



US 20040068653A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2004/0068653 A1**

Fascenda

(43) **Pub. Date: Apr. 8, 2004**

(54) **SHARED NETWORK ACCESS USING DIFFERENT ACCESS KEYS**

(52) **U.S. Cl. 713/168**

(76) **Inventor: Anthony C. Fascenda, North Bethesda, MD (US)**

(57) **ABSTRACT**

Correspondence Address:
**HUNTON & WILLIAMS LLP
INTELLECTUAL PROPERTY DEPARTMENT
1900 K STREET, N.W.
SUITE 1200
WASHINGTON, DC 20006-1109 (US)**

The invention provides a secure Wi-Fi communications method and system to enable automatic network roaming without requiring any back-end authentication servers and alleviating the need to handle large numbers of network parameters. In an embodiment of the invention, a client device listens for a "beacon frame" broadcast from a Wi-Fi access point. The beacon frame identifies the basic service set identifier (BSSID) of the access point. A tamper-resistant token, or client key, installed at the client device stores a set of authentication parameters, e.g., cryptographic keys, for each Wi-Fi network the client is permitted to access. Each set of authentication parameters is associated with a particular BSSID. Using the BSSID received from the access point, the client device identifies and implements the appropriate set of authentication parameters necessary to authenticate the client device according to an authentication process generally accepted by all the Wi-Fi networks potentially servicing the client. Accordingly, a consistent authentication and security mechanism is provided to enable a client device to easily roam from one network to another without requiring the client to manually change network configurations.

(21) **Appl. No.: 10/679,268**

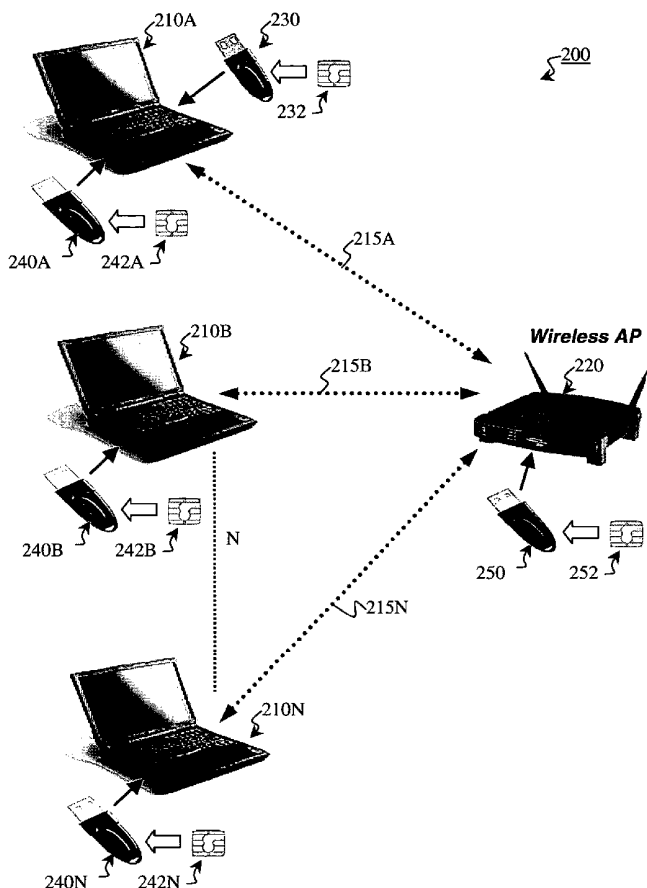
(22) **Filed: Oct. 7, 2003**

Related U.S. Application Data

(60) **Provisional application No. 60/416,583, filed on Oct. 8, 2002. Provisional application No. 60/477,921, filed on Jun. 13, 2003. Provisional application No. 60/422,474, filed on Oct. 31, 2002.**

Publication Classification

(51) **Int. Cl.⁷ H04L 9/00**



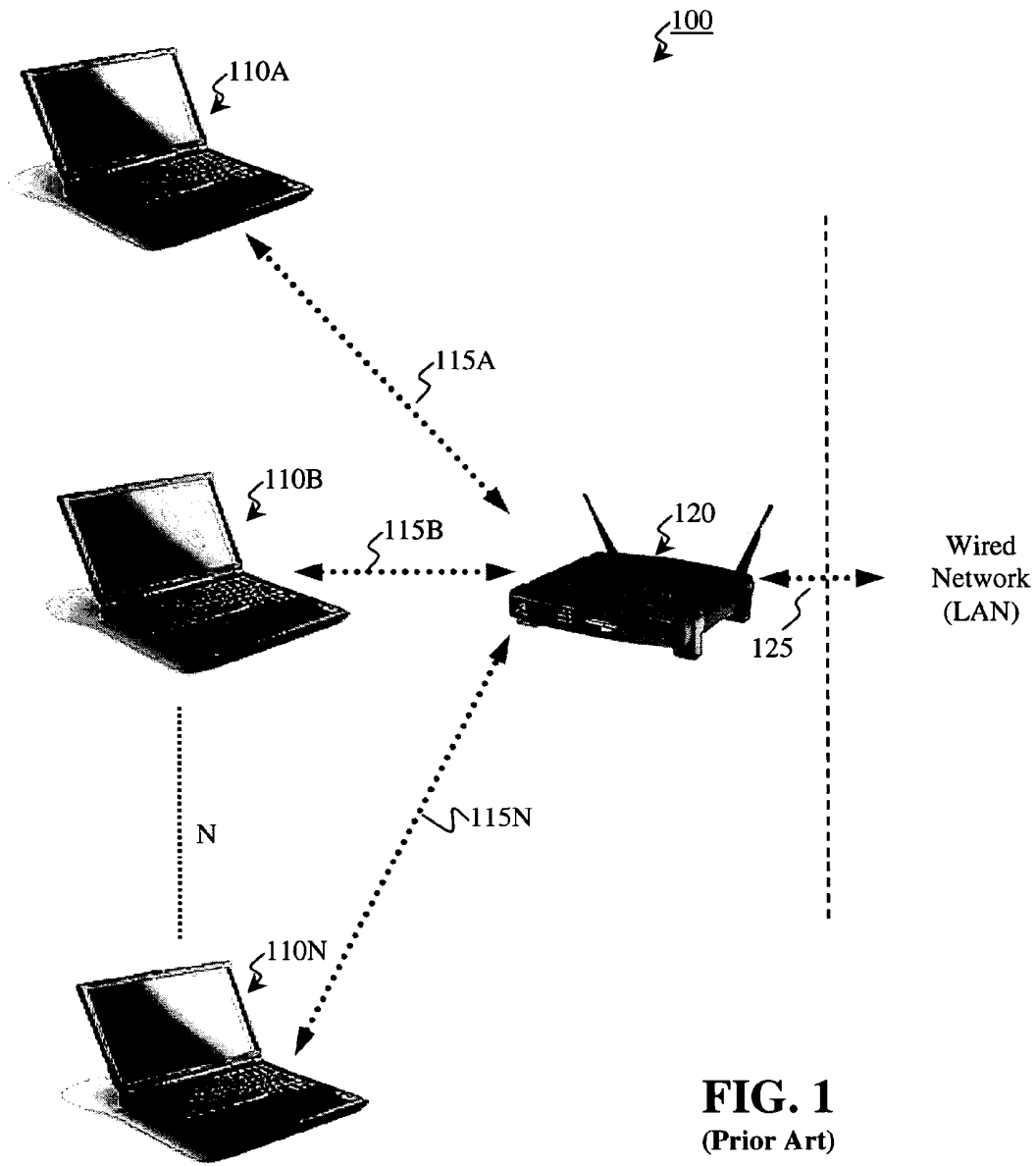


FIG. 1
(Prior Art)

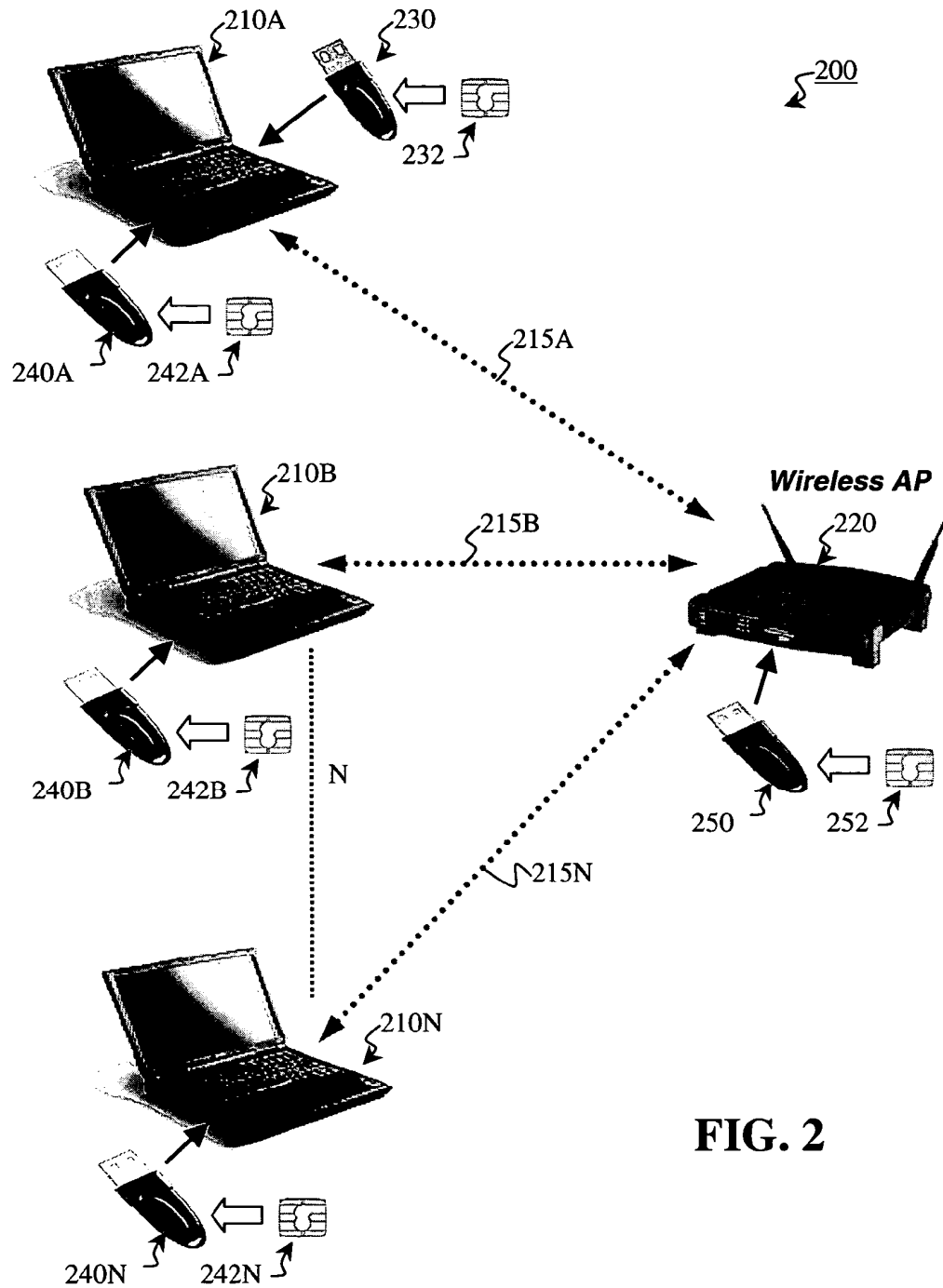


FIG. 2

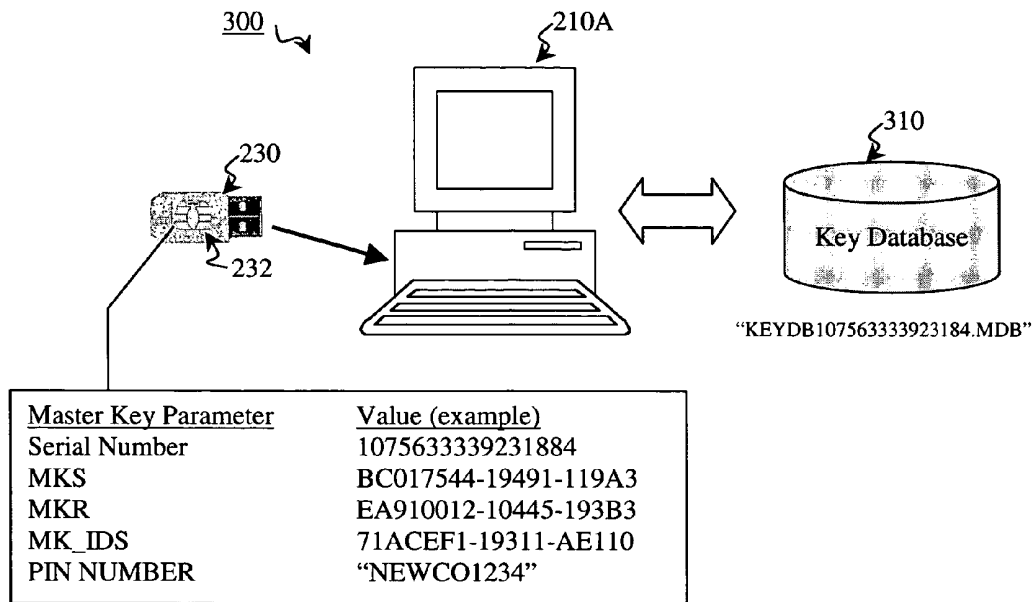
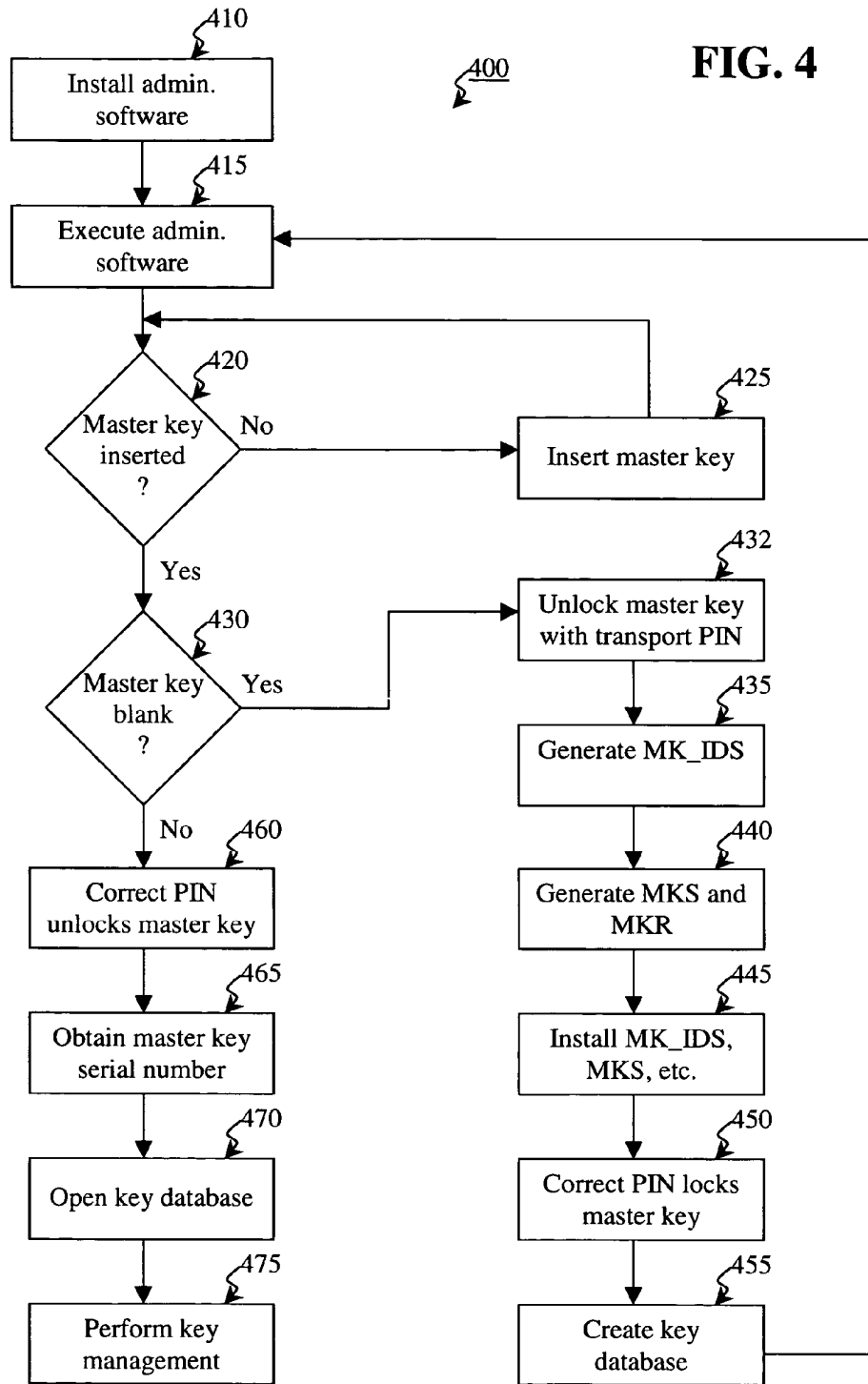


FIG. 3



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.