

PCT

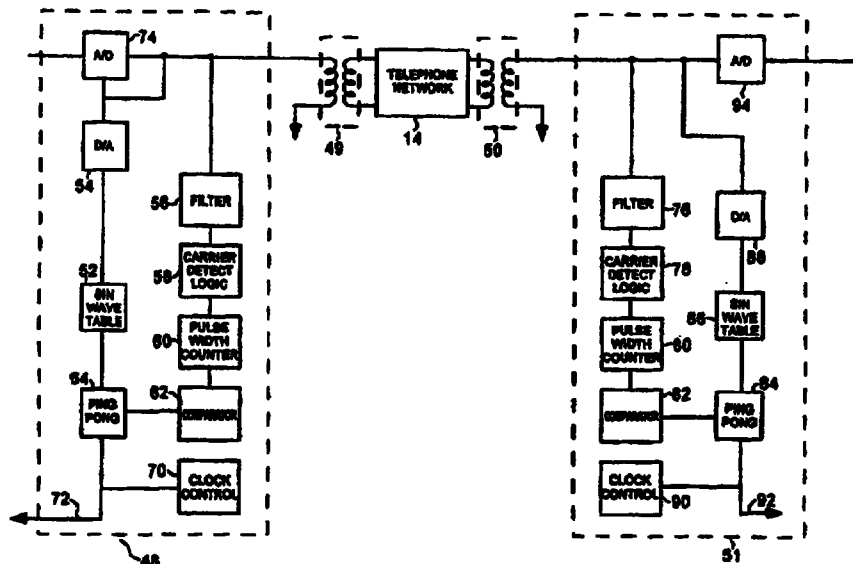
WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04B 1/38, H04L 5/16		A1	(11) International Publication Number: WO 97/29553
			(43) International Publication Date: 14 August 1997 (14.08.97)
(21) International Application Number: PCT/US97/01963		(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, HU, IL, 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, SK (Utility model), TJ, TM, TR, TT, UA, UG, US, 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: 6 January 1997 (06.01.97)			
(30) Priority Data: 08/598,366 8 February 1996 (08.02.96) US			
(71) Applicant (for all designated States except US): INTEL CORPORATION [US/US]; 2200 Mission College Boulevard, Santa Clara, CA 95052 (US).			
(72) Inventor; and			
(75) Inventor/Applicant (for US only): SAMSON, Eric, C. [CA/US]; 3218 Cambridge, Cameron Park, CA 95682 (US).			
(74) Agents: TAYLOR, Edwin, H. et al.; Blakely, Sokoloff, Taylor & Zafman L.L.P., 7th floor, 12400 Wilshire Boulevard, Los Angeles, CA 90025 (US).		Published With international search report.	

(54) Title: METHOD AND APPARATUS FOR MINIMIZING MODEM POWER WHILE MAXIMIZING MODEM THROUGHPUT



(57) Abstract

A system for reducing the power consumed in modems while maintaining maximum data throughput that includes logic (58) for detecting when data is not being transmitted across an established modem connection and turns off all modem functions not required to maintain connection. A protocol between the local and remote modem is run using logic running at lower clock rates to maintain the connection. Existing error correction and data compression protocols as well as distortion compensation functions are turned off during this period. When data is again to be sent, the clocks are returned to their data transmission operating frequency and the functions previously turned off are turned on.