Title (en)

Magnet system for an electromechanical switching device and electromagnetic relay

Title (de)

Magnetsystem für eine elektromechanische Schaltvorrichtung und elektromechanisches Relais

Title (fr)

Système magnétique pour appareil de coupure électromécanique et relais électromécanique

Publication

EP 1300864 A3 20050126 (EN)

Application

EP 02021297 A 20020919

Priority

- EP 02021297 A 20020919
- EP 01123872 A 20011005

Abstract (en)

[origin: EP1300864A2] A magnet system (100) for an electromechanical switching device. The magnet system (100) having an electromagnetic coil system (106). An iron circuit (108) having a core (110) and a yoke (112) partially surrounded by the electromagnetic coil system (106). The iron circuit (108) having a magnetic field excited by the electromagnetic coil system (106). A permanent magnet (120) arranged outside of the iron circuit (108) that has field lines superimposed by the magnetic field of the electromagnetic coil system (106). The field lines of the permanent magnet (120) strengthen the magnetic field of the electromagnetic coil system (106) in a first region (130) and weaken the magnetic field of the electromagnetic coil system in a second region (128) such that the magnetic field in the first region (130) and the magnetic field in the second region (128) balance each other. <IMAGE>

IPC 1-7

H01H 50/36

IPC 8 full level

H01H 50/36 (2006.01)

CPC (source: EP)

H01H 50/36 (2013.01)

Citation (search report)

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CN110504139A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1300864 A2 20030409; **EP 1300864 A3 20050126**

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