

Title (en)
MINIATURE ELECTROMAGNETIC RELAY

Publication
EP 0097123 A3 19861001 (DE)

Application
EP 83810249 A 19830608

Priority
CH 357982 A 19820610

Abstract (en)
[origin: US4503410A] A relay with a contact making independent from environmental conditions with two hermetically sealed contact pills is described. Each contact pill comprises a switching-over contact and a diaphragm made of electrically and magnetically conducting material which diaphragm is the movable member adhering on corresponding contact poles due to the magnetic flux caused by a permanent magnet and flowing through the core of a drive coil. To change the contact condition of the relay it is sufficient to produce a current pulse through the drive coil causing a control flux of a magnitude which exceeds that of the permanent magnet flux by a small amount only because the two fluxes add their strength when the change-over operation is initiated. Due to this adding the needed drive power is so small that a direct driving by TTL-circuits is possible. By other arrangements of the permanent magnet within the magnetic circuit monostable relays can also be realized.

IPC 1-7
H01H 51/22

IPC 8 full level
H01H 50/54 (2006.01); **H01H 50/42** (2006.01); **H01H 50/78** (2006.01); **H01H 51/22** (2006.01); **H01H 51/24** (2006.01)

CPC (source: EP KR US)
H01H 50/56 (2013.01 - KR); **H01H 51/22** (2013.01 - KR); **H01H 51/2209** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
AT CH FR GB LI NL SE

DOCDB simple family (publication)
EP 0097123 A2 19831228; EP 0097123 A3 19861001; AU 1537883 A 19831215; AU 561444 B2 19870507; BE 897016 A 19831212; BR 8303039 A 19840131; CA 1203824 A 19860429; ES 281213 U 19850801; ES 281213 Y 19860416; IT 1164271 B 19870408; IT 8321525 A0 19830608; IT 8321525 A1 19841208; JP H0414453 B2 19920312; JP S5958732 A 19840404; KR 840005268 A 19841105; MX 153537 A 19861111; NZ 204426 A 19860808; PH 20524 A 19870130; US 4503410 A 19850305

DOCDB simple family (application)
EP 83810249 A 19830608; AU 1537883 A 19830606; BE 2060127 A 19830610; BR 8303039 A 19830608; CA 430000 A 19830609; ES 281213 U 19830610; IT 2152583 A 19830608; JP 10104183 A 19830608; KR 830002583 A 19830610; MX 19755283 A 19830606; NZ 20442683 A 19830531; PH 29014 A 19830603; US 50193483 A 19830607