

Title (en)  
Closing device

Title (de)  
Schliessvorrichtung

Title (fr)  
Dispositif de fermeture

Publication  
**EP 2489815 A3 20121114 (DE)**

Application  
**EP 12167478 A 20050411**

Priority  
EP 05405285 A 20050411

Abstract (en)  
[origin: EP1712713A1] The closing device has a fixed part (2) and a movable part (3) mounted on the fixed part, tumblers (Z1-Z5) with an associated key for releasing the movable part, a locking element (14) for holding the tumblers in a locking position and a drive (13) for displacing the locking element for releasing the tumblers that can be controlled by an electronic controller (16).

IPC 8 full level  
**E05B 15/14** (2006.01); **E05B 27/00** (2006.01); **E05B 47/00** (2006.01)

CPC (source: EP US)  
**E05B 17/147** (2013.01 - EP US); **E05B 47/0012** (2013.01 - EP US); **E05B 47/0603** (2013.01 - EP US); **E05B 47/063** (2013.01 - EP US); **E05B 15/14** (2013.01 - EP US); **E05B 27/0028** (2013.01 - EP US); **Y10T 70/7073** (2015.04 - EP US); **Y10T 70/7079** (2015.04 - EP US); **Y10T 70/7102** (2015.04 - EP US); **Y10T 70/7136** (2015.04 - EP US); **Y10T 70/7616** (2015.04 - EP US); **Y10T 70/7621** (2015.04 - EP US); **Y10T 70/7757** (2015.04 - EP US)

Citation (search report)

- [X] FR 2808552 A1 20011109 - VACHETTE SA [FR]
- [X] EP 1031685 A1 20000830 - KARRENBURG FA WILHELM [DE], et al
- [X] WO 03085227 A1 20031016 - RUKO AS [DK], et al
- [A] EP 1205616 A2 20020515 - APW LTD [GB]
- [A] US 2003062985 A1 20030403 - LUO SHUQUAN [CN]
- [A] WO 8805106 A2 19880714 - FERRAYE JOSEPH [FR], et al

Cited by  
CN104153649A; CN111997443A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1712713 A1 20061018; EP 1712713 B1 20170517**; AU 2006235659 A1 20061019; AU 2006235659 B2 20120510; AU 2012203138 A1 20120621; AU 2012203138 B2 20130314; CA 2603627 A1 20061019; CA 2603627 C 20130924; CA 2807346 A1 20061019; CA 2807346 C 20140218; CN 101155967 A 20080402; CN 101155967 B 20120118; EP 2489815 A2 20120822; EP 2489815 A3 20121114; HK 1117884 A1 20090123; JP 2008536026 A 20080904; JP 2012180739 A 20120920; JP 5301268 B2 20130925; JP 5385431 B2 20140108; US 2008163655 A1 20080710; US 2011265529 A1 20111103; US 8695387 B2 20140415; US 8899082 B2 20141202; WO 2006108313 A1 20061019

DOCDB simple family (application)  
**EP 05405285 A 20050411**; AU 2006235659 A 20060407; AU 2012203138 A 20120528; CA 2603627 A 20060407; CA 2807346 A 20060407; CH 2006000200 W 20060407; CN 200680011622 A 20060407; EP 12167478 A 20050411; HK 08108610 A 20080804; JP 2008504601 A 20060407; JP 2012145287 A 20120628; US 201113072417 A 20110325; US 91120906 A 20060407