

Title (en)

Method for securing keyless entry communication for motor vehicles

Title (de)

Verfahren zur Sicherung einer Keyless-Entry-Kommunikation für Kraftfahrzeuge

Title (fr)

Procédé de sécurisation d'une communication d'entrée sans clé pour véhicules automobiles

Publication

EP 2242027 A3 20111221 (DE)

Application

EP 10158623 A 20100331

Priority

DE 102009002448 A 20090416

Abstract (en)

[origin: EP2242027A2] The method involves controlling an oscillating circuit to generate an activation radio signal such that oscillation rise time (T1) is varied depending on randomly generated parameter. A power supply of the circuit is controlled depending on the parameter, and an expected system run time is determined depending on the parameter. Duration from activation of the circuit till receiving of a release signal in a control unit is measured, and the duration is compared with the expected time. A locking system is not released when the duration varies from the expected time above a preset value.

IPC 8 full level

G07C 9/00 (2006.01)

CPC (source: EP US)

G07C 9/00309 (2013.01 - EP US); **G07C 2009/00365** (2013.01 - EP US); **G07C 2009/00555** (2013.01 - EP US); **G07C 2209/08** (2013.01 - EP US)

Citation (search report)

- [A] DE 19802526 A1 19990729 - BOSCH GMBH ROBERT [DE]
- [A] DE 10255880 A1 20040609 - PHILIPS INTELLECTUAL PROPERTY [DE]
- [A] EP 1246137 A1 20021002 - SIEMENS AG [DE]
- [A] EP 1271420 A2 20030102 - ALPS ELECTRIC CO LTD [JP]

Cited by

FR3007875A1; DE102017200668A1; DE102017200668B4; US9430889B2

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 SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 10158623 A 20100331; CN 201010163817 A 20100416; DE 102009002448 A 20090416; US 76133210 A 20100415