

Title (en)

MONOSTABLY FUNCTIONING ELECTROMAGNET HAVING A PERMANENT MAGNET ARMATURE

Publication

EP 0086121 B1 19851023 (FR)

Application

EP 83400065 A 19830112

Priority

FR 8200792 A 19820120

Abstract (en)

[origin: ES8400630A1] At least one coil partly surrounds a magnetic circuit consisting of a fixed yoke and a movable armature, the armature being constituted by a permanent magnet having pole faces adapted to carry pole-pieces which project on each side of the axis of magnetization. The electromagnet comprises a second permanent magnet interposed within the fixed yoke with a polarity such that the armature is urged towards the end or so-called rest position when the coil is not energized.

IPC 1-7

H01F 7/08; H01H 51/00; H01H 51/22

IPC 8 full level

H01F 7/04 (2006.01); **F16K 31/06** (2006.01); **H01F 7/08** (2006.01); **H01F 7/16** (2006.01); **H01H 51/00** (2006.01); **H01H 51/22** (2006.01); **H01H 51/24** (2006.01); **H01F 7/122** (2006.01)

CPC (source: EP US)

H01F 7/08 (2013.01 - EP US); **H01F 7/1615** (2013.01 - EP US); **H01H 51/2209** (2013.01 - EP US); **H01F 7/122** (2013.01 - EP US); **H01H 51/2227** (2013.01 - EP US); **H01H 2050/025** (2013.01 - EP US); **H01H 2051/2218** (2013.01 - EP US)

Cited by

GB2149974A; EP0146421A1; FR2554960A1; DE3932274A1; DE3932274C2; FR2616959A1; EP0172080A1; FR2568056A1; US4609899A

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL

DOCDB simple family (publication)

EP 0086121 A1 19830817; **EP 0086121 B1 19851023**; AT E16222 T1 19851115; CA 1192249 A 19850820; DD 208262 A5 19840328; DE 3361039 D1 19851128; DE 86121 T1 19831124; ES 519104 A0 19831016; ES 8400630 A1 19831016; FR 2520152 A1 19830722; FR 2520152 B1 19860228; IN 160983 B 19870829; JP H0239846 B2 19900907; JP S58128706 A 19830801; SU 1304759 A3 19870415; US 4451808 A 19840529; YU 11983 A 19851231; YU 44431 B 19900831

DOCDB simple family (application)

EP 83400065 A 19830112; AT 83400065 T 19830112; CA 419789 A 19830119; DD 24738483 A 19830120; DE 3361039 T 19830112; DE 83400065 T 19830112; ES 519104 A 19830119; FR 8200792 A 19820120; IN 61CA1983 A 19830115; JP 802183 A 19830120; SU 3545101 A 19830117; US 45890783 A 19830118; YU 11983 A 19830120