

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 February 2008 (28.02.2008)

PCT

(10) International Publication Number
WO 2008/024938 A2

(51) International Patent Classification:

H04L 27/26 (2006.01)

(21) International Application Number:

PCT/US2007/076689

(22) International Filing Date: 23 August 2007 (23.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/839,954 23 August 2006 (23.08.2006) US

11/842,827 21 August 2007 (21.08.2007) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

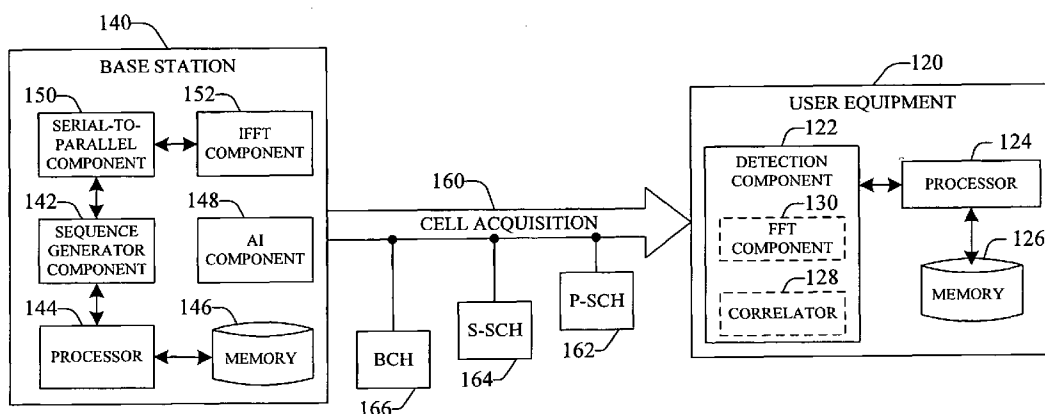
Declarations under Rule 4.17:

- 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))

Published:

- without international search report and to be republished upon receipt of that report

(54) Title: ACQUISITION IN FREQUENCY DIVISION MULTIPLE ACCESS SYSTEMS



(57) Abstract: Systems and methods allow cell acquisition in a wireless communication system in frequency division multiple access mode of operation. Code sequences transmitted over primary synchronization channel (P-SCH) enable detection of symbol boundary, cyclic prefix duration, and indication of broadcast channel bandwidth. Sequences transmitted over secondary synchronization channel (S-SCH) afford radio frame boundary detection, cell identification, and broadcast channel bandwidth indication. Cell identification can be conveyed jointly between P-SCH and S-SCH codes. Broadcast channel sequences convey cyclic prefix timing, system bandwidth, and other system information. Relay of cell acquisition information, as well as multiple-cell acquisition when wireless system operates with frequency reuse are described.