Title: METHOD FOR SUPPORTING A PLURALITY OF SUBSCRIBERS OPERATING ON DIFFERENT FREQUENCY BANDS USING A SINGLE ACCESS POINT

Abstract: The present invention allows a single access point ("AP"; 100) to support a plurality of devices (102, 104) operating on different frequency bands. During a first period of time, the AP initiates a contention free period at a first frequency. The AP switches from the first frequency to a second frequency, and communicates with devices operating at the second frequency. Periodically during the first period of time, the AP temporarily ceases communication with devices operating at the second frequency to initiate a contention free period at the second frequency, switch from the second frequency to the first frequency, initiate another contention free period at the first frequency, and switch from the first frequency back to the second frequency.
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC: H04B 7/204(2006.01)
USPC: 370/400,401,445,446,447,461,462
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)
U.S.: 370/400,401,445,446,447,461,462

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

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>
</thead>
</table>

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

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Date of the actual completion of the international search
16 April 2006 (16.04.2006)

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