

Title (en)
ELECTRO MAGNETIC RELAY

Publication
EP 0487947 A3 19930113 (DE)

Application
EP 91118843 A 19911105

Priority
DE 9016328 U 19901130

Abstract (en)
[origin: EP0487947A2] An electromagnetic relay has an armature (10) which is supported such that it can pivot about a central axis and, in its two limit positions, rests with its two ends against in each case opposite ends (19, 20) of a yoke so that a three-point support is produced in each limit position. Each armature end is allocated at least one contact system (21...24) with a stationary contact (28) and a contact spring (26) which can be moved by the armature (10) via an operating device (31, 32). The contact springs (26) are pretensioned in a laterally asymmetric manner with respect to the armature longitudinal axis (L) in such a manner that the positioning forces (F1, F2) exerted by them on the armature (10) in its two limit positions are directed in the same direction at right angles to the armature longitudinal axis (L). In contrast, the armature support is installed such that it absorbs a supporting force (K) which is parallel to but opposes the positioning forces (F1, F2). In consequence, when the armature (10) is pivoted from each of its limit positions, simultaneous release of both armature ends from the yoke ends (19, 20) is ensured. <IMAGE>

IPC 1-7
H01H 51/22

IPC 8 full level
H01H 50/30 (2006.01); **H01H 50/54** (2006.01); **H01H 50/56** (2006.01); **H01H 51/22** (2006.01); **H01H 51/24** (2006.01); **H01H 85/30** (2006.01)

CPC (source: EP)
H01H 51/2227 (2013.01); **H01H 50/30** (2013.01)

Citation (search report)

- [X] DE 7902034 U1 19801016
- [Y] DE 3410424 A1 19850926 - SDS ELEKTRO GMBH [DE]
- [Y] DE 3224013 A1 19831229 - SIEMENS AG [DE]
- [A] FR 2271654 A1 19751212 - MATSUSHITA ELECTRIC WORKS LTD [JP]
- [AD] DE 3520773 C1 19890720 - SDS RELAIS AG

Cited by
DE10251455B3; EP1418606A1; DE10251454B3

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

DOCDB simple family (publication)
EP 0487947 A2 19920603; **EP 0487947 A3 19930113**; **EP 0487947 B1 19950510**; AT E122499 T1 19950515; DE 59105436 D1 19950614; DE 9016328 U1 19920402; JP 3195625 B2 20010806; JP H06187886 A 19940708

DOCDB simple family (application)
EP 91118843 A 19911105; AT 91118843 T 19911105; DE 59105436 T 19911105; DE 9016328 U 19901130; JP 31615891 A 19911129