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(21) International Application Number: PCT/GB99/01357 (22) International Filing Date: 30 April 1999 (30.04.99) (30) Priority Data: 9809460.0 1 May 1998 (01.05.98) GB (71) Applicant: BOOKHAM TECHNOLOGY LIMITED [GB/GB]; 90 Milton Park, Abingdon, Oxon OX14 4RY (GB). (72) Inventors: RICKMAN, Andrew, George; St. Katherines Lodge, Savernake Forest, Marlborough, Wilts SN8 3BG (GB). HARPIN, Arnold, Peter, Roscoe; 58 Stratford Street, Oxford OX4 1SW (GB). McKENZIE, James, Stuart; Flat 6, 67/69 The Greenway, Uxbridge, Middlesex UB8 2PL (GB). DRAKE, John, Paul; 47 Rockfel Road, Lambourn, Berkshire RG17 8NG (GB). DAWNAY, Emma, Jane, Clarissa; Wexcombe House, Nyr. Marlborough, Wilts SN8 3SQ (GB). (74) Agents: UNWIN, Stephen, Geoffrey et al.; Fry, Heath & Spence, The Old College, 53 High Street, Horley, Surrey RH6 7BN (GB).		(81) Designated States: AU, CA, CN, IL, JP, KR, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>With amended claims and statement.</i>
(54) Title: COUPLING OPTICAL FIBRE TO WAVEGUIDE 		
(57) Abstract An apparatus is provided for coupling an optical fibre (1) to a waveguide (3) on an optical chip, the apparatus comprises a recess in the chip for receiving the optical fibre, the recess comprising a V-groove (2) the side faces of which locate the position of the fibre in directions perpendicular to the optical axis of the fibre so as to position the fibre in alignment with the waveguide, and an end face (4A) adjacent the end of the waveguide, the end face (4A) of the recess being substantially flat and substantially perpendicular to the plane of the chip with its normal inclined to the optical axis of the waveguide so an optical fibre having an inclined end face (2A) can be brought into a close, abutting relationship with the end of the waveguide and brought into rotational alignment therewith about its optical axis by positioning the fibre so its inclined end face lies in planar contact with the end face of the recess.		