

Title (en)

MATRIX LIGHT DEVICE WITH FLIGHT TIME ESTIMATION

Title (de)

MATRIXLICHTQUELLE MIT FLUGZEITSCHÄTZUNG

Title (fr)

DISPOSITIF LUMINEUX MATRICIEL AVEC ESTIMATION DE TEMPS DE VOL

Publication

EP 3823859 A1 20210526 (FR)

Application

EP 19750062 A 20190719

Priority

- FR 1856766 A 20180720
- EP 2019069566 W 20190719

Abstract (en)

[origin: WO2020016435A1] The invention relates to a light device for a motor vehicle, comprising a matrix light source which performs a light function within the motor vehicle. The same source is used, together with a photodiode, to estimate the flight time of captured light pulses which are initially generated by the matrix source. It is thus possible to detect objects and/or gestures using light in the visible spectrum, and without using specific pulse sources provided for that purpose.

IPC 8 full level

B60Q 1/00 (2006.01); **F21S 41/153** (2018.01); **G01S 17/02** (2020.01); **H01L 27/15** (2006.01)

CPC (source: EP US)

B60Q 1/0023 (2013.01 - EP US); **B60Q 1/0076** (2013.01 - US); **F21S 41/153** (2018.01 - EP US); **F21S 41/663** (2018.01 - US);
F21V 23/0471 (2013.01 - US); **G01S 7/4815** (2013.01 - EP US); **G01S 17/10** (2013.01 - US); **G01S 17/931** (2020.01 - EP);
F21Y 2115/10 (2016.08 - US); **G01S 2013/93277** (2020.01 - EP)

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 2020016435 A1 20200123; CN 112912276 A 20210604; EP 3823859 A1 20210526; FR 3084136 A1 20200124; FR 3084136 B1 20210129;
JP 2021530708 A 20211111; US 11491908 B2 20221108; US 2021253019 A1 20210819

DOCDB simple family (application)

EP 2019069566 W 20190719; CN 201980048657 A 20190719; EP 19750062 A 20190719; FR 1856766 A 20180720;
JP 2021502965 A 20190719; US 201917261464 A 20190719