



US007826968B2

(12) **United States Patent**  
**Huang et al.**

(10) **Patent No.:** **US 7,826,968 B2**  
(45) **Date of Patent:** **Nov. 2, 2010**

(54) **METHOD, DEVICE AND VEHICLE UTILIZING THE SAME**

(75) Inventors: **Peng-Chuan Huang**, Hsinchu (TW);  
**Chao Chieh Hsu**, Taipei County (TW);  
**Hong-Hui Chen**, Taipei Hsien (TW)

(73) Assignee: **Mediatek Inc.**, Hsin-Chu (TW)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 809 days.

(21) Appl. No.: **11/741,926**

(22) Filed: **Apr. 30, 2007**

(65) **Prior Publication Data**

US 2008/0270024 A1 Oct. 30, 2008

(51) **Int. Cl.**  
**G01C 21/34** (2006.01)  
**G01S 5/02** (2010.01)

(52) **U.S. Cl.** ..... **701/213; 701/214; 340/993; 342/357.12**

(58) **Field of Classification Search** ..... **701/213, 701/214, 207, 209; 340/992, 993; 342/357.12**  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,592,173 A 1/1997 Lau et al.

5,862,511 A *	1/1999	Croyle et al. ....	701/213
5,948,043 A *	9/1999	Mathis .....	701/208
6,448,927 B1 *	9/2002	Ishigaki et al. ....	342/357.06
6,559,794 B1 *	5/2003	Nakajima et al. ....	342/357.06
6,633,814 B2	10/2003	Kohli et al.	
6,662,107 B2	12/2003	Gronemeyer	
6,774,838 B2	8/2004	Sun	
6,795,941 B2	9/2004	Nickels et al.	
6,812,887 B2	11/2004	Syrjarinne et al.	
7,071,087 B2	7/2006	Horslund et al.	
7,084,810 B2 *	8/2006	Kitatani .....	342/357.12
7,123,189 B2 *	10/2006	Lalik et al. ....	342/357.13
2004/0073361 A1 *	4/2004	Tzamaloukas et al. ....	701/210
2008/0201066 A1	8/2008	Kanazawa	

\* cited by examiner

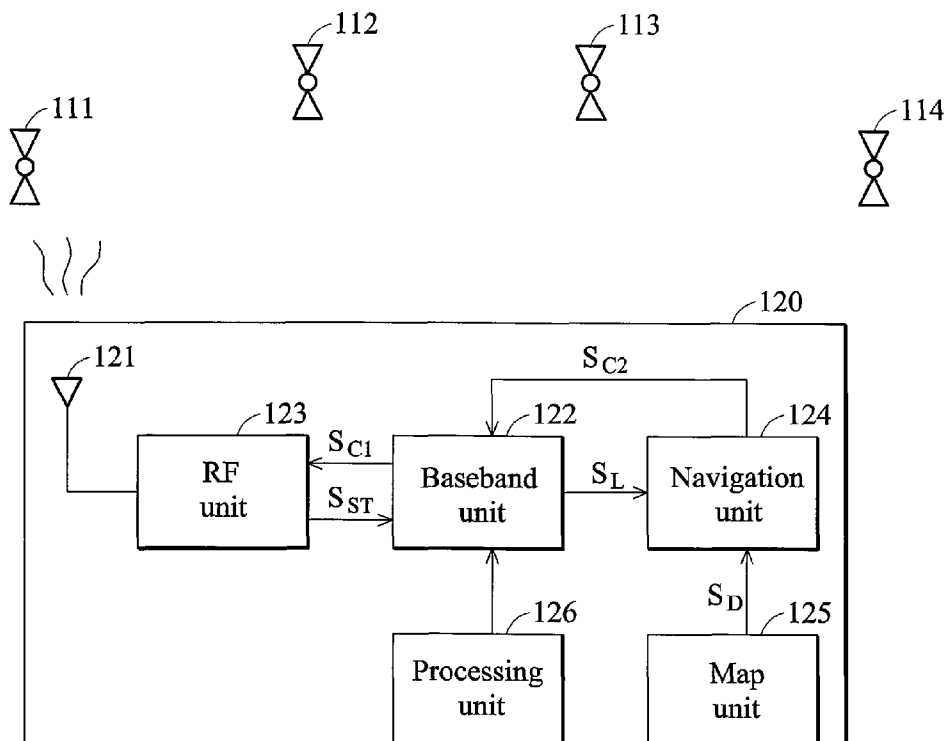
*Primary Examiner*—Tan Q Nguyen

(74) *Attorney, Agent, or Firm*—Thomas, Kayden, Horstemeyer & Risley

(57) **ABSTRACT**

A global positioning system (GPS) device including an antenna and a baseband unit is disclosed. The antenna receives a wireless signal group. The baseband unit processes the wireless signal group to generate a position signal. The position signal is updated every time interval. The duration of the time interval is changed dynamically.

**9 Claims, 5 Drawing Sheets**



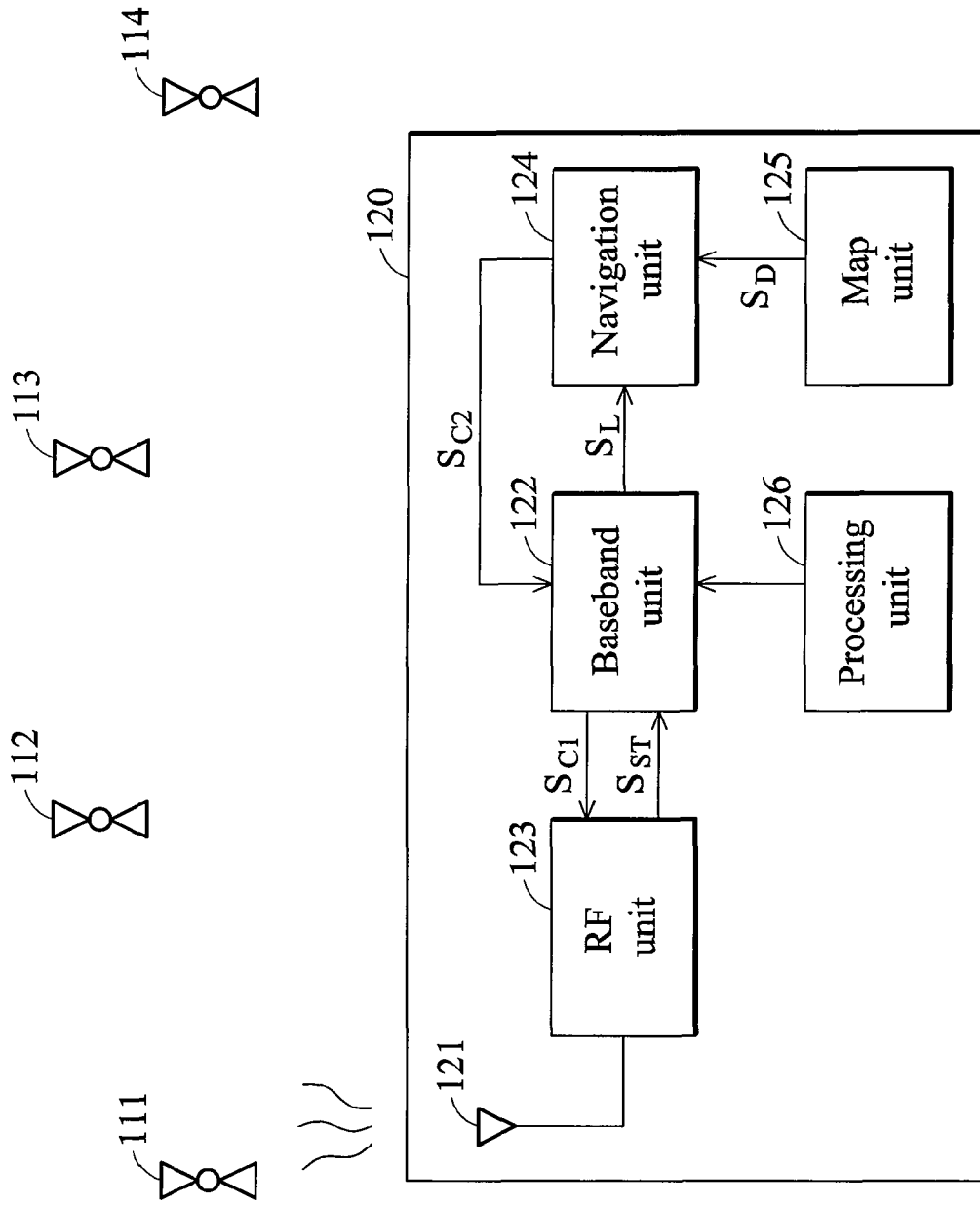


FIG. 1

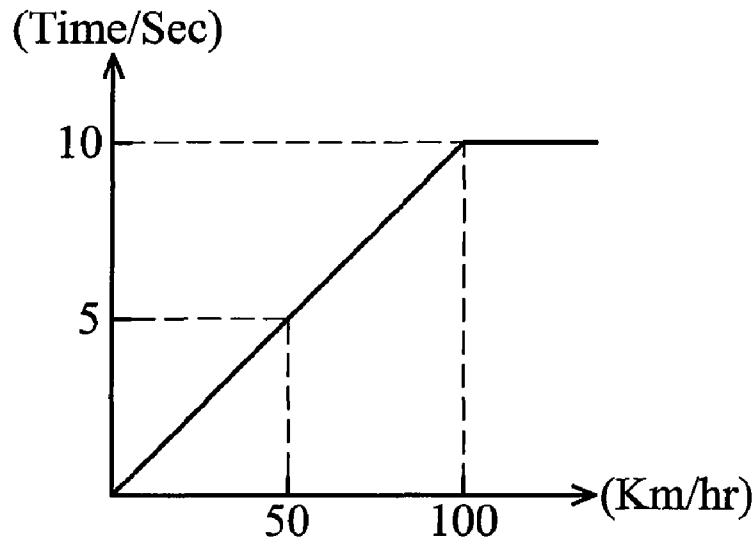


FIG. 2A

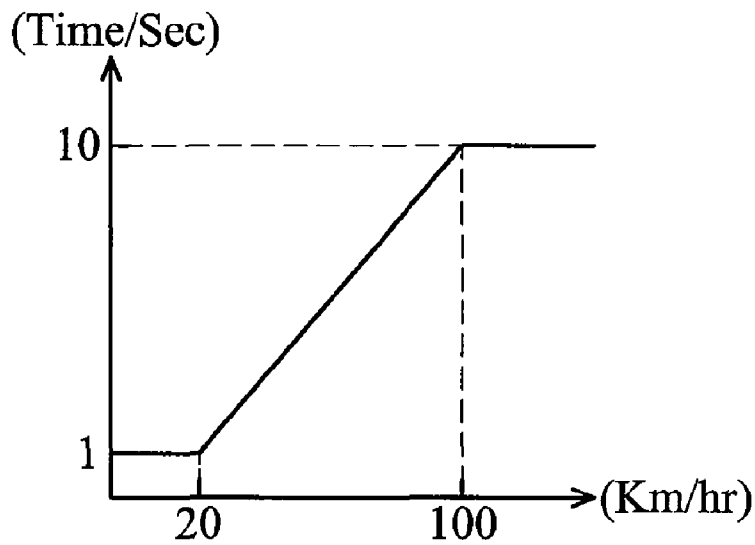


FIG. 2B

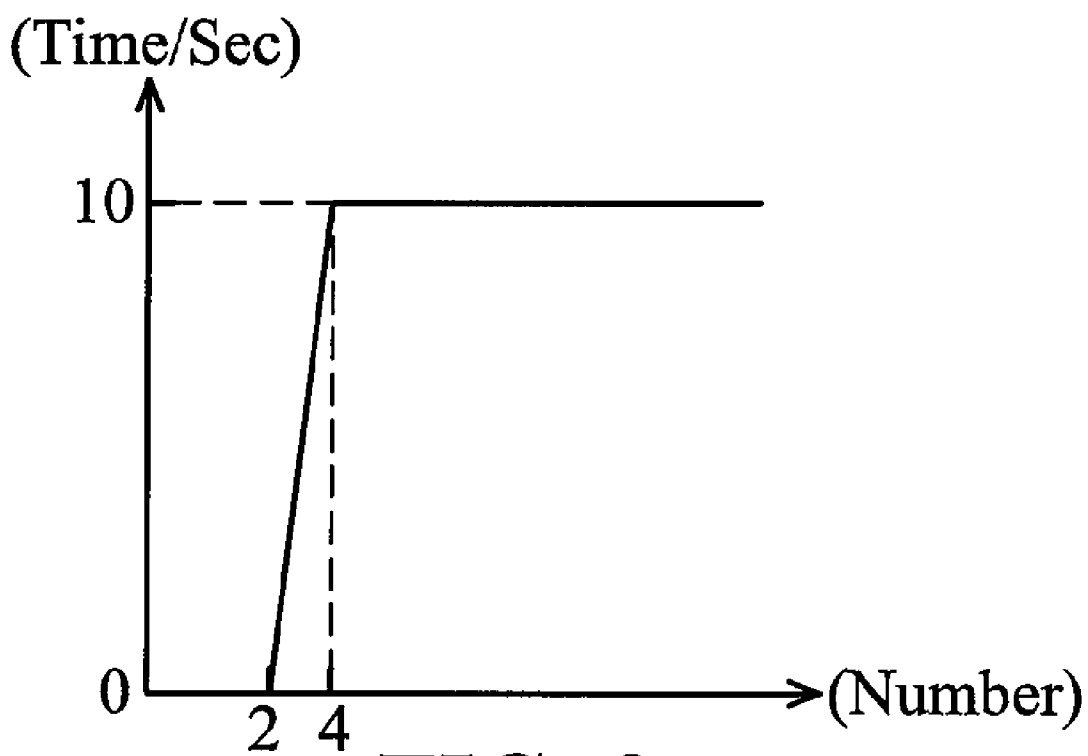


FIG. 3

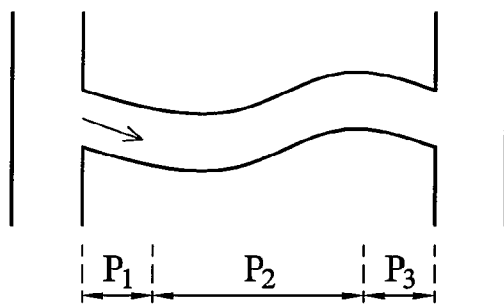


FIG. 4A

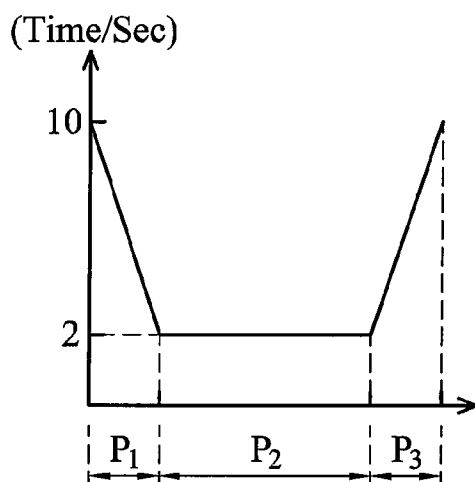


FIG. 4B

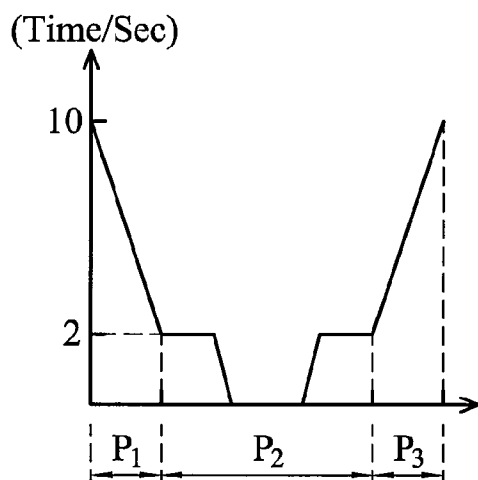


FIG. 4C

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.