Abstract: A mobile station capable of accessing a wireless network comprising a plurality of macro-base stations and a plurality of femto-base stations. The mobile station comprises: 1) a transceiver that communicates with the macro-base stations and femto-base stations; 2) a message processor coupled to the transceiver; and 3) a memory coupled to the message processor that stores a white list of CSGID values associated with at least one closed subscription group to which the mobile station subscribes. The message processor transmits to a first macro-base station a first control message that contains at least one CSGID value from the white list. The message processor receives from the first macro-base station a second control message that contains the information of at least one femto-base station (FBS) identifier associated with the at least one CSGID value. The mobile station uses the information of the at least one FBS identifier to access a first femto-base station associated with the at least one FBS identifier.
INTERNATIONAL SEARCH REPORT

PCT/KR2010/007812

A. CLASSIFICATION OF SUBJECT MATTER

H04B 7/26(2006.01); H04W 16/32(2009.01)

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 7/26; H04W 4/00

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: femto base station, CSGID(Closed Subscriber Group ID), white list, macro base station;

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>Samsung Electronics, &quot;IEEE 802.16m Identifying Femtocells Subscriber Groups&quot;, IEEE 802.16 Broadband Wireless Access Working Group, Session #63, IEEE C80216m-09_1965, 2009.08.28. See all documents.</td>
<td>1-8</td>
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<td>A</td>
<td>ZTE Corporation, &quot;Femto AWD Text Proposal for 15.4.7 Network Entry&quot;, IEEE 802.16 Broadband Wireless Access Working Group, IEEE C802.16m-09/1750r6, 2009.09.02. See all documents.</td>
<td>1-8</td>
</tr>
<tr>
<td>A</td>
<td>ntel Corporation, &quot;LB Comment: An Efficient Method for Femtocell Discovery and Association in IEEE 802.16m Systems&quot;, IEEE 802.16 Broadband Wireless Access Working Group, IEEE C80216m-09/2047r3, 2009.08.29. See all documents.</td>
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Date of the actual completion of the international search 
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