

Title (en)  
Bistable electrical relay.

Title (de)  
Elektrisches bistabiles Relais.

Title (fr)  
Relais électrique bistable.

Publication  
**EP 0534572 A2 19930331 (EN)**

Application  
**EP 92202963 A 19920925**

Priority  
NL 9101630 A 19910926

Abstract (en)  
Bistable electrical relay (1) comprising a first contact (13), a movably mounted, essentially rigid arm (4) coupled thereto and provided with a first connecting point (14, 15, 16), and a second contact (12) coupled to an immovably mounted further arm (11) which is provided with a second connecting point (17, 18). To operate the contacts, electromagnetic drive means (9) are provided which act on the movable arm via spring means (5) for producing contact force. To keep the contacts closed, the drive means are provided with permanent magnets (20), while further spring means (6) act on the movable arm to keep the contacts open. Preferably, leaf springs are used, the two arms being mounted in close proximity in order to make use of the Lorentz force to produce additional contact force in the case of short-circuit currents. A switching module comprising bistable relays is also provided for switching group connecting points in an electrical power installation. <IMAGE>

IPC 1-7  
**H01H 1/54**; **H01H 1/58**; **H01H 50/58**; **H01H 51/22**; **H01H 73/00**

IPC 8 full level  
**H01H 1/54** (2006.01); **H01H 1/58** (2006.01); **H01H 50/58** (2006.01); **H01H 51/22** (2006.01); **H01H 89/06** (2006.01)

CPC (source: EP)  
**H01H 1/54** (2013.01); **H01H 1/5805** (2013.01); **H01H 50/58** (2013.01); **H01H 51/2209** (2013.01); **H01H 89/06** (2013.01)

Cited by  
EP3321947A1; FR2939204A1; CN111928984A; US6009615A; CN108551339A; EP0880158A3; GB2295726A; GB2295726B; WO03012813A1; WO2010063914A1; WO9505671A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0534572 A2 19930331**; **EP 0534572 A3 19930616**; **EP 0534572 B1 19950524**; AT E123173 T1 19950615; DE 69202661 D1 19950629; DE 69202661 T2 19951019; DK 0534572 T3 19950821; ES 2075596 T3 19951001; FI 924302 A0 19920925; FI 924302 A 19930327; GR 3017044 T3 19951130; NL 9101630 A 19930416; NO 923729 D0 19920925; NO 923729 L 19930329

DOCDB simple family (application)  
**EP 92202963 A 19920925**; AT 92202963 T 19920925; DE 69202661 T 19920925; DK 92202963 T 19920925; ES 92202963 T 19920925; FI 924302 A 19920925; GR 950402167 T 19950808; NL 9101630 A 19910926; NO 923729 A 19920925