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## (12) United States Patent

#### Vyas et al.

#### (54) PARTIAL ALMANAC COLLECTION SYSTEM

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- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
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#### **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

701/213, 215

See application file for complete search history.

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#### (45) **Date of Patent:** Jul. 3, 2007

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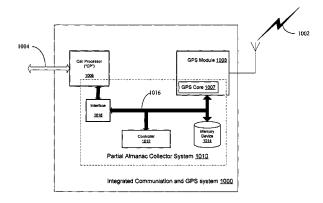
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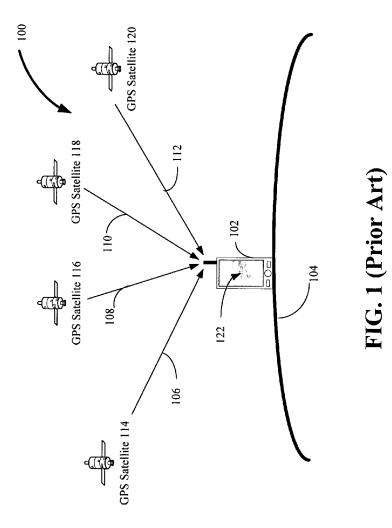
Primary Examiner—Dao Phan (74) Attorney, Agent, or Firm—The Eclipse Group LLP

#### (57) ABSTRACT

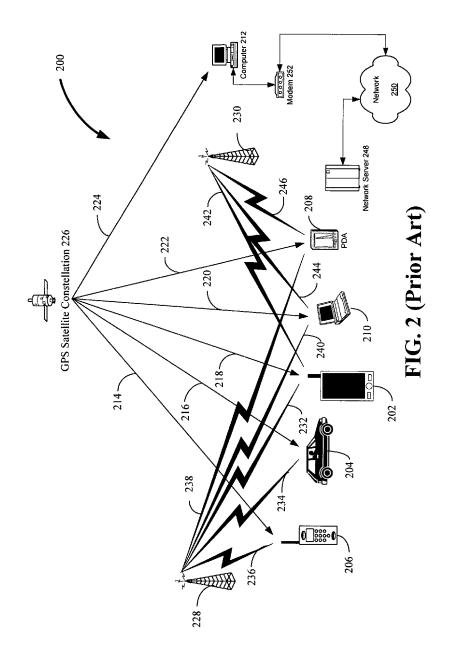
A partial almanac collection system is disclosed. The partial almanac collection system includes a global positioning system ("GPS") module, and a controller in signal communication with the GPS module and the call processor, the controller instructing the GPS module to collect piecewise almanac data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

#### 98 Claims, 16 Drawing Sheets

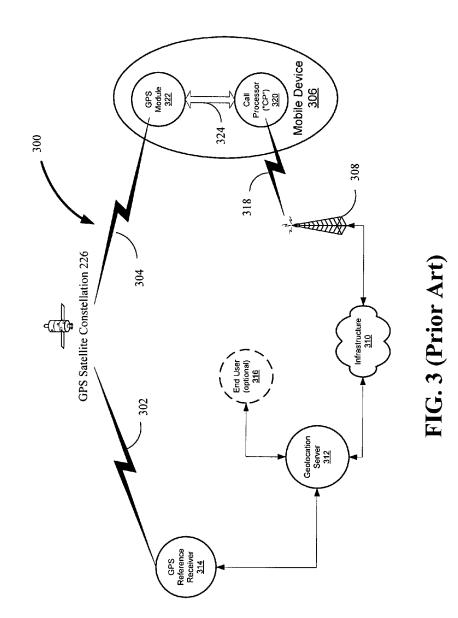




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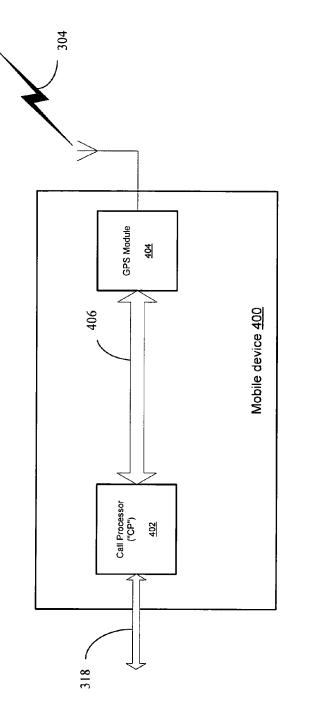


FIG. 4

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