

Title (en)
PLUG-IN CONNECTOR WITH A BUSHING

Title (de)
STECKER MIT EINER HÜLSE

Title (fr)
CONNECTEUR COMPORTANT UNE DOUILLE

Publication
EP 1275173 A1 20030115 (DE)

Application
EP 01936092 A 20010317

Priority
• DE 20007001 U 20000415
• EP 0103073 W 20010317

Abstract (en)
[origin: US2004038596A1] A plug-in connector has an insulating body which holds electrical contacts, for example contact pins or contact tubes, in bores which extend in the axial direction. On its outside, the insulating body has a groove which opens outwardly and which intersects the holes or bores for the contacts over part of their radial extension. A retaining ring fits into the groove and in the working position, simultaneously engages in groove-like recesses provided on the contacts, thereby fixing the contacts in an axial direction. The retaining ring can also support at least one retaining tongue protruding preferably radially inwardly in the plane of the retaining ring. The retaining tongue extends into the area of a further bore for a middle contact through a channel or opening in the insulating body and in the working position, engages in the recess thereof so that this middle contact is also axially fixed.

IPC 1-7
H01R 13/436; **H01R 13/426**

IPC 8 full level
H01R 13/426 (2006.01); **H01R 13/436** (2006.01); **H01R 13/648** (2006.01)

CPC (source: EP US)
H01R 13/426 (2013.01 - EP US); **H01R 13/648** (2013.01 - EP US)

Citation (search report)
See references of WO 0180372A1

Cited by
EA012133B1; DE102004003384B4; DE102015209450B4; DE102015209450A1; US7537466B2; WO2007019918A1; US11450989B2; US11705672B2

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

DOCDB simple family (publication)
US 2004038596 A1 20040226; **US 6780068 B2 20040824**; AT E252280 T1 20031115; AU 6210301 A 20011030; BR 0110070 A 20021231; BR PI0110070 B1 20160531; CN 1249859 C 20060405; CN 1423849 A 20030611; DE 20007001 U1 20000727; DE 50100805 D1 20031120; EA 003808 B1 20031030; EA 200201102 A1 20030424; EP 1275173 A1 20030115; EP 1275173 B1 20031015; ES 2208601 T3 20040616; WO 0180372 A1 20011025

DOCDB simple family (application)
US 25769602 A 20021126; AT 01936092 T 20010317; AU 6210301 A 20010317; BR 0110070 A 20010317; CN 01808096 A 20010317; DE 20007001 U 20000415; DE 50100805 T 20010317; EA 200201102 A 20010317; EP 0103073 W 20010317; EP 01936092 A 20010317; ES 01936092 T 20010317