

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
13 June 2002 (13.06.2002)

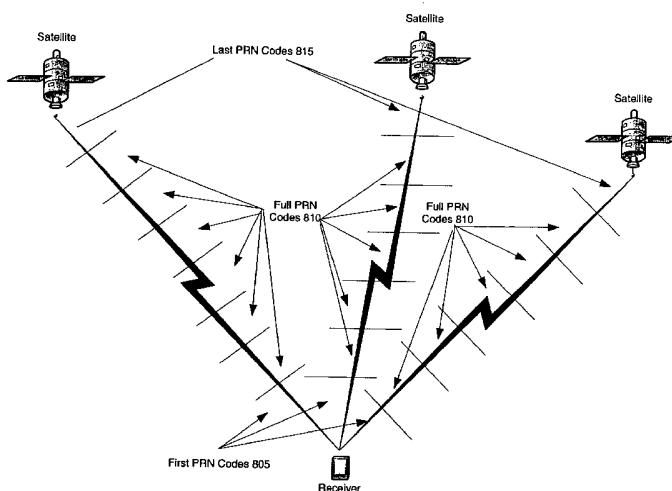
PCT

(10) International Publication Number  
**WO 02/046786 A3**

- (51) International Patent Classification<sup>7</sup>: **G01S 5/14**
- (21) International Application Number: PCT/US01/45828
- (22) International Filing Date: 3 December 2001 (03.12.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
09/730,324 4 December 2000 (04.12.2000) US  
09/885,870 20 June 2001 (20.06.2001) US
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— 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

[Continued on next page]

(54) Title: LOCATION-DETERMINATION METHOD AND APPARATUS



(57) Abstract: Some embodiments of the invention provide a location-determination system that includes several transmitters and at least one receiver. Each transmitter transmits a signal that includes a unique periodically-repeating component, and the receiver receives a reference signal. Based on the received reference signal, the location-determination system identifies an estimated location of the receiver as follows. For each transmitter in a set of transmitters, the system computes a phase offset between the received reference signal and a replica of the transmitter's periodically-repeating component. The system also identifies an approximate location of the receiver and an approximate receive time for the received signal. The system then uses the identified approximate location and time, and the computed phase offsets, to compute pseudoranges for the set of transmitters. Finally, the system identifies the estimated location of the receiver by using the computed pseudoranges.



WO 02/046786 A3



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**(88) Date of publication of the international search report:**  
31 October 2002

*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/US 01/45828

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01S5/14

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 G01S

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	WO 00 58748 A (ERICSSON INC) 5 October 2000 (2000-10-05) Summary of the Invention page 11, line 6 -page 12, line 2 page 13, line 2 -page 16, line 15 page 21, line 19 - line 31 page 30, line 18 - line 22 ---	1-25
A	WO 00 10028 A (ERICSSON INC) 24 February 2000 (2000-02-24) page 6, line 15 - line 21 page 7, line 14 - line 16 page 10, line 22 - line 29 page 16 -page 30 ---	1-25
A	EP 0 902 300 A (LUCENT TECHNOLOGIES INC) 17 March 1999 (1999-03-17) the whole document -----	1-25

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Patent family members are listed in annex.

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Date of the actual completion of the international search

15 August 2002

Date of mailing of the international search report

23/08/2002

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International Application No

PCT/US 01/45828

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