(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 December 2006 (07.12.2006)

PCT

(10) International Publication Number
WO 2006/130549 A3

(51) International Patent Classification:
G02B 6/44 (2006.01)

(21) International Application Number:
PCT/US2006/020726

(22) International Filing Date: 31 May 2006 (31.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/685,977 31 May 2005 (31.05.2005) US
11/405,181 17 April 2006 (17.04.2006) US

(71) Applicant *(for all designated States except US)*: **COMMSCOPE SOLUTIONS PROPERTIES, LLC** [US/US]; 1285 Southern Way, Sparks, NV 89431 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **LIVINGSTON, Joseph, C.** [US/US]; 6208 Tyning Drive, Frisco, TX 75035 (US).

(74) Agent: **MYERS BIGEL SIBLEY & SAJOVEC, P.A.**; P.O. Box 37428, Raleigh, NC 27627 (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.

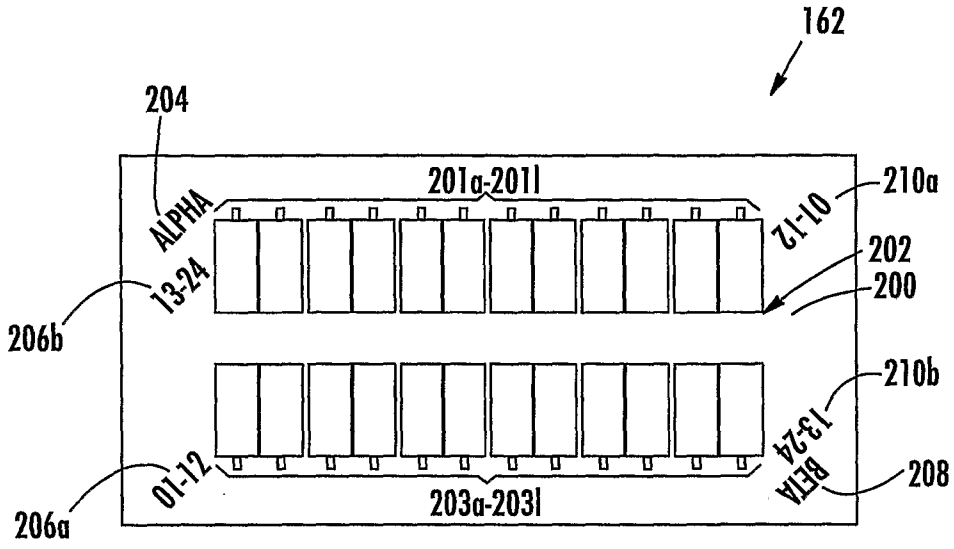
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT,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

(88) Date of publication of the international search report:
1 February 2007

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: OPTICAL FIBER ARRAY CONNECTIVITY SYSTEM WITH INDICIA TO FACILITATE CONNECTIVITY IN FOUR ORIENTATIONS FOR DUAL FUNCTIONALITY



(57) Abstract: A fan-out unit for a data communication system includes: a plurality of optical fibers; and a faceplate with a plurality of ports arranged in at least one row, each of the ports being optically interconnected with a respective one of the optical fibers and configured to received a mating optical fiber. The faceplate includes a first visual indicia associated with the ports that indicates an arrangement in which mating optical fibers are to be inserted into the ports, the first visual indicia being easily readable when the faceplate is in either a first horizontal orientation or a first vertical orientation, but not being easily readable when the faceplate is in a second horizontal orientation that is inverted from the first horizontal orientation or a second vertical orientation that is inverted from the first vertical orientation.

WO 2006/130549 A3