Title (en)

LOCK DEVICE

Title (de)

SCHLIESSVORRICHTUNG

Title (fr)

DISPOSITIF DE FERMETURE

Publication

EP 2603654 B1 20140716 (DE)

Application

EP 11752103 A 20110810

Priority

- DE 102010033904 A 20100810
- EP 2011003996 W 20110810

Abstract (en)

[origin: WO2012019757A1] The invention relates to a lock device (1), comprising a lock cylinder (3) and a flat key (2) having a control gate (5), wherein the lock cylinder (3) comprises a cylinder housing (7) and a cylinder core (6) rotationally supported in the cylinder housing and a plurality of plate-shaped tumblers (10-17), which are supported in the cylinder core (6) so as to be radially slidable with respect to the rotational axis of the cylinder core and which each have a key opening (18) having a control cam (30) and which are at least partially pushed by the spring load into a locking channel (38, 39) of the cylinder housing (7) in order to lock the lock cylinder (3) when the flat key (2) is removed and which are slid into an unlocking position by the control cam (33) guided in the control gate (5) when the key (2) is inserted, and wherein at least one stop (25, 26) is associated with each of the tumblers (10-17) in order to limit the sliding path in at least one sliding direction in order to conceal the unlocking position. The stop (25, 26) of at least one tumbler (10) is designed/arranged in such a way that said tumbler (10) is slid into the unlocking position of said tumbler by the spring load when the key is removed.

IPC 8 full level

E05B 29/10 (2006.01); **E05B 29/00** (2006.01)

CPC (source: EP KR US)

E05B 29/00 (2013.01 - EP KR US); **E05B 29/0033** (2013.01 - US); E05B 19/0058 (2013.01 - EP US); Y10T 70/7599 (2015.04 - EP US); Y10T 70/7695 (2015.04 - EP US); Y10T 70/7785 (2015.04 - EP US)

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

DOCDB simple family (publication)

DE 102010033904 A1 20120216; CN 103038432 A 20130410; CN 103038432 B 20150923; EP 2603654 A1 20130619; EP 2603654 B1 20140716; JP 2013536336 A 20130919; JP 5628428 B2 20141119; KR 101473123 B1 20141215; KR 20130041318 A 20130424; RU 2013110307 A 20140920; RU 2537288 C2 20141227; US 2013152648 A1 20130620; US 8904838 B2 20141209; WO 2012019757 A1 20120216

DOCDB simple family (application)

DE 102010033904 A 20100810; CN 201180039133 A 20110810; EP 11752103 A 20110810; EP 2011003996 W 20110810; JP 2013523531 A 20110810; KR 20137005984 A 20110810; RU 2013110307 A 20110810; US 201313764161 A 20130211