

Title (en)  
ELECTROMAGNETIC RELAY AND METHOD OF MAKING IT

Publication  
**EP 0144676 B1 19880113 (DE)**

Application  
**EP 84112795 A 19841024**

Priority  
DE 3339082 A 19831028

Abstract (en)  
[origin: US4599593A] A tilting-armature relay having an excitation coil and magnetic core mounted within a housing and supported by a magnet yoke. A tilted armature mounted above the core pivots about a knife-edge bearing and responds to an electromagnetic field. A supporting spring is clamped to the magnet yoke for providing a spring force against the armature and a leaf spring carrying a first of a set of electrical contacts is mounted atop and operates with the armature. The leaf spring is fixedly connected to the supporting spring forming an overlapping connecting piece for connecting the supporting spring to the armature. The supporting spring exerts a pulling force on the leaf spring for providing a restoring force to the armature forcing together the set of electrical contacts and exactly defining a contact pressure therebetween independent of the spring characteristic of the supporting spring.

IPC 1-7  
**H01H 50/26**; **H01H 49/00**

IPC 8 full level  
**H01H 49/00** (2006.01); **H01H 50/24** (2006.01); **H01H 50/26** (2006.01); **H01H 50/60** (2006.01)

CPC (source: EP US)  
**H01H 50/26** (2013.01 - EP US); **H01H 50/60** (2013.01 - EP US)

Cited by  
US4951017A; WO8804101A1

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**EP 0144676 A1 19850619**; **EP 0144676 B1 19880113**; AT E31997 T1 19880115; CA 1234594 A 19880329; DE 3339082 A1 19850509; DE 3468778 D1 19880218; JP S60175334 A 19850909; US 4599593 A 19860708

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**EP 84112795 A 19841024**; AT 84112795 T 19841024; CA 466165 A 19841024; DE 3339082 A 19831028; DE 3468778 T 19841024; JP 22430684 A 19841026; US 66541884 A 19841026