

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 December 2003 (31.12.2003)

PCT

(10) International Publication Number
WO 2004/001914 A1

(51) International Patent Classification⁷: **H01R 13/74**

Lane, Boca Raton, FL 33433 (US). **MEANEY, John**; 12 Elm Park, Lifford Gort Road, Ennis, Clare (IE).

(21) International Application Number:
PCT/US2003/018920

(74) Agent: **WEISS, Stephen, Z.**; Molex Incorporated, 2222 Wellington Court, Lisle, IL 60532 (US).

(22) International Filing Date: 17 June 2003 (17.06.2003)

(25) Filing Language: English

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
10/177,511 21 June 2002 (21.06.2002) US

(71) Applicant: **MOLEX INCORPORATED** [US/US]; 2222 Wellington Court, Lisle, IL 60532 (US).

(72) Inventors: **WADDELL, Kent, D.**; 9 Bishops Court, Watery Road, Ennis, Co Clare (IE). **BRENNAN, Denise**; 24 Alandale Hall, Courtback Avenue, Limberick (IE). **FOLAN, Eugene**; 43 Glenina Heights, Renmore, Galway (IE). **HORGAN, John, M.**; 13 Kilteragh, Dooradoyle Road, Limerick (IE). **KELLY, Enda**; Carroweragh, Kilshanny, Clare (IE). **MCCARTHY, Joseph**; Ballycoshown, Cappamore, Limerick (IE). **MURPHY, Brian**; "Hawthorn", Ft. Russell Road, Mungret, Limerick (IE). **WALLACE, John**; 13 Cragaun, Ft. Russell Road, Racefield, Limerick (IE). **NEER, Jay, H.**; 6510 Casabella

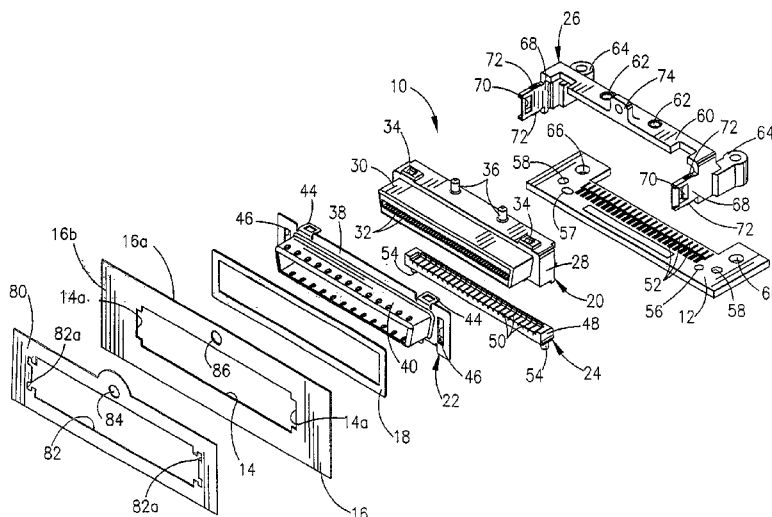
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ,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

Published:

- with international search report
- with amended claims

[Continued on next page]

(54) Title: MULTI-FUNCTION MOUNTING/LATCH ARRANGEMENT FOR ELECTRICAL CONNECTORS



(57) Abstract: An electrical connector assembly is provided for mounting to a first side of a panel and through an opening in the panel. A connector housing is adapted for mounting through the opening in the panel and carries a plurality of terminals. A multi-function mounting/latch component includes at least one mounting boss for mounting the connector housing on a circuit board. The multi-function component includes at least one mounting aperture for receiving a mounting post of the connector housing for mounting the connector housing at the first side of the panel and through the opening in the panel. The multi-function component includes at least one latch arm projecting through the opening to a second side of the panel. A locking plate is engageable with the latch arm at the second side of the panel to hold the connector in assembly through the panel. The latch arm includes a latching aperture to facilitate latching the connector assembly to a complementary mating connector at the second side of the panel.



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.