

Title (en)

Device for closing the wing of a window, door or similar

Title (de)

Schliessvorrichtung für einen Flügel eines Fensters, einer Tür oder dergleichen

Title (fr)

Dispositif de fermeture pour le battant d'une fenêtre, ou d'une porte ou similaire

Publication

EP 0764752 B1 20060726 (DE)

Application

EP 96115251 A 19960923

Priority

- DE 19535447 A 19950923
- DE 19606828 A 19960225

Abstract (en)

[origin: EP0764752A2] A mechanism for controlling the closing action of a door or window operates in conjunction with an arm attached at one end to the door and having its opposite end bored to receive the pivotpin of a sliding block (21c) travelling in the fixed guide rails (4) mounted horizontally above the door (not shown). The closing control assembly (9) comprises a pivoted (43a) clamping arm (43) whose opposite end positioning is subject to a piezo actuator (6) energised from a source (7) via the leads (7b). The dimensions of the piezo-actuator are dependent on the applied voltage and the motion of the block (21c) is thereby regulated by the frictional contact of the clamping arm (43) to result in braking, damping or locking action.

IPC 8 full level

E05C 17/28 (2006.01); **E05B 47/00** (2006.01); **E05F 3/22** (2006.01); **E05F 5/12** (2006.01); **H02N 2/02** (2006.01)

CPC (source: EP)

E05B 47/00 (2013.01); **E05B 47/0009** (2013.01); **E05C 17/28** (2013.01); **E05F 3/221** (2013.01); **E05F 3/223** (2013.01); **E05F 5/12** (2013.01); **E05F 3/227** (2013.01); **E05F 2003/228** (2013.01); **E05Y 2201/43** (2013.01); **E05Y 2800/67** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (examination)

- DE 3406409 A1 19850822 - GEZE GMBH [DE]
- DE 3204978 A1 19830825 - AGFA GEVAERT AG [DE]
- EP 0273346 A2 19880706 - YALE SECURITY INC [US]
- US 4878265 A 19891107 - NESBITT LANNY E [US]
- US 5140173 A 19920818 - CHAU PHONG B [US], et al
- GB 2208678 A 19890412 - LOWE & FLETCHER LTD [GB]

Cited by

WO9939069A1; EP1340877A3; EP1277905A3; US10982480B2; EP1094186A1; CN106368517A; US2019093406A1; US10876342B2; US10774570B1; US11008795B1; DE102005029624A1; DE102005029624B4; EP1736629A3; EP1079105A1; EP0985794A3; EP2787156A3; CN112377018A; DE102020205953B4; WO2013127505A1; EP1340877A2; US7571515B2; EP3460158B1; EP2650461B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL PT SE

DOCDB simple family (publication)

EP 0764752 A2 19970326; **EP 0764752 A3 19980617**; **EP 0764752 B1 20060726**; AT E334289 T1 20060815; DE 19639043 A1 19970327; DE 59611370 D1 20060907

DOCDB simple family (application)

EP 96115251 A 19960923; AT 96115251 T 19960923; DE 19639043 A 19960923; DE 59611370 T 19960923