161228; EP 2847558 A1 20150318; FR 2990524 A1 20131115; FR 2990524 B1 20160513; HK 1207151 A1 20160122; IL 235442 A0 20141231; IN 10166DEN2014 A 20150821; JP 2015524047 A 20150820; JP 6055087 B2 20161227; KR 20150003405 A 20150108; MX 2014013591 A 20150514; MX 338905 B 20160503; US 2015304027 A1 20151022

DOCDB simple family (application)  
**FR 2013050957 W 20130430**; AR P130101556 A 20130507; BR 112014027758 A 20130430; CA 2872595 A 20130430; CN 201380024317 A 20130430; EP 13727243 A 20130430; FR 1350446 A 20130118; HK 15107730 A 20150811; IL 23544214 A 20141102; IN 10166DEN2014 A 20141128; JP 2015510854 A 20130430; KR 20147034430 A 20130430; MX 2014013591 A 20130430; US 201314399786 A 20130430