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

REVISED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 December 2008 (11.12.2008)

PCT

(10) International Publication Number
WO 2008/151069 A9

(51) International Patent Classification:
H04L 12/56 (2006.01)

(21) International Application Number:
PCT/US2008/065402

(22) International Filing Date: 30 May 2008 (30.05.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/940,873 30 May 2007 (30.05.2007) US
12/128,972 29 May 2008 (29.05.2008) US

(71) Applicant *(for all designated States except US)*: **QUALCOMM INCORPORATED** [US/US]; Attn: International Ip Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **TENNY, Nathan Edward** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US). **MALLADI, Durga Prasad** [US/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).

(74) Agent: **PATEL, Milan I.**; Attn: International Ip Administration, 5775 Morehouse Drive, San Diego, Califonia 92121 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR SENDING SCHEDULING INFORMATION FOR BROADCAST AND MULTICAST SERVICES IN A CELLULAR COMMUNICATION SYSTEM

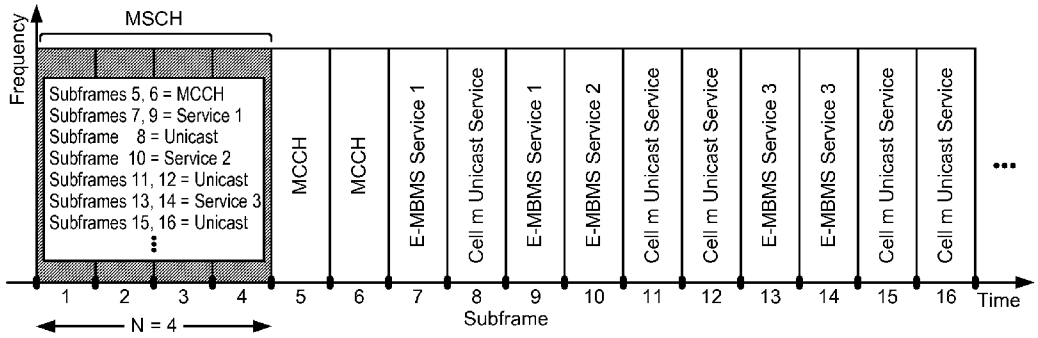


FIG. 5

(57) **Abstract:** Techniques for supporting broadcast, multicast, and unicast services in a cellular system are described. A Node B may multiplex data for broadcast and multicast services and data for unicast services on radio resources available for transmission. The Node B may periodically send scheduling information used to determine the radio resources carrying the broadcast and multicast services. In one design, the Node B may time division multiplex the data for the broadcast and multicast services and the data for the unicast services. The scheduling information may convey time unit(s) used for each broadcast or multicast service. In another design, the Node B may map the data for the broadcast and multicast services to time frequency blocks. The scheduling information may (i) convey the time frequency block(s) used for each broadcast or multicast service or (ii) point to control information conveying the time frequency block(s) used for each service.

WO 2008/151069 A9

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 revised international search report: 23 July 2009

(15) Information about Correction:
see Notice of 23 July 2009