

Title (en)

METHOD FOR OPERATING AN ULTRASONIC SENSOR OF A VEHICLE WITH REDUCED DIAGNOSTICS DURING A MEASURING OPERATION OF THE ULTRASONIC SENSOR, AND ULTRASONIC SENSOR APPARATUS

Title (de)

VERFAHREN ZUM BETREIBEN EINES ULTRASCHALLSENSORS EINES FAHRZEUGS MIT REDUZIERTER DIAGNOSE IN EINEM MESSBETRIEB DES ULTRASCHALLSENSORS SOWIE ULTRASCHALLSENSORVORRICHTUNG

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UN CAPTEUR À ULTRASON D'UN VÉHICULE AVEC DIAGNOSTIC RÉDUIT EN MODE MESURE DU CAPTEUR À ULTRASON ET DISPOSITIF DE CAPTEUR À ULTRASON

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Application

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Abstract (en)

[origin: WO2020064153A1] The invention relates to a method for operating an ultrasonic sensor (4) of a vehicle (1), in which a sound transducer element (11) of the ultrasonic sensor (4) is excited by a predetermined excitation signal, wherein the excitation signal has a predetermined current strength, a test voltage (U) is measured at the sound transducer element (11) as a consequence of the excitation signal and diagnostics are carried out on the ultrasonic sensor (4) on the basis of the test voltage (U), wherein the ultrasonic sensor (4) is excited by the excitation signal during a measuring operation to emit an ultrasonic signal, the test voltage (U) is measured during the transmission, reduced diagnostics are carried out on the basis of the test voltage (U), wherein the ultrasonic sensor (4) either continues to be operated during the measuring operation or is operated during a diagnostic operation for a complete diagnosis, depending on a result of the reduced diagnostics.

IPC 8 full level

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