

Title (en)
HYDRAULIC DRIVE FOR A TURNING SASH

Title (de)
HYDRAULISCHER DREHFLÜGELANTRIEB

Title (fr)
ENTRAÎNEMENT HYDRAULIQUE POUR VANTAIL

Publication
EP 1409827 B1 20090527 (DE)

Application
EP 02716760 A 20020211

Priority
• DE 10107050 A 20010213
• EP 0201415 W 20020211

Abstract (en)
[origin: WO02064933A1] The invention relates to a hydraulic drive for a turning sash, comprising a door-closing element (1) having an eccentrically positioned pinion (6) comprising a circular working curve. Said pinion intermeshes with a toothed rack (5) arranged on a piston (4), causing a particular embodiment of the working curve and the teeth (9) of the toothed rack (5), adapting to an involute toothing of the pinion (6). The invention aims to improve the closing delay in order to obtain an optimum movement sequence of the piston (4) in the housing (2) of the door-closing element (1).
[origin: WO02064933A1] The invention relates to a hydraulic drive for a turning sash, comprising a door-closing element (1) having an eccentrically positioned pinion (6) comprising a circular working curve. Said pinion intermeshes with a toothed rack (5) arranged on a piston (4), causing a particular embodiment of the working curve and the teeth (9) of the toothed rack (5), adapting to an involute toothing of the pinion (6). The invention aims to improve the closing delay in order to obtain an optimum movement sequence of the piston (4) in the housing (2) of the door-closing element (1).

IPC 8 full level
E05F 3/10 (2006.01); **E05F 3/22** (2006.01); **E05F 15/63** (2015.01)

CPC (source: EP)
E05F 3/102 (2013.01); **E05F 3/224** (2013.01); **E05F 3/227** (2013.01); **E05F 15/63** (2015.01); **E05F 15/53** (2015.01); **E05Y 2201/41** (2013.01); **E05Y 2201/422** (2013.01); **E05Y 2201/434** (2013.01); **E05Y 2201/448** (2013.01); **E05Y 2201/618** (2013.01); **E05Y 2201/716** (2013.01); **E05Y 2400/3015** (2024.05); **E05Y 2600/46** (2013.01); **E05Y 2900/132** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02064933 A1 20020822; AT E432405 T1 20090615; DE 10107050 A1 20020912; DE 10107050 C2 20030703; DE 50213577 D1 20090709; DK 1409827 T3 20090921; EP 1409827 A1 20040421; EP 1409827 B1 20090527; ES 2327213 T3 20091027

DOCDB simple family (application)
EP 0201415 W 20020211; AT 02716760 T 20020211; DE 10107050 A 20010213; DE 50213577 T 20020211; DK 02716760 T 20020211; EP 02716760 A 20020211; ES 02716760 T 20020211