

Title (en)
METHOD FOR DETERMINING THE ROLL ANGLE OF AN OPTOELECTRONIC SENSOR USING SCANNING POINTS OF A SENSOR IMAGE,
AND OPTOELECTRONIC SENSOR

Title (de)
VERFAHREN ZUM BESTIMMEN EINES ROLLWINKELS EINES OPTOELEKTRONISCHEN SENSORS MITTELS ABTASTPUNKTEN EINES
SENSORBILDES SOWIE OPTOELEKTRONISCHER SENSOR

Title (fr)
PROCÉDÉ PERMETTANT DE DÉTERMINER UN ANGLE DE ROULIS D'UN CAPTEUR OPTOÉLECTRONIQUE AU MOYEN DE POINTS DE
BALAYAGE D'UNE IMAGE DU CAPTEUR ET CAPTEUR OPTOÉLECTRONIQUE

Publication
EP 3788404 A1 20210310 (DE)

Application
EP 19719862 A 20190425

Priority
• DE 102018110774 A 20180504
• EP 2019060562 W 20190425

Abstract (en)
[origin: WO2019211149A1] The invention relates to a method for determining the roll angle (α) of an optoelectronic sensor (5) of a motor vehicle (1). The optoelectronic sensor comprises at least one transmission device (6), at least one receiving unit (7), and at least one analysis unit (10). The method has the following steps: - transmitting light beams (8) into the surroundings (4) of the motor vehicle (1) by means of the transmission device (7), and - receiving light beams (8) reflected on an object (3) by means of the receiving unit (7), wherein the received light beams (8) are represented by the analysis unit (10) as scanning points (17A, 17B, 17C) in a sensor image of the surroundings of the motor vehicle (1), said sensor image being generated by the optoelectronic sensor (5), and the roll angle (α) between at least one scan axis (18) and at least one reference axis (19) is determined by the analysis unit (10). The scan axis (18) is formed by at least one scanning point (15, 16, 20, 21) of a base structure (13) and a reference point (17) of the reference axis (19) of the optoelectronic sensor (5). The invention additionally relates to an optoelectronic sensor (5).

IPC 8 full level
G01S 7/497 (2006.01); **G01S 17/89** (2020.01); **G01S 17/931** (2020.01)

CPC (source: EP KR US)
G01S 7/4972 (2013.01 - EP KR US); **G01S 17/89** (2013.01 - US); **G01S 17/931** (2020.01 - EP KR); **G06V 20/58** (2022.01 - US);
G06V 20/582 (2022.01 - US)

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 2019211149 A1 20191107; DE 102018110774 A1 20191107; EP 3788404 A1 20210310; JP 2021522509 A 20210830;
JP 6969020 B2 20211124; KR 102397360 B1 20220512; KR 20200139233 A 20201211; US 12105227 B2 20241001;
US 2021181324 A1 20210617

DOCDB simple family (application)
EP 2019060562 W 20190425; DE 102018110774 A 20180504; EP 19719862 A 20190425; JP 2020561697 A 20190425;
KR 20207031778 A 20190425; US 201917052675 A 20190425