



US007350717B2

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

(10) **Patent No.:** **US 7,350,717 B2**  
(45) **Date of Patent:** **Apr. 1, 2008**

(54) **HIGH SPEED SMART CARD WITH FLASH MEMORY**

(75) Inventors: **Finis Conner**, Carmel, CA (US);  
**Robert Couse**, Los Gatos, CA (US);  
**An Van Le**, San Jose, CA (US); **Anil Nigam**, Saratoga, CA (US)

(73) Assignee: **Conner Investments, LLC**, Carmel, CA (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.: **11/400,578**

(22) Filed: **Apr. 7, 2006**

(65) **Prior Publication Data**

US 2007/0158439 A1 Jul. 12, 2007

**Related U.S. Application Data**

(60) Provisional application No. 60/741,614, filed on Dec. 1, 2005.

(51) **Int. Cl.**  
**G06K 19/06** (2006.01)

(52) **U.S. Cl.** ..... **235/492; 235/375; 235/451**

(58) **Field of Classification Search** ..... **235/375, 235/492, 451; 761/1**

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,168,077 B1 *	1/2001	Gray et al. ....	235/375
6,439,464 B1 *	8/2002	Fruhauf et al. ....	235/492
6,883,715 B1 *	4/2005	Fruhauf et al. ....	235/492
6,913,196 B2 *	7/2005	Morrow et al. ....	235/451
6,988,250 B1 *	1/2006	Proudlar et al. ....	716/1
2006/0025020 A1 *	2/2006	Yu et al. ....	439/630
2006/0057974 A1 *	3/2006	Ziarno et al. ....	455/98

\* cited by examiner

*Primary Examiner*—Michael G. Lee

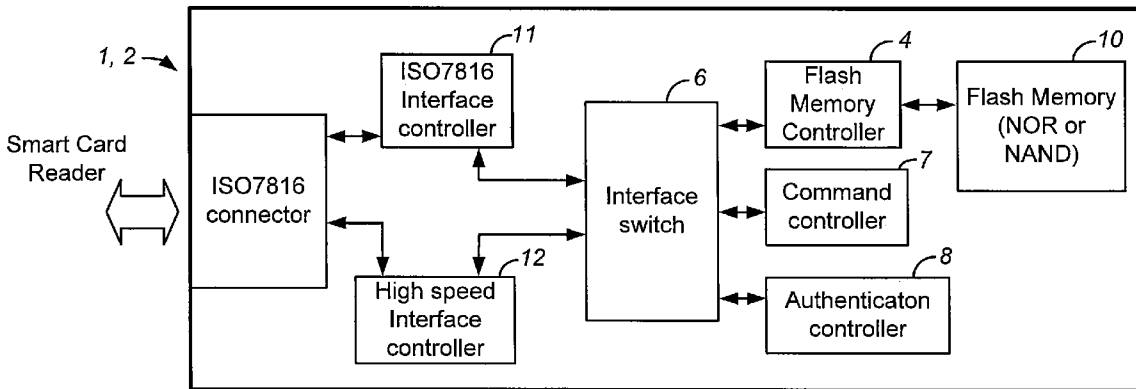
*Assistant Examiner*—Allyson N Trail

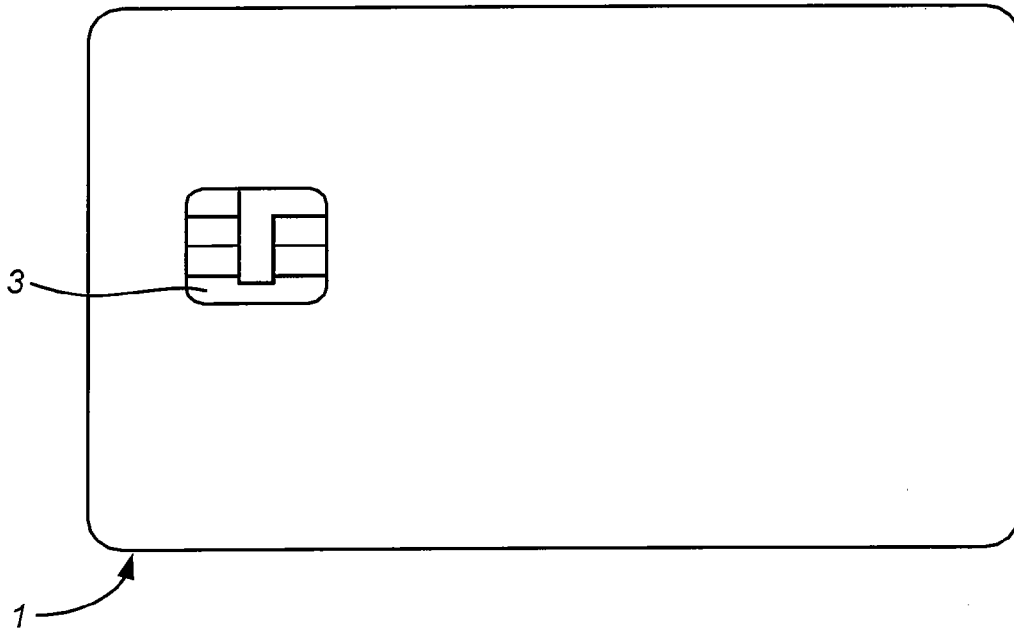
(74) *Attorney, Agent, or Firm*—Townsend and Townsend and Crew LLP

(57) **ABSTRACT**

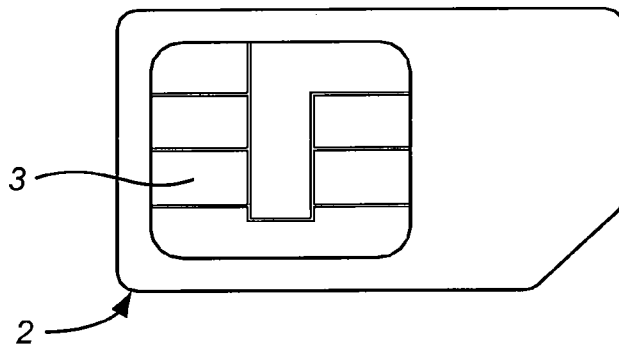
A card and reader system is provided enabling larger storage capacity and faster data transmission. The card is configured in a Smart Card or SIM card format and communicates with either standard Smart Card readers or specially configured readers capable of higher data transmission speeds. Eliminating the processor from the card and including it in the reader allows the cost of the card to be reduced. A software driver installed in existing Smart Card readers enables the additional storage capability of the card to be concealed from the reader, thereby eliminating a need to replace readers already deployed.

**16 Claims, 6 Drawing Sheets**





**FIG. 1**



**FIG. 2**

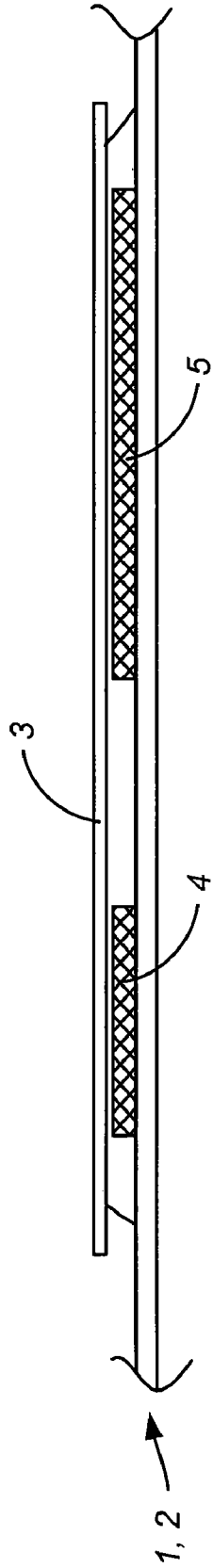


FIG. 3

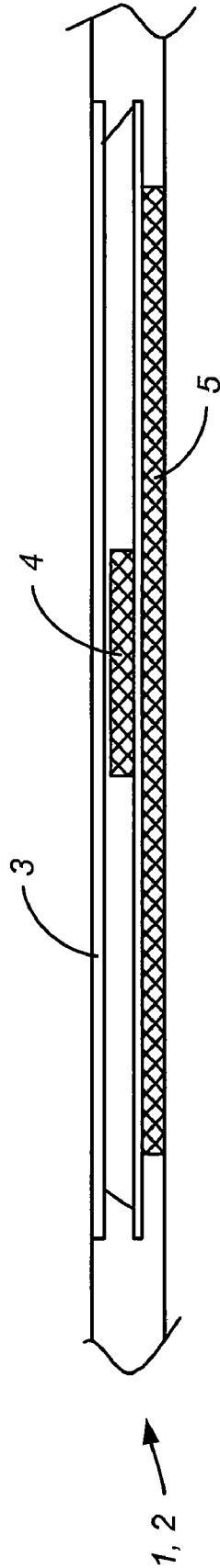
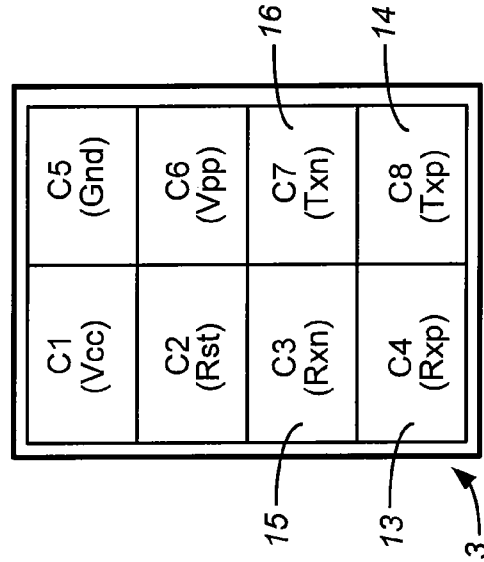
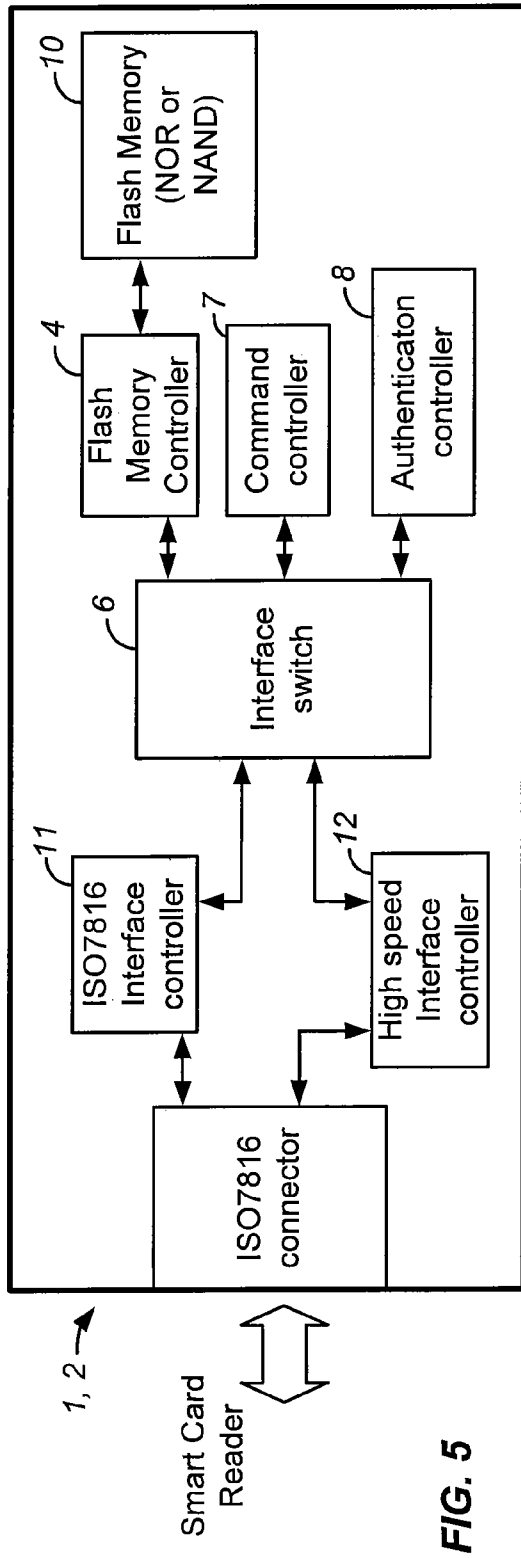


FIG. 4



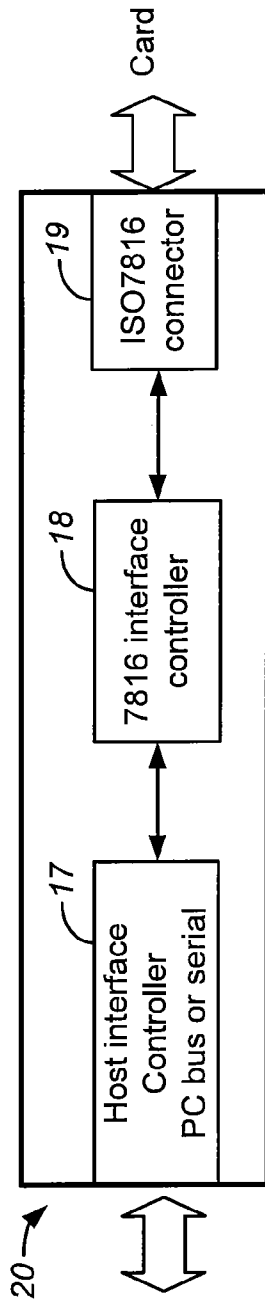


FIG. 7 (PRIOR ART)

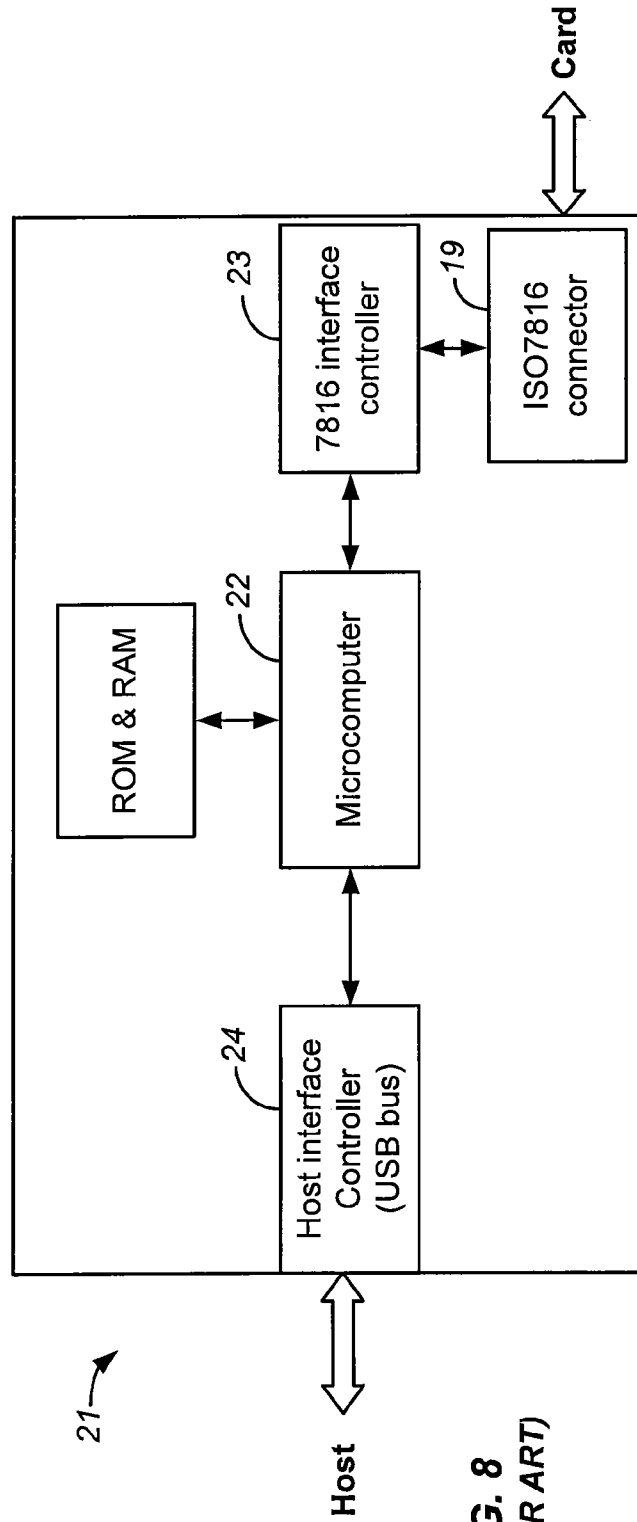


FIG. 8 (PRIOR ART)

# 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.