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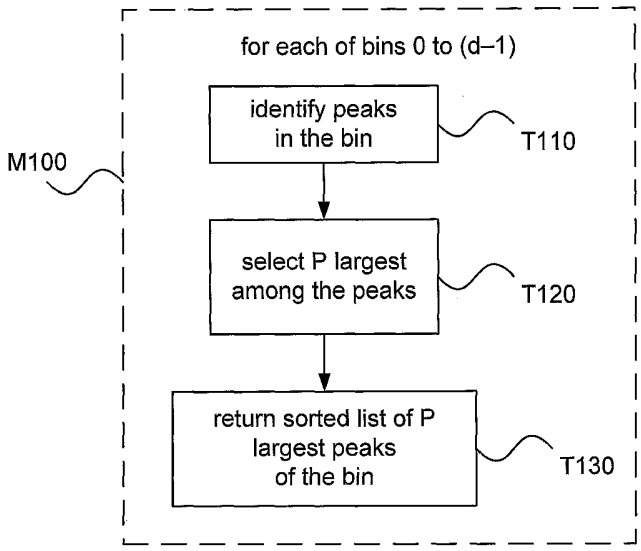
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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

[Continued on next page]

(54) Title: SYSTEMS, METHODS, AND APPARATUS FOR JAMMER REJECTION



(57) Abstract: A method according to an embodiment obtains a list of peaks for each of a number of frequency hypotheses. Each peak has an energy result and corresponds to a code phase hypothesis. Embodiments include methods and apparatus that may be used in identifying a location of a signal (such as a GPS signal) in a two-dimensional search space. Location information may be further applied to operations such as signal acquisition, signal tracking, position location of a receiver, and timing operations such as the synchronization of one or more other processes.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

— *with international search report*

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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/US2005/043529

A. CLASSIFICATION OF SUBJECT MATTER
INV. G01S1/00 H04B1/707

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)
G01S H04B

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2003/193992 A1 (CHALLA RAGHU ET AL) 16 October 2003 (2003-10-16) abstract figure 8 paragraphs [0028], [0035], [0044], [0063], [0067]	1,2, 17-22,28 3
Y	US 2003/128747 A1 (POON WANG PAUL ET AL) 10 July 2003 (2003-07-10) abstract paragraphs [0100], [0101]	3
A	WO 2004/005954 A (QUALCOMM, INCORPORATED) 15 January 2004 (2004-01-15) paragraph [0152] - paragraph [0159]	1-3, 17-22,28

☐ 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

"E" earlier document 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 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.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
16 May 2006	23. 08. 2006

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Ó Donnabháin, C

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/043529

Box II Observations where certain claims were found unsearchable (Continuation of item 2 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 III Observations where unity of invention is lacking (Continuation of item 3 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.:

1-3, 12, 13, 15, 17-22, 28

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: 1-3, 12, 13, 15, 17-22,28

   Ordering a list of peaks

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2. claims: 4-11, 16, 25-27, 31-33

   Rejecting interfering / jamming signals

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3. claim: 14

   Overcoming multipath

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4. claims: 23, 29

   Defining a noise floor

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5. claims: 24, 30

   Synchronisation and/or Determining distance

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2005/043529

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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