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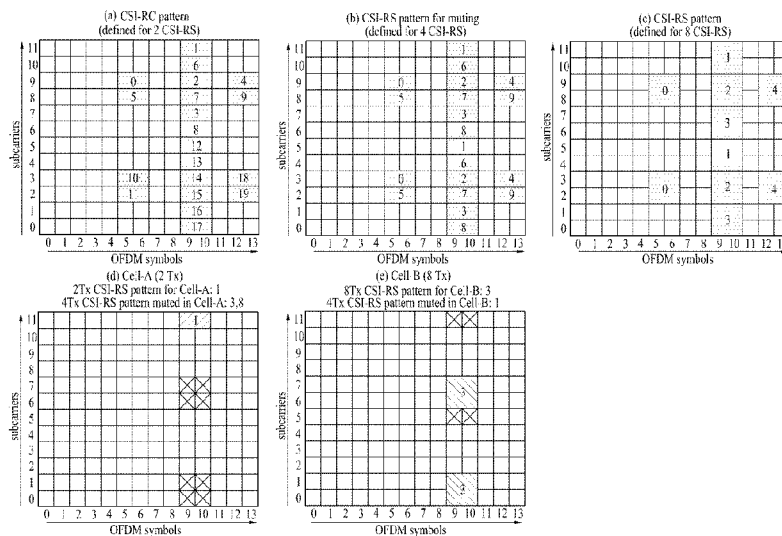
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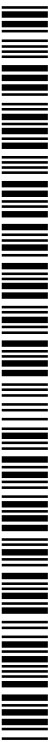
[Continued on next page]

(54) Title: METHOD AND BASE STATION FOR TRANSMITTING DOWNLINK SIGNAL AND METHOD AND EQUIPMENT FOR RECEIVING DOWNLINK SIGNAL

[Fig. 11]



(57) Abstract: A base station of the present invention configures resources in which a downlink signal is to be transmitted with zero power using resource sets defined for a specific number of antenna ports, regardless of the number of antenna ports actually configured in the base station, and transmits resource information indicating the configured resources to a user equipment. The user equipment of the present invention receives a downlink transmission from the base station, assuming that transmission power of resources corresponding to a resource set indicated by the resource information is zero.



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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)

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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) &amp; Keywords: downlink, reference signal, channel measurement, antenna ports

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0195615 A1 (LEE, MOON IL et al.) 05 August 2010 See the abstract; paragraphs [81]-[84]; figures 5-6.	1-12
A	WO 2010-087639 A2 (LG ELECTRONICS INC. et al.) 05 August 2010 See the abstract; paragraphs [54]-[63]; figures 8-12.	1-12
A	KR 10-2010-0056962 A (LG ELECTRONICS INC.) 28 May 2010 See the abstract; paragraphs [62]-[91]; figure 14.	1-12
A	US 2008-0260062 A1 (IMAMURA, KIMHIKO) 23 October 2008 See the abstract; paragraphs [31]-[34]; figures 4-7.	1-12

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

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"&amp;" document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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