

Title (en)
Electromagnetic actuator

Title (de)
Hubmagnet

Title (fr)
Electro-aimant de commande

Publication
EP 0811996 A1 19971210 (DE)

Application
EP 97108857 A 19970603

Priority
DE 19622794 A 19960607

Abstract (en)
The solenoid actuator has a soft magnetic housing 1 on to which an excitation coil 7 is wound on to a former 9. The former is of a polyamide plastic and has a ringed shaped section 9a for guiding the armature. A gap 15 is formed by the armature counter piece that locates against the shoulder 9b. Set into the end of the housing is a guide bush 11 that is used to provide a low friction support for the armature pin 3. For his purpose the bush is produced with a surface coating of PTFE.

Abstract (de)
Der Hubmagnet weist ein weichmagnetisches Gehäuse (1) auf, in welchem eine Erregerspule (7) auf einen Spulenkörper (9) gewickelt ist. In einer axialen Durchgangsöffnung des Spulenkörpers (9) ist ein bei Bestromung der Erregerspule (7) entlang einer Mittenachse (X) des Spulenkörpers (9) in Richtung eines Ankergegenstückes (5) verschiebbarer Anker (3) angeordnet. Das Ankergegenstück (5) ist zwischen eine Schulter (9b) des Spulenkörpers (9) und das Gehäuse (1) eingeklemmt angeordnet. <IMAGE>

IPC 1-7
H01F 7/16

IPC 8 full level
H01F 7/16 (2006.01)

CPC (source: EP)
H01F 7/1607 (2013.01)

Citation (search report)

- [X] GB 2214356 A 19890831 - TANASHIN DENKI CO [JP]
- [X] FR 2665017 A1 19920124 - TELEMECANIQUE [FR]
- [A] DE 2419732 A1 19751113 - VNII TELEVIDENIYA RADIO
- [A] DE 3309904 A1 19840920 - REXROTH MANNESMANN GMBH [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 376 (E - 464) 13 December 1986 (1986-12-13)

Cited by
CN106795850A; WO2016055267A1

Designated contracting state (EPC)
AT DE ES FR GB IT NL PT SE

DOCDB simple family (publication)
EP 0811996 A1 19971210; DE 19622794 A1 19971211

DOCDB simple family (application)
EP 97108857 A 19970603; DE 19622794 A 19960607