

Title (en)  
An electrical device for protection against residual currents

Title (de)  
Fehlerstromschutzschalter

Title (fr)  
Disjoncteur de protection contre des courants de défaut

Publication  
**EP 1480243 A1 20041124 (EN)**

Application  
**EP 04076453 A 20040518**

Priority  
IT BG20030033 A 20030520

Abstract (en)  
An electrical device for protection against residual currents, which comprises an insulating casing having a rear wall, a front wall, a bottom wall, a top wall, and two side walls. Inside said casing there are: a residual-current sensor, which comprises a toroidal core, a primary winding and a secondary winding; and a tripping relay, having a containment box, from a wall of which there protrude a first pin and a second pin designed to enable operative connection of the relay with the current sensor via circuit-connection means positioned between them. Said connection means comprise a first substantially rigid body, on which there are defined two distinct electrically conductive paths; the first conductive path has a first end connected to the secondary winding and a second free end designed to be connected operatively to said first pin, and the second path has a third end connected to the secondary winding and a fourth free end designed to be connected to said second pin, said first and second pins and said second and fourth free ends being located in a spatial position that is pre-defined with respect to one of said walls of the casing. <IMAGE>

IPC 1-7  
**H01H 71/08**

IPC 8 full level  
**H01H 71/08** (2006.01); **H01H 83/14** (2006.01); **H01H 71/02** (2006.01)

CPC (source: EP)  
**H01H 71/08** (2013.01); **H01H 83/144** (2013.01); **H01H 71/0228** (2013.01)

Citation (search report)  
• [A] WO 0145128 A1 20010621 - ABB RICERCA SPA [IT], et al  
• [A] EP 0002225 A1 19790613 - GATH NICOLAS  
• [A] EP 0649158 A1 19950419 - MERLIN GERIN [FR]  
• [A] US 6319051 B1 20011120 - CHANG CHIH-KAI [TW], et al  
• [A] AT 393573 B 19911111 - BIEGELMEIER GOTTFRIED [AT]

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