

Title (en)  
Leaktight electrical plug for electrical ducting

Title (de)  
Wasserdichter elektrischer Steckkontakt für Kabelkanal

Title (fr)  
Connecteur électrique mâle étanche pour canalisation électrique

Publication  
**EP 1947745 A1 20080723 (EN)**

Application  
**EP 07425026 A 20070119**

Priority  
EP 07425026 A 20070119

Abstract (en)  
Leaktight plug for electrical connection to suspended electrical ducting in which an enclosure (1) forms a housing channel (12) open at the bottom, on at least one side of which there is located a plurality of conductors (4, 5, 6, 7, 8, 9) housed in slots (10) hermetically sealed by a sheet of perforable insulating material (11), the plug comprising a supporting structure (16) which is inserted with a snap connection wholly within the channel (12) and a leaktight plug body (17) housed in the supporting structure (16) and hinged thereto to adopt a retracted position which will allow the supporting structure to be inserted within the channel (12) and an electrically connected position in which once the supporting structure (16) has been inserted in the channel (12) electrical contacts (19, 20) projecting from the plug body (17) in a window (21) surrounded by a resilient frame (22) perforate the insulating sheet (11) and establish electrical contact with at least one pair of conductors (4-9), movement of the plug body (17) relative to the supporting structure (16) being brought about through the action of removable means (57) which, when inserted in a wedge-shaped housing (27) in the supporting structure, using the vertex of the wedge-shaped housing as a fulcrum and engaging a sleeve (54) of one piece with the plug body (17), act as a force amplifying lever to rotate the plug body from one position to the other.

IPC 8 full level  
**H01R 25/14** (2006.01); **H01H 85/20** (2006.01); **H02G 5/04** (2006.01)

CPC (source: EP)  
**H01R 25/142** (2013.01); **H01R 13/5219** (2013.01); **H01R 13/68** (2013.01)

Citation (applicant)  
• EP 1750341 A1 20070207 - BTICINO SPA [IT]  
• EP 0015365 A1 19800917 - BAYER AG [DE]

Citation (search report)  
[DA] EP 0015356 A1 19800917 - ZUCCHINI SPA FLLI [IT]

Cited by  
CN107017508A; AT18159U1; CN108258633A; CN111801853A; GB2590527A; GB2590527B; WO2020164641A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1947745 A1 20080723**

DOCDB simple family (application)  
**EP 07425026 A 20070119**