

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 October 2006 (05.10.2006)

PCT

(10) International Publication Number
WO 2006/105535 A1

(51) International Patent Classification:
H01R 13/514 (2006.01)

(21) International Application Number:
PCT/US2006/012659

(22) International Filing Date: 31 March 2006 (31.03.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/666,971 31 March 2005 (31.03.2005) US

(71) Applicant (for all designated States except US): **MOLEX INCORPORATED** [US/US]; 2222 Welling Court, Lisle, Illinois 60532 (US).

(72) Inventors: **LAURX, John, C.**; 1346 Garfield Avenue, Aurora, Illinois 60506 (US). **BIXLER, Craig, A.**; 248 Grace Avenue, Elmhurst, IL 60126 (US). **REGNIER, Kent, E.**; 541 South Grace Street, Lombard, IL 60148 (US). **DUNHAM, David, E.**; 2010 Prairie Street, Aurora, IL 60506 (US). **O'MALLEY, Brian, P.**; 1263 Arapaho Court, Naperville, IL 60540 (US).

(74) Agent: **PAULIUS, Thomas**; Molex Incorporated, 2222 Wellington Court, Lisle, Illinois 60532 (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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

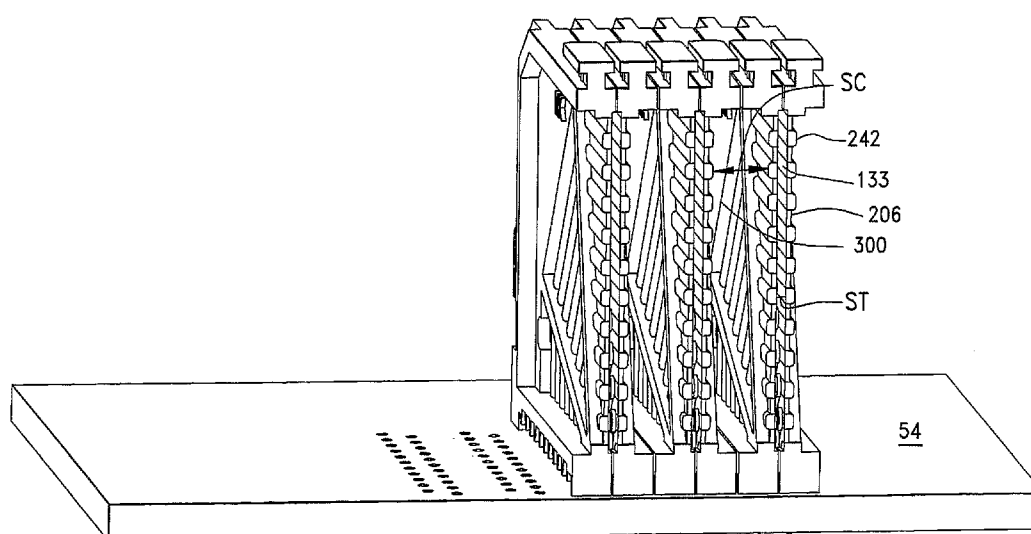
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, 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: HIGH-DENSITY, ROBUST CONNECTOR



(57) Abstract: A high speed connector includes a plurality of wafer-style components (202) in which two columns of conductive terminals (206) are supported in an insulative support body, the body including an internal cavity (237) disposed between the two columns of conductive terminals. The terminals are arranged in horizontal pairs, and the internal cavity defines an air channel between each horizontal pair of terminals arranged in the two columns of terminals. The terminals are further aligned with each other in each row so that horizontal faces of the terminals in the two rows face each other to thereby promote broadside coupling between horizontal pairs of terminals.

WO 2006/105535 A1