

Title (en)

METHOD FOR DETECTING AN OBJECT IN A NEAR FIELD OF AN ULTRASONIC SENSOR

Title (de)

VERFAHREN ZUM ERKENNEN EINES OBJEKTES IN EINEM NAHBEREICH EINES ULTRASCHALLSENSORS

Title (fr)

PROCÉDÉ PERMETTANT D'IDENTIFIER UN OBJET DANS UNE ZONE PROCHE D'UN CAPTEUR ULTRASONORE

Publication

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Application

EP 15705567 A 20150212

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Abstract (en)

[origin: WO2015158443A1] The invention relates to a method for detecting an object in a near field of an ultrasonic sensor. The method comprises the steps of exciting a sound transducer of the ultrasonic sensor by means of a transmission signal, capturing a decay signal (1), which describes the decay behavior of the sound transducer after the excitation of the sound transducer, determining a deviation between the decay signal (1) and a reference decay signal (2), and detecting the presence of an object in the near field of the ultrasonic sensor on the basis of the determined deviation. Thus, objects in a near field of the ultrasonic sensor and under a measuring range of the ultrasonic sensor can be reliably detected. A near field is a field in front of the sound transducer of the ultrasonic sensor in which an exact measurement by means of the pulse-echo method is not possible, because the decay signal is superposed on an echo of the transmission signal.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

See references of WO 2015158443A1

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