

PCT

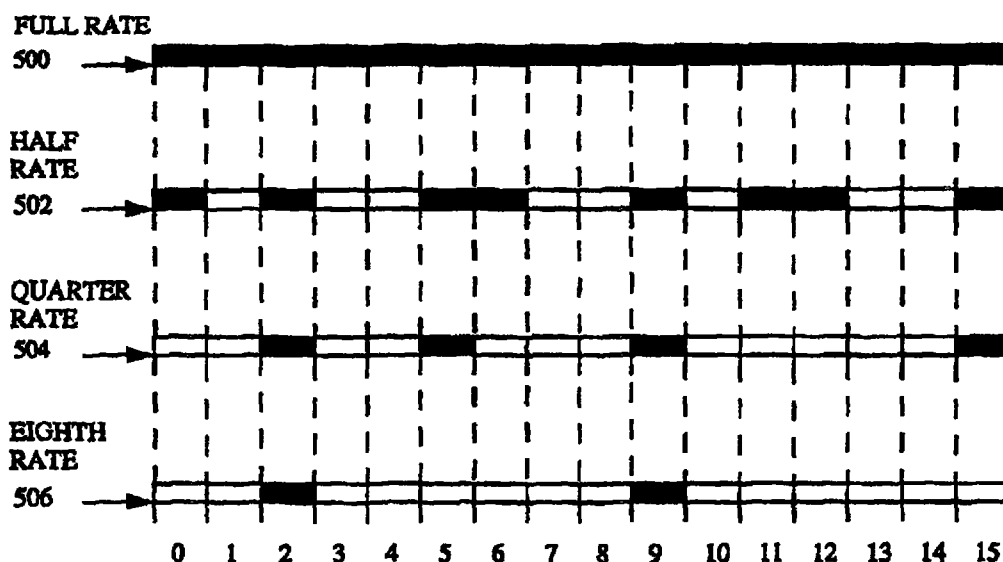
WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04B 17/00, 7/26		A1	(11) International Publication Number: WO 97/00562
			(43) International Publication Date: 3 January 1997 (03.01.97)
(21) International Application Number: PCT/US96/10458		(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).	
(22) International Filing Date: 17 June 1996 (17.06.96)			
(30) Priority Data: 08/490,694 16 June 1995 (16.06.95) US			
(71) Applicant: QUALCOMM INCORPORATED [US/US]; 6455 Lusk Boulevard, San Diego, CA 92121 (US).			
(72) Inventors: ZIV, Noam, Abraham; 10968 Corte Playa Barcelona, San Diego, CA 92124-1175 (US). PADOVANI, Roberto; 13593 Penfield Pt., San Diego, CA 92130 (US).			
(74) Agent: MILLER, Russell, B.; QUALCOMM Incorporated, 6455 Lusk Boulevard, San Diego, CA 92121 (US).		Published <i>With international search report. 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: METHOD AND APPARATUS FOR DETERMINING SIGNAL STRENGTH IN A SPREAD SPECTRUM COMMUNICATION SYSTEM HAVING A VARIABLE DATA RATE



(57) Abstract

A method and apparatus of determining signal strength, regardless of the signal data rate, in a receiver receiving signals from a variable rate transmitter. The incoming signal is comprised of a series of frames. Each frame is comprised of a number of power control groups containing data. The number of the power control groups containing data within each frame is dependent on the unknown data rate. The position of the power control groups within the frame is a pseudorandom. The signal strength of an incoming signal of unknown data rate is determined based upon an active set of power control groups within a frame. The active set of power control groups contain data independently of the unknown data rate. The signal strength information may be used to indicate that the signal strength is sufficient to perform further signal processing.