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(21) International Application Number: PCT/US96/20240 (22) International Filing Date: 23 December 1996 (23.12.96) (30) Priority Data: 08/577,740 22 December 1995 (22.12.95) US 08/660,644 7 June 1996 (07.06.96) US 08/664,039 13 June 1996 (13.06.96) US 60/029,328 29 October 1996 (29.10.96) US (71) Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (72) Inventors: SELLI, Raman, K.; 3M Austin Center, 6801 River Place Boulevard, Austin, TX 78726-9000 (US). DOSS, Donald, G.; 3M Austin Center, 6801 River Place Boulevard, Austin, TX 78726-9000 (US). PARRETT, George, W.; 3M Austin Center, 6801 River Place Boulevard, Austin, TX 78726-9000 (US). GUENTER, James, K.; 3M Austin Center, 6801 River Place Boulevard, Austin, TX 78726-9000 (US). WALTRIP, Philip, W.; 3M Austin Center, 6801 River Place Boulevard, Austin, TX 78726-9000 (US).		(74) Agents: CHERNIVEC, Gerald, F. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). (81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: RECEPTACLE FOR ELECTRO-OPTICAL DEVICE (57) Abstract A receptacle for terminating an optical fiber at an active device such as a photodetector or solid-state light source. The receptacle includes a housing, a termination fixture and an active device. The housing has an opening for receiving the terminal portion of an optical fiber, a door located at the opening, biased to a closed position and having a latch for releasably receiving an optical fiber plug, and a removable plate allowing access to an interior of the housing. The termination fixture and the active device may be mounted to a common substrate attached to an interior portion of the housing. The termination fixture includes a base and a projection attached to the base proximate a light-transmitting portion thereof, the projection having a fiber-receiving groove directed toward a fiber stop surface located on the light-transmitting portion of the base. The base can have a lens integrally molded with the light-transmitting portion. The active device is positioned with respect to the termination fixture to receive light from, and/or transmit light to, any fiber whose terminal portion is located in the V-groove and abutting the fiber stop. An optional optical plate may be used to adjust the optical characteristics of the termination fixture. 		