

Title (en)

MAGNETIC LATCH

Title (de)

MAGNETVERSCHLUSS

Title (fr)

DISPOSITIF DE VERROUILLAGE MAGNETIQUE

Publication

EP 0615414 B1 19990602 (EN)

Application

EP 93900840 A 19921204

Priority

- US 94471192 A 19920911
- US 97160992 A 19921106
- US 97203392 A 19921106
- US 9210446 W 19921204

Abstract (en)

[origin: WO9406319A1] A magnetic latch includes a first member (301) having a protrusion and a second member (305) engaging the protrusion to prevent the first member (301) and the second member (305) from sliding relatively to one another. The second member includes a first magnet (230) to attract the first member (301) and a first solid non-magnetic member (319a) located inside a cavity of the first magnet (230) to enhance attraction between the first member (301) and the second member (305). The second member (305) can be provided with a backing plate (315a) to facilitate a magnetic flux path from the magnet to the magnet aperture. The second member (305) can also include a second magnet to attract the first member (301) and a second solid non-magnetic member located between the first magnet (230) and the second magnet. A third solid non-magnetic member can be provided on the outer periphery of the magnets. This design provides a latch with stronger holding power.

IPC 1-7

A44B 21/00; A41F 1/00; H01F 7/02

IPC 8 full level

H01F 7/02 (2006.01)

CPC (source: EP)

H01F 7/0263 (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9406319 A1 19940331; AT E180636 T1 19990615; CA 2123308 A1 19940331; CA 2123308 C 20030325; DE 69229352 D1 19990708; DE 69229352 T2 20000203; EP 0615414 A1 19940921; EP 0615414 A4 19950308; EP 0615414 B1 19990602; ES 2136121 T3 19991116

DOCDB simple family (application)

US 9210446 W 19921204; AT 93900840 T 19921204; CA 2123308 A 19921204; DE 69229352 T 19921204; EP 93900840 A 19921204; ES 93900840 T 19921204