

Title (en)

METHOD FOR DETECTING AND PROCESSING MEASUREMENT VALUES OF A CAPACITIVE PROXIMITY SENSOR FOR INITIATING AN OPERATING FUNCTION OF A TAILGATE OF A MOTOR VEHICLE COMPRISING AN ENERGY-SAVING EVALUATION MODE

Title (de)

VERFAHREN ZUM ERFASSEN UND VERARBEITEN VON MESSWERTEN EINES KAPAZITIVEN ANNÄHERUNGSSENSORS ZUM AUSLÖSEN EINER BETÄTIGUNGSFUNKTION EINER HECKKLAPPE EINES KRAFTFAHRZEUGS MIT EINEM ENERGIESPARENDEN AUSWERTEMODUS

Title (fr)

PROCÉDÉ D'ACQUISITION ET DE TRAITEMENT DE MESURES D'UN DÉTECTEUR DE PROXIMITÉ CAPACITIF AFIN DE DÉCLENCHER UNE FONCTION D'ACTIONNEMENT D'UN HAYON DE VÉHICULE À MOTEUR, COMPRENANT UN MODE DE TRAITEMENT ÉCONOMISANT L'ÉNERGIE

Publication

**EP 2877376 B1 20160427 (DE)**

Application

**EP 13736851 A 20130704**

Priority

- DE 102012106851 A 20120727
- EP 2013064124 W 20130704

Abstract (en)

[origin: WO2014016097A1] In a method for detecting and processing measurement values of at least one capacitive proximity sensor which is arranged in the rear region of a motor vehicle close to the ground and for initiating an operating function of a tailgate by a prespecified foot movement of an operator, a measurement value of the proximity sensor is periodically detected after in each case one scanning interval, and a digital measurement value which corresponds to the measurement value is stored in a FIFO memory. In a first, energy-saving evaluation mode, a filter value is calculated from the currently stored digital measurement value and a prespecified second number of previously stored digital measurement values, in each case after a prespecified first number of digital measurement values are stored, by each of said stored digital measurement values being multiplied by an associated first factor in each case and the results being added, the filter value being compared with the threshold value and a second evaluation mode being activated when the filter value exceeds the threshold value. In the second, normal evaluation mode, a filter value is calculated from the currently stored digital measurement value and a prespecified fourth number of previously stored digital measurement values, in each case after a prespecified third number of digital measurement values, which third number is smaller than the first number, are stored, by each of said digital measurement values being multiplied by an associated second factor in each case and the results being added, and the filter value being fed to an algorithm for identifying a signal profile which corresponds to the prespecified foot movement.

IPC 8 full level

**B60R 25/24** (2013.01); **B60R 25/40** (2013.01)

CPC (source: CN EP)

**E05F 15/73** (2015.01 - EP); **E05Y 2400/40** (2013.01 - CN EP); **E05Y 2400/852** (2013.01 - CN EP); **E05Y 2400/858** (2013.01 - CN EP); **E05Y 2900/50** (2013.01 - CN EP); **E05Y 2900/546** (2013.01 - EP); **E05Y 2900/548** (2013.01 - CN)

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

DOCDB simple family (publication)

**WO 2014016097 A1 20140130**; CN 104411548 A 20150311; CN 104411548 B 20160907; DE 102012106851 A1 20140220; EP 2877376 A1 20150603; EP 2877376 B1 20160427

DOCDB simple family (application)

**EP 2013064124 W 20130704**; CN 201380035924 A 20130704; DE 102012106851 A 20120727; EP 13736851 A 20130704