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- (71) Applicant: TRUEPOSITION, INC. [US/US]; 780 Fifth Avenue, King of Prussia, PA 19406 (US).
- (72) Inventor: ANDERSON, Robert, J.; 704 Deer Run, Norristown, PA 19403 (US).
- (74) Agent: RAYMOND, Scott, N., Jr.; Woodcock Washburn LLP, One Liberty Place - 46th Floor, Philadelphia, PA 19103 (US).

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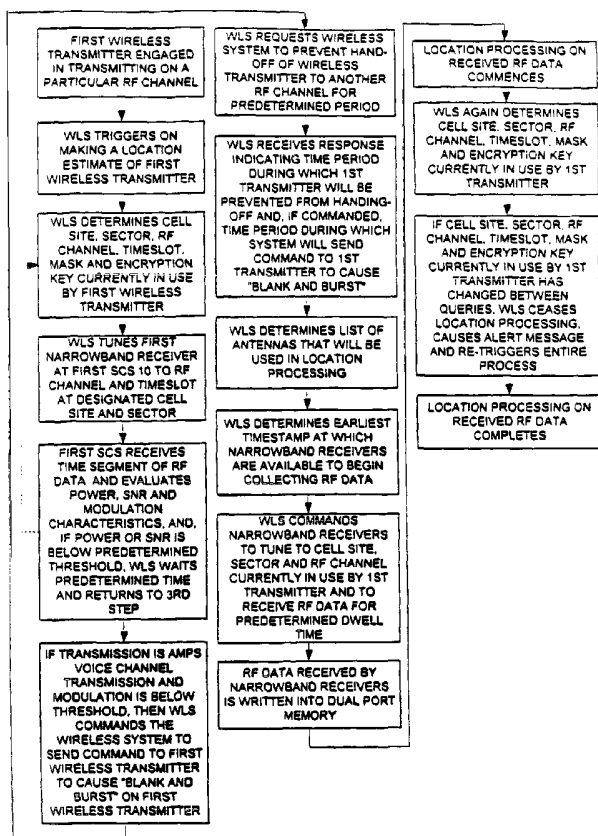
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(54) Title: AUTOMATIC SEQUENTIAL TUNING OF NARROWBAND RECEIVERS OF A WIRELESS LOCATION SYSTEM FOR VOICE/TRAFFIC CHANNEL TRACKING



(57) Abstract: In a wireless location system, narrowband (10-2) receivers are used in a mode, known as automatic sequential tuning, in which the receivers are tuned sequentially and in unison to a plurality of predefined RF channels. Signal transmissions in these channels are digitally recorded and used in location processing. A location record or report is generated to identify an estimated location of one or more wireless transmitters. The identity of the located transmitter(s) is determined by matching the location record to data indicating which wireless transmitters were in use at a time corresponding to the location record, and which cell sites and RF channels were used by each wireless transmitter. This method is especially suited for voice or traffic channel tracking of wireless mobile transmitters, such as cellular telephones.



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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01S 3/02  
US CL : 342/465, 463

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)

U.S. : 342/450, 451, 457, 463, 465; 455/456.1, 457

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,608,410 A (STILP et al) 4 March 1997 (04.03.97)	1-28
A	US 5,327,144 A (STILP et al) 5 July 1994 (05.07.94)	1-28

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

☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Dao L. Phan

Telephone No. (703) 306-4167

# INTERNATIONAL SEARCH REPORT

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**Continuation of Item 4 of the first sheet:**

More than 7 words long

Automatic Sequential Tuning of Narrowband Receivers