

Title (en)

FLOOR SPRING

Title (de)

BODENTÜRSCHLIESSER

Title (fr)

FERME-PORTE AUTOMATIQUE INTEGRE DANS LE SOL

Publication

**EP 1658413 A1 20060524 (DE)**

Application

**EP 04763941 A 20040810**

Priority

- EP 2004008921 W 20040810
- DE 10339106 A 20030822

Abstract (en)

[origin: US2007186376A1] A floor-concealed door closer includes a housing for holding a door closing mechanism having an axle, and a housing cover for mounting on the housing and supporting the axle. The housing cover has transverse sides provided with lateral projections, each lateral projection having a stiffening flange.

IPC 1-7

**E05F 3/00**

IPC 8 full level

**E05F 3/00** (2006.01)

CPC (source: EP KR US)

**E05F 3/00** (2013.01 - KR); **E05F 3/225** (2013.01 - EP US); **E05Y 2201/11** (2013.01 - EP US); **E05Y 2600/41** (2013.01 - EP US); **E05Y 2600/452** (2013.01 - EP US); **E05Y 2900/132** (2013.01 - EP US)

Citation (search report)

See references of WO 2005021912A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**US 2007186376 A1 20070816**; AT E432404 T1 20090615; BR PI0413636 A 20061017; CN 1839240 A 20060927; CN 1839240 B 20110810; DE 10339106 A1 20050317; DE 502004009534 D1 20090709; DK 1658413 T3 20090921; EP 1658413 A1 20060524; EP 1658413 B1 20090527; ES 2327236 T3 20091027; JP 2007503536 A 20070222; KR 20060058113 A 20060529; NO 20061108 L 20060308; RU 2006108862 A 20071020; WO 2005021912 A1 20050310

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**US 56905804 A 20040810**; AT 04763941 T 20040810; BR PI0413636 A 20040810; CN 200480024111 A 20040810; DE 10339106 A 20030822; DE 502004009534 T 20040810; DK 04763941 T 20040810; EP 04763941 A 20040810; EP 2004008921 W 20040810; ES 04763941 T 20040810; JP 2006523568 A 20040810; KR 20067003129 A 20060215; NO 20061108 A 20060308; RU 2006108862 A 20040810