(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 February 2002 (21.02.2002)

PCT

(10) International Publication Number
WO 02/15510 A2

(51) International Patent Classification[7]: H04L 29/00

(21) International Application Number: PCT/IB01/01757

(22) International Filing Date: 17 August 2001 (17.08.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0020442.0 18 August 2000 (18.08.2000) GB

(71) Applicant *(for all designated States except US)*: **NOKIA NETWORKS OY** [FI/FI]; Keilalahdendie 4, FIN-02150 Espoo (FI).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LEPPANEN, Sari** [FI/FI]; Nokia Networks Oy, Keilalahdentie 4, FIN-02150 Espoo (FI). **SARKKINEN, Sinikka** [FI/FI]; Nokia Networks Oy, Keilalahdentie 4, FIN-02150 Espoo (FI). **TOURUNEN, Ari** [FI/FI]; Nokia Networks Oy, Keilalahdentie 4, FIN-02150 Espoo (FI).

(74) Agents: **SLINGSBY, Philip, Roy** et al.; Page White & Farrer, 54 Doughty Street, London WC1N 2LS (GB).

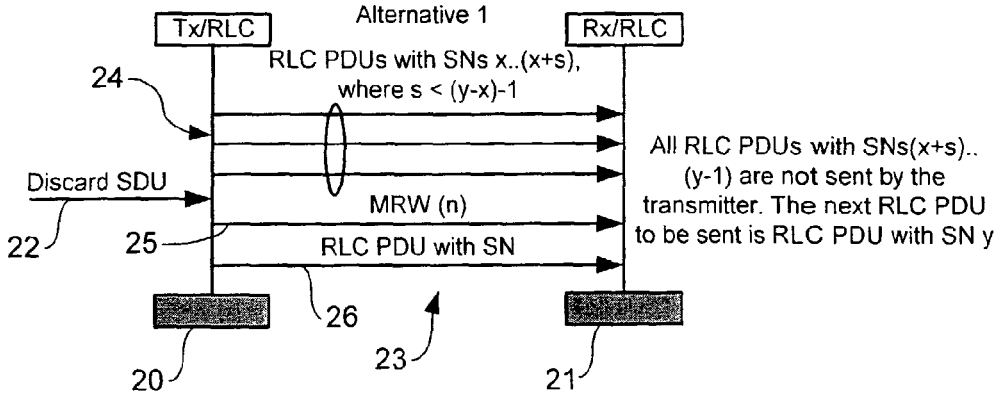
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DATA TRANSMISSION PROTOCOL



(57) Abstract: A method of transmitting data from a transmitter towards a receiver, comprising the steps of: forming a plurality of ordered data units each comprising a part of a data message; transmitting at least some of the data units in order; identifying a discard status in respect of the data message; and if a subset of the data units including the final one of the data units and at least one other of the data units has not been transmitted: indicating that the data message is to be discarded and specifying the identify of the final one of the data units; and transmitting only the final one of the data units from the said subset.

WO 02/15510 A2