

Title (en)  
ADAPTER WITH GROUND FAULT INTERRUPTER

Publication  
**EP 0058589 B1 19841219 (FR)**

Application  
**EP 82400152 A 19820128**

Priority  
FR 8103344 A 19810218

Abstract (en)  
[origin: EP0058589A1] 1. Adaptor with a tapping comprising a moulded housing (10, 12) in form of a parallelepiped block with a front face (14) presenting openings (24) of a female plug, and with a rear face presenting aligned with said openings (24) pins (18) of a male plug which may be plugged in a flange-wall-tapping, said housing comprising : - a power circuit (58, 62) connecting electrically said female plug with said male plug, - a transformer (54) of detection of a differential current with primary windings constituted by said power circuit (58, 62) and with a secondary winding producing a tripping signal on appearance of a differential fault, - electrical contacts (44, 46) inserted in said power circuit in order to interrupt the last in the open position of the contacts, - a control mechanism (40) of said electrical contacts with a tripping device in order to open electrically said contacts, - a control relay (38) of said tripping device operated by said tripping signal and connected with said control mechanism (40), characterized by the fact that the upper part of said housing (10, 12) is substantially filled with the constituting elements of said female and male plugs, the lower part being subdivided by walls into three parts : - a front part (30) adjacent to the front face (14) of the housing and receiving the electromechanical part constituted by the control mechanism (40) and by the relay (38), - a middle part (32) comprising a switch block constituted by said electrical contacts (44, 46), - and a rear part (34) adjacent to the rear face (10) of the housing comprising an electronic card (36) parallel to the rear face and supporting said detection transformer (54) and an electronic treatment device of said tripping signal, the separation wall (43) of the front part (30) and of the middle part (32) being crossed by a mechanical link (42) of transmission of the control movement of said contacts, and the separation wall (50) of the middle part (32) and the rear part (34) being crossed by an electrical link of the power circuit (58, 62) connecting said switch block and said electronic card.

IPC 1-7  
**H01H 83/02; H01R 13/713**

IPC 8 full level  
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CPC (source: EP)  
**H01H 83/02** (2013.01); **H01R 13/7135** (2013.01)

Cited by  
ES2147706A1; CN1092409C; EP0468830A3; EP0099786A1; FR2530073A1; EP0264314A1; FR2604294A1; EP0641044A1; AU589715B2

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