

Title (en)  
SCREWLESS PLUG-IN CONNECTION

Title (de)  
SCHRAUBENLOSE STECKVERBINDUNG

Title (fr)  
RACCORD MALE FEMELLE SANS VIS

Publication  
**EP 1072067 A1 20010131 (DE)**

Application  
**EP 99924811 A 19990413**

Priority  
• DE 19816418 A 19980414  
• EP 9902481 W 19990413

Abstract (en)  
[origin: WO9953572A1] The invention relates to a plug-in connector which can be connected to a line or a cable (40), said cable (40) having a terminal with freely moveable conductors (43) and free strand ends (41). A first, essentially tubular housing part (1) consisting of insulating plastic encompasses an inner, essentially cylindrical contact carrier (4). A second essentially tubular housing part (2) consisting of insulating plastic can be connected to the first housing part (1) and surrounds the terminal with the freely moveable conductors (43) and a strain relief device (50). Contact elements (5) have clamping devices (7, 8) for the strand ends (41) and are retained by a retaining plate (15). Said retaining plate (15) has a rim of sloping surfaces (52). The strain relief device (50) comprises a cage-type clamping chuck (51) on which sloping surfaces are mounted for interacting with the sloping surfaces (52) of the retaining plate (15) in order to compress a series of clamping arms (56) which have teeth or claws (58) at their radially innermost point, and to clamp the terminal of the cable (40) so that it is tight.

IPC 1-7  
**H01R 13/58**

IPC 8 full level  
**H01R 4/48** (2006.01); **H01R 13/52** (2006.01); **H01R 13/58** (2006.01); **H01R 24/38** (2011.01)

CPC (source: EP)  
**H01R 4/48455** (2023.08); **H01R 13/5205** (2013.01); **H01R 13/5804** (2013.01); **H01R 2107/00** (2013.01)

Cited by  
DE102007009082A1; DE102007009082B4; DE102007009082C5; DE202007018483U1; EP2442403A1; DE102015117387A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)  
**WO 9953572 A1 19991021**; AT E230168 T1 20030115; AU 4134999 A 19991101; BR 9909694 A 20001226; CN 1116717 C 20030730; CN 1297596 A 20010530; DK 1072067 T3 20030113; EP 1072067 A1 20010131; EP 1072067 B1 20021218; ES 2185347 T3 20030416; TR 200002990 T2 20010122; TR 200102068 T2 20011022; ZA 200005587 B 20010516

DOCDB simple family (application)  
**EP 9902481 W 19990413**; AT 99924811 T 19990413; AU 4134999 A 19990413; BR 9909694 A 19990413; CN 99805055 A 19990413; DK 99924811 T 19990413; EP 99924811 A 19990413; ES 99924811 T 19990413; TR 200002990 T 19990413; TR 200102068 T 19990413; ZA 200005587 A 20001011