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# (12) United States Patent

Vyas et al.

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## (54) PARTIAL ALMANAC COLLECTION SYSTEM

(75) Inventors: **Hemali Vyas**, South Pasadena, CA

(US); Gengsheng Zhang, Cupertino, CA (US); Chiayee Steve Chang, San Jose, CA (US); Lionel Jacques Garin, Palo Alto, CA (US); Ashutosh Pande,

San Jose, CA (US)

(73) Assignee: SiRF Technology, Inc., San Jose, CA

(US)

(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 10/666,551

(22) Filed: Sep. 18, 2003

#### Related U.S. Application Data

- (63) Continuation-in-part of application No. PCT/US03/ 25821, filed on Aug. 15, 2003.
- (60) Provisional application No. 60/403,836, filed on Aug. 15, 2002.
- (51) Int. Cl.

**G01S 5/04** (2006.01)

- (52) **U.S. Cl.** ...... 342/357.12; 342/357.13

See application file for complete search history.

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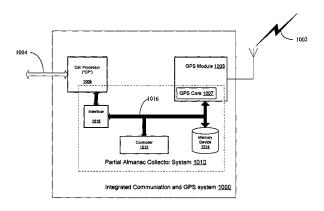
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Primary Examiner—Dao Phan (74) Attorney, Agent, or Firm—The Eclipse Group LLP

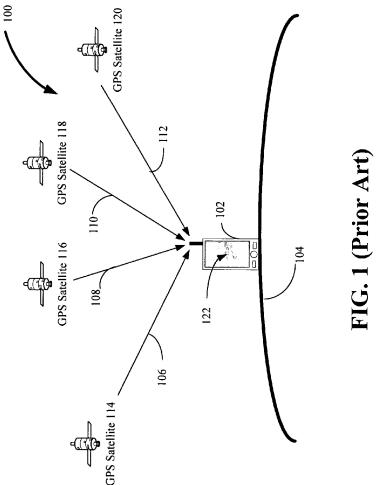
#### (57) ABSTRACT

A partial almanac collection system is disclosed. The partial almanac collection system includes a global positioning system ("GPS") module, and a controller in signal communication with the GPS module and the call processor, the controller instructing the GPS module to collect piecewise almanac data in response to a request from the call processor.

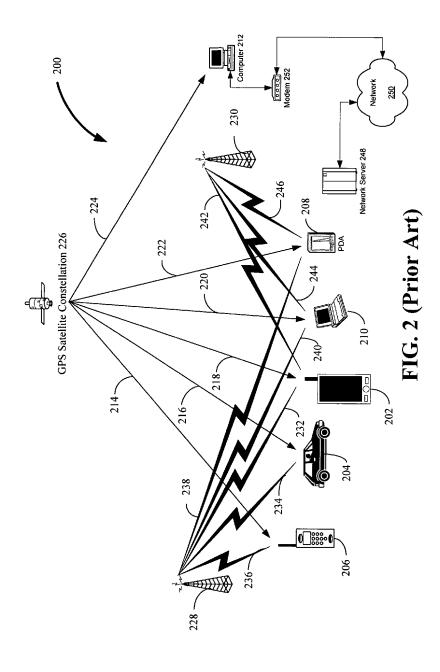
#### 98 Claims, 16 Drawing Sheets



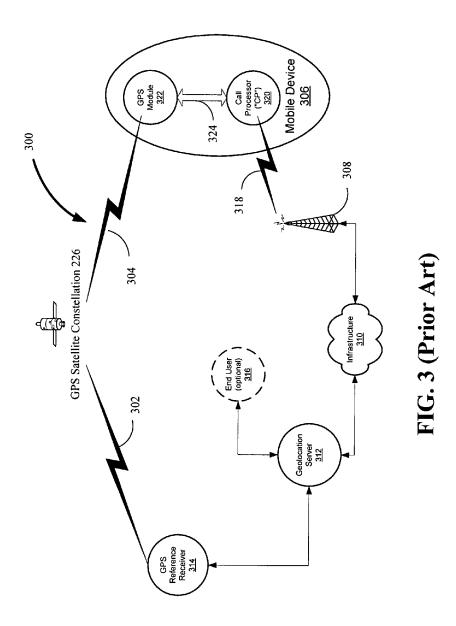




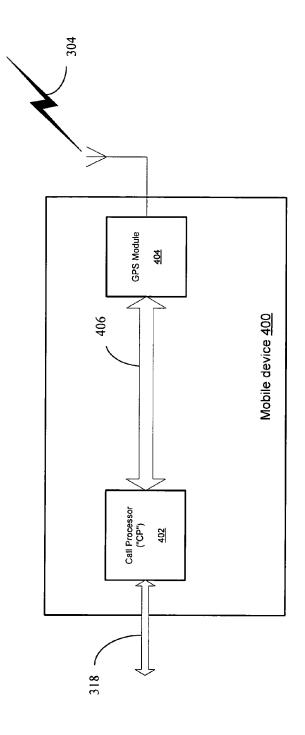












**FIG. 4** 

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