

Title (en)  
ELECTROMECHANICAL RELAY

Publication  
**EP 0349758 A3 19910109 (DE)**

Application  
**EP 89109797 A 19890531**

Priority  
DE 3823186 A 19880708

Abstract (en)  
[origin: JPH0254823A] PURPOSE: To simultaneously operate a large number of contacts by applying control electric current to an operational member made of a material having a shape memory property. CONSTITUTION: A spiral operational element 10 made of a shape memory alloy is kept in an extended state from the shape set at the manufacturing time by force of a compression spring 17. When control electric current is applied to the element 10, the element is heated and turned back to the original contracted state. Thereby resisting the force of the return spring 17, a piston 21 moves toward the stand 27. Consequently, the control member 9 is accompanied with a contact spring 14, separates a contact couple 2, and brings a contact 4 into contact with a contact 3. The opening and closing state is retained until the shape memory property of the element 10 is weakened by shutting the control current and an initial set state is again restored by the spring 17. As a result, a large number of contacts can be simultaneously operated.

IPC 1-7  
**H01H 71/14**

IPC 8 full level  
**H01H 37/32** (2006.01); **H01H 61/01** (2006.01)

CPC (source: EP US)  
**H01H 61/0107** (2013.01 - EP US); **H01H 2061/0115** (2013.01 - EP US)

Citation (search report)  
• [X] GB 1566231 A 19800430 - STANDARD TELEPHONES CABLES LTD  
• [A] FR 2431761 A1 19800215 - DELTA MATERIALS RESEARCH LTD [GB]  
• [A] GB 2083328 A 19820317 - DELTA MATEERIALS RESEARCH LTD  
• [A] DE 3005470 A1 19810723 - BBC BROWN BOVERI & CIE [CH]  
• [A] FR 2225828 A1 19741108 - TEXAS INSTRUMENTS INC [US]

Designated contracting state (EPC)  
FR GB

DOCDB simple family (publication)  
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