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(21) International Application Number: PCT/GB99/04386 (22) International Filing Date: 22 December 1999 (22.12.99) (30) Priority Data: 9828407.8 23 December 1998 (23.12.98) GB (71) Applicant (for all designated States except US): ROYAL ORDNANCE PUBLIC LIMITED COMPANY [GB/GB]; Buxton Lane, Buxton, Chorley, Lancashire PR7 6AD (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): RAWCLIFFE, John, Geoffrey [GB/GB]; Royal Ordnance Plc, Lower Darwen, Blackburn, Lancashire BB1 2LE (GB). PATRICK, David, Edward [GB/GB]; Chiltern Microwave Ltd., Unit 11, Chells Enterprise Village, Chells Way, Stevenage, Hertfordshire SG2 0LZ (GB). (74) Agents: WILDMAN, David, Brian et al.; British Aerospace Plc, Group IP Department, Lancaster House, P.O. Box 87, Farnborough Aerospace Centre, Farnborough, Hampshire GU14 6YU (GB).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, 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: PROXIMITY FUZE (57) Abstract A proximity fuze for use in a tube launched projectile carrying a payload, comprising oscillator means for generating a radio frequency signal which has a varying frequency, a single antenna means for transmitting the radio frequency signal and for receiving an echo of the radio frequency signal, signal processing means for generating a range signal corresponding to the time delay between the transmission of the radio frequency signal and the receipt of the echo signal, means for comparing the range signal with a reference signal and depending on the result of the comparison generating an activation signal for activating the payload, wherein a directional coupling means is used for coupling the radio frequency signal from the oscillator means to the antenna means and to the signal processing means and for coupling the echo signal from the antenna means to the signal processing means.		