

Title (en)
LIDAR SYSTEM AND METHOD FOR OPERATING A LIDAR SYSTEM

Title (de)
LIDAR-SYSTEM UND VERFAHREN ZUM BETREIBEN EINES LIDAR-SYSTEMS

Title (fr)
SYSTÈME LIDAR ET PROCÉDÉ POUR FAIRE FONCTIONNER UN SYSTÈME LIDAR

Publication
EP 3607350 A1 20200212 (DE)

Application
EP 18713906 A 20180327

Priority

- DE 102017205619 A 20170403
- EP 2018057763 W 20180327

Abstract (en)
[origin: WO2018184913A1] The present invention relates to a LIDAR system (1), comprising a transmission unit (20), which comprises a polarization apparatus (21), wherein the polarization apparatus (21) is configured to set a polarization of a scanning beam (2), a reception unit (30), which is configured to receive the scanning beam (2) after the latter was reflected at a point (41) in surroundings of the LIDAR system (1), wherein the reception unit (30) comprises a polarization identification apparatus (31), which is configured to identify a polarization of the reflected scanning beam (2), and an evaluation unit (32), which is configured to establish a polarization difference on the basis of a difference between the polarization set by the transmission unit (20) and the polarization identified by the reception unit (30).

IPC 8 full level
G01S 17/42 (2006.01); **G01S 7/48** (2006.01); **G01S 7/481** (2006.01); **G01S 7/499** (2006.01); **G01S 17/931** (2020.01)

CPC (source: EP US)
G01S 7/4802 (2013.01 - EP); **G01S 7/4814** (2013.01 - EP US); **G01S 7/499** (2013.01 - EP US); **G01S 17/42** (2013.01 - EP US); **G01S 7/4802** (2013.01 - US); **G01S 17/931** (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)
DE 102017205619 A1 20181004; CN 110476082 A 20191119; CN 110476082 B 20240412; EP 3607350 A1 20200212; JP 2020515873 A 20200528; US 11435478 B2 20220906; US 2020116864 A1 20200416; WO 2018184913 A1 20181011

DOCDB simple family (application)
DE 102017205619 A 20170403; CN 201880023433 A 20180327; EP 18713906 A 20180327; EP 2018057763 W 20180327; JP 2020503085 A 20180327; US 201816499905 A 20180327