

Title (en)  
ELECTROMAGNETIC ACTUATOR APPARATUS

Publication  
**EP 0179911 B1 19890607 (EN)**

Application  
**EP 84901014 A 19840305**

Priority  
JP 8400084 W 19840305

Abstract (en)  
[origin: WO8504044A1] An electromagnetic actuator apparatus is provided with a permanent magnet (16) inserted parallel to a magnetic circuit constituted by a fixed member (12) around which a coil (11) is wound and a movable member (14). The movable member (14) is retained within an air gap inside the fixed member (12) so that it operates in a bistable or monostable manner.

IPC 1-7  
**H01F 7/08**; **H01F 7/16**

IPC 8 full level  
**H01F 7/16** (2006.01); **H01F 7/122** (2006.01)

CPC (source: EP)  
**H01F 7/1646** (2013.01); **H01F 7/122** (2013.01)

Cited by  
FR2828000A1; EP0225388A4; EP1593130A4; US8179217B2; GB2429032A; GB2429032B; DE8900779U1; DE4108601A1; DE4108601C2; EP0272164A3; FR2606927A1; US7106159B2; WO2004073139A2; WO03012805A3

Designated contracting state (EPC)  
FR

DOCDB simple family (publication)  
**WO 8504044 A1 19850912**; AU 2650384 A 19850924; AU 569879 B2 19880225; DE 3490674 T1 19860515; EP 0179911 A1 19860507; EP 0179911 A4 19860723; EP 0179911 B1 19890607; GB 2165096 A 19860403; GB 2165096 B 19871231; GB 8523400 D0 19851023

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