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(21) International Application Number: PCT/GB99/02016 (22) International Filing Date: 28 June 1999 (28.06.99) (30) Priority Data: 9815655.7 17 July 1998 (17.07.98) GB (71) Applicant (for all designated States except US): BOOKHAM TECHNOLOGY LIMITED [GB/GB]; 90 Milton Park, Abingdon, Oxfordshire OX14 4RY (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): DAY, Ian, Edward [GB/GB]; 12A St Andrew's Lane, Old Headington, Oxfordshire OX3 9DP (GB). (74) Agents: PALMER, Roger et al.; Page White & Farrer, 54 Doughty Street, London WC1N 2LS (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report.
(54) Title: THERMO-OPTIC SEMICONDUCTOR DEVICE (57) Abstract A thermo-optic semiconductor device has one semiconductor region providing an optical waveguide and an adjacent semiconductor region providing a resistive heater between two doped regions, current may be passed through the resistive heater within the adjacent semiconductor region to heat it and thereby vary the optical characteristics of the waveguide.		