

Title (en)

Fastener for locking an opening

Title (de)

Zuhalterung zum Verschließen einer Öffnung

Title (fr)

Verrou destiné à fermer un ouvrant

Publication

EP 2284341 B1 20140226 (DE)

Application

EP 10008400 A 20100812

Priority

DE 102009037036 A 20090813

Abstract (en)

[origin: EP2284340A2] The catch has magnets (4) attached to a fixed part (2), where the magnets sealed with a yoke (3) comprise a permanent magnet (5). Magnetic field closure is generated within the former magnets by switching magnets (7) that connect pole shoes (6) of the former magnets. Magnetization direction of the switching magnets runs along the connection of the shoes. The switching magnets are magnetized to change magnetic field discharge of the former magnets. The shoes are detected by measurement of a sensor e.g. winding (8), coil (9) and Hall sensor or giant magnetoresistance (GMR) sensor (11). The sensor is arranged as a Hall sensor or giant magneto-resistance (GMR) sensor or as a resistance strain gauge. The switching magnets comprise aluminum nickel and cobalt magnetic substance.

IPC 8 full level

E05C 19/16 (2006.01); **F16P 3/08** (2006.01); **H01F 7/02** (2006.01)

CPC (source: EP)

E05C 19/166 (2013.01); **H01F 7/0263** (2013.01); **E05B 2047/0068** (2013.01); **E05C 19/16** (2013.01)

Cited by

US11572723B2; US10717390B2; US10737628B2

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2284340 A2 20110216; **EP 2284340 A3 20110601**; **EP 2284340 B1 20140226**; DE 102009037036 A1 20110217; EP 2284341 A2 20110216; EP 2284341 A3 20110608; EP 2284341 B1 20140226; ES 2452140 T3 20140331; ES 2454271 T3 20140410

DOCDB simple family (application)

EP 09011489 A 20090908; DE 102009037036 A 20090813; EP 10008400 A 20100812; ES 09011489 T 20090908; ES 10008400 T 20100812