

Title (en)

Return spring unit

Title (de)

Rückholfeder-Einheit

Title (fr)

Unité de ressort de rappel

Publication

EP 1703044 B1 20100113 (DE)

Application

EP 05026803 A 20051208

Priority

DE 202005004381 U 20050316

Abstract (en)

[origin: EP1703044A2] A self-closing door is operated by a return spring unit located within a two-part housing. The housing is embedded on one side to the door outer frame threshold, and a central rotating core links a spindle via the spring to the housing. The two-part housing has apertures top and bottom.

IPC 8 full level

E05B 15/04 (2006.01); **E05B 3/04** (2006.01); **E05B 3/06** (2006.01); **E05B 3/08** (2006.01); **E05B 15/02** (2006.01); **E05B 63/04** (2006.01)

CPC (source: EP)

E05B 3/065 (2013.01); **E05B 63/04** (2013.01); **E05B 2015/042** (2013.01)

Cited by

CN110005257A; EP2060707A1; US2010225128A1; US2013168978A1; US9464458B2; US2015240530A1; US9790713B2; US2018030760A1; US10954694B2; US2022042350A1; WO2009003600A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1703044 A2 20060920; EP 1703044 A3 20071219; EP 1703044 B1 20100113; AT E455218 T1 20100115; DE 202005004381 U1 20050525; DE 502005008865 D1 20100304; DK 1703044 T3 20100517; ES 2338893 T3 20100513; NO 20061213 L 20060918; PL 1703044 T3 20100730; SI 1703044 T1 20100531

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EP 05026803 A 20051208; AT 05026803 T 20051208; DE 202005004381 U 20050316; DE 502005008865 T 20051208; DK 05026803 T 20051208; ES 05026803 T 20051208; NO 20061213 A 20060315; PL 05026803 T 20051208; SI 200530963 T 20051208