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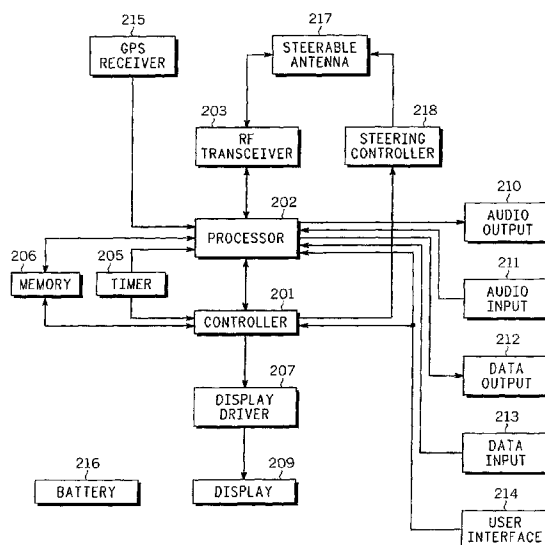
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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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.

(54) Title: MOBILE STATION, SYSTEM AND METHOD FOR USE IN WIRELESS COMMUNICATIONS



101

(57) Abstract: A mobile station (101) for use in a wireless communication system (100) includes a steerable antenna (217), means (215) for obtaining location information relating to a current location of the mobile station and a steering controller (218) for controlling a pointing direction of the steerable antenna using the location information and characterised in that the mobile station includes a memory (206) holding a database of optimal pointing directions of the steerable antenna for given locations and the steering controller is operable to steer the antenna to the optimal pointing direction indicated in the database for the current location. Also described is a system and a method in which the mobile station operates.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/49349

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04Q 7/20 (2007.01)

USPC - 455/517

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(8) - H04Q 7/20 (2007.01)

USPC - 455/517, 525, 436

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 practicable, search terms used)

USPTO WEST System (US, USPG-PUB, EPO, DERWENT), MicroPatent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0277443 A1 (OZLUTURK) 15 December 2005 (15.12.2005) entire document	1-3
X	US 6,813,508 B1 (SHIODA et al) 02 November 2004 (02.11.2004) entire document	13-15 and 19-20
A	US 6,026,304 A (HILSENATH et al) 15 February 2000 (15.02.2000) entire document	1-3, 13-25 and 19-20
A	US 6,795,710 B1 (CREEMER) 21 September 2004 (21.09.2004) entire document	1-3, 13-25 and 19-20

☐ Further documents are listed in the continuation of Box C.

* 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 application or patent 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

01 August 2007

Date of mailing of the international search report

11 OCT 2007

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/49349

Box No. 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.: 4-12 and 16-18
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. 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:

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 additional fees, this Authority did not invite payment of additional fees.
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 and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.