

Title (en)
Printed circuit board relay.

Title (de)
Leiterplattenrelais.

Title (fr)
Relais pour plaquette de circuit imprimé.

Publication
EP 0319478 B1 19931027 (DE)

Application
EP 88810810 A 19881125

Priority
CH 465087 A 19871130

Abstract (en)
[origin: EP0319478A2] In a very small hinged-armature relay of the printed-circuit board relay type, with a dual-in-line connector layout, which relay must be designed for a very high number of operations, the problem exists of designing the armature return spring such that it can withstand the number of operations without any risk of fracture. This problem is solved in the case of the present relay such that the leaf spring, which is connected in a positively locking manner to the limbs of the U-shaped armature (13), and which acts as a return spring, runs approximately parallel to the said limbs and is connected in a force-fitting manner to the coil body (10) forming the relay structure, in contrast to the normal fixing on the corresponding limbs of the E-shaped magnetic yoke (12). In this way, the spring can have a length which is at least equal to the length of the limbs of the armature. In order to simplify production and assembly, the leaf springs of the individual limbs are connected via a lateral web to a single-piece, H-shaped spring (14). <IMAGE>

IPC 1-7
H01H 50/28

IPC 8 full level
H01H 50/28 (2006.01); **H01H 1/58** (2006.01)

CPC (source: EP US)
H01H 50/28 (2013.01 - EP US); **H01H 1/5805** (2013.01 - EP US)

Citation (examination)
STR-REPORT, Jg. 5, Nr. 2, November 1084, S. 19-24, Zürich; W. Kälin, "MT-Relais - ein Leiterplattenrelais mit 'dual-in-line'-Anschlussbelegung"

Cited by
DE19715913C1; EP0872865A1; US5894254A

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0319478 A2 19890607; EP 0319478 A3 19900425; EP 0319478 B1 19931027; AT E96575 T1 19931115; CH 674431 A5 19900531; DE 3885246 D1 19931202; US 4914410 A 19900403

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