

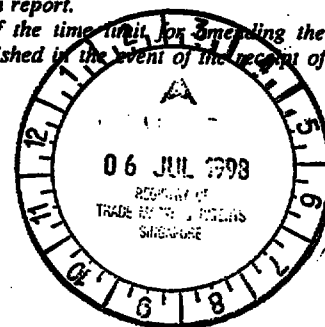
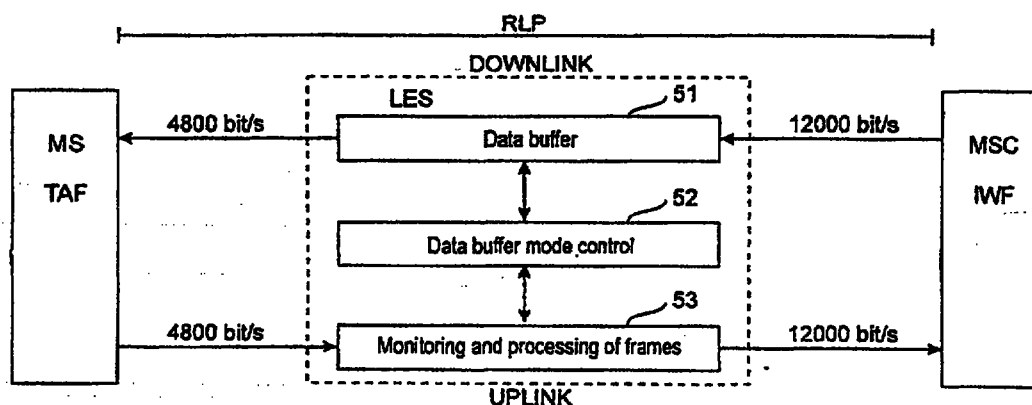


PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: H04L 25/02, H04L 29/02 // H04B 7/185	A1	(11) International Publication Number: WO 97/22196 (43) International Publication Date: 19 June 1997 (19.06.97)
(21) International Application Number: PCT/FI96/00654 (22) International Filing Date: 10 December 1996 (10.12.96) (30) Priority Data: 955944 11 December 1995 (11.12.95) FI (71) Applicant (for all designated States except US): NOKIA TELECOMMUNICATIONS OY [FI/FI]; Upseerinkatu 1, FIN-02600 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).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, 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, 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). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>

**(54) Title:** RATE ADAPTATION IN A NON-UNIFORM NON-TRANSPARENT DATA CHANNEL**(57) Abstract**

The invention relates to a rate adaptation method and equipment in a telecommunication system for data transmission employing a frame-structured data transmission protocol (RLP) between the telecommunication equipment (IWF, TAF) of the transmitting party and the telecommunication equipment (TAF, IWF) of the receiving party via a non-uniform non-transparent traffic channel or set of traffic channels consisting of a traffic channel section of a higher capacity and a traffic channel section of a lower capacity. The interface between the high capacity and the low capacity traffic channel section is provided with rate adaptation equipment that consists of a data buffer (51) and data buffer control (52). The data buffer (51) buffers the frames received from the high capacity traffic channel section before they are transmitted to the low capacity traffic channel section. The data buffer control (52, 53) adjusts the filling level of the data buffer (51) by activating, if necessary, data flow control according to the data transmission protocol in the telecommunication equipment (IWF, TAF) of the transmitting party.