

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 September 2007 (20.09.2007)

PCT

(10) International Publication Number
WO 2007/106409 A1

(51) International Patent Classification:
H01R 24/04 (2006.01)

(21) International Application Number:
PCT/US2007/006123

(22) International Filing Date: 9 March 2007 (09.03.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/372,957 10 March 2006 (10.03.2006) US

(71) Applicant (for all designated States except US): **TYCO ELECTRONICS CORPORATION** [US/US]; 2901 Fulling Mill Road, Middletown, PA 17057 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BERT, Linda, Ellen** [US/US]; 49 Circle Drive, #1, Camp Hill, PA 17011 (US). **PEPE, Paul, John** [US/US]; 1812 Kilrush Road, Clemmons, NC 27012 (US).

(74) Agents: **VACCARELLI, Lisa, Burgin et al.**; Tyco Technology Resources, 4550 New Linden Hill Road, Suite 140, Wilmington, DE 19808 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

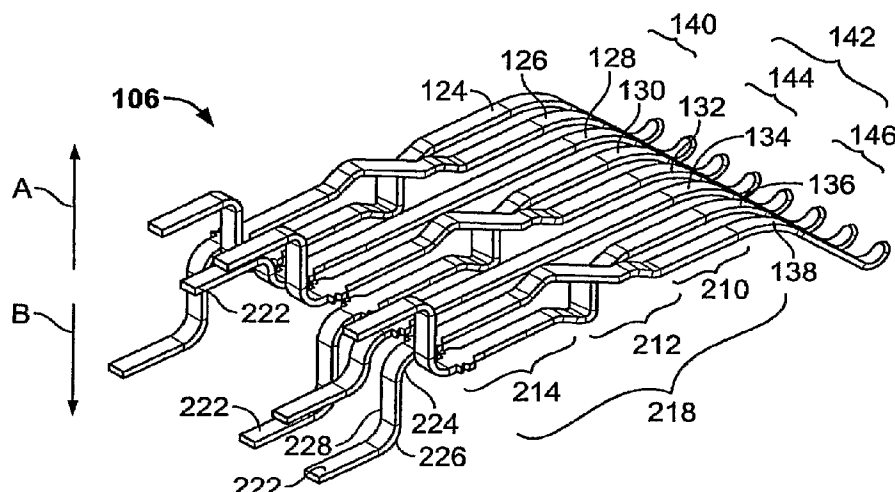
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RECEPTACLE WITH CROSSTALK OPTIMIZING CONTACT ARRAY



(57) Abstract: A receptacle assembly comprises a housing (108) having front (102) and rear (104) ends. The front end receives a plug and the rear end accepts wire termination contacts (113). A circuit board (148) has a plurality of contact holes (188, 190) and is held within the housing. A plurality of array contacts (124, 126, 128, 130, 132, 134, 136, 138) is arranged in a contact array (106) within the housing. Each of the plurality of array contacts comprises a main section (218) and a tail section (216). The main section runs generally perpendicular to the circuit board. The tail section has a first bend forming a first tail sub-section (228) extending parallel to the circuit board and a second bend forming a second tail sub-section (222) extending perpendicular to the circuit board. The second tail sub-section of each of the plurality of array contacts is received by one of the plurality of contact holes in the circuit board.

WO 2007/106409 A1