

Title (en)
Espagnolette locking device for doors

Title (de)
Triebstangenverschluss für Türen

Title (fr)
Dispositif de verrouillage de porte à crémone

Publication
EP 2112302 A1 20091028 (FR)

Application
EP 09158533 A 20090422

Priority
FR 0852719 A 20080423

Abstract (en)
The device (11) has locking rods (15, 17) connected to a rack support (25) slidably mounted inside an elongated cylindrical case (13) that includes a rack support (27). Each support carries corresponding rack sections (31, 33) with a tooth having an actuating pinion (35). The pinion is connected to rotary control units such as cylindrical safety barrel or rotary knob. The tooth of articulated section is extended on a curve portion of a free end of the section to pivot the section at a stroke end and to buttress the section for permitting irreversibility of movement of the rod.

Abstract (fr)
Verrouillage de porte à crémone commandée par crémaillère. La tige de crémone (15) est raccordée à un premier support de crémaillère (25) monté coulissant à l'intérieur d'un boîtier (13) qui abrite un second support de crémaillère (27) coulissant, chaque support de crémaillère portant un tronçon de crémaillère (31, 33) en prise avec un pignon (35), au moins un tronçon de crémaillère étant articulé à son propre support et comportant une denture qui se prolonge sur une portion courbe (31c, 33c) de son extrémité.

IPC 8 full level
E05B 17/20 (2006.01); **E05C 9/04** (2006.01)

CPC (source: EP US)
E05B 17/2053 (2013.01 - EP US); **E05C 9/041** (2013.01 - EP US); **Y10T 292/0834** (2015.04 - EP US); **Y10T 292/0843** (2015.04 - EP US); **Y10T 292/0846** (2015.04 - EP US); **Y10T 292/0966** (2015.04 - EP US)

Citation (applicant)
NL 60449 C

Citation (search report)
• [A] NL 60449 C
• [A] FR 1006291 A 19520421
• [A] EP 0615042 A1 19940914 - MALCOE PRECISION FABRICATIONS [GB]
• [A] EP 0853175 A1 19980715 - PREFER SRL [IT]

Cited by
EP2692969A1; RU2611287C2; EP2784248A1; EP2808466A3; RU2664204C2; EP3450663A1; EP3450664A1; WO2014019824A1

Designated contracting state (EPC)
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 SE SI SK TR

DOCDB simple family (publication)
EP 2112302 A1 20091028; EP 2112302 B1 20120516; AU 2009201468 A1 20091112; BR PI0901000 A2 20120228; CA 2663865 A1 20091023; ES 2389587 T3 20121029; FR 2930582 A1 20091030; FR 2930582 B1 20100604; SG 156577 A1 20091126; TW 201007001 A 20100216; US 2009267358 A1 20091029; US 8459702 B2 20130611

DOCDB simple family (application)
EP 09158533 A 20090422; AU 2009201468 A 20090415; BR PI0901000 A 20090422; CA 2663865 A 20090423; ES 09158533 T 20090422; FR 0852719 A 20080423; SG 2009024217 A 20090408; TW 98113332 A 20090422; US 42651809 A 20090420