

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number
WO 2005/067169 A3

(51) International Patent Classification⁷: **H04B 7/06**,
H04Q 7/36

(21) International Application Number:
PCT/US2004/043371

(22) International Filing Date:
24 December 2004 (24.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/749,175 30 December 2003 (30.12.2003) US

(71) Applicant (for US only): **INTEL CORPORATION**
[US/US]; 2200 Mission College Boulevard, Santa Clara,
CA 95052 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STEPHENS, Adrian** [GB/GB]; 64 Lamb's Lane, Cottenham, Cambridge, CB4 8TA (GB). **LI, Qinghua** [CN/US]; 4314E Valley Avenue, Pleasanton, CA 94566 (US). **HO, Minnie** [US/US]; 405 Becker Lane, Los Altos, CA 94022 (US).

(74) Agent: **SCOTT, John, C.**; The Law Offices of John C. Scott, LLC, c/o PortfolioIP, P.O. Box 52050, Minneapolis, MN 55402 (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, 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, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
20 October 2005

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: METHOD AND APPARATUS FOR IMPLEMENTING DOWNLINK SDMA IN A WIRELESS NETWORK

(57) Abstract: Methods and structures are disclosed for use in implementing downlink spatial division multiple access (SDMA) in a wireless network.



WO 2005/067169 A3