

Title (en)

PROXIMITY DETECTION DEVICE FOR A MOTOR VEHICLE

Title (de)

NÄHERUNGSSENSORVORRICHTUNG FÜR EIN KRAFTFAHRZEUG

Title (fr)

DISPOSITIF DE DÉTECTION DE PROXIMITÉ POUR VÉHICULE AUTOMOBILE

Publication

EP 2310881 A2 20110420 (FR)

Application

EP 09772701 A 20090605

Priority

- FR 2009051063 W 20090605
- FR 0853781 A 20080606

Abstract (en)

[origin: WO2010001019A2] This device (4) allows the detection of the presence of an object in a detection zone by measuring a variation in capacitance brought about by the presence of said object. It comprises an element (6) for emitting an electric field, an element (8) for receiving an electric field, and means for measuring the coupling capacitance between the emission element (6) and the reception element (8), the emission element (6) emitting an electrical signal received by the reception element (8) so that a coupling capacitance of a predetermined value is established between the emission element (6) and the reception element (8) when no object is present in the detection zone, a variation in the coupling capacitance indicating the displacement of an object in the detection zone and the establishment of a capacitance of a different value from the predetermined value indicating the presence of a static object.

IPC 8 full level

B60R 19/48 (2006.01); **G01V 3/15** (2006.01)

CPC (source: EP KR US)

B60R 19/48 (2013.01 - KR); **B60W 40/02** (2013.01 - KR); **G01V 3/088** (2013.01 - EP US); **G01V 3/15** (2013.01 - KR); **B60R 19/483** (2013.01 - EP US)

Citation (search report)

See references of WO 2010001019A2

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2010001019 A2 20100107; **WO 2010001019 A3 20101216**; CN 102099707 A 20110615; EP 2310881 A2 20110420; FR 2932281 A1 20091211; FR 2932281 B1 20101210; JP 2011526677 A 20111013; KR 101551263 B1 20150908; KR 20110033185 A 20110330; MX 2010013417 A 20101221; US 2011156890 A1 20110630; US 8791801 B2 20140729

DOCDB simple family (application)

FR 2009051063 W 20090605; CN 200980128298 A 20090605; EP 09772701 A 20090605; FR 0853781 A 20080606; JP 2011512187 A 20090605; KR 20117000358 A 20090605; MX 2010013417 A 20090605; US 99647609 A 20090605