

Title (en)

Upper and lower closure device for doors with an automatic lock

Title (de)

Obere und untere Verschlussstellenvorrichtung für Türe mit automatischem Schloss

Title (fr)

Dispositif de fermeture supérieur et inférieur pour portes avec serrure automatique

Publication

EP 0859106 B1 20011031 (DE)

Application

EP 98102632 A 19980216

Priority

ES 9700322 A 19970217

Abstract (en)

[origin: EP0859106A1] The points have a holder (6) with fastenings for fixing to the top or bottom edge of the door (1). The holder contains, separate from the sloping release (5), and axially movable inner sleeve containing balls, an outer axially fixed guide-sleeve (8), blocking balls (9), and a blocking pre-tensioning spring (10). The release is supported directly on the end of the inner sleeve (7) the walls of which have openings through which at least three balls are inserted and evenly distributed in the inner sleeve's peripheral direction. The inner wall of the guide sleeve is formed by a cylindrical section (8a) continuing into a converging section (8b) converging in the outlet-direction of the locking bar (4).

IPC 1-7

E05B 63/20

IPC 8 full level

E05B 63/20 (2006.01); **E05C 7/04** (2006.01)

CPC (source: EP)

E05B 63/20 (2013.01); **E05C 7/04** (2013.01)

Cited by

DE102009044654A1; DE102015206417B4; CH704792A3; DE10318352B3; EP1475495A3; EP1201853A1; DE102015206417A1; GB2587435A; GB2587435B; EP1475495A2; WO2021152641A1; DE202012002742U1; EP2642051A2; EP2327851A2; DE202012002743U1; EP2642052A2; EP3280853B1

Designated contracting state (EPC)

AT DE FR GB IT PT

DOCDB simple family (publication)

EP 0859106 A1 19980819; **EP 0859106 B1 20011031**; AT E208000 T1 20011115; DE 59801906 D1 20011206; ES 2149062 A1 20001016; ES 2149062 B1 20010416

DOCDB simple family (application)

EP 98102632 A 19980216; AT 98102632 T 19980216; DE 59801906 T 19980216; ES 9700322 A 19970217