

Title (en)

High sensitive relay and method of coating contact surfaces of a highly sensitive relay

Title (de)

Hochempfindliches Relais und Verfahren zum Beschichten von Kontaktoberfläche eines hochempfindliches Relais

Title (fr)

Relais à haute sensibilité et procédé de revêtement de surfaces de contact d'un relais à haute sensibilité

Publication

**EP 0855729 B1 20010328 (FR)**

Application

**EP 98400006 A 19980105**

Priority

FR 9700798 A 19970124

Abstract (en)

[origin: EP0855729A1] The relay has a permanent magnet (7) which provides an attractive force used to hold the armature (6) in place while a fault current through the coil (10) on the U-core acts to oppose the permanent field and allows displacement of the armature under the pull of a spring (8). The arm (5a) of the core acts as a pivot on the contact surface (6a) of the armature or the contact surface and both poles of the core are covered with carbon in the form of diamond. The layer is 0.5-2  $\mu$  m thick and has a structure which is 2/3 diamond. The deposition is achieved by epitaxy chemical vapour deposition.

IPC 1-7

**H01H 50/16**

IPC 8 full level

**H01H 71/32** (2006.01)

CPC (source: EP)

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