



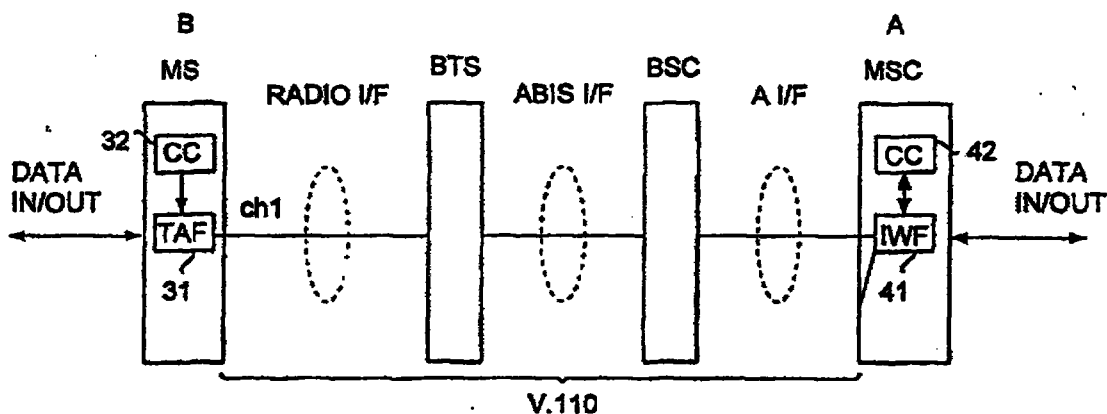
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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04L 29/06, 12/56	A1	(11) International Publication Number: WO 96/36154 (43) International Publication Date: 14 November 1996 (14.11.96)
(21) International Application Number: PCT/FI96/00260 (22) International Filing Date: 8 May 1996 (08.05.96) (30) Priority Data: 952256 9 May 1995 (09.05.95) FI (71) Applicant (for all designated States except US): NOKIA TELECOMMUNICATIONS OY [FI/FI]; Mäkkylän puistotie 1, FIN-02600 Espoo (FI). (72) Inventors; and (75) Inventors/Applicants (for US only): KANERVA, Mikko [FI/FI]; Kaarnatie 1 F 58, FIN-00410 Helsinki (FI). KARI, Hannu [FI/FI]; Kullervonkuja 9 B 9, FIN-02880 Velkkola (FI). VAINIKKA, Jari [FI/FI]; Neilikkuja 5 B, FIN-01390 Vantaa (FI). AHOPELTO, Juha-Pekka [FI/FI]; Steniuksentie 23 B 22, FIN-00320 Helsinki (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, 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). 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>	

(54) Title: DATA TRANSMISSION SYSTEM WITH SLIDING-WINDOW DATA FLOW CONTROL



(57) Abstract

The invention relates to a digital data transmission system with a non-transparent circuit-switched data connection (V.110) between a transmitting (A) and a receiving party (B), whose nominal data transmission rate may vary during a call. The data connection uses a sliding-window data flow control protocol involving transmission of data frames in a preset order, checking the order of received data frames based on this order information, acknowledgement of properly received data frames and retransmission of incorrect or missing data frames. The transmitting party (A) may temporarily group the data frames, whereby the resulting "wrong" order of frames inside the group or between groups may cause unnecessary retransmissions. In the invention this is eliminated so that the receiving party (B), upon detection of a missing data frame, delays the transmission of a retransmission request for a period of time that will ensure that the missing frame has not been sent later.

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