

Title (en)

POLARISED ELECTROMAGNET WITH THREE POSITIONS AND CONTROL CIRCUIT

Publication

EP 0172080 B1 19880601 (FR)

Application

EP 85401463 A 19850717

Priority

FR 8411517 A 19840720

Abstract (en)

[origin: US4609899A] A three-state polarized electromagnet comprises a stationary system (1) surrounded by a coil (5) and a moving system (7). Each system consists of a permanent magnet (2; 14) fitted with pole pieces (3, 4; 12, 13). The ends of the pole pieces are bent-back towards each other in order to define four air-gaps (E1 to E4) for permitting displacement of the moving system (7) between two end positions. One end portion of a pole piece forms part of only one air-gap and the air-gap faces are joined to pole faces of permanent magnets having the same polarity in order to reduce to zero the fluxes within the air-gaps which are closed when no excitation is applied and in order to permit a return to a stable central position.

IPC 1-7

H01H 51/26

IPC 8 full level

H01F 7/08 (2006.01); **H01H 51/22** (2006.01); **H01H 51/24** (2006.01); **H01H 51/26** (2006.01); **H01H 51/00** (2006.01)

CPC (source: EP US)

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Cited by

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EP 0172080 A1 19860219; **EP 0172080 B1 19880601**; DE 3563144 D1 19880707; FR 2568056 A1 19860124; FR 2568056 B1 19870123; JP S61114430 A 19860602; US 4609899 A 19860902

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