

Title (en)

Device for automatically closing a window or a door

Title (de)

Vorrichtung zum selbsttägigen Schliessen eines Flügels eines Fensters oder einer Tür

Title (fr)

Dispositif de fermeture automatique d'un battant de fenêtre ou de porte

Publication

**EP 1335091 B1 20050914 (DE)**

Application

**EP 02002687 A 20020206**

Priority

EP 02002687 A 20020206

Abstract (en)

[origin: EP1335091A1] The closer (10), for the automatic closing of an open swing door or window, has two interconnected bellows (30,32) behind each other, at least partially filled with an incompressible fluid which can flow between them in both directions. A fluid flow damper (90) is between the two bellows. The door/window return unit (24), which is tensed on opening, acts on the bellows so that the first bellows (30) are stretched from their rest position and the second bellows (32) are compressed from their rest setting to give them the actions of drawing and compression springs. Return forces are applied to the two bellows, to return them to their rest positions, augmented by at least one energy store (144) acting on at least one bellows.

IPC 1-7

**E05F 3/10**

IPC 8 full level

**E05F 3/10** (2006.01); **E05D 15/52** (2006.01); **E05F 15/20** (2006.01)

CPC (source: EP)

**E05F 3/10** (2013.01); **E05D 15/52** (2013.01); **E05F 15/79** (2015.01); **E05Y 2900/132** (2013.01)

Cited by

ITBO20080737A1; FR2901567A1; CN110454020A; WO2007135341A1

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)

**EP 1335091 A1 20030813**; **EP 1335091 B1 20050914**; AT E304640 T1 20050915; DE 50204248 D1 20051020

DOCDB simple family (application)

**EP 02002687 A 20020206**; AT 02002687 T 20020206; DE 50204248 T 20020206