

Title (en)
Residual-current device

Title (de)
Reststromvorrichtung

Title (fr)
Dispositif à courant résiduel

Publication
EP 1014416 A3 20011212 (EN)

Application
EP 99204083 A 19991202

Priority
IT MI982830 A 19981224

Abstract (en)
[origin: EP1014416A2] A residual current device comprising an actuator which is operatively connected to kinematic elements for opening contacts following the detection, by a sensor, of an earth fault current. The actuator comprises a bistable metallic element which is operatively connected to the kinematic elements and to which at least one piezoelectric element is coupled, the piezoelectric element being excited by an electrical signal as a consequence of the detection of the fault current and inducing a movement of the bistable metallic element from a first stable equilibrium position to a second stable equilibrium position. The device further comprises reset elements which are suitable to return the bistable metallic element into the first stable equilibrium position before the contacts close again. <IMAGE>

IPC 1-7
H01H 57/00; H01H 83/02; H01H 71/12

IPC 8 full level
H01H 71/12 (2006.01); **H01H 83/02** (2006.01)

CPC (source: EP)
H01H 71/127 (2013.01); **H01H 83/02** (2013.01)

Citation (search report)
• [Y] DE 3833158 A1 19900412 - SIEMENS AG [DE]
• [Y] US 4383195 A 19830510 - KOLM HENRY H, et al
• [Y] EP 0548731 A2 19930630 - ABB PATENT GMBH [DE]

Cited by
RU2714307C2; CN105571803A; WO2016193412A1

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EP 1014416 A2 20000628; EP 1014416 A3 20011212; EP 1014416 B1 20040414; AT E264544 T1 20040415; CN 1192411 C 20050309;
CN 1258124 A 20000628; DE 69916410 D1 20040519; DE 69916410 T2 20050504; IT 1303666 B1 20010221; IT MI982830 A1 20000624

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