

Title (en)

LOCK CYLINDER PARTICULARLY FOR FUNCTIONS WHICH CAN BE CARRIED OUT IN A VEHICLE

Title (de)

SCHLIESSZYLINDER FÜR INSBESONDERE IN EINEM FAHRZEUG AUSFÜHRBARE FUNKTIONEN

Title (fr)

BARILLET DE SERRURE, NOTAMMENT POUR FONCTIONS POUVANT ÊTRE EXÉCUTÉES DANS UN VÉHICULE

Publication

EP 2150664 A1 20100210 (DE)

Application

EP 08715903 A 20080220

Priority

- EP 2008001335 W 20080220
- DE 102007023458 A 20070519

Abstract (en)

[origin: US8347672B2] In order to enable a turning of a key of a lock cylinder onto a driven member (shaft 36) in the lock cylinder only when a proper key is inserted, yet to prohibit the turning in case of an overload, an overload lock is arranged therebetween. The driven member (shaft 36) should specifically actuate functions in the vehicle only if the correct key is used. A threshold rotation torque determines the change between the normal and the overload state. In order to improve the lock cylinder, it is furnished that a disengaging lever (40) is mounted in the cylinder housing (30) in a pivotable manner (42) and can be displaced between two pivot positions in a radial plane defined by the longitudinal axis (13) of the lock cylinder. A locking cam (41) belonging to the overload lock is arranged on the free end of the disengaging lever (40). When the disengaging lever pivots, a carrier (50) pivots in unison, the carrier having a coupling part which engages in a counter coupling part of the cylinder core (10) during normal function. The disengaging lever (40) and the carrier (50) form a common pivot unit. In case of overload, wherein a rotation of the cylinder core force, the carrier (50) is decoupled from the cylinder core (10).

IPC 8 full level

E05B 17/04 (2006.01)

CPC (source: EP US)

E05B 17/0058 (2013.01 - EP US); **E05B 2009/047** (2013.01 - EP US); **Y10T 70/5677** (2015.04 - EP US); **Y10T 70/5823** (2015.04 - EP US); **Y10T 70/5827** (2015.04 - EP US); **Y10T 70/5969** (2015.04 - EP US); **Y10T 70/7706** (2015.04 - EP US); **Y10T 70/7712** (2015.04 - EP US); **Y10T 70/7864** (2015.04 - EP US); **Y10T 70/7949** (2015.04 - EP US)

Cited by

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

US 2010064743 A1 20100318; **US 8347672 B2 20130108**; AT E519007 T1 20110815; CN 101730778 A 20100609; CN 101730778 B 20140618; DE 102007023458 A1 20081120; EP 2150664 A1 20100210; EP 2150664 B1 20110803; WO 2008141683 A1 20081127

DOCDB simple family (application)

US 45159908 A 20080220; AT 08715903 T 20080220; CN 200880016620 A 20080220; DE 102007023458 A 20070519; EP 08715903 A 20080220; EP 2008001335 W 20080220