



(51) International Patent Classification:

G02B 6/44 (2006.01)

(21) International Application Number:

PCT/US2017/046230

(22) International Filing Date:

10 August 2017 (10.08.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

15/235,623 12 August 2016 (12.08.2016) US

(71) Applicant: CORNING OPTICAL COMMUNICATIONS LLC [US/US]; 800 17TH STREET NW, HICKORY, North Carolina 28601 (US).

(72) Inventors: COTE, Monique Lise; 4617 Mustang Drive, Fort Worth, Texas 76137 (US). LINDBLAD, Troy Dean; 3804 Cross Country Trail, Arlington, Texas 76001 (US). LIU, Ziwei; 8305 Greylock Drive, Ft. Worth, Texas 76137 (US).

(74) Agent: CARROLL, JR., Michael E.; CORNING OPTICAL COMMUNICATIONS LLC, Intellectual Property Department SP-TI-03-1, Corning, New York 14831 (US).

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

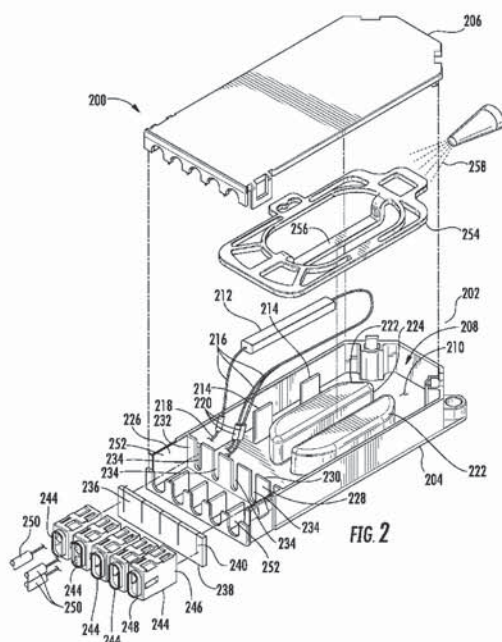
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: DEVICE AND METHOD FOR SEALING MULTI-PORT SPLITTERS



(57) Abstract: A sealed multiport splitter device and method are disclosed. The fiber optic multiport comprises housing with an interior defining a first chamber and an adjacent second chamber. An optical splitter with a plurality of splitter legs connect to a plurality of optical fibers located in the first chamber. Potting material is disposed in the first chamber to physically secure the optical splitter, the splitter legs and the optical fibers. A wall having a first face and a second face separates the first chamber from the second chamber. The wall has a plurality of slots extended from the first face to the second face. The plurality of optical fibers route through the plurality of slots between the first chamber and the second chamber. A blocking material is adjacent to the wall to inhibit ingress of the potting material into the second chamber while the potting material is being cured.