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(54) Title: MODULAR INTEGRATED WIRE HARNESS FOR MANPORTABLE APPLICATIONS

(57) Abstract

The wiring harness assembly of the present invention is an electrical and structural network which serves as a distribution system for the command/control signals and power of a comprehensive warfare system. The warfare system, which is worn by an individual soldier, contains multiple subsystems. The wiring harness assembly includes four distinct segments which allow each subsystem to communicate with a central microprocessor and with each other. The wiring harness assembly includes the Torso Segment which is partially embedded within the frame of an equipment carrier borne by the individual soldier. The embedded portion of the wiring harness assembly is protected from any harsh environment that may be encountered by the soldier. Other segments include the Integrated Helmet Assembly Subsystem Segment, the Weapon Subsystem Segment, and the Sensor Subsystem Segment which provide the electrical network for a variety of equipment options available to the soldier.

