

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

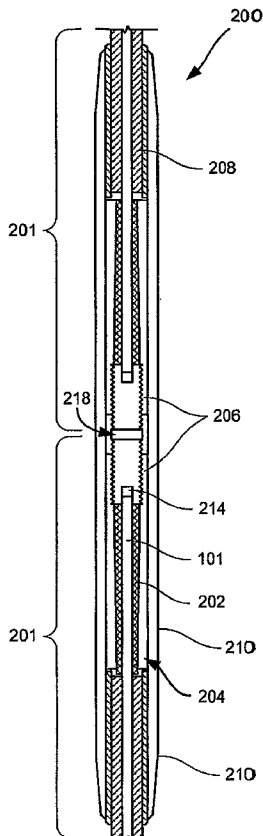
PCT

(10) International Publication Number
WO 2005/041358 A2

- (51) International Patent Classification⁷: **H01R** [US/US]; 1145 saling Way, Laguna Beach, CA 92651 (US).
- (21) International Application Number: PCT/US2004/035199 (74) Agent: **THE MCINTOSH GROUP**; 8000 East Prentice Ave. Suite B-6, Greenwood Village, CO 80111 (US).
- (22) International Filing Date: 22 October 2004 (22.10.2004) (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/690,839 22 October 2003 (22.10.2003) US
10/911,072 4 August 2004 (04.08.2004) US
- (71) Applicant (for all designated States except US): **COMPOSITE TECHNOLOGY CORPORATION** [US/US]; 2026 McGaw Ave., Irvine, CA 92614 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BRYANT, David**
- (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),

[Continued on next page]

(54) Title: A COLLET-TYPE SPLICE AND DEAD END FOR USE WITH AN ALUMINUM CONDUCTOR COMPOSITE CORE REINFORCED CABLE



(57) Abstract: This invention relates to collet-type fittings (201) for use in collet-type splices and collet-type dead ends and methods for splicing together two aluminum conductor composite core reinforced cables (ACCC) or terminating one ACCC cable. The collet-type fittings (201) comprise a collet (202) coincident with a collet housing (204) to hold the composite cores. The composite cores can be stripped of the aluminum conductor to provide a bond between the collet (202) and the composite core. After inserting the composite core into the collet (202), a compression element (206) compresses the collet (202). The collet (202) holds the composite core with frictional forces and the collet (202) further compresses and strengthens the hold on the composite core if the composite core pulls the collet (202) further into the collet housing (204).

WO 2005/041358 A2



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, 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).

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.

Published:

- *without international search report and to be republished upon receipt of that report*