

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 2388422 A3 20131225 (DE)

Application

EP 11166149 A 20110516

Priority

DE 102010029025 A 20100517

Abstract (en)

[origin: EP2388422A2] The drive (1) has a piston acting upon a spring and arranged in a housing (2). The piston cooperates with a driven shaft for opening and/or closing a wing of a window and a door. A pressure equalization device (8) is arranged in the housing that is filled with hydraulic fluid (9). The pressure equalization device has a differential housing (11) whose inner space is in contact with an inner space of the housing by a channel (12) that is arranged in weight (15) of the differential housing. The channel is closed by a stopper, so that vacuum filling of the drive is enabled.

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)

Citation (search report)

- [AD] EP 2075398 A2 20090701 - GEZE GMBH [DE]
- [A] DE 4101640 A1 19920723 - DORMA GMBH & CO KG [DE]

Cited by

US10161172B2; EP3243991A1

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 2388422 A2 20111123; **EP 2388422 A3 20131225**; **EP 2388422 B1 20150708**; DE 102010029025 A1 20111117;
DE 102010029025 B4 20160421

DOCDB simple family (application)

EP 11166149 A 20110516; DE 102010029025 A 20100517