

Title (en)

TEMPERATURE COMPENSATION FOR HIGHLY SENSITIVE PERMANENT-MAGNETIC HOLDING RELAYS

Publication

EP 0042056 B1 19841017 (DE)

Application

EP 81103246 A 19810430

Priority

DE 3022168 A 19800613

Abstract (en)

[origin: EP0042056A1] 1. A high-sensitivity permanent-magnet latching relay with a magnet yoke (1, 2, 3) and a permanent magnet (7) secured thereto, an armature (4) mounted on the limbs (1, 2) of the magnet yoke and loaded by a spring (5), and an excitation coil (6), surrounding one (2) of the limbs of the magnet yoke (1, 2, 3), and with a thermo-alloy arranged in the magnet circuit, characterized in that, for the purpose of obtaining a constant response threshold independently of the surrounding temperature, a magnetic resistor (8) made of a thermo-alloy is arranged between the permanent magnet (7) and the magnet yoke shunt (3).

IPC 1-7

H01H 71/32

IPC 8 full level

H01H 71/14 (2006.01); **H01H 71/32** (2006.01)

CPC (source: EP)

H01H 71/142 (2013.01); **H01H 71/321** (2013.01)

Citation (examination)

- US 4288769 A 19810908 - HOWELL EDWARD K
- DE 938799 C 19560209 - SIEMENS AG
- DE 1538370 C
- FR 2326028 A1 19770422 - SIEMENS AG [DE]

Cited by

EP1577920A1; FR2942908A1; WO2010103218A1

Designated contracting state (EPC)

AT BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0042056 A1 19811223; **EP 0042056 B1 19841017**; AT E9937 T1 19841115; DE 3022168 A1 19811224; DE 3166681 D1 19841122; ES 502997 A0 19820401; ES 8204221 A1 19820401

DOCDB simple family (application)

EP 81103246 A 19810430; AT 81103246 T 19810430; DE 3022168 A 19800613; DE 3166681 T 19810430; ES 502997 A 19810612