

Title (en)  
Polarized electromagnetic relay

Title (de)  
Polarisiertes elektromagnetisches Relais

Title (fr)  
Relais électromagnétique polarisé

Publication  
**EP 0746007 A3 19980415 (DE)**

Application  
**EP 96108869 A 19960529**

Priority  
DE 19520220 A 19950601

Abstract (en)  
[origin: US5673012A] The relay has a rocker armature (3) arranged between a base (1) and a coil (7), which is drawn respectively into one of two switching positions by a permanent magnet (55). Contact springs (34) that work together with the fixed contacts (14) anchored in the base are connected with the permanent magnet. For the stabilization of the construction and for the division between a contact chamber (4) and a coil chamber (6), a main body, preferably with an H-shaped cross-section, is provided, which overlaps the base (1) in the manner of a box, and which comprises projections (57) on both sides of the armature, on which terminal pins of the base can be supported. Through the injection of sealing compound into the coil chamber (6), the construction obtains a high stability. In this way, with one and the same construction, conventional solder pin terminals, SMT terminals and press-fit terminals can be used. The stable main body can transmit high mechanical pressure forces to the press-fit terminal pins supported on it, or can also ensure stability against heat influences during SMT connections.

IPC 1-7  
**H01H 50/02**; **H01H 50/14**; **H01H 51/22**

IPC 8 full level  
**H01H 50/04** (2006.01); **H01H 50/02** (2006.01); **H01H 50/14** (2006.01); **H01H 51/22** (2006.01); **H01H 11/00** (2006.01)

CPC (source: EP US)  
**H01H 50/026** (2013.01 - EP US); **H01H 51/22** (2013.01 - EP US); **H01H 51/229** (2013.01 - EP US); **H01H 11/0031** (2013.01 - EP US); **H01H 50/023** (2013.01 - EP US); **H01H 50/14** (2013.01 - EP US); **H01H 2001/5888** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0613163 A2 19940831 - OMRON TATEISI ELECTRONICS CO [JP]  
• [A] DE 4408980 A1 19940929 - SIEMENS AG [DE]

Cited by  
DE102011083953A1

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

DOCDB simple family (publication)  
**US 5673012 A 19970930**; DE 19520220 C1 19961121; DE 59604985 D1 20000525; EP 0746007 A2 19961204; EP 0746007 A3 19980415; EP 0746007 B1 20000419; JP H08329810 A 19961213

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**US 65904896 A 19960603**; DE 19520220 A 19950601; DE 59604985 T 19960529; EP 96108869 A 19960529; JP 13895196 A 19960531