

Title (en)
ELECTRICAL CONNECTOR ASSEMBLY

Title (de)
ELEKTRISCHE STECKVERBINDERANORDNUNG

Title (fr)
ENSEMBLE DE CONNECTEUR ÉLECTRIQUE

Publication
EP 3128619 A1 20170208 (EN)

Application
EP 16182402 A 20160802

Priority
CN 201520577118 U 20150804

Abstract (en)
In an electrical connector assembly, an electrical contacting portion, a transition portion and a fixing portion of each of the first power terminal and the second power terminal are identical to those of each of the first signal terminal and the second signal terminal in size and shape, respectively. The fixing portion of the first power terminal is inserted into an insulation body of the male connector by a first depth, the fixing portion of the first signal terminal is inserted into the insulation body of the male connector (100) by a second depth, and the first depth is greater than the second depth. The fixing portion of the second power terminal is inserted into an insulation body of the female connector (200) by a third depth, the fixing portion of the second signal terminal is inserted into the insulation body of the female connector by a fourth depth, and the third depth is greater than the fourth depth. Therefore, during assembling, the power terminals contact with each other before the signal terminals contact with each other, because the power terminals are inserted into the insulation bodies more deeply than the signal terminals. In this way, the male connector and the female connector may achieve a hot plug-in function.

IPC 8 full level
H01R 12/73 (2011.01); **H01R 13/28** (2006.01)

CPC (source: EP)
H01R 12/73 (2013.01); **H01R 13/28** (2013.01)

Citation (search report)
• [Y] US 5591035 A 19970107 - BURKHOLDER SHAWN W [US], et al
• [Y] US 4084875 A 19780418 - YAMAMOTO STEPHEN K
• [A] CN 204464554 U 20150708 - TYCO ELECTRONICS SHANGHAI CO LTD
• [A] EP 1863136 A2 20071205 - TYCO ELECTRONICS CORP [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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