

Title (en)
BISTABLE MAGNETIC DRIVE FOR A SWITCH

Title (de)
BISTABILER MAGNETISCHER ANTRIEB FÜR EINEN SCHALTER

Title (fr)
COMMANDE MAGNETIQUE BISTABLE POUR UN COMMUTATEUR

Publication
EP 1078381 B1 20071212 (DE)

Application
EP 00920438 A 20000218

Priority
• DE 19910326 A 19990309
• EP 0001314 W 20000218

Abstract (en)
[origin: US7843293B1] Disclosed is a magnetic drive for an electrical switch, including a linear armature (26) displaceable between two ends positions, a shunt body (27) mounted at a distance from said armature and means (24, 25, 30, 31) for generating a magnetic field. The magnetic field exerts a force on the armature (26) retaining the latter in the end positions. By joining the shunt body (27) with the armature (26), the course of the flow lines of the magnetic field are changed in such a way that the retaining force exerted on the armature (26) is reduced and the latter is displaced to the other end position, optionally by a force exerted externally on the armature (26), and retained in the position by the magnetic field. Disconnection is effected by the shunt body (27), where after being joined with the shunt body (27) the armature (26) is moved from the end position opposite the shunt body (27) to the end position facing the shunt body (26). Fixing means (37-40, 42-45) are especially provided which hold the shunt body (27) in the end position opposite said shunt body and which joins the shunt body with the armature (26) when the electric switch (1) is disconnected requiring little energy/force expenditure.

IPC 8 full level
H01H 33/66 (2006.01); **H01H 3/28** (2006.01)

CPC (source: EP US)
H01H 3/28 (2013.01 - EP US); **H01H 33/666** (2013.01 - EP US)

Cited by
CN102403138A; EP2341519A1

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US 7843293 B1 20101130; AT E381106 T1 20071215; DE 19910326 A1 20000921; DE 19910326 C2 20010315; DE 50014839 D1 20080124; EP 1078381 A1 20010228; EP 1078381 B1 20071212; ES 2298137 T3 20080516; TR 200003316 T1 20011022; WO 0054295 A1 20000914; WO 0054295 A9 20010412

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