



(51) International Patent Classification:
H02G 15/18 (2006.01) *H02G 15/24* (2006.01)

(21) International Application Number:
PCT/US2010/020308

(22) International Filing Date:
7 January 2010 (07.01.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/356,005 19 January 2009 (19.01.2009) US

(71) Applicant (for all designated States except US): **TYCO ELECTRONICS CORPORATION** [US/US]; 1050 Westlakes Drive, Berwyn, PA 19312 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KAMEDA, Floyd** [US/US]; 1306 Nilda Avenue, Mountain View, CA 94040 (US). **MAHER, Kathryn, Marie** [US/US]; 600 Wakehurst Drive, Cary, NC 27519 (US). **PEARCE, David, Francis** [GB/GB]; 39 Sheridan Drive, Wootton Bassett, Swindon, Wiltshire SN4 8JJ (GB).

(74) Agent: **TYCO ELECTRONICS CORPORATION**; 309 Constitution Drive, M/S R34-2A, Menlo Park, CA 94025-1164 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
7 July 2011

(54) Title: COVERED CABLE ASSEMBLIES AND METHODS AND SYSTEMS FOR FORMING THE SAME

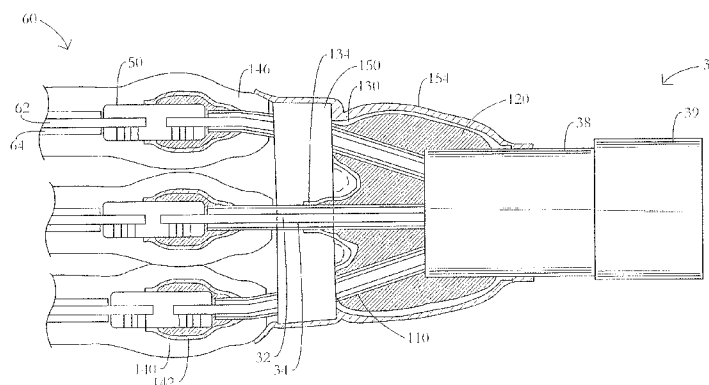


FIG. 19B

(57) Abstract: A covered cable assembly includes a cable and a sealing assembly. The cable includes a metal sheath and a cable core. The metal sheath has a sheath terminal edge defining a sheath opening. The cable core extends through the metal sheath. The cable core includes an electrical conductor and an oil-impregnated paper insulation layer surrounding the electrical conductor. An extended cable core section of the cable core extends through the sheath opening and beyond the sheath terminal edge. The sealing assembly includes an oil barrier tube, a sealing mastic and a pressure retention tape. The oil barrier tube surrounds the extended cable core section. The sealing mastic surrounds the cable about the sheath terminal edge and overlaps portions of the metal sheath and the oil barrier tube adjacent the sheath terminal edge to effect an oil barrier seal between the metal sheath and the cable core at the sheath opening. The pressure retention tape surrounds the sealing mastic to limit displacement of the sealing mastic.

