

Title (en)

Electrical harness assembly apparatus.

Title (de)

Vorrichtung zum Herstellen eines elektrischen Kabelbaumes.

Title (fr)

Appareil pour l'assemblage de faisceaux de câbles électriques.

Publication

EP 0412732 A1 19910213 (EN)

Application

EP 90308559 A 19900803

Priority

US 39280889 A 19890810

Abstract (en)

Apparatus for manufacturing wire harness assemblies is provided. Each wire harness includes a shielded cable having a plurality of insulated conductors therein, with each conductor being terminated at its respective opposed ends and with the terminated ends being mounted in connector housings. The apparatus includes a plurality of pallets (36) that are movable along a conveyor to work stations (76,77,78) at which various assembly steps are carried out. A first station (76) is provided for mounting the cables to the pallet, such that the wires at the opposed ends are mounted in fixtures. A second station (77) may selectively deposit drop wires into fixtures on the pallets. A third station (80) trims and strips the ends of the wires and aligns the drop wires with the cable wires. A fourth station (92) sequentially crimps terminals to the ends of the wires, with the pallet being indexable between successive crimps. The crimp apparatus adjusts to the required crimp height depending on the presence or absence of drop wires and the presence or absence of grounding clips. A fourth station tests (126) for the presence of the terminals and inserts the terminated wires into housings.

IPC 1-7

H01R 43/052; **H01R 43/28**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] EP 0181780 A2 19860521 - WESTINGHOUSE ELECTRIC CORP [US]
- [A] FR 2378381 A1 19780818 - AMP INC [US]
- [A] EP 0281244 A2 19880907 - MOLEX INC [US]
- [AD] EP 0139368 A1 19850502 - CKD CORP [JP], et al

Cited by

EP0706242A4; CN117293619A

Designated contracting state (EPC)

DE FR GB

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