Title (en)

DEVICE FOR GENERATING A VIRTUAL LIGHT IMAGE

Title (de)

VORRICHTUNG ZUR ERZEUGUNG EINES VIRTUELLEN LICHTABBILDS

Title (fr)

DISPOSITIF DE GÉNÉRATION D'UNE IMAGE PHOTOGRAPHIQUE VIRTUELLE

Publication

EP 2862019 A1 20150422 (DE)

Application

EP 13729643 A 20130605

Priority

- DE 102012105170 A 20120614
- EP 2013061624 W 20130605

Abstract (en)

[origin: WO2013186107A1] The invention relates to a device (1) for generating a virtual light image (2). The device (1) comprises a real light source (11), a curved retroreflector surface (12) and a semi-transparent mirror (13). The retroreflector surface (12) is disposed in such a manner that the light of the real light source (11) transmitted through the semi-transparent mirror (13) does not reach the retroreflector surface (12). The invention is characterised in that the shape of the retroreflector surface (12) for a given visibility range (3) at least in a partial area of the surface (12), which is essential for imaging in the visibility range (3), is fixed by the fact that, at each point of the partial area, the pair (A, D) formed by a reflection angle A and an optical distance D between this point of the partial area of the retroreflector surface (12) and the virtual light image (2) is Pareto-minimal under the proviso that the partial area of the retroreflector surface (12) does not interrupt primary beams from the real light source (11) to the semi-transparent mirror (13).

IPC 8 full level

G02B 27/22 (2006.01)

CPC (source: EP US)

G02B 5/12 (2013.01 - US); **G02B 27/144** (2013.01 - US); **G02B 30/56** (2020.01 - EP US)

Citation (search report)

See references of WO 2013186107A1

Citation (examination)

US 2010195055 A1 20100805 - MAEKAWA SATOSHI [JP]

Cited by

CN107272211A

Designated contracting state (EPC)

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