

Title (en)
COUPLING DEVICE FOR VEHICLE FLUSH DOOR HANDLE ASSEMBLY

Title (de)
KUPPLUNGSVORRICHTUNG FÜR FAHRZEUGTÜRGRIFF

Title (fr)
DISPOSITIF DE COUPLAGE POUR POIGNEE DE PORTE DE VEHICULE

Publication
EP 3620599 A1 20200311 (EN)

Application
EP 18192779 A 20180905

Priority
EP 18192779 A 20180905

Abstract (en)
An actuator integrated coupling device (C) for a vehicle door handle (1) having a handle lever (3) movable between a flush, ready and inward clicking position, said coupling device comprising a cam (4) rotatable about an axis (42), a motorized actuator (8) for rotating said cam (4), a transmission mechanism (T) comprising a first lever (6) for coupling with the cam (4) to move the handle lever (3) between said flush, ready and retracted positions, a push-push unit (9) coupled to the first lever (6) by a connecting rod (2) characterized in that the push-push unit (9) and the motorized actuator (8) are decoupled.

IPC 8 full level
E05B 81/90 (2014.01); **E05B 85/10** (2014.01)

CPC (source: EP)
E05B 81/90 (2013.01); **E05B 85/107** (2013.01); **E05B 81/06** (2013.01); **E05B 85/103** (2013.01)

Citation (applicant)
• US 2016290018 A1 20161006 - HAMACHER KAI [DE], et al
• US 2016369537 A1 20161222 - ROCCI ANTONIO [IT], et al
• US 2011174102 A1 20110721 - BECK CHRISTIAN [DE]

Citation (search report)
• [AD] US 2016369537 A1 20161222 - ROCCI ANTONIO [IT], et al
• [A] WO 2015074020 A1 20150521 - ILLINOIS TOOL WORKS [US]

Cited by
EP4215701A1; EP4283079A1; FR3135740A1; EP4215700A1; FR3132120A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3620599 A1 20200311; **EP 3620599 B1 20210127**; CN 112639240 A 20210409; CN 112639240 B 20220301; WO 2020048858 A1 20200312

DOCDB simple family (application)
EP 18192779 A 20180905; CN 201980057620 A 20190829; EP 2019073057 W 20190829