

Title (en)  
FAULT CURRENT RELAY

Publication  
**EP 0508052 A3 19930811 (DE)**

Application  
**EP 92101784 A 19920204**

Priority  
DE 4111092 A 19910407

Abstract (en)  
[origin: EP0508052A2] A fault current relay, consisting of a magnet system which is arranged in a housing (4) and has a spring-loaded hinged armature (2) whose tripping movement is transmitted to a plunger (3) which is arranged above the armature (2) on the housing (4), the magnet system being formed from a U-shaped yoke (J) on whose pole limb (11') remote from the armature bearing the coil former (1) is seated, with the fault current connection (12). According to the invention, the U-shaped yoke (J) is formed from an L-shaped yoke part (11), whose longer limb forms a pole limb (11'), and of a yoke part (7) which is bent twice into a shape similar to a S, rests with its one end limb (7') underneath the coil former (1) on the pole limb (11') of the L-shaped yoke part (11) with a non-magnetic film (10) placed in between, and, with its second end limb, forms a second pole limb (7''), and such that the permanent magnet (9) of the magnet system is arranged between the shorter limb (11'') of the L-shaped yoke part (11) and the connecting web, which forms the base web (7''') of the U-shaped yoke (J), of both end limbs of the yoke part (7) having approximately the shape of a S. <IMAGE>

IPC 1-7  
**H01H 71/32**; **H01H 50/36**

IPC 8 full level  
**H01H 50/36** (2006.01); **H01H 71/32** (2006.01); **H01H 50/40** (2006.01)

CPC (source: EP)  
**H01H 50/36** (2013.01); **H01H 71/323** (2013.01); **H01H 50/40** (2013.01); **H01H 2050/046** (2013.01)

Citation (search report)  
• [A] DE 2000138 B2 19720323  
• [A] FR 2410353 A1 19790622 - MERLIN GERIN [FR]  
• [A] EP 0337900 A1 19891018 - MERLIN GERIN [FR]  
• [A] DE 2905275 A1 19800821 - FELTEN & GUILLEAUME CARLSWERK

Cited by  
WO2012169975A1; WO2012105913A1; WO2011126460A1; EP0632476A1; ES2107935A1; CN106128868A

Designated contracting state (EPC)  
AT CH DE ES FR IT LI

DOCDB simple family (publication)  
**EP 0508052 A2 19921014**; **EP 0508052 A3 19930811**; **EP 0508052 B1 19960814**; AT E141441 T1 19960815; DE 4111092 A1 19921008; DE 59206886 D1 19960919; ES 2091341 T3 19961101

DOCDB simple family (application)  
**EP 92101784 A 19920204**; AT 92101784 T 19920204; DE 4111092 A 19910407; DE 59206886 T 19920204; ES 92101784 T 19920204