

Title (en)

Vehicle door handle comprising a proximity sensor and a tactile sensor cooperating with a hand-free access system

Title (de)

Einen Annäherungssensor enthaltender Fahrzeugtürgriff und mit einem handfreien Zugangssystem zusammenarbeitender Berührungssensor

Title (fr)

Poignée d'ouvrant de véhicule comprenant un capteur d'approche et un capteur tactile coopérant avec un système d'accès mains libres

Publication

EP 1211649 B2 20170301 (FR)

Application

EP 01128120 A 20011127

Priority

FR 0015620 A 20001201

Abstract (en)

[origin: EP1211649A1] An approach sensor (CA) and a tactile sensor (CT) are of a capacitive type that operates with a hands free access system through an electronic circuit that alters of period during the approach sensor (CA) is supplied. At the same time the tactile sensor (CT) is out supply. The exclusive operation of both sensors excludes their mutual disruption.

IPC 8 full level

G07C 9/00 (2006.01); **E05B 65/20** (2006.01); **E05B 65/26** (2006.01)

CPC (source: EP)

E05B 81/78 (2013.01); **G07C 9/00309** (2013.01); **E05B 81/76** (2013.01); **E05B 81/77** (2013.01); **G07C 9/00714** (2013.01); **G07C 2009/00373** (2013.01)

Citation (opposition)

Opponent :

- WO 9741322 A1 19971106 - HUELSBECK & FUERST [DE], et al
- EP 0802500 A2 19971022 - PRESSENK INSTR INC [CA]
- WO 0233203 A1 20020425 - BOSCH GMBH ROBERT [DE], et al
- US 5526294 A 19960611 - ONO HIROAKI [JP], et al
- DE 19856902 A1 20000621 - HUF HUELSBECK & FUERST GMBH [DE]
- DE 19805659 C1 19990318 - BOSCH GMBH ROBERT [DE]
- WO 0052657 A1 20000908 - AUTOMOTIVE SYSTEMS LAB [US]

Cited by

JP2005133413A; FR2940772A1; EP1394946A3; DE102009034033A1; CN101963014A; EP1465119A1; FR2853346A1; DE102004026442A1; FR3044037A1; FR3044146A1; WO2005042882A1; US7091823B2; US11078692B2

Designated contracting state (EPC)

DE ES FR GB IT

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EP 1211649 A1 20020605; **EP 1211649 B1 20080723**; **EP 1211649 B2 20170301**; DE 60134942 D1 20080904; ES 2310535 T3 20090116; ES 2310535 T5 20170727; FR 2817581 A1 20020607; FR 2817581 B1 20060825

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