

(12) United States Patent Lowe

(54) SYSTEM AND METHOD FOR REMOTELY ASSIGNING AND REVOKING ACCESS CREDENTIALS USING A NEAR FIELD COMMUNICATION EQUIPPED MOBILE **PHONE**

(75) Inventor: **Peter R. Lowe**, Peyton, CO (US)

Assignee: Assa Abloy AB, Stockholm (SE)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 600 days.

(21) Appl. No.: 11/397,542

(22) Filed: Apr. 3, 2006

(65)**Prior Publication Data**

> US 2006/0224901 A1 Oct. 5, 2006

Related U.S. Application Data

- Provisional application No. 60/668,828, filed on Apr. 5, 2005.
- (51) **Int. Cl.** H04M 1/66 (2006.01)H04L 29/06 (2006.01)
- (52) **U.S. Cl.** 455/411; 713/200; 713/158
- Field of Classification Search 713/200, 713/201, 158; 455/403, 461, 414, 412, 411; 705/1

See application file for complete search history.

(56)**References Cited**

U.S. PATENT DOCUMENTS

5,903,845 A * 5/1999 Buhrmann et al. 455/461

US 7,706,778 B2 (10) Patent No.: (45) Date of Patent: Apr. 27, 2010

6,374,356	B1	4/2002	Daigneault et al.
6,577,229	В1	6/2003	Bonneau et al.
6,668,322	B1	12/2003	Wood et al.
6,719,200	B1	4/2004	Wiebe
6,766,450	B2	7/2004	Micali
6,859,650	В1	2/2005	Ritter
6,895,234	B1 *	5/2005	Laursen et al 455/403
2003/0023874	A1*	1/2003	Prokupets et al 713/201
2004/0059590	A1*	3/2004	Mercredi et al 705/1
2004/0177270	A1*	9/2004	Little et al 713/200
2004/0180646	A1*	9/2004	Donley et al 455/411
2008/0163361	A1	7/2008	Davis et al.

FOREIGN PATENT DOCUMENTS

WO	WO 2004/025545	3/2004
WO	WO 2005/024549	3/2005

OTHER PUBLICATIONS

Phillips Semiconductoers—"Near Field Communication PN511-Transmision module." (Feb. 2004) (18 pages). Nokia—"Use Cases" http://www.nokia.com (Copyright 2005) (2 pages).

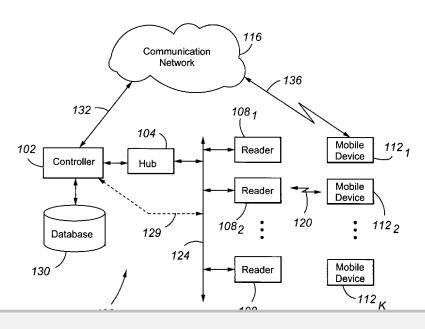
(Continued)

Primary Examiner—Charles N Appiah Assistant Examiner—Kiet Doan (74) Attorney, Agent, or Firm—Sheridan Ross P.C.

ABSTRACT

The present invention is generally directed toward a mobile device that can be used in a secure access system. More specifically, the mobile device can have credential data loaded thereon remotely updated, enabled, disabled, revoked, or otherwise altered with a message sent from, for example, a control panel and/or controller in the system.

42 Claims, 5 Drawing Sheets





US 7,706,778 B2

Page 2

OTHER PUBLICATIONS

Esato—"Nokia Launches NFC Shell for Mobile Payments" http://www.esato.com/news/article.php/id=436 (Feb. 25, 2005) (3 pages). NFC Forum—"About Near Field Communication" http://www.nfc-forum.org/aboutnfc/ (Copyright 2005) (3 pages).

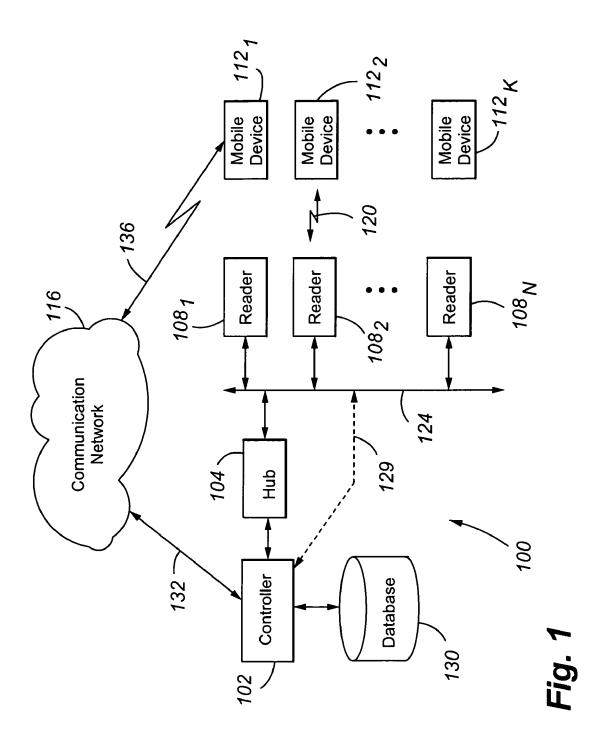
Indala—"Product Families" www.indala.com/products/index.html (Copyright 2004) (2 pages).

International Search Report for International (PCT) Patent Application No. PCT/US06/15304, mailed Jun. 11, 2008.

Written Opinion for International (PCT) Patent Application No. PCT/US06/15304, mailed Jun. 11, 2008.

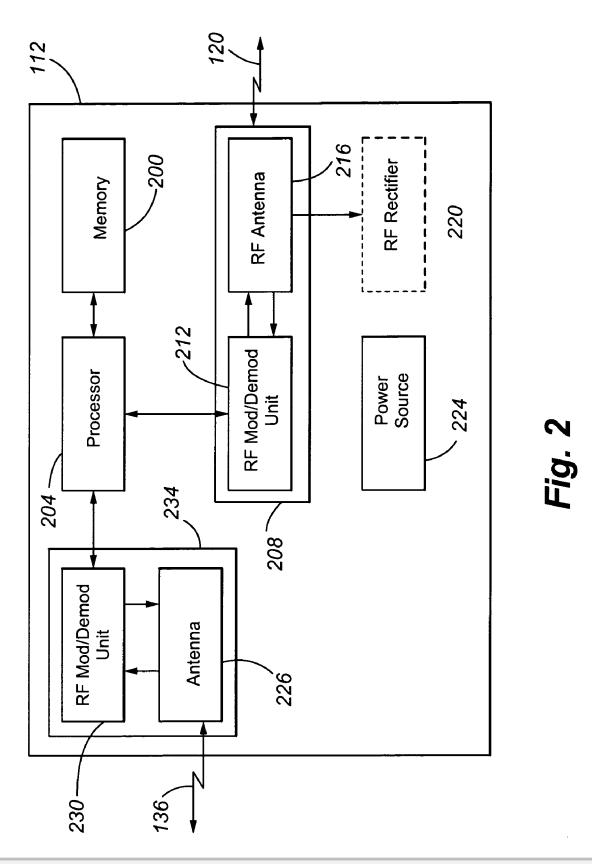
* cited by examiner







Apr. 27, 2010



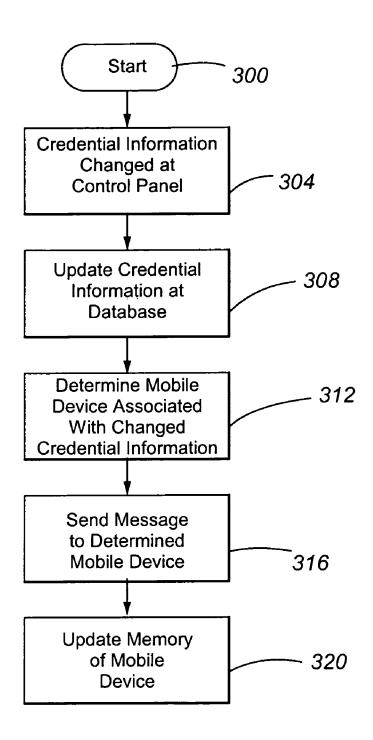


Fig. 3



DOCKET A L A R M

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.

