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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 February 2006 (09.02.2006)

PCT

(10) International Publication Number
WO 2006/013460 A1

(51) International Patent Classification[7]: H04L 29/06

(21) International Application Number:
PCT/IB2005/002434

(22) International Filing Date: 27 July 2005 (27.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/903,260 30 July 2004 (30.07.2004) US

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

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **VEDANTHAM, Ramakrishna** [IN/US]; 814 W.Royal Ln, #349, Irving, TX, US 15039 (US). **LEON, David** [FR/US]; 900 Meadow Creek Drive, #3061, Irving, TX 75038 (US). **CURCIO, Igor** [IT/FI]; Hatanpään valtatie 12 C 57, FI-33100 Tampere (FI). **WALSH, Rod** [GB/FI]; Kelkkakatu 4B12, FI-33580 Tampere (FI).

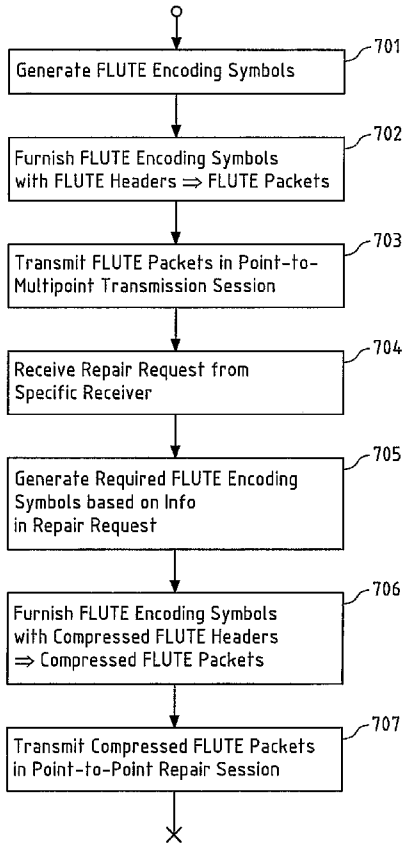
(74) Agent: **COHAUSZ & FLORACK (24)**; Bleichstrasse 14, 40211 Düsseldorf (DE).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: POINT-TO-POINT REPAIR RESPONSE MECHANISM FOR POINT-TO-MULTIPOINT TRANSMISSION SYSTEMS



(57) Abstract: This invention relates to a method, a system, a transmitter, a network element, a receiver and software applications in a system for transmitting data symbols, wherein one or more data symbols are transmitted from a transmitter to one or more receivers within a point-to-multipoint transmission session, wherein said data symbols are furnished with first-type headers obeying a file delivery protocol, wherein one or more repair data symbols are transmitted from a repair server to one specific receiver of said receivers within a point-to-point repair session, and wherein said repair data symbols are furnished with one or more second-type headers at least partially obeying said same file delivery protocol.

WO 2006/013460 A1

Published:
— *with international search 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.