



US006915123B1

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

(10) **Patent No.:** **US 6,915,123 B1**
 (45) **Date of Patent:** **Jul. 5, 2005**

(54) **METHOD AND SYSTEM FOR MONITORING
 AN OPERATIONAL AREA OF A
 SUBSCRIBER STATION**

(75) Inventors: **Douglas Streeter Daudelin**,
 Independence, NJ (US); **Zoran Siveski**,
 New York City, NY (US)

(73) Assignee: **Lucent Technologies Inc.**, Murray Hill,
 NJ (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.: **09/517,059**

(22) Filed: **Mar. 2, 2000**

(51) Int. Cl.⁷ **H04Q 7/20; H04M 1/66**

(52) U.S. Cl. **455/410; 455/411; 455/423;**
 455/67.11; 455/456.1

(58) Field of Search 455/410, 411,
 455/423, 456.1, 432.1, 67.11, 67.16, 421,
 435.1; 340/5.2, 5.8

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,711,000 A * 1/1998 Ploeg et al. 455/423

5,715,518 A * 2/1998 Barrere et al. 340/5.8
 5,835,857 A * 11/1998 Otten 455/410
 5,870,672 A * 2/1999 Stoddard et al. 455/410
 5,905,950 A * 5/1999 Anell 455/421
 5,940,751 A * 8/1999 Kaplan et al. 455/411
 6,026,304 A * 2/2000 Hilsenrath et al. 455/456
 6,269,246 B1 * 7/2001 Rao et al. 455/456

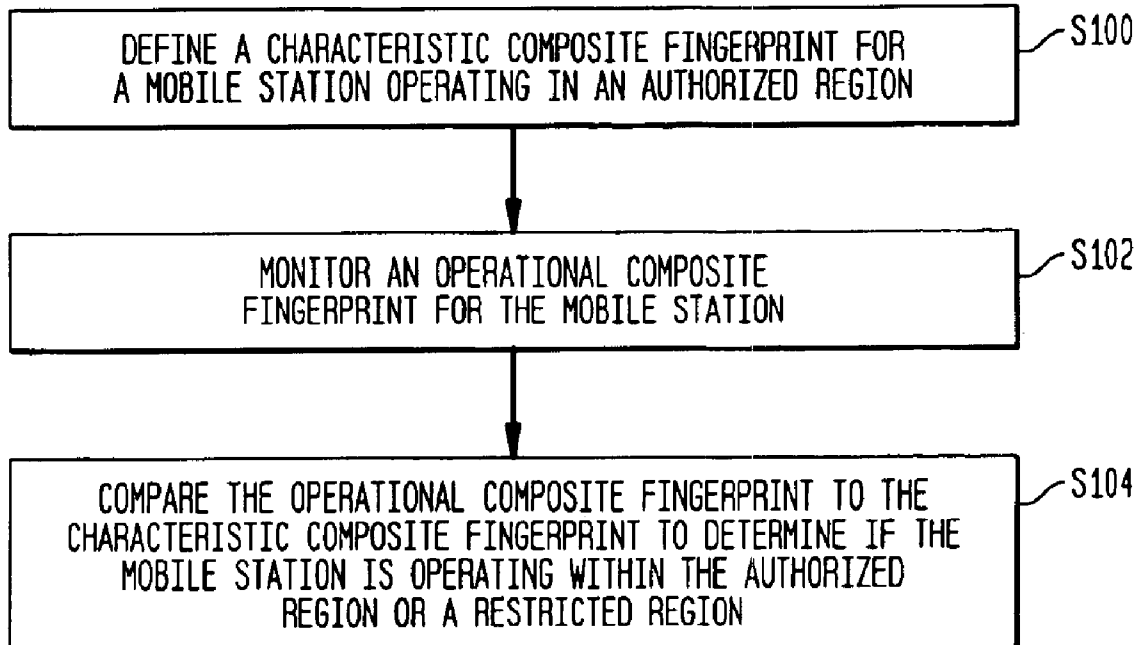
* cited by examiner

Primary Examiner—Erika A. Gray

(57) **ABSTRACT**

A system and method for monitoring the operational area of one or more subscriber stations in a wireless system facilitates determining whether subscriber stations are operating in their authorized coverage areas or not. The system and method first defines a characteristic composite fingerprint for a subscriber station associated with the operation of a subscriber station in an authorized coverage area. An operational area monitor monitors an operational composite fingerprint for the subscriber station. The monitor or another network element compares the operational composite fingerprint to the characteristic composite fingerprint to determine if the subscriber station is operating within the authorized coverage area or the restricted coverage area.

25 Claims, 7 Drawing Sheets



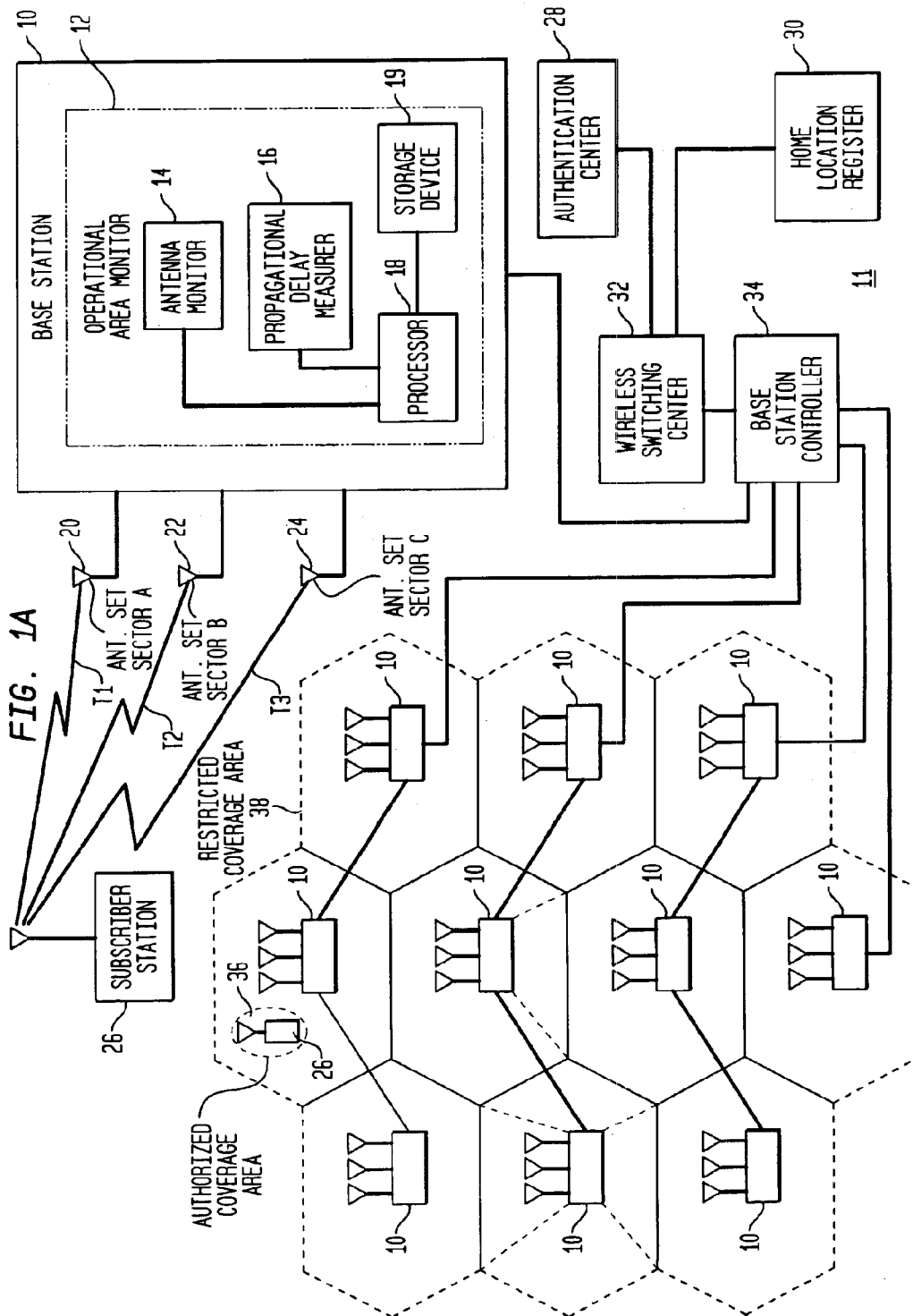


FIG. 1B

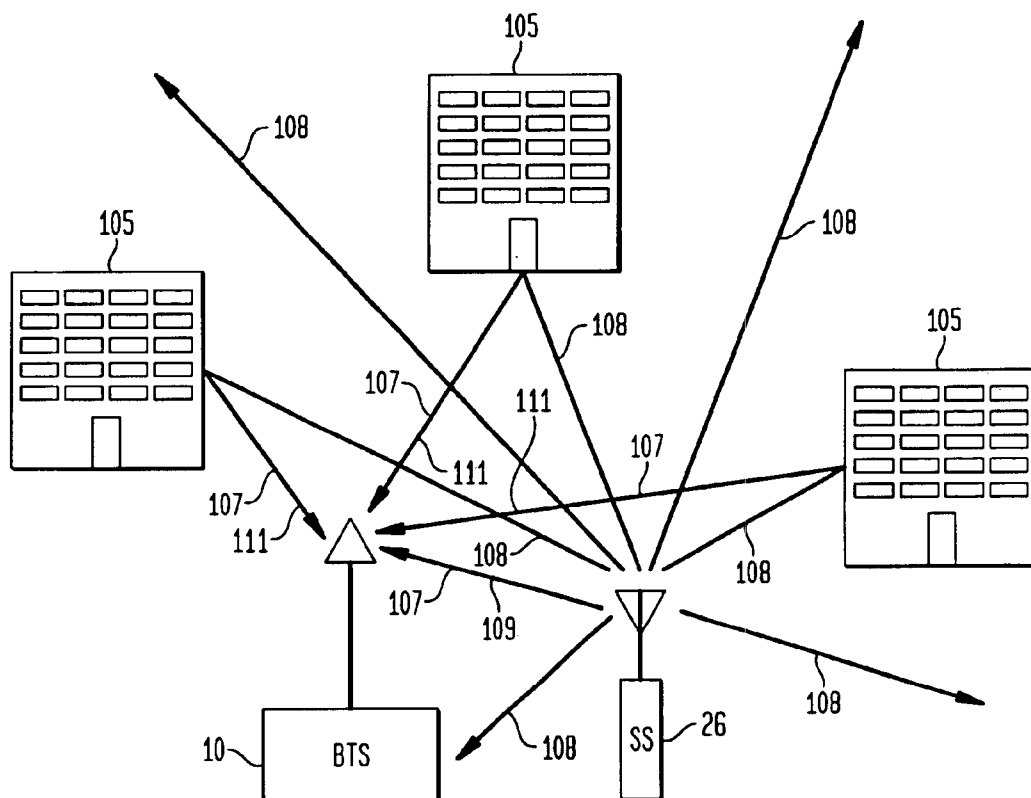


FIG. 2

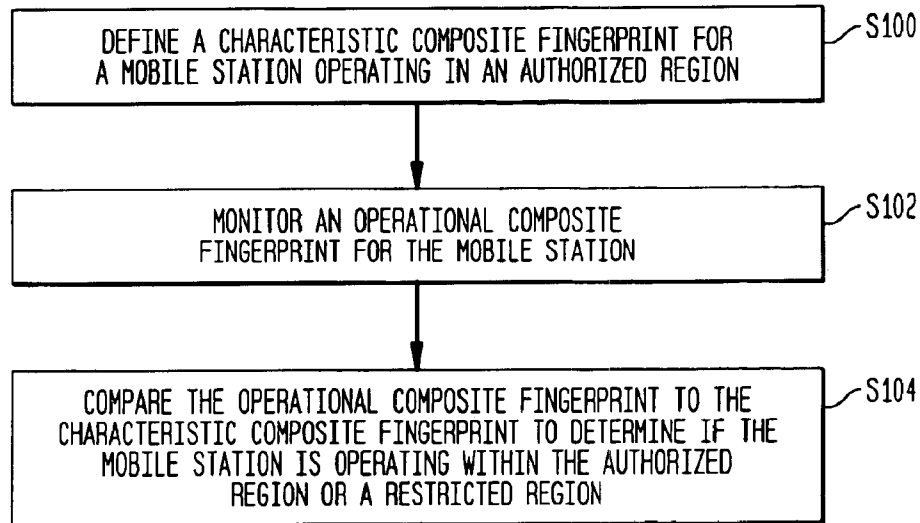


FIG. 3

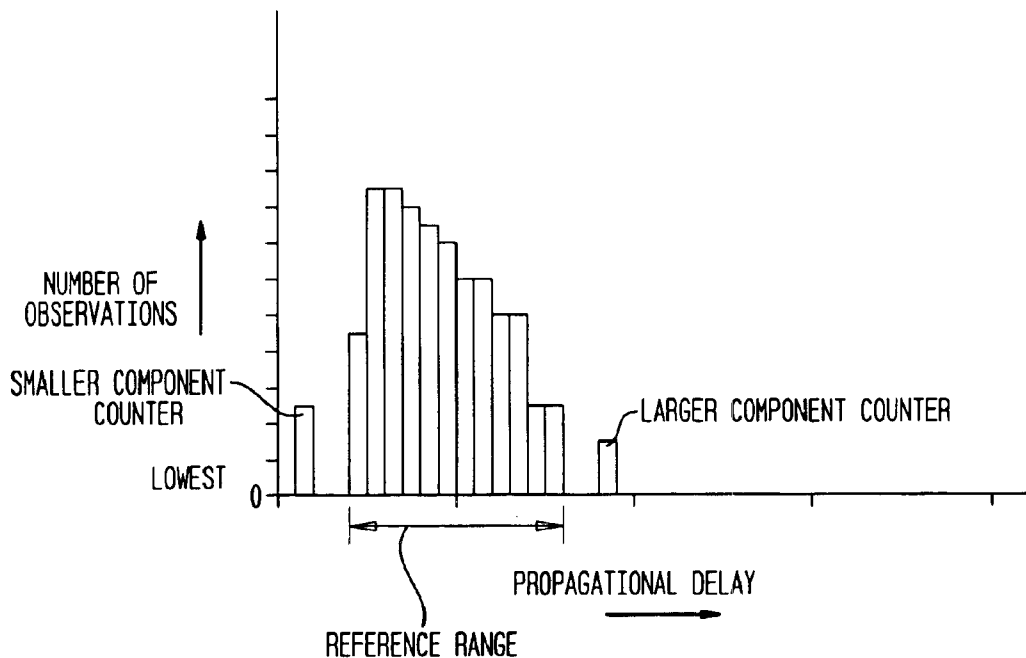


FIG. 4

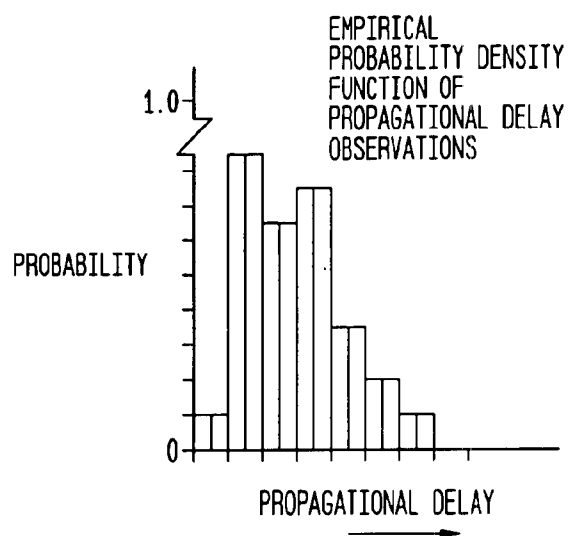
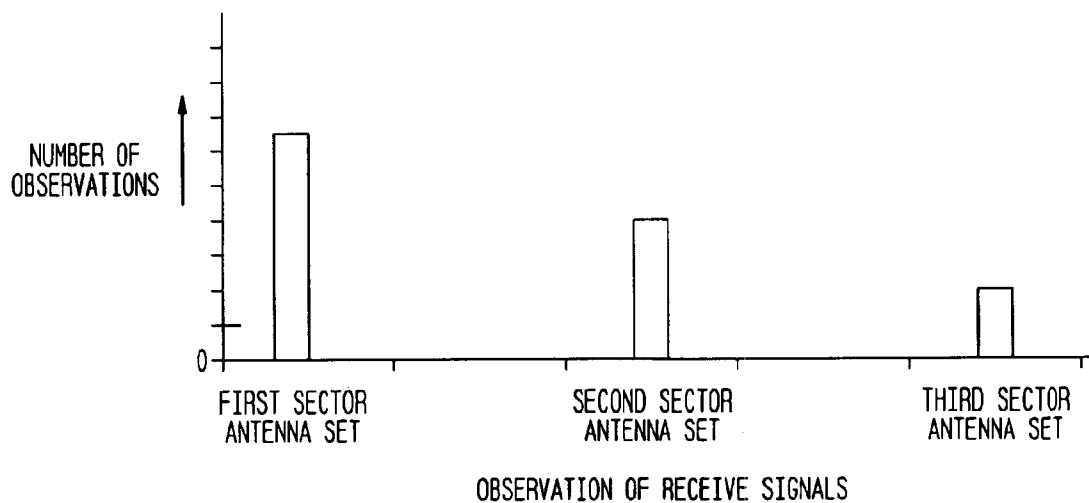


FIG. 5



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.