

Title (en)

Drive circuit sub-assembly for a vehicle door

Title (de)

Antriebskreis-Baugruppe für eine Fahrzeugtür

Title (fr)

Groupe de circuit d'entraînement pour une portière de véhicule

Publication

EP 2503086 A3 20140716 (DE)

Application

EP 12150385 A 20120106

Priority

DE 102011001478 A 20110322

Abstract (en)

[origin: EP2503086A2] The circuit assembly (62) has a hydraulic line branch (18), an opening pipe branch (20), and pressure chambers (14,15) connected to the hydraulic actuators (2,3). An electronic control unit (47) has a position sensor (52) for detecting the position of vehicle door (4) and control logic for controlling the opening and closing of vehicle door. A control signal is output for controlling the rotational speed of electric drive unit (31) of the pump (29), for determining the operating state of the door, and for analyzing the errors of electric drive unit.

IPC 8 full level

E05F 15/02 (2006.01); **E05F 15/04** (2006.01); **F15B 15/18** (2006.01)

CPC (source: EP)

E05F 15/49 (2015.01); **E05F 15/50** (2015.01); **E05F 15/53** (2015.01); **E05Y 2400/40** (2013.01); **E05Y 2900/506** (2013.01); **E05Y 2900/51** (2013.01); **E05Y 2900/531** (2013.01); **F15B 2211/20515** (2013.01); **F15B 2211/20538** (2013.01); **F15B 2211/20561** (2013.01); **F15B 2211/27** (2013.01); **F15B 2211/3051** (2013.01); **F15B 2211/3058** (2013.01); **F15B 2211/6313** (2013.01); **F15B 2211/633** (2013.01); **F15B 2211/6336** (2013.01); **F15B 2211/6651** (2013.01); **F15B 2211/7107** (2013.01); **F15B 2211/8603** (2013.01); **F15B 2211/895** (2013.01)

Citation (search report)

- [XAYI] EP 1134431 A1 20010919 - FESTO AG & CO [DE]
- [XI] US 2008236156 A1 20081002 - KAKINO ATSUSHI [JP], et al
- [Y] EP 1162375 A2 20011212 - HOERBIGER FLUIDTECHNIK GMBH [DE]
- [A] EP 1093994 A2 20010425 - HOERBIGER HYDRAULIK [DE]

Cited by

EP3406837A1; DE102012103638B4; NL2018423B1; CN111535692A; CN114183438A; DE102012103638A1; DE102012107527A1; DE102011052961A1; WO2018156025A1; EP3453931A1; EP2698490A2; EP2698547A2

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 2503086 A2 20120926; EP 2503086 A3 20140716; EP 2503086 B1 20160316; ES 2572928 T3 20160603; PL 2503086 T3 20160930

DOCDB simple family (application)

EP 12150385 A 20120106; ES 12150385 T 20120106; PL 12150385 T 20120106