



US008620039B2

(12) **United States Patent**
Burke

(10) **Patent No.:** **US 8,620,039 B2**
(45) **Date of Patent:** **Dec. 31, 2013**

(54) **CARD DEVICE SECURITY USING BIOMETRICS**

(75) Inventor: **Christopher John Burke**, Ramsgate (AU)

(73) Assignee: **Securicom (NSW) Pty Ltd**, New South Wales (AU)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 912 days.

(21) Appl. No.: **12/063,650**

(22) PCT Filed: **Aug. 10, 2006**

(86) PCT No.: **PCT/AU2006/001136**

§ 371 (c)(1), (2), (4) Date: **Aug. 12, 2010**

(87) PCT Pub. No.: **WO2007/019605**

PCT Pub. Date: **Feb. 22, 2007**

(65) **Prior Publication Data**

US 2010/0296708 A1 Nov. 25, 2010

(30) **Foreign Application Priority Data**

Aug. 12, 2005 (AU) 2005904375

(51) **Int. Cl.**
G06K 9/00 (2006.01)

(52) **U.S. Cl.**
USPC **382/119; 340/5.82**

(58) **Field of Classification Search**
USPC 382/115, 119, 155, 159; 356/71; 350/5.2, 5.52, 5.53, 5.8, 5.81, 5.82, 350/5.83; 235/380, 382; 340/5.2, 5.52, 340/5.53, 5.8, 5.81, 5.82, 5.83

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|--------------|----|---------|----------------|---------|
| 5,457,747 | A | 10/1995 | Drexler et al. | 380/24 |
| 6,665,601 | B1 | 12/2003 | Nielsen | 701/50 |
| 6,796,492 | B1 | 9/2004 | Gatto | 235/379 |
| 2004/0041690 | A1 | 3/2004 | Yamagishi | 340/5 |

FOREIGN PATENT DOCUMENTS

| | | | |
|----|----------------|----|---------|
| CA | 2 412 403 | A1 | 5/2003 |
| WO | WO 03/036861 | A1 | 5/2003 |
| WO | WO 2004/100053 | A1 | 11/2004 |

OTHER PUBLICATIONS

International Search Report dated Oct. 20, 2006.
International Preliminary Report on Patentability dated Nov. 19, 2007.
Supplementary European Search Report dated Aug. 29, 2011 for EPO Application No. EP 06760981.8.

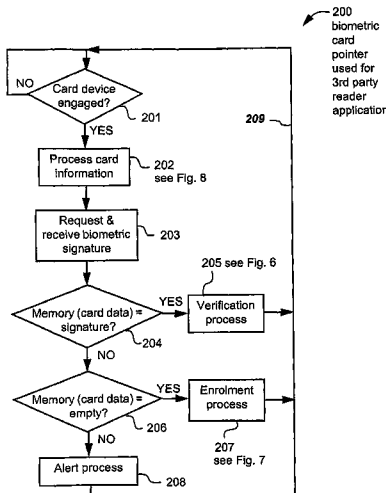
Primary Examiner — Andrew W Johns

(74) *Attorney, Agent, or Firm* — Brinks Gilson & Lione

(57) **ABSTRACT**

The disclosed Biometric Card Pointer arrangements store (207) a card user's biometric signature in a local memory (124) in a verification station (127) the first time the card user uses the verification station (127) in question. The biometric signature is stored at a memory address (607) defined by the card information (605) on the user's card (601). All future uses of the particular verification station (127) by someone submitting the aforementioned card (601) requires the card user to submit both the card and a biometric signature, which is verified against the signature stored at the memory address defined by the card information (605) thereby determining if the person submitting the card is authorized to do so.

20 Claims, 7 Drawing Sheets



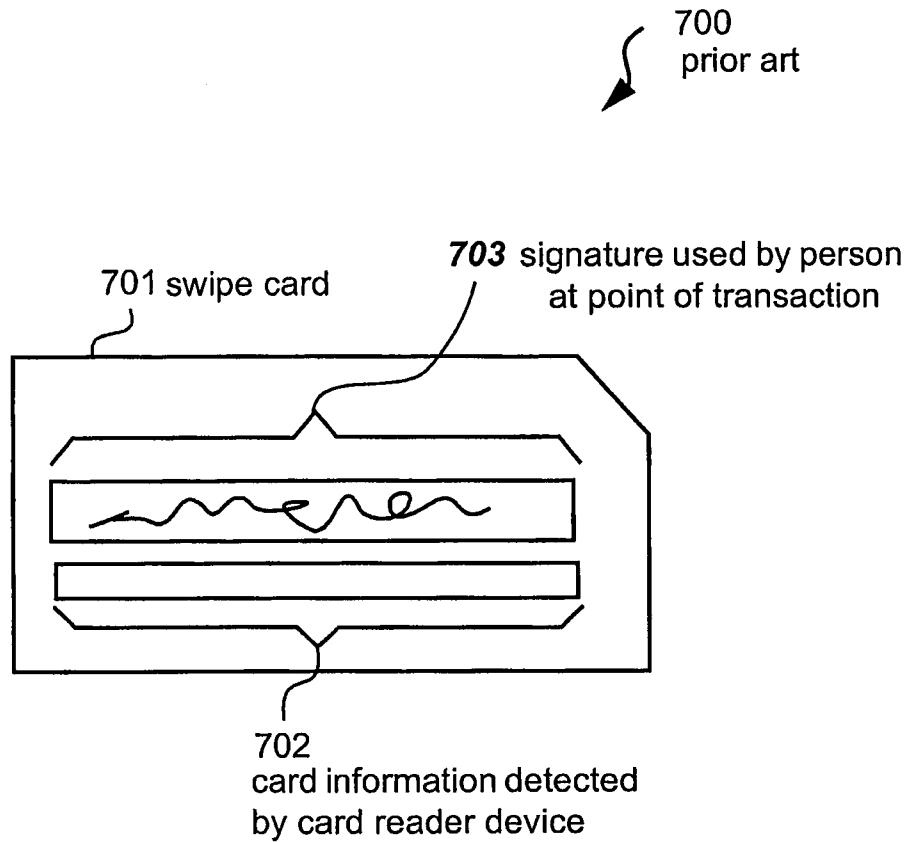
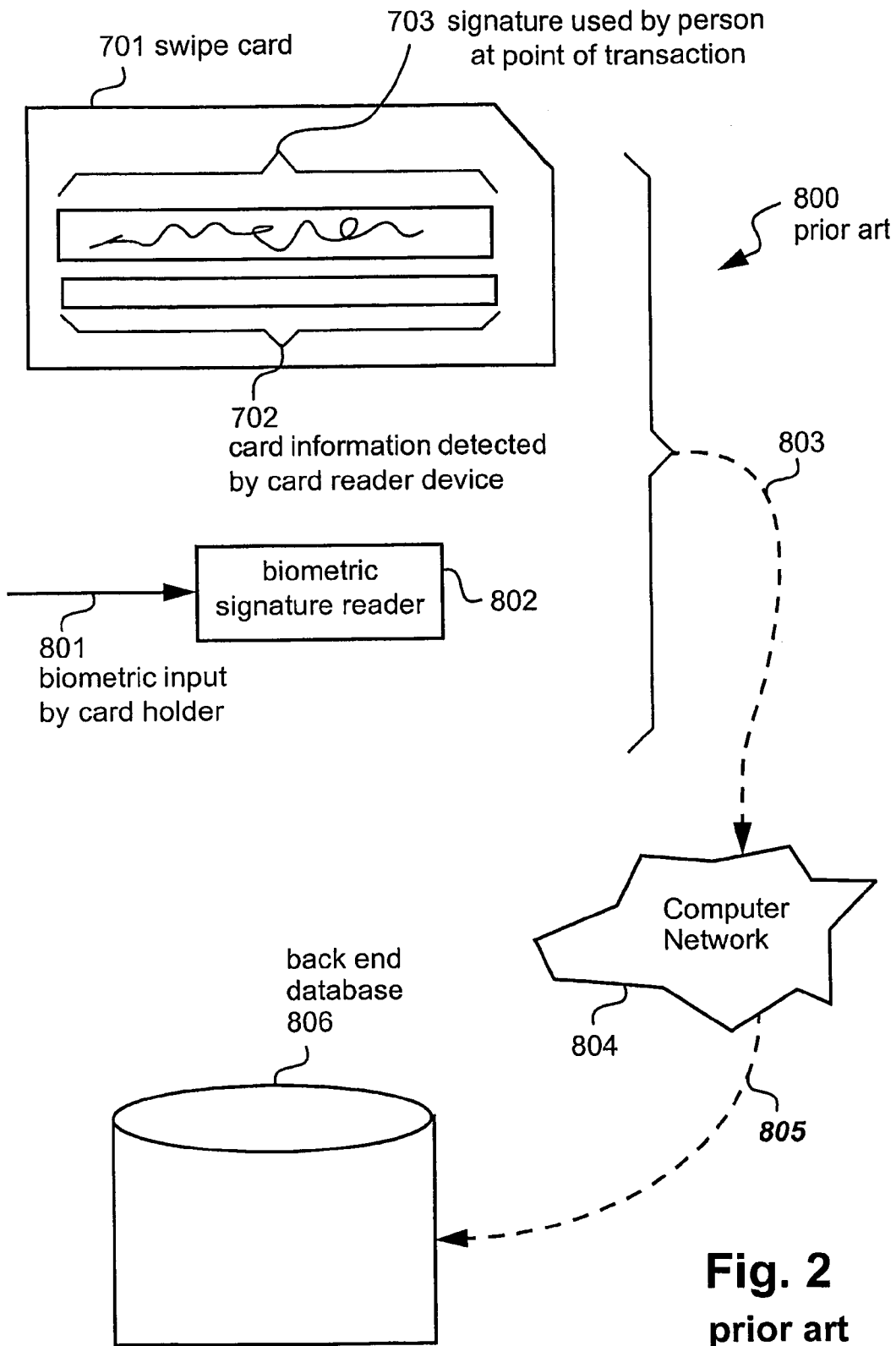


Fig. 1
prior art



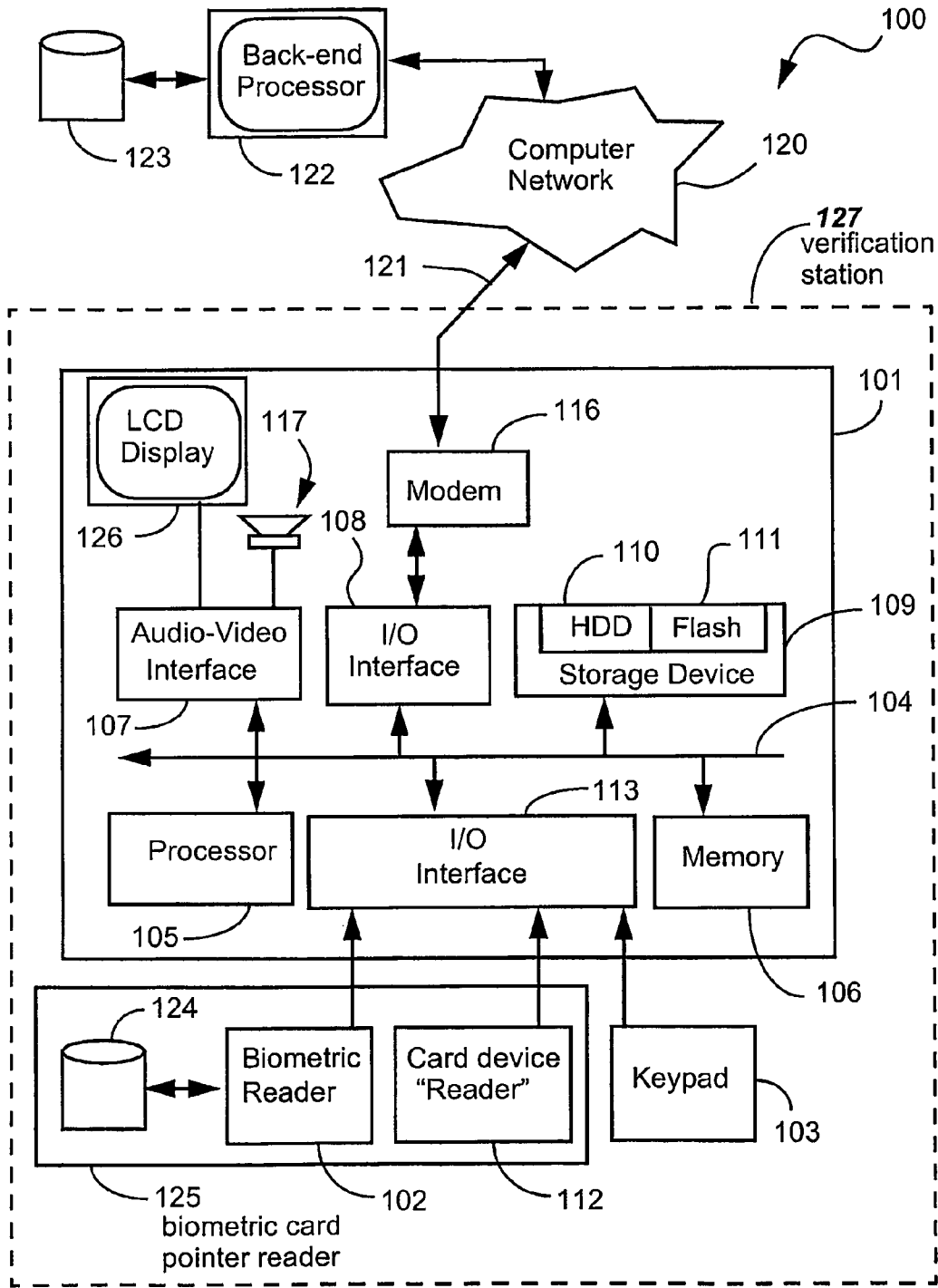


Fig. 3

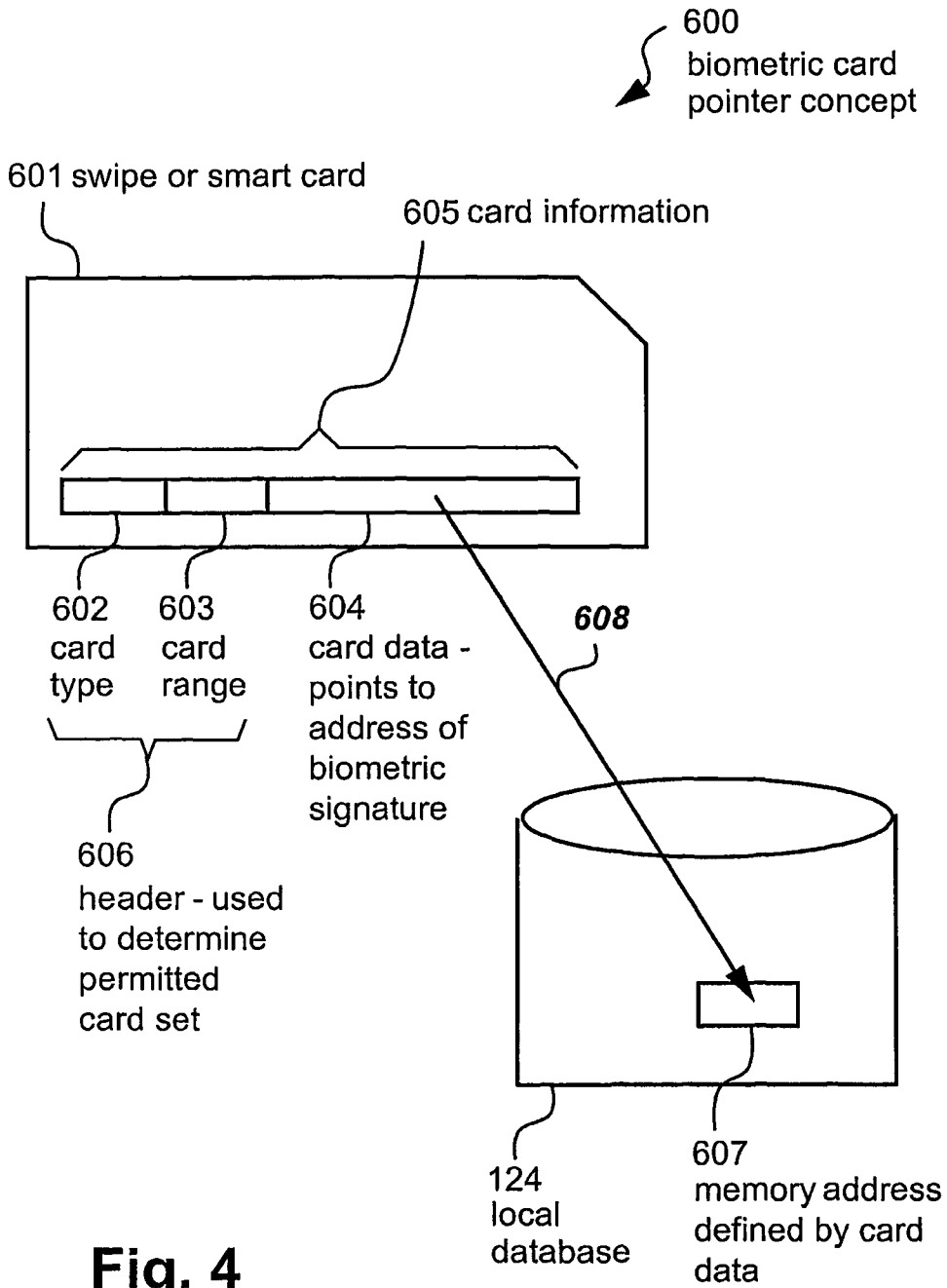


Fig. 4

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.