

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 December 2006 (14.12.2006)

PCT

(10) International Publication Number
WO 2006/132506 A1

(51) International Patent Classification:
H04L 12/28 (2006.01) *H04L 29/06* (2006.01)

Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-780 (KR).

(21) International Application Number:
PCT/KR2006/002202

(74) Agents: **KIM, Dong-Jin** et al.; 6th Fl. Youngpoong Bldg., 142, Nonhyun-dong, Gangnam-gu, Seoul 135-749 (KR).

(22) International Filing Date: 9 June 2006 (09.06.2006)

(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, 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, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2005-0049444 9 June 2005 (09.06.2005) KR
10-2005-0115922
30 November 2005 (30.11.2005) KR

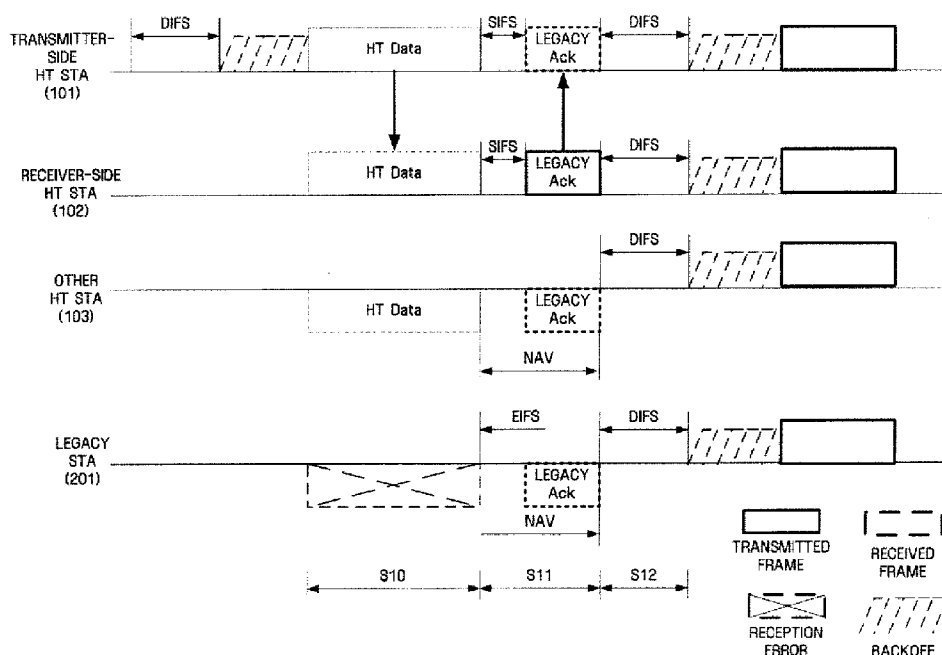
(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**
[KR/KR]; 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742 (KR).

(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).

Published:
— with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR TRANSMITTING DATA WITH DOWN COMPATIBILITY IN HIGH THROUGHPUT WIRELESS NETWORK



(57) Abstract: A method and an apparatus are provided for enabling a legacy station to perform virtual carrier sensing when a plurality of stations with heterogeneous capabilities coexist in a wireless network. The method includes receiving first data via a bonded channel formed by channel bonding first and second adjacent channels, and transmitting second data via each of the first and second adjacent channels, the second data being a clear-to-send (CTS) frame or a request-to-send (RTS) frame.

WO 2006/132506 A1



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.