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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

David J. Kappas

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(12) **United States Patent**
Freakes

(10) **Patent No.:** **US 7,753,715 B2**
(45) **Date of Patent:** **Jul. 13, 2010**

(54) **ELECTRICAL CONNECTOR DEVICES AND METHODS FOR EMPLOYING SAME**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 52 days.

(21) Appl. No.: **11/619,811**
(22) Filed: **Jan. 4, 2007**

(65) **Prior Publication Data**
US 2007/0155219 A1 Jul. 5, 2007

Related U.S. Application Data
(60) Provisional application No. 60/756,264, filed on Jan. 4, 2006, provisional application No. 60/785,628, filed on Mar. 24, 2006, provisional application No. 60/792,446, filed on Apr. 17, 2006, provisional application No. 60/799,226, filed on May 10, 2006, provisional application No. 60/813,643, filed on Jun. 14, 2006, provisional application No. 60/836,159, filed on Aug. 8, 2006, provisional application No. 60/865,477, filed on Nov. 13, 2006.

(51) **Int. Cl.**
H01R 4/24 (2006.01)
(52) **U.S. Cl.** **439/395**
(58) **Field of Classification Search** 439/393, 439/399, 395, 422, 405, 417, 494; 310/236, 310/71

See application file for complete search history.

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(57) **ABSTRACT**

An apparatus and method are disclosed that may include a contact pin; and a plurality of loops of conductive wire, coated with insulation material, disposed in proximity to the contact pin, wherein along at least one portion of the conductive wire, at least one edge of the contact pin extends through the insulation material and thereby forms conductive electrical contact with the conductive wire.

34 Claims, 36 Drawing Sheets

