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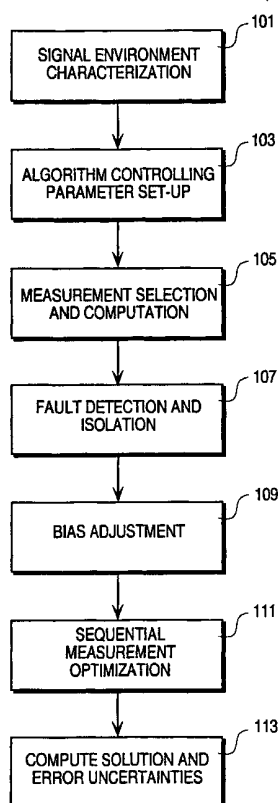
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(54) Title: METHOD AND APPARATUS FOR MEASUREMENT PROCESSING OF SATELLITE POSITIONING SYSTEM (SPS) SIGNALS

MEASUREMENT PROCESSING ALGORITHM (MPA)



(57) Abstract: A method and apparatus is disclosed for measurement processing of Satellite Positioning System (SPS) signals. A plurality of SPS signals from a corresponding plurality of SPS satellites are received in an SPS receiver. The signal environment corresponding to the location in which the SPS receiver is located is characterized to produce signal environment data. In one exemplary embodiment, an information source, such as a cellular network based database, is searched to retrieve the signal environment data given an approximate location of the GPS receiver. This approximate location may be specified by a location of a cell site which is in cellular radio communication with a cellular communication device which is co-located with the GPS receiver. One or more parameters related to signal characteristics of the satellite signals are defined. Threshold values for the parameters are determined using the signal environment data. Code phases corresponding to times of arrival of respective satellite signals from the plurality of satellites are measured. The data representing measured times of arrival are examined using threshold values for the parameters to produce a set of times of arrival from which a location fix for the GPS receiver is calculated. Other methods and apparatuses for other embodiments of the invention are also described.



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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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, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 692 008 A (VAN NEE RICHARD D J) 25 November 1997 (1997-11-25)	1,2,24, 26-28, 39-42, 46-48
Y	column 3, line 3 - line 12	6-8,21, 49
A	column 4, line 1 - line 13	5,10-15, 18,19, 22,32, 50-53, 56,61,64
	column 5, line 54 - line 64; figures 4,5 ---	
Y	WO 98 25157 A (SNAPTRACK INC) 11 June 1998 (1998-06-11)	6-8,21, 49
A	page 4, line 1 -page 6, line 15 -----	21,23, 33-35,57



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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information on patent family members

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