



US 20070245157A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2007/0245157 A1**

Giobbi et al. (43) **Pub. Date: Oct. 18, 2007**

(54) **TWO-LEVEL AUTHENTICATION FOR SECURE TRANSACTIONS**

No. 60/824,758, filed on Sep. 6, 2006. Provisional application No. 60/894,608, filed on Mar. 13, 2007.

(76) Inventors: **John J. Giobbi**, Bend, OR (US); **David L. Brown**, Jupiter, FL (US); **Fred S. Hirt**, Brookfield, IL (US)

Publication Classification

(51) **Int. Cl.**
H04L 9/00 (2006.01)
(52) **U.S. Cl.** 713/186

Correspondence Address:
FENWICK & WEST LLP
SILICON VALLEY CENTER
801 CALIFORNIA STREET
MOUNTAIN VIEW, CA 94041 (US)

(57) **ABSTRACT**

A system and method provide efficient, secure, and highly reliable authentication for transaction processing and/or access control applications. A Personal Digital Key stores one or more profiles (e.g., a biometric profile) in a tamper-proof memory that is acquired in a secure trusted process. Biometric profiles comprise a representation of physical or behavioral characteristics that are uniquely associated with an individual that owns and carries the PDK. The PDK wirelessly transmits the biometric profile over a secure wireless transaction to a Reader for use in a biometric authentication process. The Reader compares the received biometric profile to a biometric input acquired at the point of transaction in order to determine if the transaction should be authorized.

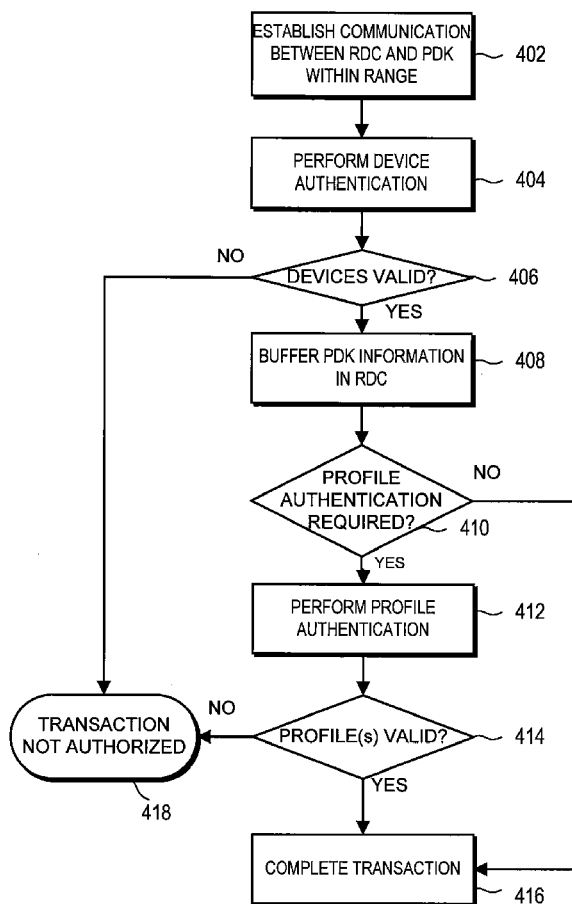
(21) Appl. No.: **11/744,831**

(22) Filed: **May 5, 2007**

Related U.S. Application Data

(63) Continuation-in-part of application No. 11/292,330, filed on Nov. 30, 2005.

(60) Provisional application No. 60/798,172, filed on May 5, 2006. Provisional application No. 60/798,843, filed on May 8, 2006. Provisional application No. 60/838,788, filed on Aug. 17, 2006. Provisional application



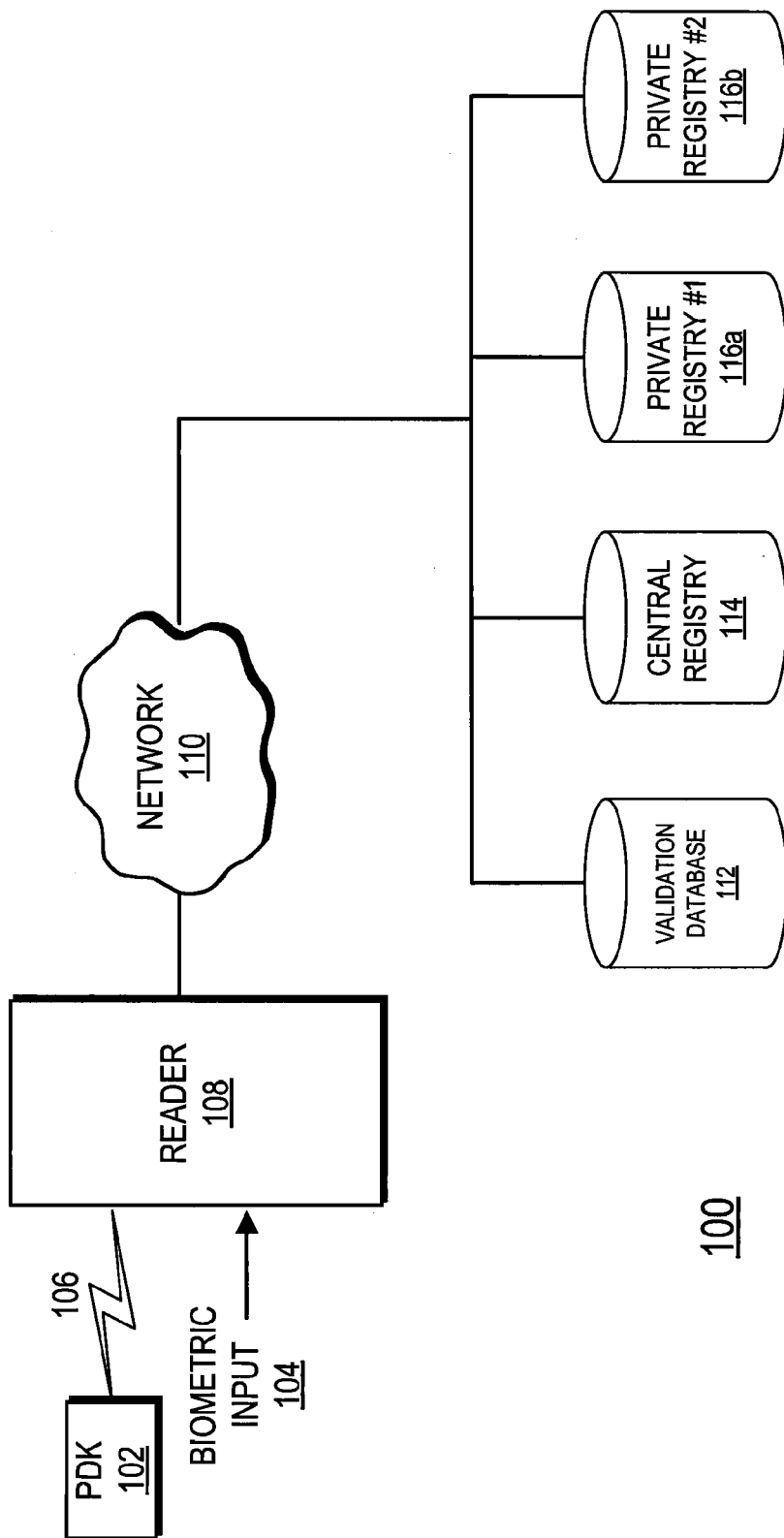


FIG. 1

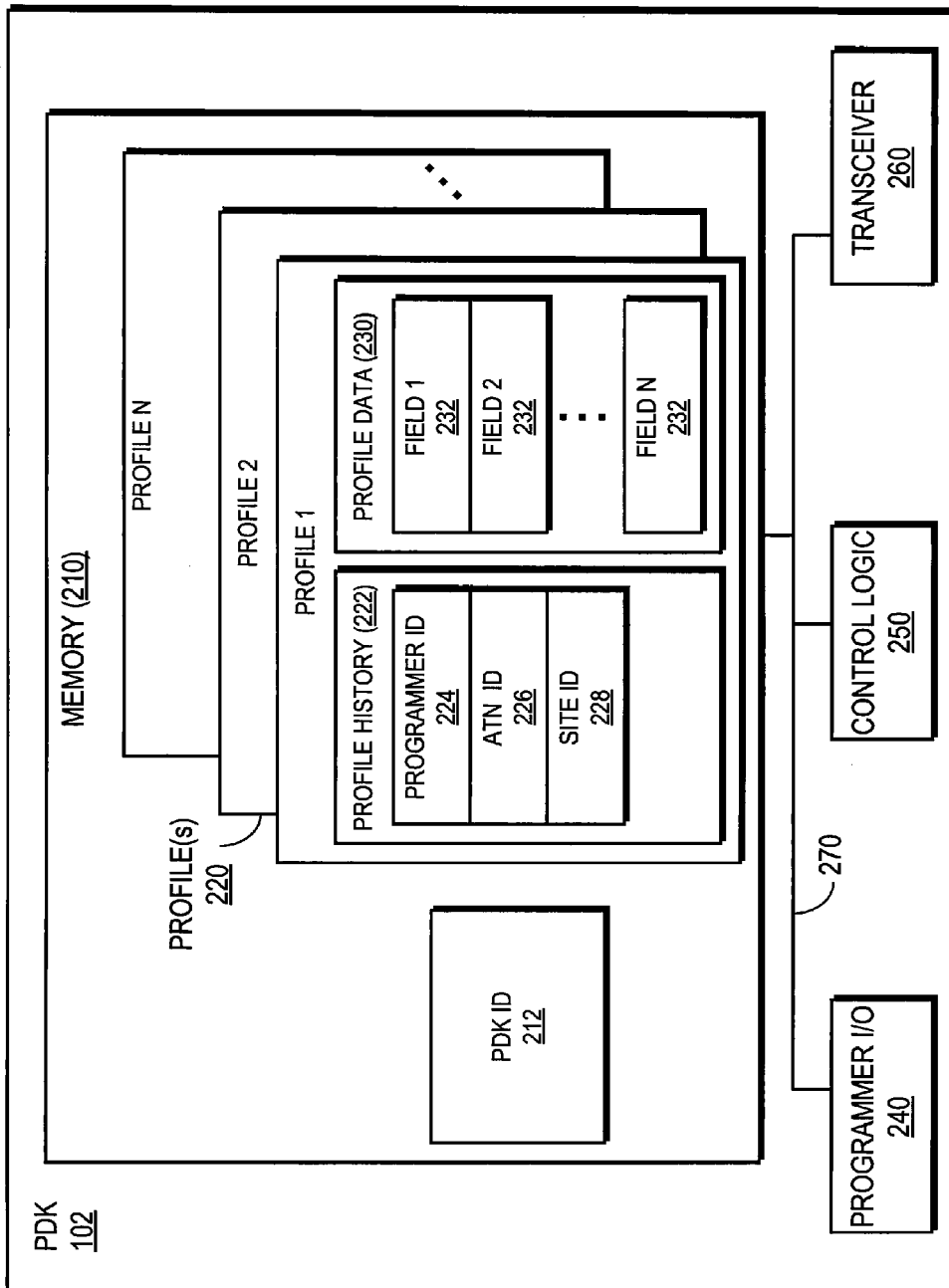


FIG. 2

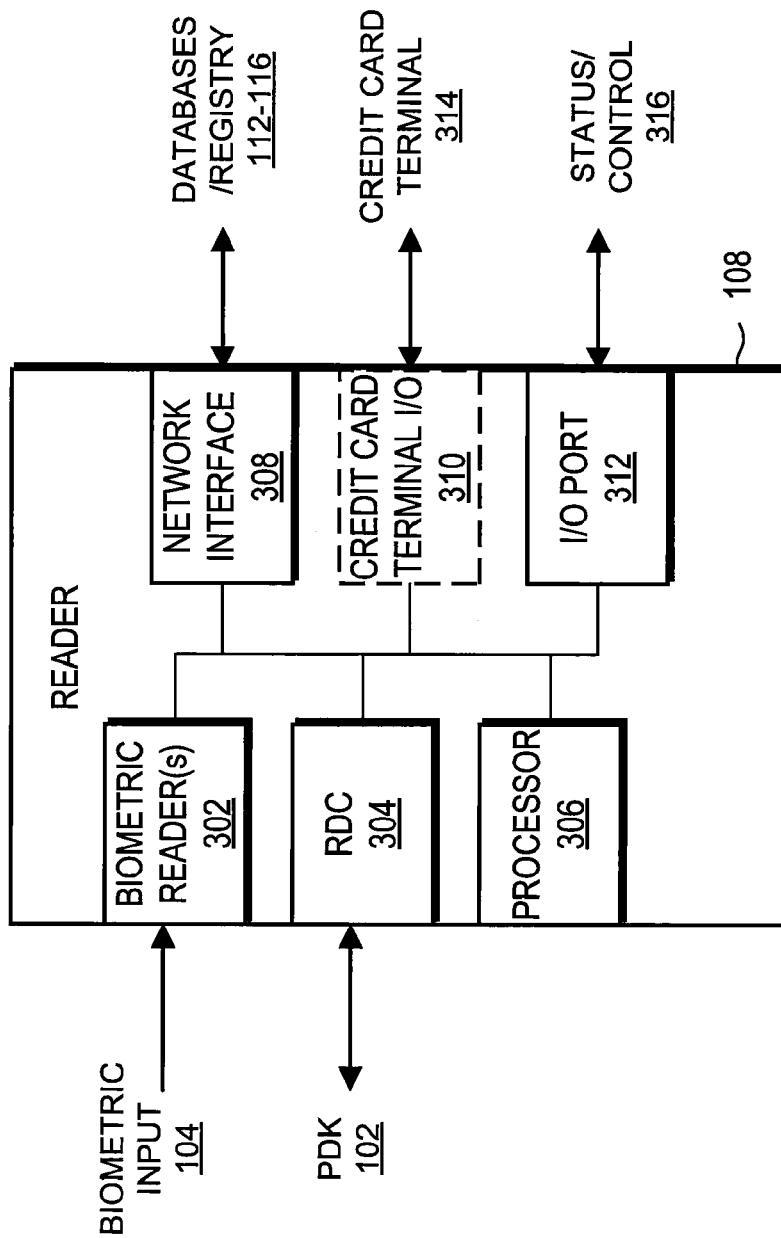


FIG. 3

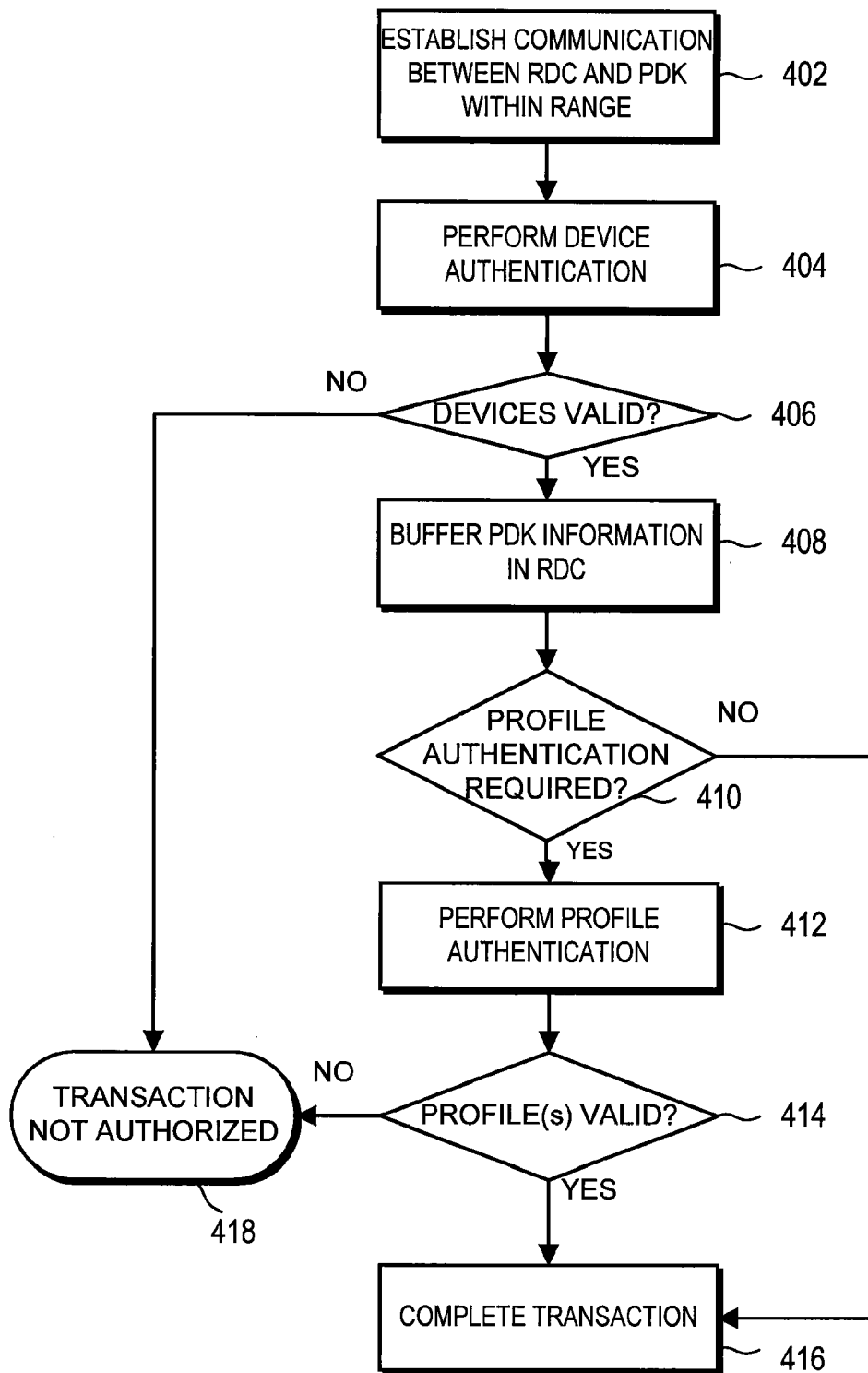


FIG. 4

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.