



US 20060240841A1

(19) **United States**(12) **Patent Application Publication**  
**Bhattacharya**(10) **Pub. No.: US 2006/0240841 A1**(43) **Pub. Date: Oct. 26, 2006**(54) **ESTIMATING THE LOCATION OF A  
WIRELESS TERMINAL BASED ON  
ASSISTED GPS AND PATTERN MATCHING**(52) **U.S. Cl. .... 455/456.1; 455/12.1**(75) **Inventor: Tarun Kumar Bhattacharya, San Jose,  
CA (US)**

Correspondence Address:  
**DEMONT & BREYER, LLC**  
**SUITE 250**  
**100 COMMONS WAY**  
**HOLMDEL, NJ 07733 (US)**

(73) **Assignee: POLARIS WIRELESS, INC., Santa  
Clara, CA (US)**(21) **Appl. No.: 11/419,640**(22) **Filed: May 22, 2006****Publication Classification**(51) **Int. Cl.**  
**H04Q 7/20 (2006.01)**(57) **ABSTRACT**

A method of using a non-GPS-derived technique to estimate the location of an Assisted-GPS-enabled wireless terminal for the purposes of generating location-specific assistance data for the wireless terminal is disclosed. The wireless terminal then uses the assistance data to acquire and process one or more GPS signals and to derive information that is probative of the wireless terminal's location. The GPS-derived location information is then combined with non-GPS-derived location to form an estimate of the location of the wireless terminal that is better than can be derived from either alone. This combination of GPS-derived and non-GPS techniques is particularly useful when the wireless terminal can only acquire one or two GPS signals because it is not possible to determine the location of the wireless terminal with only two GPS signals alone.

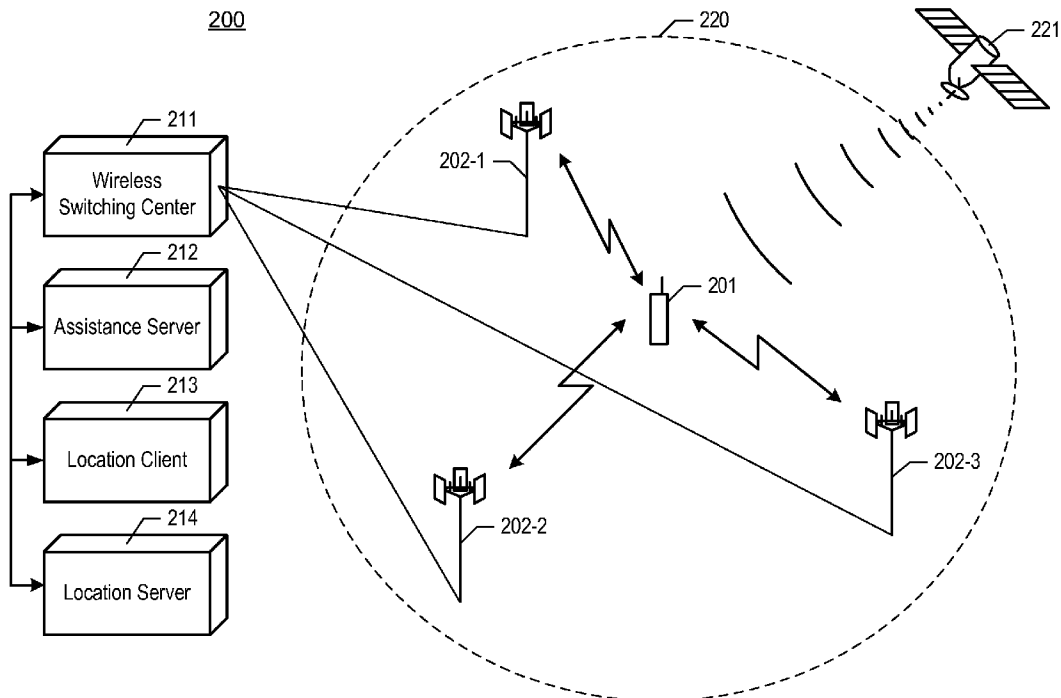


Figure 1 (Prior Art)

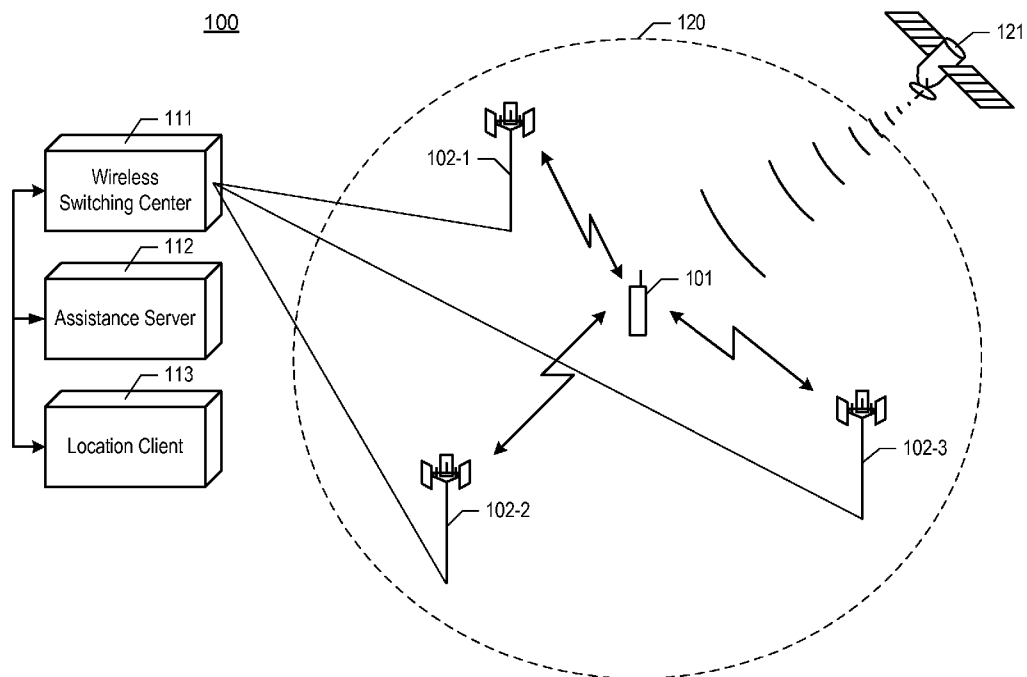


Figure 2

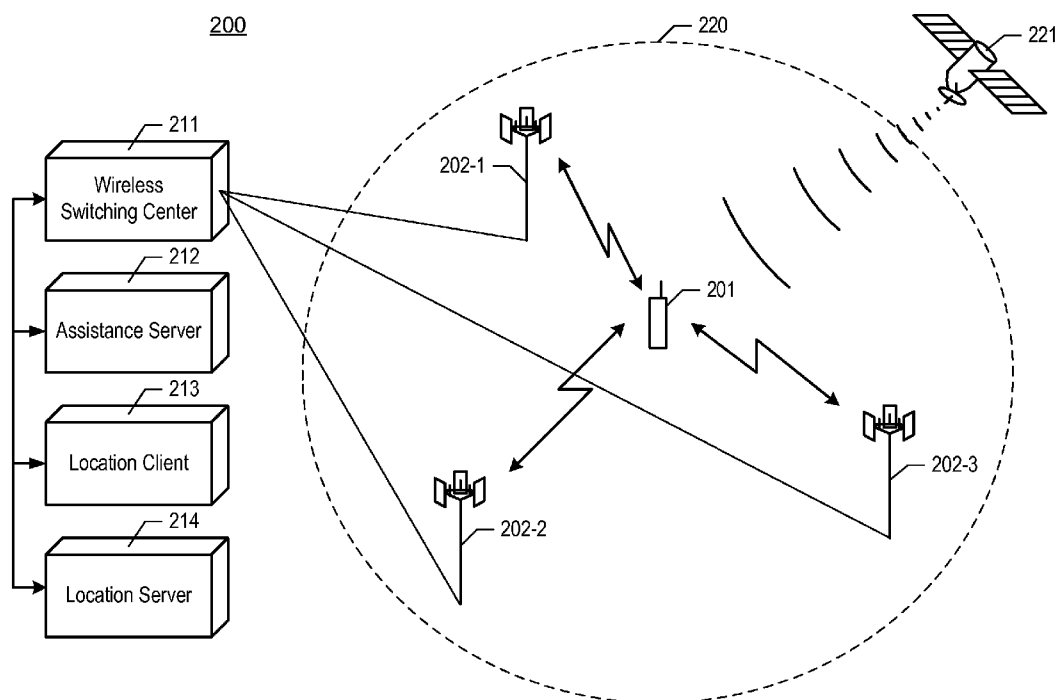


Figure 3

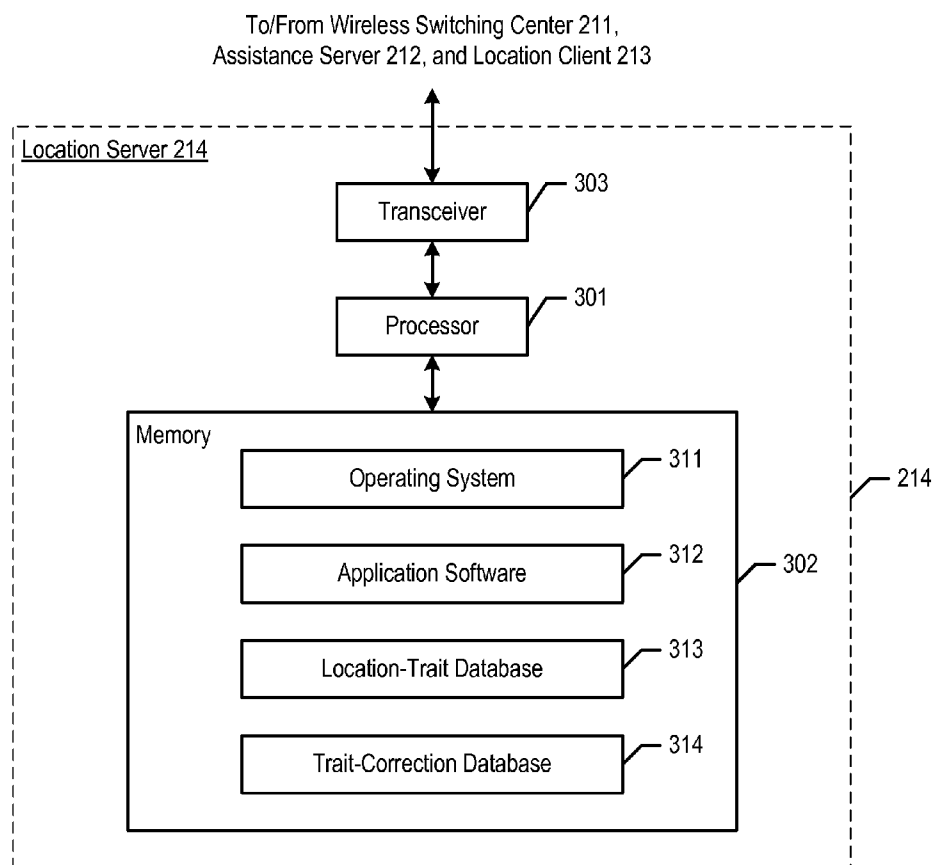
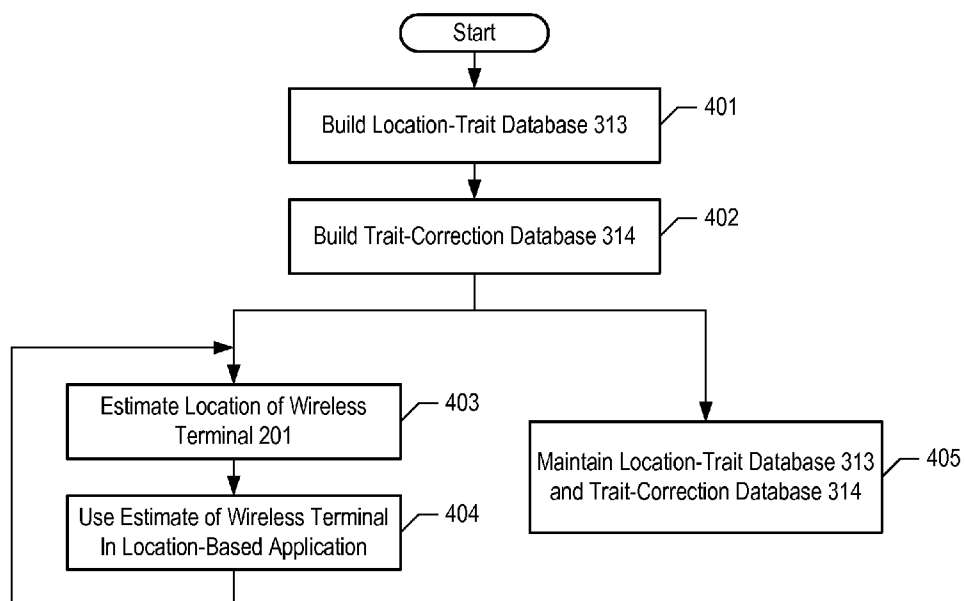


Figure 4



# 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.