

Title (en)  
ELECTROMAGNETIC RELAY

Publication  
**EP 0136592 B1 19880601 (DE)**

Application  
**EP 84110632 A 19840906**

Priority  
DE 8325986 U 19830909

Abstract (en)  
[origin: EP0136592A1] 1. Electromagnetic relay having a coil (4) which contains a coil core (5), an angled yoke (6), whose first leg (6a) is coupled with a pole end of the coil core (5) and whose second leg (6b) runs parallel to the coil axis, with a plate-like armature (7), which is mounted in the area of the free end of the second yoke leg (6b) and forms an air gap (8) with the other pole end of the coil core (5), as well as with an angled leaf spring (9) which serves as an armature restoring and contact spring and the first leg of which (9a) is secured to the yoke (6) and runs at least in part parallel to the second yoke leg (6b), and the second leg (9b) of which is essentially at right angles to the first leg (9a) of the leaf spring (9), in such a manner that the mutually abutting areas of the two legs (9a, 9b ; 19a, 19b ; 29a, 29b) of the leaf spring (9 ; 19 ; 29) exhibit at an approximate right angle a distinct knee, and the second leg (9b ; 19b ; 29b) of the leaf spring (9 ; 19 ; 29) lying partially on and being connected to the armature (7), characterized in that the area of the first leg (9a ; 19a ; 29a) of the leaf spring (9 ; 19 ; 29) in the vicinity of the knee is spaced from the rotational axis of the armature (7, 27) so as to increase the resilient length of the second leg (9b ; 19b ; 29b) of the leaf spring (9 ; 19 ; 29) and in that the first leg (9a ; 19a ; 29a) of the leaf spring (9 ; 19 ; 29) exhibits a swivel bearing (6c, 14) on the yoke (6) and/or a reduction in cross-section in such a manner that essentially it may only take up the tensile forces i.e. that it can be swivelled around its securing position on the yoke (6) almost without force.

IPC 1-7  
**H01H 50/28**

IPC 8 full level  
**H01H 50/28** (2006.01)

CPC (source: EP)  
**H01H 50/28** (2013.01)

Cited by  
US4951017A; US5324901A; CN107910227A; AT404765B; EP1469500A1; EP1643522A3; AT389958B; CN101807492A; CN109273325A; WO8804101A1; WO9112623A1; WO9106964A1

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