

Title (en)

DEVICE FOR GENERATING IMAGES AND HEAD-UP DISPLAY INCLUDING SUCH A DEVICE

Title (de)

VORRICHTUNG ZUR ERZEUGUNG VON BILDERN UND HEAD-UP-ANZEIGE MIT SOLCH EINER VORRICHTUNG

Title (fr)

DISPOSITIF DE GÉNÉRATION D'IMAGES ET AFFICHEUR TÊTE-HAUTE COMPORTANT UN TEL DISPOSITIF

Publication

EP 3452865 A1 20190313 (FR)

Application

EP 17723943 A 20170428

Priority

- FR 1654074 A 20160504
- EP 2017060212 W 20170428

Abstract (en)

[origin: WO2017191052A1] The invention relates to a device (30) for generating a multi-colour image formed from a set of pixels (4) including: a plurality of light sources (31, 32, 33) each emitting a source light beam (11, 12, 13) at a different emission wavelength ($\lambda_{0,B}$, $\lambda_{0,G}$, $\lambda_{0,R}$); a first optical system (34, 35, 36) that directs the source beams toward beam-deviating means (50) that deviate each source beam in a deviation direction (θ , θ') that varies as a function of time; and a scattering module (40) that intercepts each deviated source light beam (71, 72, 73) in order to generate a scattered light beam (7) having a main scattering direction, the scattering module (40) comprising a scatterer (41) and a second optical system (42). According to the invention, the second optical system comprises at least two separate optical lenses (48, 49) having preset constringences and refractive indices so that the main scattering directions for the various emission wavelengths are substantially parallel.

IPC 8 full level

G02B 26/10 (2006.01); **G02B 27/00** (2006.01); **G02B 27/01** (2006.01); **G02B 27/10** (2006.01); **H04N 9/31** (2006.01)

CPC (source: EP)

G02B 26/101 (2013.01); **G02B 26/105** (2013.01); **G02B 27/0031** (2013.01); **G02B 27/005** (2013.01); **G02B 27/0101** (2013.01); **G02B 27/104** (2013.01); **H04N 9/31** (2013.01); **H04N 9/3129** (2013.01); **H04N 9/3164** (2013.01); **G02B 2027/0116** (2013.01); **G02B 2027/0165** (2013.01)

Citation (search report)

See references of WO 2017191052A1

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)

FR 3051049 A1 20171110; **FR 3051049 B1 20180615**; EP 3452865 A1 20190313; WO 2017191052 A1 20171109

DOCDB simple family (application)

FR 1654074 A 20160504; EP 17723943 A 20170428; EP 2017060212 W 20170428