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- (74) **Agents:** **CONLEY ROSE, P.C.** et al.; 5601 Granite Parkway, Suite 750, Plano, Texas 75024 (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, CL, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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- Declarations under Rule 4.17:**
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

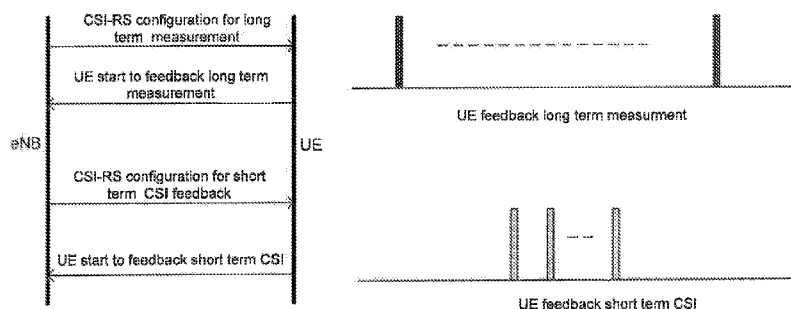
(54) **Title:** METHODS AND SYSTEM OF WIRELESS COMMUNICATION WITH REMOTE RADIO HEADS

Figure 18

(57) **Abstract:** A method of operating an eNB in a wireless communication network is provided. The method comprises transmitting, by the eNB to a UE, configuration information of first and second sets of CSI-RS resources, wherein the first set of CSI-RS resources is used for long term measurement and the second set of CSI-RS resources is used for short term CSI feedback.



- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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A. CLASSIFICATION OF SUBJECT MATTER**H04B 7/04(2006.01)i, H04L 1/06(2006.01)i, H04J 11/00(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04B 7/04; H04W 24/00; H04W 4/00; H04W 72/04; H04W 64/00; H04L 1/06; H04J 11/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: CSI-RS, long-term, short-term, aggregate, feedback

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NTT DOCOMO et al., "CSI RS Configuration to Support 4 Tx MIMO UE in 8 Tx Networks", R1-110861, 3GPP TSG-RAN WG1 #64, Taipei, Taiwan, February 21 - February 25, 2011	1,10
A	See Sections 3-5; Figures 2,3	2-9,11-18
A	Huawei and HiSilicon, "Consideration on CSI-RS configuration", R1-111156, 3GPP TSG-RAN WG1 #64, Taipei, Taiwan, February 21 - February 25, 2011 See Sections 2,3; Figures 1-4	1-18
A	Ericsson and ST-Ericsson, "Aspects on Distributed RRUs with Shared Cell-ID for Heterogeneous Deployments", R1-110649, 3GPP TSG-RAN WG1 #64, Taipei, Taiwan, February 21 - February 25, 2011 See Sections 2.3,3,5; Figure 5	1-18
A	US 2010-0323720 A1 (JEN YU-CHIH) 23 December 2010 See Claims 54-56,61,62; Paragraphs [115]-[122],[126]-[132]; Figures 11,12	1-18
A	US 2010-0323684 A1 (CAI ZHIJUN et al.) 23 December 2010 See Claims 26-32; Paragraphs [16],[22],[34]-[37],[41],[43],[44]; Figures 1-2B,6	1-18



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/034524

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0238824 A1 (FARAJIDANA AMIR et al.) 23 September 2010 See Claims 1,2,5-7; Paragraphs [18],[56],[58],[59],[79],[82]; Figures 2,5	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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