

Title (en)

METHOD AND DEVICE FOR OPTICALLY MEASURING DISTANCES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR OPTISCHEN DISTANZMESSUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MESURE OPTIQUE DE DISTANCE

Publication

EP 3649485 A1 20200513 (DE)

Application

EP 19701115 A 20190124

Priority

- EP 18153465 A 20180125
- EP 2019051745 W 20190124

Abstract (en)

[origin: CA3072010A1] Proposed is a method (100) for optical distance measurement, which involves transmitting (107) measuring pulses by means of a transmission matrix comprising a plurality of transmission elements, reflecting (108) transmitted measuring pulses to at least one object, and receiving (109) reflected measuring pulses by means of a reception matrix (11). The reception matrix (11) comprises a plurality of reception elements (12) each having a plurality of reception sub-elements (13). The method involves monitoring (101) reception rates of reception sub-elements (13) of the reception matrix (11) for determining (112) a misalignment between the transmission matrix and reception matrix (11), wherein the transmission matrix and reception matrix define a visual field, and wherein the method (100) is used for the navigation of a vehicle. Monitoring (101) takes place while a vehicle is traveling, wherein the method (100) does not involve the conscious introduction of measuring objects into the visual field for determining a misalignment.

IPC 8 full level

G01S 17/931 (2020.01); **G01S 7/481** (2006.01); **G01S 7/4863** (2020.01); **G01S 7/497** (2006.01)

CPC (source: EP US)

G01S 7/4815 (2013.01 - US); **G01S 7/4816** (2013.01 - US); **G01S 7/4863** (2013.01 - EP); **G01S 7/4972** (2013.01 - EP US);
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Designated extension state (EPC)

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DOCDB simple family (publication)

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EP 3649485 A1 20200513; IL 272355 A 20200331; US 11635521 B2 20230425; US 2021124053 A1 20210429; WO 2019145417 A1 20190801

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EP 18153465 A 20180125; CA 3072010 A 20190124; CN 201980004068 A 20190124; EP 19701115 A 20190124; EP 2019051745 W 20190124;
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