

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 3243991 B1 20190410 (DE)**

Application  
**EP 17169860 A 20170508**

Priority  
DE 102016208182 A 20160512

Abstract (en)  
[origin: CN107366487A] A drive for a wing of a window, a door or the like comprises a housing and disposed in the housing, cooperating with an output shaft for opening and closing the wing, acted upon by a spring unit in the closing direction of the piston, through which the housing in a spring unit containing Spring chamber and a damping chamber is divided. The housing is filled with a hydraulic fluid such that a pressure equalization gas volume is left in the spring chamber and hydraulic fluid from the spring chamber can only be transferred into the damping chamber through a sleeve connected to the piston, extending into the spring chamber or a piston rod having at least one outflow channel is, whose cavity or respective outflow channel communicates via at least one inlet opening with the spring chamber. In this case, the sleeve or piston rod are arranged in the spring chamber and a respective inlet opening is positioned so that a respective inlet opening of the sleeve or piston rod is completely surrounded by the hydraulic fluid even at the lowest operating temperature of the drive.

IPC 8 full level  
**E05F 3/10** (2006.01); **E05F 3/12** (2006.01)

CPC (source: CN EP)  
**E05F 3/102** (2013.01 - CN EP); **E05F 3/106** (2013.01 - CN); **E05F 3/12** (2013.01 - EP); **E05Y 2800/172** (2013.01 - EP);  
**E05Y 2900/132** (2013.01 - EP)

Cited by  
GB2576069A; GB2576069B; GB2576071A; GB2576071B

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 3243991 A1 20171115; EP 3243991 B1 20190410**; CN 107366487 A 20171121; CN 107366487 B 20190913;  
DE 102016208182 A1 20171116; DE 102016208182 B4 20191128; DK 3243991 T3 20190722; ES 2733118 T3 20191127;  
PL 3243991 T3 20190930

DOCDB simple family (application)  
**EP 17169860 A 20170508**; CN 201710332804 A 20170512; DE 102016208182 A 20160512; DK 17169860 T 20170508;  
ES 17169860 T 20170508; PL 17169860 T 20170508