



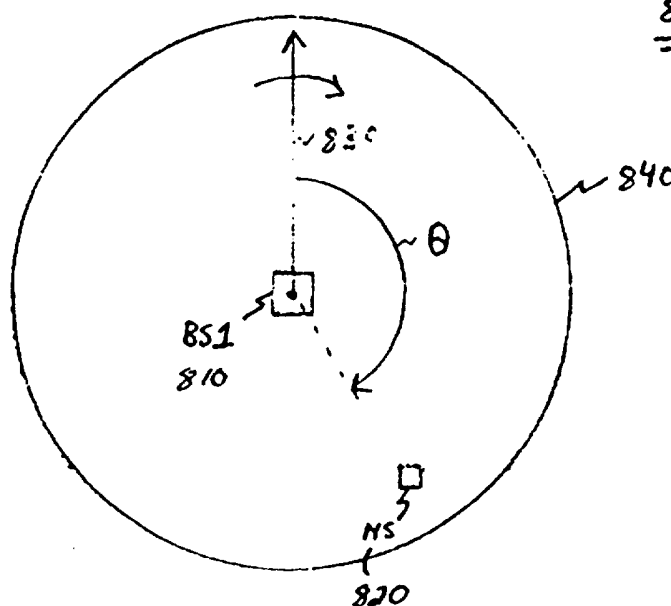
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659,408	6 June 1996 (06.06.96)	US	
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(71) Applicant: QUALCOMM INCORPORATED [US/US]; 6455 Lusk Boulevard, San Diego, CA 92121 (US).		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
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		(88) Date of publication of the international search report: 26 March 1998 (26.03.98)	

(54) Title: USING A SIGNAL WITH INCREASED POWER FOR DETERMINING THE POSITION OF A MOBILE SUBSCRIBER IN A CDMA CELLULAR TELEPHONE SYSTEM

(57) Abstract

A method for determining the position of a mobile station (820) within a cellular telephone system having a plurality of base stations (810). A signal is transmitted at a low power level from the mobile station (820). The strength of the signal is then temporarily increased from the low power level to an increased power level, and the signal is temporarily transmitted from the mobile station (820) at this increased power level. While the signal is being temporarily transmitted from the mobile station (830) at the increased power level, the signal is used to make at least a first positional measurement. The position of the mobile station (830) is determined in accordance with the first positional measurement.



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INTERNATIONAL SEARCH REPORT

Intern al Application No

PCT/US 97/10055

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q7/32 H04Q7/22 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 6 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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	- / - -	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *Z* document member of the same patent family

Date of the actual completion of the international search

27 November 1997

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 97/10055

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 508 708 A (GHOSH AMITAVA ET AL) 16 April 1996	1-4, 17-28, 114
A	<p>see column 2, line 10 - line 24</p> <p>see column 2, line 33 - column 3, line 16</p> <p>see column 3, line 37 - column 4, line 17</p> <p>see column 4, line 26 - line 42</p> <p>see column 5, line 9 - line 44</p> <p>see column 5, line 58 - line 63</p> <p>see column 6, line 10 - line 40</p> <p>see column 6, line 56 - column 7, line 17</p> <p>see column 7, line 50 - line 61</p> <p>see column 8, line 3 - line 7</p> <p>see column 8, line 13 - line 17</p> <p>see column 8, line 25 - line 30</p> <p>see column 8, line 66 - column 9, line 33</p> <p>see column 9, line 41 - line 66</p> <p>see column 10, line 48 - line 50</p> <p>see column 11, line 13 - line 20; figures 7,8</p> <p style="text-align: center;">---</p>	5-8
A	<p>US 5 365 544 A (SCHILLING DONALD L) 15 November 1994</p> <p>see column 2, line 17 - line 44</p> <p>see column 6, line 11 - line 15</p> <p>see column 12, line 38 - line 49</p> <p>see column 13, line 1 - line 18</p> <p>see column 13, line 61 - column 14, line 3</p> <p>see column 15, line 30 - line 41; claims 1,2</p> <p style="text-align: center;">---</p>	9
X	WO 95 00821 A (OMNIPLEX INC) 5 January 1995	114
A	<p>see page 3, line 16 - line 25</p> <p>see page 6, line 17 - line 34</p> <p style="text-align: center;">-----</p>	1,9,29

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 97/10055

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.:

1-29, 114

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

1. Claims: 1-29,114

2. Claims: 30-40

3. Claims: 41-57

4. Claims: 58-63

5. Claims: 64-71

SEE ANNEX

6. Claims: 72-80

7. Claims: 81-89

8. Claims: 90-98

9. Claims: 99-113

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 97/10055

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