

Title (en)

Automatic operating mechanism of a light sliding door with at least one movable wing

Title (de)

Mechanismus zur automatischen Steuerung einer leichten Schiebetür mit mindestens einem beweglichen Flügel

Title (fr)

Mécanisme de commande automatique d'une porte coulissante légère équipée d'au moins un vantail mobile

Publication

**EP 1724428 A1 20061122 (FR)**

Application

**EP 06354014 A 20060503**

Priority

FR 0504986 A 20050518

Abstract (en)

The mechanism has a driving cord (5) confirming with a closed loop after winding on a driving pulley driven by a low voltage DC motor (6). The cord is formed of a plastic material having a coefficient of adhesion and elasticity either to drive a door leaf (1) between open and closed positions in normal operating condition, or to slide the cord on the pulley during blocking or manual pushing of the leaf opposite to its moving direction. The cord is maintained wound on the pulley by a guide pulley (9) and a tension pulley (8). The return of the cord is carried out on a guide pulley (10).

IPC 8 full level

**E05F 15/603** (2015.01); **E05F 15/643** (2015.01)

CPC (source: EP)

**E05F 15/603** (2015.01); **E05F 15/643** (2015.01); **E05F 15/40** (2015.01); **E05Y 2201/232** (2013.01); **E05Y 2400/3013** (2024.05); **E05Y 2900/132** (2013.01)

Citation (search report)

- [Y] US 4050189 A 19770927 - PETERSON FRANCIS C
- [Y] US 1932115 A 19331024 - MEADOWS WALTER A
- [YA] DE 4339565 A1 19950524 - HOERMANN KG VERKAUFGES [DE]
- [Y] GB 2227280 A 19900725 - WESTINGHOUSE BRAKE & SIGNAL [GB]
- [Y] US 5437580 A 19950801 - DOERING ERICH [CH]
- [A] US 2004074046 A1 20040422 - MIMNAUGH GARY T [US]
- [A] FR 2585061 A1 19870123 - DUPONT PIERRE [FR]

Cited by

CN105332588A; ES2325611A1; EP2169169A1; ITRE20080085A1; CN110552586A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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**EP 06354014 A 20060503**; FR 0504986 A 20050518