(54) Title: SYSTEM, METHOD AND APPARATUS FOR ASCERTAINING A DYNAMIC ATTRIBUTE OF A SYSTEM

(57) Abstract: The performance and ease of management of wireless communications environments is improved by a mechanism that enables access points (Aps, 12) to perform automatic channel selection. A wireless network can therefore include multiple Aps (12), each of which will automatically choose a channel such that channel usage is optimized. Furthermore, Aps (12) can perform automatic power adjustment so that multiple AP (12) can operate on the same channel while minimizing interference with each other. Wireless stations (16) are load balanced across Aps (12) so that user bandwidth is optimized. A movement detection scheme provides seamless roaming of stations between Aps (12).

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/04773

A. CLASSIFICATION OF SUBJECT MATTER
   IPC(7) : H04J 3/16
   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)

   Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
      NONE

   Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
      NONE

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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<td>A,P</td>
<td>US 6,760,748 B1 (HAKIM) 06 July 2004, see details of figure 1.</td>
<td>1</td>
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Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search

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