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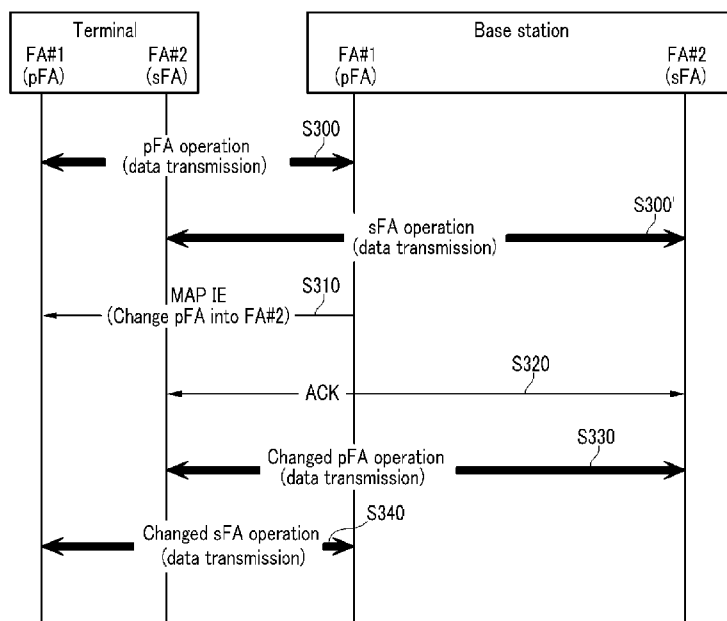
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(54) Title: METHOD OF CHANGING FREQUENCY ASSIGNMENT STATUS IN BROADBAND WIRELESS ACCESS SYSTEM

[Fig. 9]



(57) Abstract: The present invention relates to a method of changing a frequency assignment (FA) status in an improved broadband wireless access system where terminals and base stations can communicate with each other by using a plurality of FAs. In the present invention, the base station changes the status of one of secondary FA into the status of the pFA in order to adjust a load of the primary FA, and communicates with the terminal through the pFA of which status is changed. For this purpose, the base station transmits a MAP information element (IE), which requests the change of the status of the pFA, to the terminal. The MAP IE includes an action code that requests the change of the status of the pFA, and a bit map representing an FA of which status is to be changed. When a response, which represents the completion of the change of the status of the pFA of the base station, is received from the terminal, the base station changes the status of the pFA and communicates with the pFA of the terminal through a new pFA. The status of a previous pFA between the base station and the terminal is changed into the status of the sFA, and the status of one previous sFA between the base station and the terminal is changed into the status of the pFA,

so that communication is performed through new FAs. According to the present invention, since the base station can change the status of a specific terminal and FAs in use according to need, it is possible to adjust loads between the FAs. Further, the base station can change the statuses of the FAs in use while continuously maintaining the access of a specific terminal.



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INTERNATIONAL SEARCH REPORT

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PCT/KR2008/006048**A. CLASSIFICATION OF SUBJECT MATTER****H04B 7/12(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)

IPC : H04B 7/12, H04B 7/26, H04Q 7/20, H04L 12/407

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 since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKIPASS(KIPO internal) & Keywords: "primary FA", "secondary FA", "FA change"**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2004-0046846 A (LG ELECTRONICS INC.) 5 June 2004 see abstract, figs. 1-2 and claims 1-3	1, 5, 13, 14, 21
A	US 2005/0197133 A1 (SEUNG-EUN HONG et al.) 8 September 2005 see abstract, figs. 3-4, and claims 1, 14, 33	1-21
A	KR 10-2005-0017560 A (LG ELECTRONICS INC.) 22 February 2005 see abstract and claims 1-4	1-21

☐ 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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"O" document referring to an oral disclosure, use, exhibition or other means

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

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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Information on patent family members

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KR 10-2004-0046846 A

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NONE

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