

Title (en)  
Electrical connector having reduced width

Title (de)  
Elektrischer Verbinder mit geringer Breite

Title (fr)  
Connecteur électrique de largeur réduite

Publication  
**EP 1049218 A3 20020116 (EN)**

Application  
**EP 00109222 A 20000428**

Priority  
JP 12307999 A 19990428

Abstract (en)  
[origin: EP1049218A2] An electrical connector having an conductive terminals with solder tabs arranged in an insulative in a manner to enable miniaturization without risking defective soldering during manufacture. The connector includes an insulative housing having a terminating portion for supporting the solder tabs, the terminating portion having first and second sides. The housing includes recessed trenches within which the solder tabs respectively reside. In an embodiment, some of the solder tabs are located at the first side of the terminating portion, and the remainder of the solder tabs are located at the second side of the terminating portion in an alternating, staggered height manner. The staggered arrangement provides a suitable distance between adjacent terminal solder tabs on the same side of the terminating portion, thereby preventing soldering errors. Also, in an embodiment, the solder tab portions are disposed at acute angles, supported by the housing within V-shaped trenches. Such an embodiment further enhances soldering joint integrity by permitting contact of a soldering tool directly against both the slant-mounted soldering tab and the wire to be soldered thereto. <IMAGE>

IPC 1-7  
**H01R 24/04**

IPC 8 full level  
**H01R 24/00** (2006.01); **H01R 4/02** (2006.01)

CPC (source: EP KR)  
**H01R 4/023** (2013.01 - EP); **H01R 9/00** (2013.01 - KR); **H01R 24/62** (2013.01 - EP)

Citation (search report)  
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• [A] US 5779489 A 19980714 - DAVIS WAYNE SAMUEL [US], et al  
• [A] US 5791942 A 19980811 - PATEL ANILA [US]  
• [A] EP 0674364 A1 19950927 - MOLEX INC [US]  
• [A] US 5580270 A 19961203 - PANTLAND ROBERT M [GB], et al

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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 1049218 A2 20001102**; **EP 1049218 A3 20020116**; CN 1218440 C 20050907; CN 1284767 A 20010221; JP 2000323240 A 20001124; JP 3287810 B2 20020604; KR 20000077106 A 20001226; KR 200314796 Y1 20030527; TW 452243 U 20010821

DOCDB simple family (application)  
**EP 00109222 A 20000428**; CN 00121724 A 20000427; JP 12307999 A 19990428; KR 20000022682 A 20000428; KR 20030002495 U 20030127; TW 89206937 U 20000719