

Title (en)
Improvements in and relating to multi-row electrical connectors and methods of making same.

Title (de)
Vielreihige elektrische Steckverbinder und Verfahren zur Herstellung derselben.

Title (fr)
Connecteurs électriques à plusieurs rangées et procédé pour fabriquer ceux-ci.

Publication
EP 0191977 A1 19860827 (EN)

Application
EP 85308215 A 19851112

Priority
US 69850485 A 19850204

Abstract (en)
A multi-row electrical connector (10) which mates with an array of pins (12a) includes a housing (26) having top and bottom rows of elongated terminal receiving cavities (28,30). Each cavity has a pin receiving opening (50) in the forward end thereof, said pin receiving openings being in the same configuration as the pin array (12a). A plurality of terminals (32) are mounted in the cavities (28,30) with each terminal having a pin engaging portion (34) at the forward end and a wire engaging portion (36) at the rearward end. The wire engaging portion (36) of each terminal includes insulation displacement slots (38). The cavities (28) of the top row are staggered with respect to the cavities (30) of the bottom row and the adjacent top row cavities (28) are spaced apart from one another. Slots (54) are formed in the tops of the cavities (28,30) to expose the wire engaging portions (36) of the terminals (32). The wire engaging portions (36) of the terminals (32) received in the bottom row cavities (30) are accessible between adjacent top row cavities (28) so that all the terminals of both rows can be mass terminated from the top of the connector. The housing (26) is made up of a plurality of modules, each module including at least one top row cavity (28) and at least one bottom row cavity (30). The modules are connected together by means of selectively removable module connecting members (72,74). A desired number of modules is selected from a modular housing structure to form the housing (26).

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H01R 4/24; **H01R 23/72**

IPC 8 full level
H01R 4/24 (2006.01); **H01R 13/514** (2006.01)

CPC (source: EP)
H01R 4/2445 (2013.01); **H01R 12/53** (2013.01); **H01R 12/7029** (2013.01)

Citation (search report)
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• [Y] EP 0095271 A1 19831130 - AMP INC [US]
• [A] FR 2498017 A1 19820716 - SOURIAU CIE SA [FR]
• [A] EP 0104874 A2 19840404 - MOLEX INC [US]
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• [AD] US 4243288 A 19810106 - LUCIUS JOHN E, et al

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GB23333907A; GB23333907B; WO9815988A1

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EP 0191977 A1 19860827; **EP 0191977 B1 19890802**; CA 1253228 A 19890425; DE 3572091 D1 19890907; JP H0449226 B2 19920810; JP S61181079 A 19860813

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EP 85308215 A 19851112; CA 499210 A 19860108; DE 3572091 T 19851112; JP 21200885 A 19850925