



US005945944A

United States Patent [19]
Krasner

[11] Patent Number: 5,945,944
[45] Date of Patent: Aug. 31, 1999

[54] METHOD AND APPARATUS FOR DETERMINING TIME FOR GPS RECEIVERS

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[21] Appl. No.: 08/845,545

[22] Filed: Apr. 24, 1997

Related U.S. Application Data

[63] Continuation-in-part of application No. 08/842,559, Apr. 15, 1997, and a continuation-in-part of application No. 08/612,582, Mar. 8, 1996, Pat. No. 5,874,914, and a continuation-in-part of application No. 08/759,523, Dec. 4, 1996, Pat. No. 5,841,396.

[51] Int. Cl.⁶ H04B 7/185; G01S 5/02

[52] U.S. Cl. 342/357.06; 342/357.1; 703/213

[58] Field of Search 342/357, 357.06, 342/357.1; 701/213, 214

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[57] ABSTRACT

A method and apparatus of determining the time for a global positioning system receiver is disclosed. Timing signals derived from a communication system, such as cellular phone transmission signals, are received by a GPS receiver and decoded to provide accurate time information. The timing signals may be in the form of synchronized events marked by timing indicators, or as system time information. The timing signals in combination with satellite position signals received by the GPS receiver are used to determine the position of the GPS receiver.

32 Claims, 9 Drawing Sheets

