

Title (en)

Drive device for a door and method for operating the same

Title (de)

Antriebseinrichtung für eine Tür und Verfahren zum Betreiben einer Antriebseinrichtung

Title (fr)

Dispositif d'entraînement pour une porte et procédé de fonctionnement d'un dispositif d'entraînement

Publication

EP 2161459 A3 20140219 (DE)

Application

EP 09011045 A 20090828

Priority

DE 102008045564 A 20080903

Abstract (en)

[origin: EP2161459A2] The device (10) has a cylinder (20) in which a pressure chamber (16) is separated from another pressure chamber (18) by a plunger (14). The plunger is moved by subjecting the former pressure chamber with a pressure medium that is guided from the latter pressure chamber. A set of throttle devices (26, 28) i.e. proportional valves, throttles volumetric flow rate of the pressure medium, where the volumetric flow rate of the pressure medium flowing through the throttle devices is regulated based on an input signal that is provided by a control device (30). An independent claim is also included for a method for operating a drive device for a door vehicle.

IPC 8 full level

F15B 11/042 (2006.01); **E05F 15/02** (2006.01); **F15B 11/044** (2006.01)

CPC (source: EP)

E05F 15/50 (2015.01); **F15B 11/042** (2013.01); **F15B 11/044** (2013.01); **E05Y 2900/506** (2013.01); **E05Y 2900/51** (2013.01); **F15B 2211/3111** (2013.01); **F15B 2211/327** (2013.01); **F15B 2211/41527** (2013.01); **F15B 2211/426** (2013.01); **F15B 2211/45** (2013.01); **F15B 2211/455** (2013.01); **F15B 2211/6313** (2013.01); **F15B 2211/6336** (2013.01); **F15B 2211/6343** (2013.01)

Citation (search report)

- [X] DE 20318899 U1 20050414 - BODE GMBH & CO KG [DE]
- [X] DE 19922396 A1 19991125 - SMC KK [JP]
- [X] DE 10330869 A1 20050217 - HYDAC SYSTEM GMBH [DE]
- [X] US 5844390 A 19981201 - CAMERON ROBERT [US]
- [X] US 4932311 A 19900612 - MIBU KAZUO [JP], et al
- [X] EP 1191234 A1 20020327 - HITACHI CONSTRUCTION MACHINERY [JP]

Cited by

CN113236624A; CN114382749A; DE102015005544A1

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 RS

DOCDB simple family (publication)

EP 2161459 A2 20100310; EP 2161459 A3 20140219; DE 102008045564 A1 20100304

DOCDB simple family (application)

EP 09011045 A 20090828; DE 102008045564 A 20080903