Title (en)

METHOD FOR OPERATING A DISTANCE SENSOR OF A VEHICLE IN WHICH A TRANSMISSION SIGNAL IS ADAPTED IN ACCORDANCE WITH HOW AN OBJECT IS CLASSIFIED, COMPUTING DEVICE, AND SENSOR DEVICE

Title (de)

VERFAHREN ZUM BETREIBEN EINES ABSTANDSSENSORS EINES FAHRZEUGS MIT ANPASSUNG EINES SENDESIGNALS IN ABHÄNGIGKEIT VON EINER KLASSIFIZIERUNG EINES OBJEKTS, RECHENEINRICHTUNG SOWIE SENSORVORRICHTUNG

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN CAPTEUR DE DISTANCE D'UN VÉHICULE DANS LEQUEL UN SIGNAL D'ÉMISSION EST ADAPTÉ EN FONCTION DE LA MANIÈRE DONT UN OBJET EST CLASSÉ, DISPOSITIF INFORMATIQUE ET DISPOSITIF DE CAPTEUR

Publication

EP 4058822 A1 20220921 (DE)

Application

EP 20796547 A 20201021

Priority

- DE 102019130295 A 20191111
- EP 2020079588 W 20201021

Abstract (en)

[origin: WO2021094065A1] The invention relates to a method for operating a distance sensor (4) of a vehicle (1), in which method a plurality of successive measurement cycles are carried out in an operating mode, wherein, in each measurement cycle, a transmission signal is transmitted, a reception signal (Rx1 to Rx8) is determined on the basis of the transmission signal reflected in a surrounding region (9) of the vehicle (1), the object (8) is classified, and the transmission signal is selected from a plurality of predefined transmission signals in accordance with how the object (8) is classified, wherein the transmission signal is selected in accordance with an assignment rule determined in a learning mode, said assignment rule describing an assignment of the plurality of predefined transmission signals to classes of objects (8), wherein, in each measurement cycle, the object (8) is classified on the basis of the reception signal (Rx1 to Rx8) and the transmission signal is selected in accordance with how the object (8) is classified for subsequent measurement cycles.

IPC 8 full level

G01S 7/52 (2006.01); **G01S 7/40** (2006.01); **G01S 7/41** (2006.01); **G01S 7/524** (2006.01); **G01S 7/539** (2006.01); **G01S 13/34** (2006.01); **G01S 13/931** (2020.01); **G01S 15/10** (2006.01); **G01S 15/34** (2006.01); **G01S 15/931** (2020.01)

CPC (source: EP KR US)

G01S 7/4013 (2021.05 - KR); **G01S 7/411** (2013.01 - KR); **G01S 7/417** (2013.01 - KR); **G01S 7/52004** (2013.01 - EP KR); **G01S 7/52006** (2013.01 - KR); **G01S 7/524** (2013.01 - KR); **G01S 7/539** (2013.01 - EP KR); **G01S 13/343** (2013.01 - KR); **G01S 15/10** (2013.01 - EP); **G01S 15/34** (2013.01 - EP KR); **G01S 15/931** (2013.01 - EP KR US); **G06N 20/00** (2019.01 - KR); G01S 7/4013 (2021.05 - EP); G01S 7/411 (2013.01 - EP); G01S 7/417 (2013.01 - EP); G01S 7/52006 (2013.01 - EP); G01S 7/524 (2013.01 - EP); G01S 13/343 (2013.01 - EP); G01S 2007/52007 (2013.01 - EP KR); G01S 2013/932 (2020.01 - EP KR); G01S 2013/9322 (2020.01 - EP)

Cited by

US2022390601A1; US12019157B2

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 102019130295 A1 20210512; CN 114846353 A 20220802; EP 4058822 A1 20220921; JP 2023500389 A 20230105; JP 7397191 B2 20231212; KR 20220093228 A 20220705; US 12019157 B2 20240625; US 2022390601 A1 20221208; WO 2021094065 A1 20210520

DOCDB simple family (application)

DE 102019130295 A 20191111; CN 202080087527 A 20201021; EP 2020079588 W 20201021; EP 20796547 A 20201021; JP 2022526811 A 20201021; KR 20227019607 A 20201021; US 202017774702 A 20201021