

Title (en)
IMPROVED RELAY

Title (de)
VERBESSERTES RELAIS

Title (fr)
RELAIS AMÉLIORÉ

Publication
EP 2862193 A1 20150422 (EN)

Application
EP 13756696 A 20130613

Priority
• IT RM20120279 A 20120615
• IT 2013000169 W 20130613

Abstract (en)
[origin: WO2013186799A1] The present invention concerns a Relay (1) comprising a containment enclosure (20), at least one electromagnet (30), arranged within said containment enclosure (20) and electrically powered, for varying its polarity, at least one lamellar spring (53a, 53b), having a first and a second end (53a', 53b', 53a'', 53b''), said first end (53a', 53b') being fixed to said containment enclosure (20), at least one fixed electrical contact (51), fixed to said containment enclosure (20) and at least one movable contact (52), arranged on said lamellar spring (53a, 53b) and in correspondence with said fixed electrical contact (51), said lamellar spring (53a, 53b) being able to assume a first operating position, in which said movable contact (51) is not in contact with said fixed electrical contact (51), and a second operating position, in which said movable contact (52) is in contact with said fixed electrical contact (51), said relay (1) being characterized in that it comprises a control group (40) comprising a support element (41), pivoted about said containment enclosure (20), so as to be able to rotate around a first axis (Y), and provided with at least one seat (45), in which said at least one lamellar spring (53a, 53b) is constrained, and having a housing (42'), in which a magnetic unit (43) is arranged, capable of interacting with said electromagnet (30), and in that the plane defined by electrical contacts (51, 52) is orthogonal to said first axis (Y), so that, in case of variation of said polarity, said control group (40) rotates with respect to said containment enclosure (20), said lamellar spring (53a, 53b) passing from said first position to said second operating position and vice versa.

IPC 8 full level
H01H 51/22 (2006.01); **H01H 1/26** (2006.01); **H01H 50/24** (2006.01); **H01H 50/64** (2006.01); **H01H 51/24** (2006.01); **H01H 51/27** (2006.01)

CPC (source: EP)
H01H 51/2227 (2013.01); **H01H 1/26** (2013.01); **H01H 50/24** (2013.01); **H01H 50/643** (2013.01); **H01H 50/648** (2013.01); **H01H 51/2272** (2013.01); **H01H 51/24** (2013.01); **H01H 51/27** (2013.01)

Citation (search report)
See references of WO 2013186799A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2013186799 A1 20131219; EP 2862193 A1 20150422; EP 2862193 B1 20160525; ES 2579336 T3 20160810; IT RM20120279 A1 20131216

DOCDB simple family (application)
IT 2013000169 W 20130613; EP 13756696 A 20130613; ES 13756696 T 20130613; IT RM20120279 A 20120615