Title: WIRELESS LOCAL AREA NETWORK (WLAN) AS A PUBLIC LAND MOBILE NETWORK FOR WLAN/TELECOMMUNICATIONS SYSTEM INTERWORKING

Abstract: A telecommunications system includes a Public Land Mobile Network (PLMN 12) for providing wireless service to users, and a wireless local area network (WLAN 14) functioning outside the said PLMN as a separate PLMN. An inter-PLMN backbone (18) interfaces the WLAN to the PLMN, and an interworking function is coupled to the WLAN (14) to provide seamless interactions between the PLMN (12) and the WLAN to increase available service bandwidth provided for users of the PLMN.
Published:
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
22 January 2004

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(7) : H04Q 7/20; H04M 11/00
US CL. : 455/433, 432.1, 557, 466, 426.2

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.: 455/433, 432.1, 557, 466, 426.2

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)
EAST SEARCH

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>
<tbody>
<tr>
<td>Y</td>
<td>US 6,256,498 B1 (LUDWIG) 03 JULY 2001 (03.07.2001), COL. 5, LINE 31 TO COL. 7, LINE 59.</td>
<td>1-15</td>
</tr>
<tr>
<td>Y</td>
<td>US 6,212,390 B1 (RUNE) 03 APRIL 2001 (03.04.2001), COL. 5, LINE 13 TO COL. 10, LINE 11.</td>
<td>1-15</td>
</tr>
</tbody>
</table>

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

*B* earlier application or patent published on or after the international filing date

*L* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another 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

*E* document member of the same patent family

Date of the actual completion of the international search: 17 September 2003 (17.09.2003)

Authorized officer: KEAN A GELIN

Date of mailing of the international search report: 5 NOV 2003

Telephone No. (703) 305-4847

Form PCT/ISA/210 (second sheet) (July 1998)