

Title (en)
CAPACITIVE SENSOR SYSTEM

Title (de)
SYSTEM MIT EINEM KAPAZITIVEN SENSOR

Title (fr)
SYSTÈME DE CAPTEUR CAPACITIF

Publication
EP 2577868 A4 20131204 (EN)

Application
EP 11792746 A 20110607

Priority
• SE 1050581 A 20100607
• SE 2011050697 W 20110607

Abstract (en)
[origin: WO2011155893A1] Capacitive sensor system for a vehicle, which system comprises a signal generator, a signal detector and a processing device. The sensor system further comprises an earth antenna adapted to serving as a virtual external earth for the system, connected electrically to the signal generator and so disposed on the vehicle that it is electrically insulated from the vehicles chassis, has a predetermined size and is situated a predetermined distance from the ground surface. The system comprises at least two capacitive sensor elements which each define a detection zone and are disposed galvanically separate from the vehicles chassis, and a selector device intended to connect said capacitive sensor elements according to a predetermined detection configuration on the basis of a control signal applied to the selector device. The signal generator is adapted to generating a sensor signal with a frequency and an amplitude and to applying it between each connected capacitive sensor element and the external virtual earth, and the signal detector is adapted to detecting and determining a measure of the voltage potential between these latter and to generating a measurement signal based thereon which is conveyed to the processing device. The processing device is adapted to processing the measurement signal and conveying the processed measurement signal to an alarm system which is adapted to generating one or more alarm signals on the basis of the processed measurement signal.

IPC 8 full level
B60R 25/10 (2013.01); **B60R 25/102** (2013.01); **G08B 13/26** (2006.01); **H03K 17/955** (2006.01)

CPC (source: EP KR SE)
B60R 25/10 (2013.01 - KR); **B60R 25/1004** (2013.01 - SE); **B60R 25/102** (2013.01 - EP); **G08B 13/26** (2013.01 - KR SE); **H03K 17/955** (2013.01 - KR SE)

Citation (search report)
• [X] US 6469524 B1 20021022 - OBERDIER LARRY MAX [US]
• [A] US 2010079269 A1 20100401 - HAMMERSCHMIDT DIRK [AT], et al
• [A] GB 2404443 A 20050202 - AUTOMOTIVE ELECTRONICS LTD AB [GB]
• [A] GB 2423822 A 20060906 - AUTOMOTIVE ELECTRONICS LTD AB [GB]
• [A] GB 2376075 A 20021204 - AB AUTOMOTIVE ELECTRONICS LTD [GB]
• See references of WO 2011155893A1

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 2011155893 A1 20111215; BR 112012030047 A2 20160809; CN 102939718 A 20130220; EP 2577868 A1 20130410; EP 2577868 A4 20131204; KR 20130041830 A 20130425; RU 2012157294 A 20140720; SE 1050581 A1 20111208; SE 538226 C2 20160412

DOCDB simple family (application)
SE 2011050697 W 20110607; BR 112012030047 A 20110607; CN 201180028102 A 20110607; EP 11792746 A 20110607; KR 20127033735 A 20110607; RU 2012157294 A 20110607; SE 1050581 A 20100607