

Title (en)

Closing cylinder, in particular for door locks of motor vehicles

Title (de)

Schliesszylinder, insbesondere für Türschlösser von Kraftfahrzeugen

Title (fr)

Cylindre de fermeture, notamment pour serrures de porte de véhicules automobiles

Publication

EP 2381053 A3 20161012 (DE)

Application

EP 11002563 A 20110329

Priority

DE 102010015684 A 20100421

Abstract (en)

[origin: EP2381053A2] The locking cylinder (10) has a cylinder (12) or cylinder part in a locking device, where the cylinder or cylinder part interacts with a freewheel sleeve (14). A return spring (30) is operatively connected between the cylinder and the freewheel sleeve. The return spring is located spatially within the freewheel sleeve and a cylindrical projection of the cylinder.

IPC 8 full level

E05B 17/04 (2006.01)

CPC (source: EP)

E05B 17/045 (2013.01); **E05B 85/06** (2013.01); **E05B 17/041** (2013.01)

Citation (search report)

- [AD] EP 0659962 B1 19990331 - ALPHA CORP [JP]
- [A] US 2009031768 A1 20090205 - YAMAGUCHI JUN [JP], et al
- [A] DE 4410736 A1 19951005 - EWALD WITTE GMBH & CO KG [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2381053 A2 20111026; **EP 2381053 A3 20161012**; **EP 2381053 B1 20171227**; DE 102010015684 A1 20111027;
DE 102010015684 B4 20120524

DOCDB simple family (application)

EP 11002563 A 20110329; DE 102010015684 A 20100421