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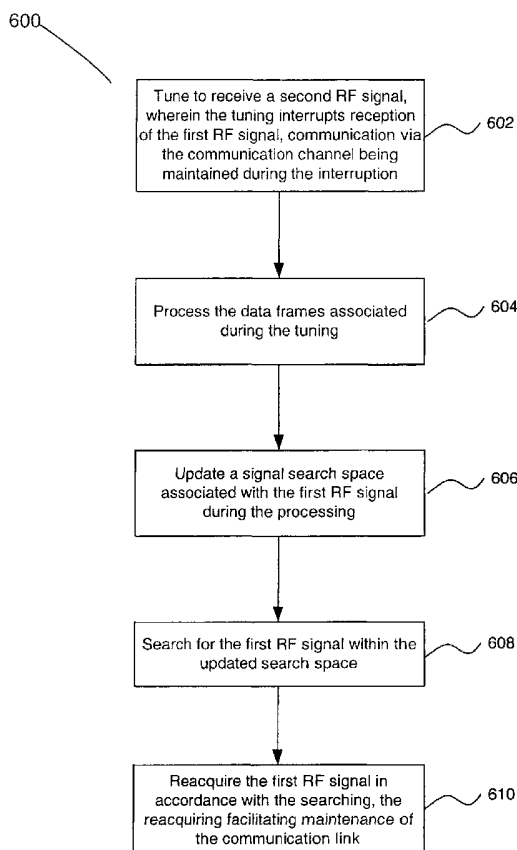
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- (74) Agents: WADSWORTH, Philip R. et al.; 5775 Morehouse Drive, San Diego, CA 92121 (US).
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- (71) Applicant: QUALCOMM, INCORPORATED [US/US]; 5775 Morehouse Drive, San Diego, CA 92121 (US).
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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR LEAVING A COMMUNICATION CHANNEL IN A WIRELESS COMMUNICATIONS SYSTEM



(57) Abstract: A method and system for reliably returning to a traffic channel in a wireless communications system after performing E911 GPS measurements is provided. The method establishes a communications link using a device in a communications system having at least one communication channel. The device also includes a processor and a tuner and is configured to establish communication over the communication channel. The communication is based upon receiving a first radio frequency (RF) signal including data frames. The method includes tuning to receive a second RF signal, wherein the tuning interrupts reception of the first RF signal. The communication over the communication channel is maintained during the interruption. The method also includes processing the data frames during the tuning, updating a signal search space associated with the first RF signal during the processing, and searching for the first RF signal within the updated search space. The first RF signal is then re-acquired in accordance with the searching.

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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

International Application No
PCT/US 03/25011

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/26

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)
IPC 7 H04B H04Q

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 practical, search terms used)
EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 794 155 A (OLDS KEITH ANDREW ET AL) 11 August 1998 (1998-08-11) abstract column 1, line 14 -column 2, line 7 column 2, line 31 -column 4, line 34 column 7, line 51-63 column 11, line 48 -column 12, line 33 ---	1-14
A	WO 99 41934 A (QUALCOMM INC) 19 August 1999 (1999-08-19) abstract page 1, line 18-31 page 2, line 2-30 page 7, line 35 -page 9, line 8 claims --- -/--	1-14

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° 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 document but published on or after the international filing date
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- "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.
- "&" document member of the same patent family

Date of the actual completion of the international search

1 April 2004

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/25011

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 57580 A (ERICSSON INC) 28 September 2000 (2000-09-28) abstract page 6, line 3 -page 9, line 6 page 14, line 6 -page 18, line 16 ---	1-14
A	WO 96 02092 A (QUALCOMM INC) 25 January 1996 (1996-01-25) abstract page 1, line 32 -page 2, line 18 page 4, line 1 -page 5, line 18 page 5, line 35 -page 6, line 19 figure 4 ---	15-37
A	US 6 212 398 B1 (HENRY JR RAYMOND C ET AL) 3 April 2001 (2001-04-03) the whole document ---	15-27
A	WO 01 76089 A (QUALCOMM INC) 11 October 2001 (2001-10-11) abstract page 4, line 31 -page 6, line 20 claims ---	15-27
A	JP 2000 196678 A (NEC CORP) 14 July 2000 (2000-07-14) -& US 6 590 875 B1 (NEC CORPORATION) 8 July 2003 (2003-07-08) abstract column 2, line 24 -column 3, line 15 column 4, line 26-38 column 10, line 43-57 claims ---	15-27
A	EP 0 817 403 A (MATSUSHITA ELECTRIC IND CO LTD) 7 January 1998 (1998-01-07) abstract column 3, line 52 -column 4, line 50 column 5, line 46 -column 7, line 19 figure 3 claims ---	28-37
A	US 5 937 349 A (ANDRESEN MICHAEL J) 10 August 1999 (1999-08-10) abstract column 2, line 55 -column 5, line 4 column 8, line 47-50 column 12, line 55 -column 14, line 13 ---	28-37
A	US 6 101 173 A (BAYLEY GWAIN) 8 August 2000 (2000-08-08) the whole document ---	28-37
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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/25011

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 615 236 A (TURNEY PAUL F) 25 March 1997 (1997-03-25) the whole document -----	28-37

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 03/25011

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-14

Method, apparatus and computer readable medium for maintaining a first communication link while acquiring a second communication link for a short time period.

2. Claims: 15-27

Method, apparatus and computer readable medium for resuming communication over a traffic channel under pre-programmed conditions.

3. Claims: 28-37

Method, apparatus and computer readable medium for accelerating the reacquisition of a communication channel after termination of a communication link by storing periodically state information related to said communication link.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/US 03/25011

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 5615236	A	25-03-1997	NONE				