

Title (en)

Locking device for vehicle doors, in particular for swinging-sliding doors of railway vehicles

Title (de)

Ver- und Entriegelungsvorrichtung für Fahrzeugtüren insbesondere Schwenkschiebetüren für Schienenfahrzeuge

Title (fr)

Dispositif de verrouillage pour portes de véhicules, notamment portes pivotantes-coulissantes pour un véhicule ferroviaire

Publication

EP 1514985 A3 20080123 (DE)

Application

EP 04021677 A 20040913

Priority

DE 10343360 A 20030914

Abstract (en)

[origin: EP1514985A2] The railway carriage doors (1a,b) locking and unlocking system has rotating hooked bolt members (10). These members hold the outside edges of the doors and are worked by rod drives (24,25) from a central motor (6a). The bolts swivel on vertical axes and move synchronously. The doors move outward and sideways on curved tracks (2a,b). There are fixed rack members (3a,b) and toothed belt drives (6a,b) with pulleys (7) for synchronization of top swinging drive mechanisms.

IPC 8 full level

B61D 19/00 (2006.01); **B61D 19/02** (2006.01); **E05B 47/00** (2006.01); **E05B 65/12** (2006.01); **E05C 3/24** (2006.01); **E05D 15/10** (2006.01); **E05F 15/14** (2006.01); **E05B 53/00** (2006.01); **E05B 63/00** (2006.01); **E05B 63/14** (2006.01); **E05B 65/08** (2006.01)

CPC (source: EP)

B61D 19/008 (2013.01); **E05B 79/20** (2013.01); **E05B 81/14** (2013.01); **E05B 81/20** (2013.01); **E05B 83/363** (2013.01); **E05B 83/40** (2013.01); **E05C 3/24** (2013.01); **E05D 15/1068** (2013.01); **E05F 15/638** (2015.01); **E05B 53/00** (2013.01); **E05B 63/0052** (2013.01); **E05B 63/143** (2013.01); **E05B 65/0835** (2013.01); **E05B 81/90** (2013.01); **E05F 15/646** (2015.01); **E05Y 2201/22** (2013.01); **E05Y 2201/238** (2013.01); **E05Y 2201/434** (2013.01); **E05Y 2600/11** (2013.01); **E05Y 2600/322** (2013.01); **E05Y 2600/46** (2013.01); **E05Y 2800/252** (2013.01); **E05Y 2800/73** (2013.01); **E05Y 2900/51** (2013.01)

Citation (search report)

- [XAY] US 5172970 A 19921222 - MOMOSE YOSHINORI [JP], et al
- [XY] GB 1326545 A 19730815 - ADAMS RITE MFG
- [XY] US 6361089 B1 20020326 - PARKER BRUCE [US]
- [X] US 4648253 A 19870310 - IMHOFF LEE A [US]
- [Y] EP 0957019 A2 19991117 - IFE GMBH [AT]
- [DA] DE 10116583 A1 20021017 - FAHRZEUGTECHNIK DESSAU GMBH RA [DE]
- [A] US 2002145292 A1 20021010 - FURNER RONALD T [AU]
- [A] US 4703960 A 19871103 - LENSE ROBERT F [US]
- [A] EP 0775793 A1 19970528 - ROCKWELL LVS [GB]

Cited by

CN114396209A; CN103485629A; CN112676558A; CN111247303A

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

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

EP 1514985 A2 20050316; **EP 1514985 A3 20080123**; DE 10343360 A1 20050414

DOCDB simple family (application)

EP 04021677 A 20040913; DE 10343360 A 20030914