

Title (en)
Functional plug connector.

Title (de)
Funktionssteckverbinder.

Title (fr)
Connecteur à fiches de fonction.

Publication
EP 0038431 A2 19811028 (DE)

Application
EP 81102291 A 19810326

Priority
DE 3015139 A 19800419

Abstract (en)
1. An operational plug-in connector in which, contact tongues (18) provided on the outer side of a plug base (2a) insertable into a bushing (1) cooperate in each case with spring contacts (7) disposed in insulated manner e.g. pairwise on two opposite inside faces of the bushing (1) which contacts, in their upper area of the bushing (1) facing the plug (2), are constructed resiliently and in the manner of a bulge to contact with the plug contact tongues (18) and subsequently, on the area (8) constructed resiliently as a bulge, are provided with semi-circular contact camber (13) bent out further in the direction of the middle of the bushing housing, said chambers being forcibly opened in the plug-in condition, the length of the plug base (2a) being calculated in such a manner that its contact tongues (18) when the plug (2) is inserted end just before the contact chambers (13), characterised in that the spring contacts (7) oppositely placed in each instance are held in chambers of the bushing housing (3) delimited by stays (16) which correspond to their width, in that the contact chambers (13) extend into transversal elements (10a) directed substantially parallel with the bottom of the bushing and into connecting bends (10) pointing in the direction of the soldering lugs (9) which bends effect a resilient supporting on the vertical arms of the spring contacts (7) for the purpose of increasing the counter-pressure for the plug contacting in the area (8) constructed resiliently as a bulge, and in that an abutment for these bends (10) is formed by the side walls of a gap (14) which is disposed in the area of the bushing housing (3) facing away from the plug between said housing and the bushing holder (4).

Abstract (de)
Es wird ein Steckverbinder für elektrische Anschlüsse beschrieben, der aus einem Sockelteil mit auf gegenüberliegenden Seiten angeordneten Federkontakten und aus einem in diesen einfühbaren Stecker besteht, der korrespondierend zu den Federkontakten Kontaktzungen auf seiner Außenseite aufweist. Die Federkontakte besitzen dabei ausgehend von einem dem Stecker zugewandten Bereich eine bauchig ausgebildete Kontaktzone und zum Sockelunterteil hin halbkreisförmige Kontaktausformungen. Beim Einführen eines Steckers werden die Federkontakte auseinandergedrückt. Anschließend an die halbkreisförmigen Kontaktausformungen sind Querteile an den Federkontakten vorgesehen, die sich beim Einführen des Steckers am Sockel abstützen und so eine federnde Abstützung zur Gegendruckerhöhung und zur besseren Steckkontaktierung im Bereich der Kontaktzone bewirken.

IPC 1-7
H01R 13/703

IPC 8 full level
H01R 13/703 (2006.01); **H01R 13/627** (2006.01)

CPC (source: EP)
H01R 13/703 (2013.01); **H01R 13/7034** (2013.01); **H01R 13/627** (2013.01)

Cited by
DE4207461C1; FR2609573A1; CN112436312A; AU713948B2; FR2683681A1; EP0204675A3; EP0630079A1; FR2706682A1; DE3918864A1; DE3706221A1; DE3706221C2; EP0668639A1; US5634823A; GB2270425A; US5340338A; GB2270425B; EP0407036A3; WO2006013117A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)
EP 0038431 A2 19811028; **EP 0038431 A3 19811216**; **EP 0038431 B1 19841219**; AT E10887 T1 19850115; DE 3015139 A1 19811022; DE 3167782 D1 19850131

DOCDB simple family (application)
EP 81102291 A 19810326; AT 81102291 T 19810326; DE 3015139 A 19800419; DE 3167782 T 19810326