

Title (en)
DRIVE FOR A REVOLVING DOOR AND METHOD FOR PIVOTING A DOOR LEAF OF A REVOLVING DOOR

Title (de)
ANTRIEB FÜR EINE DREHFLÜGELTÜR UND VERFAHREN ZUM VERSCHWENKEN EINES TÜRBLATTES EINER DREHFLÜGELTÜR

Title (fr)
ENTRAÎNEMENT POUR UNE PORTE BATTANTE ET PROCÉDÉ DE PIVOTEMENT D'UN BATTANT DE PORTE D'UNE PORTE BATTANTE

Publication
EP 4299869 A1 20240103 (DE)

Application
EP 22182579 A 20220701

Priority
EP 22182579 A 20220701

Abstract (en)
[origin: WO2024003409A1] The invention relates to a drive unit (5) for a swing-leaf door (1), comprising: an electric motor (6), in particular a servomotor (6a), having a motor shaft for pivoting a door leaf (3) relative to a door frame (2); a control/adjustment unit (9) that is configured to move the door leaf (3) into a target angular position (α_1 , α_2) by controlling and/or adjusting the electric motor (6); and an electrically actuable brake (7), the brake (7) being configured, when substantially electrically deenergized, to preferably frictionally generate a holding braking moment (M_{hold}) and impart same to the door leaf (3) in order to hold the door leaf (3) in the target angular position (α_1 , α_2) when a disturbance torque acts on the door leaf (3), and, when electrically energized, to generate a release braking moment ($M_{release}$), which is reduced in relation to the holding braking moment (M_{hold}), and impart same to the door leaf (3). The invention furthermore relates to a method for pivoting a door leaf (3) of a swing-leaf door (1).

IPC 8 full level
E05F 15/63 (2015.01); **E05F 15/70** (2015.01)

CPC (source: EP)
E05F 15/63 (2015.01); **E05F 15/70** (2015.01); **E05F 2015/631** (2015.01); **E05Y 2201/21** (2013.01); **E05Y 2201/462** (2013.01); **E05Y 2400/32** (2013.01); **E05Y 2400/337** (2013.01); **E05Y 2900/132** (2013.01)

Citation (applicant)

- US 3470653 A 19691007 - KALOG FRANCIS J
- US 7310911 B1 20071225 - SELLMAN NILS D [US]

Citation (search report)

- [X] DE 102004004526 A1 20040805 - PHYSIKALISCHE TECHNOLOGIE UND [DE]
- [IY] US 6634140 B1 20031021 - SELLMAN NILS D [US]
- [Y] WO 9932748 A1 19990701 - DORMA GMBH & CO KG [DE], et al
- [A] EP 3064689 A1 20160907 - DORMA DEUTSCHLAND GMBH [DE]
- [A] WO 2011067001 A1 20110609 - BODE GMBH & CO KG [DE], et al

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4299869 A1 20240103; WO 2024003409 A1 20240104

DOCDB simple family (application)
EP 22182579 A 20220701; EP 2023068175 W 20230703