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(71) Applicant: QUALCOMM INCORPORATED [US/US];
5775 Morehouse Drive, San Diego, CA 92121-1714 (US).

(72) Inventors: JUDSON, Bruce, A.; 66 Highland Drive, San
Luis Obispo, CA 93405 (US). RIDDLE, Christopher;
11041 Ironwood Road, San Diego, CA 92131 (US).

(74) Agents: WADSWORTH, Philip, R. et al.; Qualcomm In-
corporated, 5775 Morehouse Drive, San Diego, CA 92121-
1714 (US).

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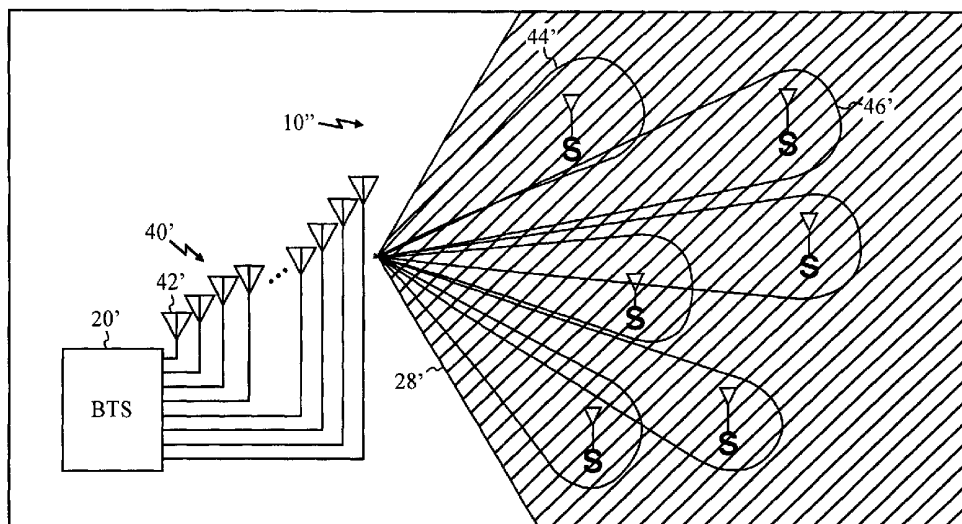
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(54) Title: METHOD AND APPARATUS FOR USING POSITION LOCATION TO DIRECT NARROW BEAM ANTENNAS



(57) Abstract: A mobile unit, which communicates with a new and advantageous base station. The mobile unit includes a system for generation of position information and a transceiver for transmitting the position information. In the preferred embodiment, the transceiver is a CDMA system and the system for generating position information includes an arrangement for receiving a GPS signal. In the preferred embodiment, a GPS assisted arrangement is employed which is adapted to receive a signal from an airborne platform as well as from a satellite based platform. The base station is adapted to receive position information from a remote unit and provide a received position signal in response thereto. The base station is further equipped with a mechanism for directing a beam in response to the received position signal. In the illustrative embodiment, the mechanism for directing the beam is a smart antenna system including an antenna array and a beamforming network for driving the array to output the directed beam.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/38

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 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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 16077 A (BROADSTONE STEVEN R ;VELAZQUEZ SCOTT R (US); TERATECH CORP (US); C) 16 April 1998 (1998-04-16) page 12, line 17 -page 15, line 1; figure 9	1-21
X	US 6 026 304 A (HILSEN RATH OLIVER ET AL) 15 February 2000 (2000-02-15) column 5, line 23 - line 25 column 5, line 65 -column 6, line 23 column 9, line 3 - line 17; figure 4	1-21
X	US 6 141 542 A (KOTZIN MICHAEL D ET AL) 31 October 2000 (2000-10-31) column 1, line 16 - line 30 column 11, line 2 - line 20 column 12, line 61 - line 66	1-21

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Patent family members are listed in annex.

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Name and mailing address of the ISA

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

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Information on patent family members

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