

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 November 2006 (09.11.2006)

PCT

(10) International Publication Number
WO 2006/117651 A3

(51) International Patent Classification:
H03M 13/27 (2006.01)

(21) International Application Number:
PCT/IB2006/001121

(22) International Filing Date: 2 May 2006 (02.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/677,495 4 May 2005 (04.05.2005) US
60/680,285 12 May 2005 (12.05.2005) US
11/415,447 1 May 2006 (01.05.2006) US

(71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Nokia Group, PO Box 226, FIN-00045 Helsinki (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ZHOU, Fei, Frank** [CN/US]; 6542 Reflection Dr. #1443, San Diego, CA 92124 (US). **WANG, Yan** [CN/US]; 1162 Morse Ave. #102, Sunnyvale, CA 94089 (US). **PAPADIMITRIOU,**

Panayiotis [GR/US]; 2102 Archstone Ave., Tewksbury, MA 01876 (US). **PI, Zhouyue** [CN/US]; 11568 Compass Point Dr N, #52, San Diego, CA 92126 (US).

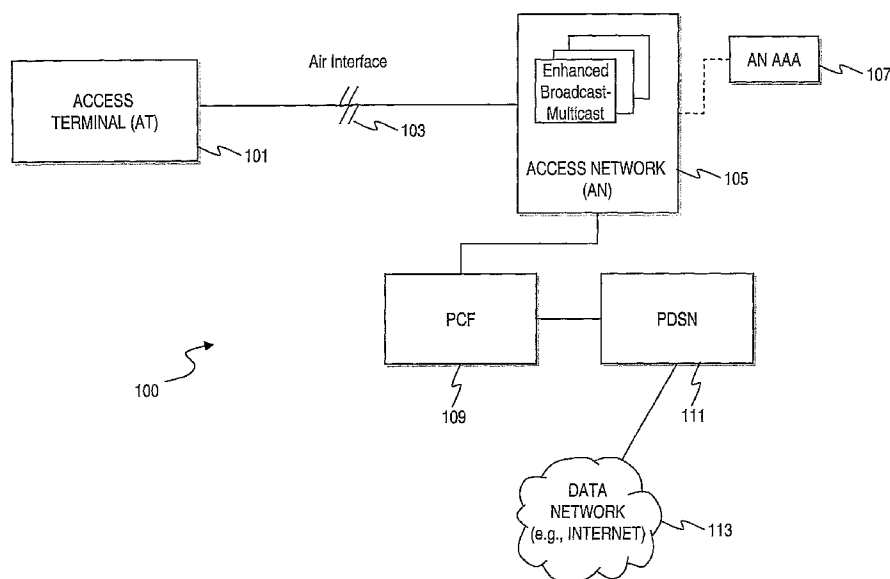
(74) Agent: **DITTHAVONG, Phouphanomketh**; Ditthavong & Mori, P.C., 10507 Braddock Road, Suite A, Fairfax, VA 22032 (US).

(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, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, 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: METHOD AND APPARATUS FOR PROVIDING ENHANCED CHANNEL INTERLEAVING



(57) Abstract: An approach is provided for channel interleaving. A plurality of symbols are received and partitioned into a plurality of subblocks. The subblocks form a plurality of subsequences. A first output sequence is generated from the subsequences. The subsequences of the first output sequence is selected and punctured to generate a second output sequence, and interleaving the second output sequence.

WO 2006/117651 A3



Published:

— with international search report

(88) Date of publication of the international search report:

8 February 2007

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.