

Title (en)

MEASUREMENT BY MEANS OF AN ULTRASONIC SENSOR SYSTEM IN AN INTERFERING ENVIRONMENT

Title (de)

MESSEN MIT EINEM ULTRASCHALLSENSORSYSTEM IN EINER STÖRUMGEBUNG

Title (fr)

MESURE AU MOYEN D'UN SYSTÈME DE CAPTEUR ULTRASONORE DANS UN ENVIRONNEMENT À INTERFÉRENCES

Publication

**EP 4070127 A1 20221012 (DE)**

Application

**EP 20820083 A 20201202**

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Abstract (en)

[origin: WO2021110715A1] The present invention relates to a method for measurement by means of an ultrasonic sensor system in an interfering environment, for example in a magnetic field, for a vehicle, the method comprising the following method steps: emitting, by means of an ultrasonic sensor system, ultrasound with at least one frequency range (100); receiving, by means of an ultrasonic sensor system, an echo (200) produced by the ultrasound; outputting, by means of an ultrasonic sensor system, a signal corresponding to the echo to a control system (300); detecting, by means of a detection system, noise of the signal (400); determining, by means of the control system, whether there is interference in the at least one frequency range, on the basis of the noise of the signal (500); and, if interference is determined, emitting, by means of the ultrasonic sensor system, ultrasound with at least one frequency range (600) for which no interference is determined. The present invention also relates to a device for measurement by means of an ultrasonic sensor system in a magnetic field, for a vehicle, to a vehicle having the device, to a computer program, to a data carrier signal, which transmits the computer program, and to a computer-readable medium.

IPC 8 full level

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