

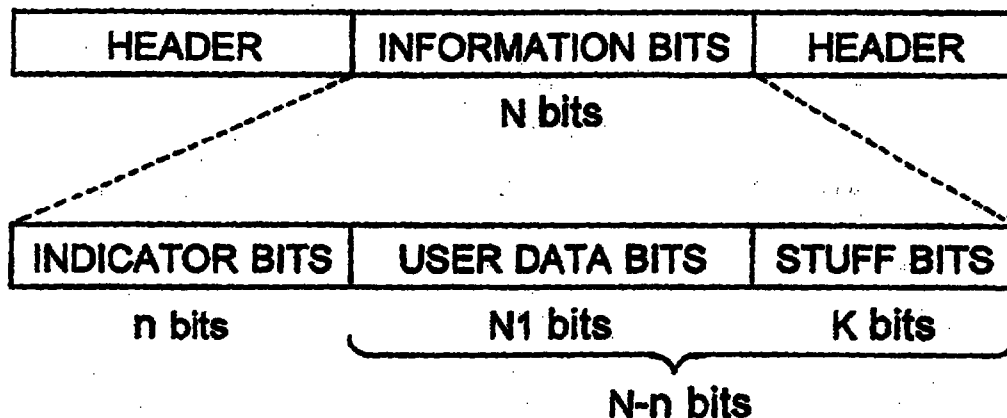
9705626-1

RTMP
COPY**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04J 3/16, H04B 7/26 // H04Q 7/22		A1	(11) International Publication Number: WO 96/27960
			(43) International Publication Date: 12 September 1996 (12.09.96)
(21) International Application Number: PCT/FI96/00135		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, 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, 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 March 1996 (06.03.96)		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(30) Priority Data: 951018 6 March 1995 (06.03.95) FI			
(71) Applicant (for all designated States except US): NOKIA TELECOMMUNICATIONS OY [FI/FI]; Mäkkylän puistotie 1, FIN-02660 Espoo (FI).			
(72) Inventor; and (75) Inventor/Applicant (for US only): RÄSÄNEN, Juha [FI/FI]; Pensaskertuntie 8 A, FIN-02660 Espoo (FI).			
(74) Agent: OY KOLSTER AB; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).			

(54) Title: HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS



(57) Abstract

The invention relates to a digital mobile communication system and a method for high-speed data transmission in a digital mobile communication system. The mobile network allocates two or more parallel traffic channels to a high-speed data signal which requires a transmission rate that exceeds the maximum transmission rate of one traffic channel. The high-speed data signal is packed into transmission frames which contain a fixed number N of information bits. The number of the information bits is such that the data rate of the frame is fixed and corresponds to a standard rate adaptation of a traffic channel in the mobile communication system, for example 9.6 Kbps. Among these information bits of the transmission frame, a variable number of bits $N1$ which is dependent on the data rate of the high-speed data signal is employed for the transmission of the user data. From the remaining "free" information bits of the frame, n bits are control bits which indicate the number $N1$ of the user data bits in the frame. The remaining k information bits are stuff bits. By means of the invention, the transmission rate of the user data in the transmission frames may vary between 0 and a preset maximum value.