

Title (en)
Electrical female terminal

Title (de)
Elektrische Kontaktbuchse

Title (fr)
Contact électrique femelle

Publication
EP 0986140 A3 20001227 (EN)

Application
EP 99202556 A 19990804

Priority
DE 19841239 A 19980909

Abstract (en)
[origin: EP0986140A2] An electrical female terminal (10), for mating with an electrical terminal pin, comprising a socket member (12) and a sleeve (14) substantially surrounding the socket member; wherein the socket member is substantially tubular with a longitudinal axis (A) and comprises first and second pairs of spring arms (22,24) which extend in the longitudinal direction to define walls of a bore (20) for receiving the terminal pin; an annular member (26) at one end of the bore connected with the spring arms; a first arcuate member (28) at the other end of the bore connected to the first pair of spring arms; and a second arcuate member (30) at the other end of bore connected to the second pair of spring arms; the first and second arcuate members defining an opening (32) which is substantially circular through which the terminal pin can pass; first spring arms (34,38) of the first and second pairs of spring arms being bent inwardly to define opposed contact edges (36,40); second spring arms (42,46) of the first and second pair of spring arms being bent inwardly to define opposed contact edges (44,48); the contact edges of the first spring arms lying in a first plane (P1) substantially perpendicular to the longitudinal axis; the contact edges of the second spring arms lying in a second plane (P2) substantially perpendicular to the longitudinal axis and axially spaced from the first plane; and wherein the sleeve engages the annular member at one end (50) and has a predetermined minimum clearance (X) with the arcuate members at the other end (52). Reduces the force required to insert the terminal pin. <IMAGE>

IPC 1-7
H01R 13/11; **H01R 13/115**; **H01R 13/193**; **H01R 13/18**

IPC 8 full level
H01R 13/11 (2006.01); **H01R 13/115** (2006.01); **H01R 13/18** (2006.01); **H01R 13/193** (2006.01)

CPC (source: EP)
H01R 13/18 (2013.01); **H01R 13/111** (2013.01)

Citation (search report)

- [Y] WO 8905531 A1 19890615 - AMP INC [US]
- [Y] US 3317887 A 19670502 - ERNST HENSCHEN HOMER, et al
- [Y] US 4722704 A 19880202 - VANDERSTUYF ALLEN F [US], et al
- [Y] EP 0255245 A1 19880203 - AMP INC [US]
- [Y] DE 19731245 A1 19980129 - WHITAKER CORP [US]

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

DOCDB simple family (publication)
EP 0986140 A2 20000315; **EP 0986140 A3 20001227**; **EP 0986140 B1 20030312**; DE 19841239 A1 20000316; DE 69905826 D1 20030417; DE 69905826 T2 20031009

DOCDB simple family (application)
EP 99202556 A 19990804; DE 19841239 A 19980909; DE 69905826 T 19990804