Title (en)

APPARATUS AND METHOD FOR ASSEMBLING TERMINATED WIRES INTO ELECTRICAL CONNECTORS TO FORM HARNESSES

Publication

EP 0168141 B1 19891025 (EN)

Application

EP 85303462 A 19850517

Priority

GB 8412827 A 19840518

Abstract (en)

[origin: EP0168141A2] Insulated conductor wire (11) is fed in predetermined lengths in a "Y" direction to a cutter (42) adjacent a termination station defined by a connector nest (21) mounted on an "X' axis displaceable table (25) in turn supported on a "Y" axis displaceable table (26). A wire insertion blade (33) movable in a "Z" direction to alternate depths of insertion, terminates each cut wire end in an insulation displacement terminal in a connector (24) positioned in the nest (21) with the terminal receiving slot (31) at the termination station. The terminals are arranged in spaced relation along two tiered rows (30, 37) of terminal slots (31) with adjacent slots (31) in each row interspaced by a slot (31) in the other row, whereby each terminal has a unique location in the "X" direction. Following the insertion of a wire in the first terminal slot (31) in the upper row (3), the "X" table is stepped one terminal slot (31) and the "Y" table is stepped one terminal slot (31) and the "Y" table is shifted to align the next adjacent slot (31) in the lower row (37) at the insertion station, and so on, the "X" table being shifted stepwise in a forward direction only, to carry terminated wires clear of the insertion station, and the "Y" table being shifted to-and-fro successively to align the upper and lower tiers (30, 37) of terminal slots (31) at the insertion station.

IPC 1-7

H01R 43/28

IPC 8 full level

H01R 43/01 (2006.01); H01R 43/28 (2006.01)

CPC (source: EP)

H01R 43/01 (2013.01); H01R 43/28 (2013.01)

Cited by

US11239622B2; EP0241939A1; EP0833417A3; EP0635915A3; DE3821432A1; DE3821432B4; EP0862251A1; US5970609A; CN1080012C; EP0844703A1; US6170152B1

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