Techniques are disclosed involving media access. For instance, wireless connections may be assigned into one or more groups. The assignments may be based on interference characteristics. Connection(s) within each of these groups may have acceptable interference characteristics with each other. Further, media access may be granted based on these groups. For example, if a device wishes to communicate across one of the connections, access may be granted for concurrent connections among all connections in the corresponding group. The granting of such access may be performed by a centralized controller device, such as an access point.
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/042381

A. CLASSIFICATION OF SUBJECT MATTER

H04B 7/26(2006.01)i, H04W 74/08(2009.01)i, H04W 88/08(2009.01)i, H04W 92/18(2009.01)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)
H04B 7/26; G06F 17/30

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: directional media access, WLAN, CSMA/CA, access point, spatial reuse, 60GHz, access grant;

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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<tr>
<td>A</td>
<td>Ananth Subramanian, et al., &quot;Spatial Reuse Strategies in 60 GHz&quot;, 802.11-10/0230r8, 2010.03.15.</td>
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<tr>
<td>A</td>
<td>Thomas Darhan, et al., &quot;Scheduled Spatial Reuse with Collaborative Beamforming&quot;, IEEE 802.11-10/0487r1, 2010.05.16.</td>
<td>1-20</td>
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<tr>
<td>A</td>
<td>Junyi Fang, et al., &quot;A Flexible Beam Training Protocol for 60GHz mm-Wave Communication (TGad)&quot;, IEEE 802.11-10/0496r1, 2010.05.17.</td>
<td>1-20</td>
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* Special categories of cited documents:
  "A" document defining the general state of the art which is not considered to be of particular relevance
  "E" earlier application or patent but published on or after the international filing date
  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
  "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
  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
  "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
  "R" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

Name and mailing address of the ISA/KR
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SEONG, KYOUNG A
Telephone No. 82-42-481-8171

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<tr>
<td>US 2009-0228983</td>
<td>10.09.2009</td>
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