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Di Giulio et al.

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[54] UNIVERSAL ELECTRICAL BUS CONNECTOR

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[58] Field of Search 439/389-425

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is multi-functional in serving to connect a power and communications bus passing through the connector to a printed circuit board module to permit tapping into selected wires of the bus for utilization in the module, to connect separate power and communications buses together at any location to extend the bus within a machine harness, and to connect separate power and communications buses together at a printed circuit board module both to extend the bus and permit tapping into selected wires of the extended bus for utilization in the module. The connector includes essentially a housing having a plurality of electrical contact devices which connect between individual wires of a bus and contact areas formed on the surface of the printed circuit board module. A cover is fitted over the housing which has the effects both of tightly enclosing the wires of the bus within channels formed in the upper wall of the housing the the lower wall of the cover and causing insulation to be stripped from the wires so as to make electrical contact with the contact devices in the cover. For extending buses, two housing and cover assemblies are utilized, one for each bus, with the housings being joined in face to face relationship and with the electrical contact devices of each housing in contact with each other.

[57] ABSTRACT

A universal electrical bus connector is disclosed which

24 Claims, 12 Drawing Sheets

