

Title (en)

DOOR LOCK OF A MOTOR VEHICLE OR THE LIKE WITH AN ELECTRIC LOCKING AID AND OPENING AID

Title (de)

KRAFTFAHRZEUGTÜRSCHLOSS O.DGL. MIT ELEKTRISCHER SCHLIESSHILFE UND ÖFFNUNGSHILFE

Title (fr)

PORTIERE DE VEHICULE OU SIMILAIRE COMPORTANT UN MECANISME AUXILIAIRE DE FERMETURE OU D'OUVERTURE

Publication

EP 1070186 A1 20010124 (DE)

Application

EP 00912353 A 20000203

Priority

- DE 0000335 W 20000203
- DE 19904663 A 19990204

Abstract (en)

[origin: DE19904663A1] The invention relates to a door lock of a motor vehicle or the like. Said door lock comprises a latch (2) and ratchet that keeps the latch in the pre-locking or the main locking state. The door lock also comprises an electric drive (5) for the locking aid which is switched on after the latch (2) has reached a pre-locking state. The drive (5) then shifts the latch (2) into the main locking state. The door lock also comprises an electric drive for the opening aid (10) which is switched on in order to lift and pull out the ratchet from the main locking state or the pre-locking state of the latch (2). The door lock is characterised in that a coupling of the drive for the locking latch striker (5) is provided with a mechanical coupling element (9a) which can be lifted and pulled out for decoupling by specifically actuating the electric drive for the opening aid (10). In a preferred embodiment, the voltage for the electric drive for the opening aid (10) is supplied by an auxiliary battery (17) (active electric redundancy) that is constantly recharged by means of the electric wiring (15) of the motor vehicle. The voltage for the electric drive for the locking aid (5) is directly supplied by the electric wiring (15) of the motor vehicle.

IPC 1-7

E05B 65/32; E05B 65/20

IPC 8 full level

B60J 5/00 (2006.01); **B60J 5/04** (2006.01); **E05B 65/20** (2006.01); **E05B 65/32** (2006.01); **E05B 81/20** (2014.01); **E05B 81/82** (2014.01); **E05B 47/00** (2006.01); **E05B 81/14** (2014.01)

CPC (source: EP US)

E05B 81/20 (2013.01 - EP US); **E05B 81/82** (2013.01 - EP US); **E05B 81/14** (2013.01 - EP US); **E05B 81/21** (2013.01 - EP US); **Y10S 292/23** (2013.01 - EP US); **Y10S 292/43** (2013.01 - EP US); **Y10S 292/65** (2013.01 - EP US); **Y10T 292/1047** (2015.04 - EP US); **Y10T 292/1082** (2015.04 - EP US)

Citation (search report)

See references of WO 0046472A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19904663 A1 20000817; **DE 19904663 C2 20010215**; DE 50002332 D1 20030703; EP 1070186 A1 20010124; EP 1070186 B1 20030528; ES 2200841 T3 20040316; JP 2002536568 A 20021029; US 6439623 B1 20020827; WO 0046472 A1 20000810

DOCDB simple family (application)

DE 19904663 A 19990204; DE 0000335 W 20000203; DE 50002332 T 20000203; EP 00912353 A 20000203; ES 00912353 T 20000203; JP 2000597522 A 20000203; US 64613000 A 20001206