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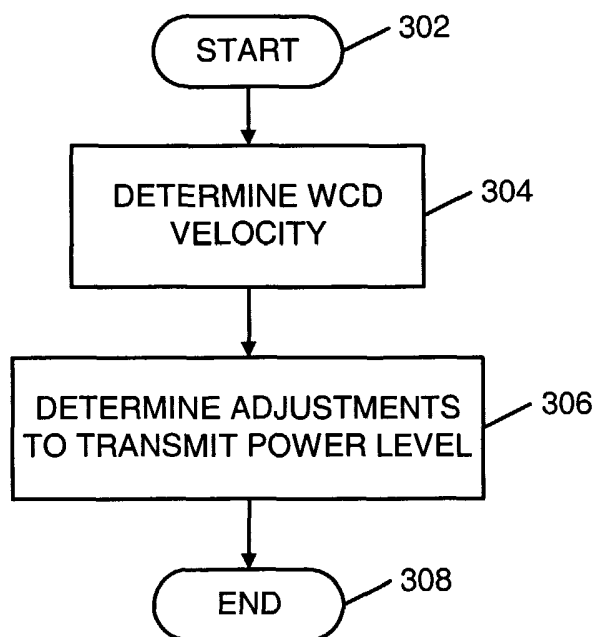
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(54) Title: ADJUSTING TRANSMIT POWER IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: A method and apparatus are provided for determining adjustments to be made to a transmitter based on the velocity or location of a wireless communication device in relation to a wireless network infrastructure. The transmitter to be adjusted can be located in either the wireless communication device, or in a device in the wireless communication infrastructure, or both.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/20405

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B7/005

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

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, PAJ, 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	WO 01/031824 A (SK TELECOM CO LTD ;KIM BYUNG MOO (KR); LEE DONG DO (KR); LEE SANG) 3 May 2001 (2001-05-03) page 1, line 5 - line 17 page 3, line 5 - page 4, line 4 page 5, line 1 - line 20 figures 3,4	1,2,18
X	US 2001/010686 A1 (KUBO TOKUROU ET AL) 2 August 2001 (2001-08-02) paragraphs [0011], [0037], [0040], [0042], [0043] figure 1	1,2,18

☒ 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
- "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

17 October 2003

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	EP 1 233 541 A (NIPPON ELECTRIC CO) 21 August 2002 (2002-08-21) paragraphs [0001], [0005], [0013], [0027], [0041], [0044], [0050], [0055], [0062], [0065], [0067] - [0069], [0076], [0080], [0091], [0093] paragraph [0093] - paragraph [0096] figures 1,4 -----	1,2,18

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 03/20405

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.:

1, 2, 18

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: 1,2,18

Prediction of future signal power

2. claims: 3,29-35,36-42

Determination of integration intervals

3. claims: 4,19

Application of method according claim 1 in wireless
communication unit

4. claims: 5,20,47,48,50-52

Application of method according claim 1 in infrastructure
device

5. claims: 6,7,21,22,43-46,49

Navigational receiver

6. claims: 8,23,24-28

Location measurements

7. claims: 9-17

Control of update frequency

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/20405

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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EP 1233541	A	21-08-2002	JP 2002246982 A CN 1371220 A EP 1233541 A2 US 2002115465 A1	30-08-2002 25-09-2002 21-08-2002 22-08-2002