Title (en)

METHOD FOR RECOGNIZING A BLOCKED STATE OF AN ULTRASONIC SENSOR OF A MOTOR VEHICLE, ULTRASONIC SENSOR DEVICE, AND MOTOR VEHICLE

Title (de)

VERFAHREN ZUM ERKENNEN EINES BLOCKIERTEN ZUSTANDS EINES ULTRASCHALLSENSORS EINES KRAFTFAHRZEUGS, ULTRASCHALLSENSORVORRICHTUNG UND KRAFTFAHRZEUG

Title (fr)

PROCÉDÉ PERMETTANT D'IDENTIFIER UN ÉTAT DE BLOCAGE D'UN CAPTEUR ULTRASONORE D'UN VÉHICULE AUTOMOBILE, DISPOSITIF DE DÉTECTION ULTRASONORE ET VÉHICULE AUTOMOBILE

Publication

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Application

EP 15717178 A 20150421

Priority

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Abstract (en)

[origin: WO2015162132A1] The invention relates to a method for detecting a blocked state of an ultrasonic sensor (3) of a motor vehicle (1), wherein at least one vibration parameter of the ultrasonic sensor (3) is sensed and a detection algorithm is executed by means of an evaluating apparatus (4) of the motor vehicle (1), by means of which detection algorithm the at least one vibration parameter is evaluated in order to recognize the blocked state. On the basis of sensor data of at least one sensor (3, 8) of the motor vehicle (1), an object (9) is detected in a surrounding region of the motor vehicle (1) by means of the evaluating apparatus (4), wherein if a distance (D) of the object (9) from the ultrasonic sensor (3) falls below a specified threshold value (G), the execution of the detection algorithm by the evaluating apparatus (4) does not occur or a blocked state of the ultrasonic sensor (3) detected by means of the detection algorithm is ignored by the evaluating apparatus (4).

IPC 8 full level

G01S 7/52 (2006.01); G01S 15/86 (2020.01); G01S 15/931 (2020.01)

CPC (source: CN EP US)

G01S 7/52004 (2013.01 - CN EP US); G01S 7/527 (2013.01 - CN EP US); G01S 15/86 (2020.01 - US); G01S 15/876 (2013.01 - CN EP US); G01S 15/931 (2013.01 - CN EP US); G01S 2007/52009 (2013.01 - CN EP US); G01S 2015/932 (2013.01 - CN EP US); G01S 2015/938 (2013.01 - CN EP US)

Citation (search report)

See references of WO 2015162132A1

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)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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