

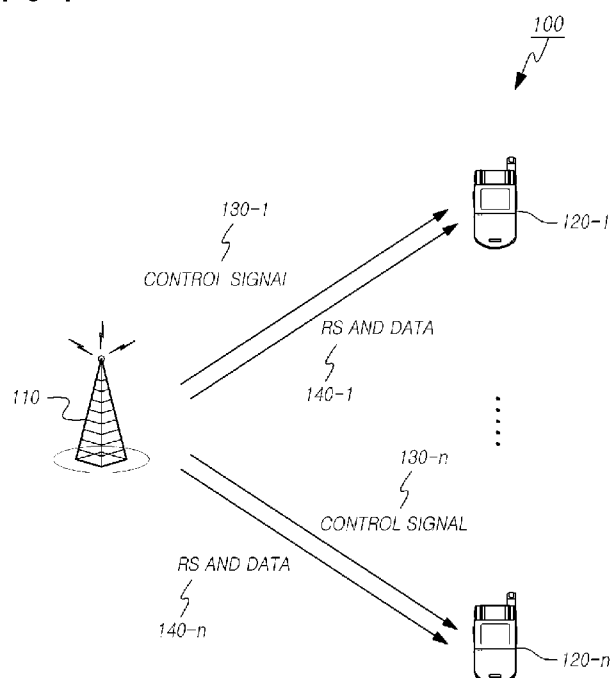


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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR TRANSMITTING/RECEIVING REFERENCE SIGNAL IN WIRELESS COMMUNICATION SYSTEM

[Fig. 1]



(57) **Abstract:** Provided is a method and apparatus for configuring a reference signal (RS), and for transmitting and receiving the RS, in a wireless communication system. When an RS for a predetermined UE is transmitted, RS information may be configured to include a number of layers assigned to the predetermined UE, an antenna port and a scrambling ID for each of the assigned layers, and a total number of layers assigned to the predetermined UE or the UEs, including the predetermined UE, which use the same resource region. Accordingly, when the RS is decoded in the predetermined UE in a MU-MIMO system, the predetermined UE may be aware of interference caused by other UEs and may remove interference and thus, performance of the entire system may be improved.

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INTERNATIONAL SEARCH REPORT

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PCT/KR2012/003268**A. CLASSIFICATION OF SUBJECT MATTER****H04J 11/00(2006.01)i, H04B 7/26(2006.01)i, H04B 7/04(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)

H04J 11/00; H04W 48/12

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: demodulation reference, DM-RS, DRS, reference signal information, resource region

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2011-0043493 A (LG ELECTRONICS INC.) 27 April 2011 See abstract; paragraphs [65]–[67], [80], [87]; claims 1, 8, 9.	1–17
A	LG ELECTRONICS, `DM-RS Design for Higher Order MIMO.` 3GPP TSG RAN WG1 Meeting #58bis, R1-094170, 12–16 October 2009. (Retrieved from the Internet on 09 February 2010: < URL: http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_58b/Docs/R1-094170.zip >) See sections 2, 3.	1–17
A	LG ELECTRONICS, `Remaining issues for DL DM-RS Design.` 3GPP TSG RAN WG1 Meeting #59bis, R1-100646, 18–22 January 2010. (Retrieved from the Internet on 09 February 2010: < URL: http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_59b/Docs/R1-100646.zip >) See sections 2, 3.	1–17



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"&" document member of the same patent family

Date of the actual completion of the international search

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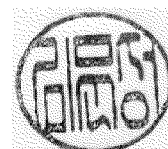
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KR 10-2011-0043493 A

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