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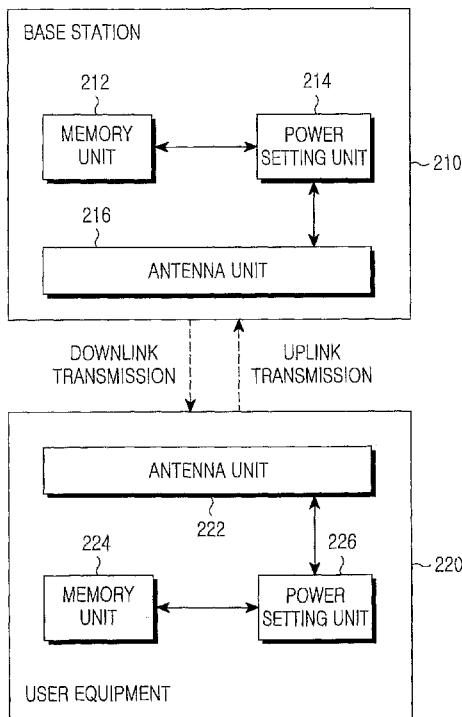
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(54) **Title:** METHODS AND APPARATUS FOR DOWNLINK PDSCH POWER SETTING



(57) **Abstract:** Methods and apparatus for transmitting power setting information in a downlink Physical Downlink Shared Channel (PDSCH) in a communication system. In this communication system, a plurality of methods for calculating traffic-to-pilot ratios (T2P) are established. In addition, a mapping scheme between a plurality of overhead signals and a plurality of reference signal (RS) overhead ratios, η_{RS} and the plurality of T2P calculation methods is established. A user-specific T2P ratio $P_{b,k}/P_{RS}$ for certain OFDM symbols, a RS overhead ratio η_{RS} and a calculation method selected from the plurality of T2P calculation methods are assigned to a wireless terminal. Then, an overhead signal corresponding to both of the assigned RS overhead ratio η_{RS} and the assigned T2P calculation method is selected in accordance with the mapping scheme and is transmitted to the wireless terminal.

FIG. 7

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Korean Utility models and applications for Utility Models since 1975

Japanese Utility models and applications for Utility Models since 1975

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

eKIPASS(KIPO internal) & keywords: "power", "traffic*", "pilot", "down link*"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2007-0117125 A (SAMSUNG ELECTRONICS CO., LTD.) 12 December 2007 See the abstract; claims 1-6; and figures 4-7.	1-20
A	KR 10-2005-0118062 A (SAMSUNG ELECTRONICS CO., LTD.) 15 December 2005 See the abstract; claims 1,13-15; and figures 5,7.	1-20
A	US 2007-0060145 A1 (YOO-SEUNG SONG et al.) 15 March 2007 See the abstract; claims 4-9; and figure 1.	1-20
A	US 2005-0083999 A1 (CHANG-SOO KOO et al.) 21 April 2005 See the abstract; claims 1-8; and figure 2.	1-20

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

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INTERNATIONAL SEARCH REPORT

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 2005-0083999 A1	21.04.2005	None	