

Title (en)
Electromagnetic relay

Title (de)
Elektromagnetisches Relais

Title (fr)
Relais électromagnétique

Publication
EP 0989575 A3 20010321 (DE)

Application
EP 99116499 A 19990823

Priority
DE 19843617 A 19980923

Abstract (en)
[origin: EP0989575A2] An electromagnetic relay has a contact arrangement and a magnet system that includes a yoke (20) and an armature (30) movably mounted on the yoke, and further includes a leaf-spring (10,50) which lies flat and is fixed with a fixture section (12,14) on a smooth seating or mounting section (23,33) of a rigid carrier formed by the yoke (20) and/or the armature (30). The spring section (13,15,51) has a given amount of play (s1,s2,s3) perpendicularly to the plane of the fixture section. Between the seating or mounting section (23,33,43) and a free end (24,32,41) of the carrier is formed a roll-off zone, wedge-shaped in the idle state, for the leaf-spring (10) and which is formed by a convex curvature of a roll-off section (25,35,55) of the carrier (22,30) and/or of the leaf-spring (50) away from the plane of the seating or mounting section (23,33,43).

IPC 1-7
H01H 50/30

IPC 8 full level
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Citation (search report)

- [DA] EP 0278495 A1 19880817 - SIEMENS AG [DE]
- [A] DE 4035586 A1 19910606 - JIDOSHA DENKI KOGYO KK [JP]
- [A] US 3184564 A 19650518 - RYCKMAN WILLIAM D, et al
- [A] DE 29501303 U1 19950323 - SIEMENS AG [DE]
- [A] DE 29501304 U1 19950323 - SIEMENS AG [DE]

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