

Title (en)
Connection system for realising of branchings to continuous conductors

Title (de)
Anschluss-System zur Realisierung von Abzweigungen an durchgehenden Leitern

Title (fr)
Système de connexion pour réalisation des branchements des conducteurs continus

Publication
EP 1764870 B1 20141203 (DE)

Application
EP 06120274 A 20060907

Priority
DE 202005014718 U 20050917

Abstract (en)
[origin: EP1764870A1] An electrical connector arrangement comprises base (2) having horizontal upper surface containing longitudinally extending conductor seats (20); hollow support frame (3) mounted on the base upper surface and surrounding a space above the conductor seats; terminal blocks (4) mounted for vertical movement within the frame above and parallel with the conductor seats, respectively; and displacement mechanism for displacing the terminal blocks. The electrical connector arrangement comprises (a) base having horizontal upper surface containing longitudinally extending conductor seats for supporting the insulated input conductors, respectively; (b) hollow support frame mounted on the base upper surface and surrounding a space above the conductor seats, the frame having spaced pairs of side and end walls; (c) terminal blocks mounted for vertical movement within the frame above and parallel with the conductor seats, respectively, each of the terminal blocks including (i) hollow housing (7), (ii) output terminal mounted in the housing adjacent an access opening contained in the housing, and (iii) insulation-piercing contact (8) connected with the output terminal and extending downwardly from the housing; and (d) displacement mechanism for displacing the terminal blocks between elevated disengaged positions spaced above the conductor seats, and lowered engaged positions in which the insulation piercing contacts are arranged to pierce the insulation layers and electrically engage the conductors supported by the associated seats, respectively. The frame is formed from an electrical insulating material and contains longitudinal chambers extending parallel with and above the conductor seats. The electrical connector arrangement further includes vertical guide rib and guide for guiding the terminal blocks for vertical movement relative to the frame; and fastener for fastening the frame to the base. The fastener comprises spaced stud and snap fastener. The frame includes pivot lug and operating tab. The terminal block displacement mechanism comprises support shaft, and axially spaced eccentric operating disks. The electrical connector arrangement further includes a releasable catch mechanism having spring-biased button. Each operating disk includes a pair of centrally arranged guide pegs.

IPC 8 full level
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CPC (source: EP US)
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Citation (examination)
DE 10163809 A1 20030710 - WIELAND ELECTRIC GMBH [DE]

Cited by
DE202008015310U1; EP4297190A1; DE102013017309A1; EP3021421A1; DE202010008934U1; WO2010057749A1; DE202008015307U1; US8298019B2; EP3342006B1

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