

Title (en)

Drive to operate the leaf of a door or window

Title (de)

Antrieb für einen Flügel einer Tür oder eines Fensters

Title (fr)

Entraînement pour un battant de porte ou de fenêtre

Publication

EP 2388423 B1 20150708 (DE)

Application

EP 11166150 A 20110516

Priority

DE 102010029026 A 20100517

Abstract (en)

[origin: EP2388423A2] The drive (1) has a piston (7) cooperating with a driven shaft (8) to open and/or close a wing and impinged with a closing spring (6) and arranged in a housing (2). A pressure equalization device is arranged into the housing filled with hydraulic fluid (9). The pressure equalization device is formed in a hydraulic reservoir (11). A centrally arranged hydraulic channel (10) is covered by the fluid with respect to a vertical extension of the hydraulic reservoir, and encloses gas volume. A suction element (13) is arranged at a bottom part of the hydraulic reservoir to remove the fluid.

IPC 8 full level

E05F 3/10 (2006.01)

CPC (source: EP)

E05F 3/10 (2013.01); **E05F 3/102** (2013.01); **E05F 3/12** (2013.01); **E05F 3/227** (2013.01); **E05F 15/53** (2015.01); **E05Y 2201/10** (2013.01); **E05Y 2201/448** (2013.01); **E05Y 2800/00** (2013.01); **E05Y 2800/172** (2013.01); **E05Y 2900/132** (2013.01)

Cited by

CN110965884A

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

DOCDB simple family (publication)

EP 2388423 A2 20111123; **EP 2388423 A3 20131204**; **EP 2388423 B1 20150708**; DE 102010029026 A1 20111117;
DE 102010029026 B4 20160428; DK 2388423 T3 20150914; ES 2547733 T3 20151008; PL 2388423 T3 20151231

DOCDB simple family (application)

EP 11166150 A 20110516; DE 102010029026 A 20100517; DK 11166150 T 20110516; ES 11166150 T 20110516; PL 11166150 T 20110516