

US008118221B2

# (12) United States Patent

## Racz et al.

## (10) Patent No.: U

US 8,118,221 B2

(45) **Date of Patent:** 

\*Feb. 21, 2012

#### (54) DATA STORAGE AND ACCESS SYSTEMS

(75) Inventors: Patrick Racz, Saint Heller (JE);

Hermen-ard Hulst, Amsterdam (NL)

(73) Assignee: Smartflash Technologies Limited,

Wickhams' Cay (VG)

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

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 12/943,872

(22) Filed: Nov. 10, 2010

(65) Prior Publication Data

US 2011/0066525 A1 Mar. 17, 2011

### Related U.S. Application Data

(63) Continuation of application No. 12/014,558, filed on Jan. 15, 2008, now Pat. No. 7,942,317, which is a continuation of application No. 11/336,758, filed on Jan. 19, 2006, now Pat. No. 7,334,720, which is a continuation of application No. 10/111,716, filed as application No. PCT/GB00/04110 on Oct. 25, 2000, now abandoned.

(51) Int. Cl.

G06K5/00 (2006.01)

(52) **U.S. Cl.** ...... 235/380; 235/382

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

4,341,951 A 7/1982 Benton 4,697,073 A 9/1987 Hara

5,226,145 A	7/1993	Moronaga et al.
5,367,150 A	11/1994	Kitta et al.
5,406,619 A	4/1995	Akhteruzzaman et al.
5,457,746 A	10/1995	Dolphin
5,532,466 A	7/1996	Konno et al.
5,588,146 A	12/1996	Leroux
5,677,953 A	10/1997	Dolphin
5,703,951 A	12/1997	Dolphin
5,740,369 A	4/1998	Yokozawa et al.
5,744,787 A	4/1998	Teicher
(Continued)		

### FOREIGN PATENT DOCUMENTS

EP 0 195 098 10/1990 (Continued)

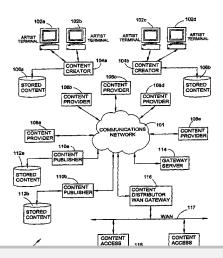
Primary Examiner — Thien M Le

(74) Attorney, Agent, or Firm — Kilpatrick Townsend & Stockton LLP

#### (57) ABSTRACT

Data storage and access systems enable downloading and paying for data such as audio and video data, text, software, games and other types of data. A portable data carrier has an interface for sending and receiving data, data memory for storing received content data, and payment validation memory for providing payment validation data to an external device. The carrier may also store a record of access made to the stored content, and content use rules for controlling access to the stored content. Embodiments store further access control data and supplementary data such as hot links to web sites and/or advertising data. A complementary data access terminal, data supply computer system, and data access device are also described. The combination of payment data and stored content data and use rule data helps reduce the risk of unauthorized access to data such as compressed music and video data, especially over the Internet.

## 33 Claims, 17 Drawing Sheets



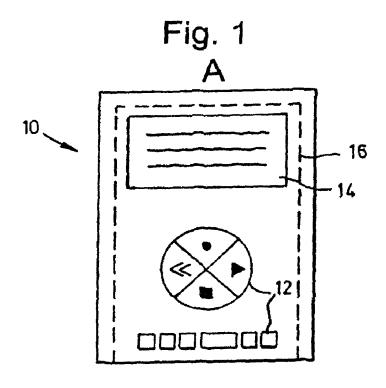


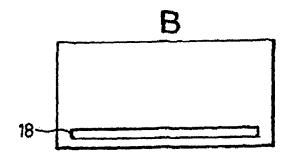
## US 8,118,221 B2

Page 2

U.S.	PATENT	DOCUMENTS	6,747,930 B1 6/2004 Weldon et al.
5754654 4	5/1000	TT'4 -1	6,993,507 B2 1/2006 Meyer et al.
5,754,654 A		Hiroya et al.	6,999,936 B2 2/2006 Sehr
5,794,202 A	8/1998		7,000,836 B2 2/2006 Saeki
5,809,241 A		Hanel et al.	7,044,362 B2 5/2006 Yu
5,845,281 A		Benson et al.	7,083,081 B2 8/2006 McGee et al.
5,847,372 A	12/1998		7,334,720 B2 * 2/2008 Hulst et al
5,889,860 A		Eller et al.	7,677,446 B2 3/2010 Wise
5,901,330 A		Sun et al.	7,942,317 B2 * 5/2011 Racz et al
5,918,213 A	6/1999	Bernard et al.	2003/0168515 A1 9/2003 Gray
5,923,884 A		Peyret et al.	2006/0249570 A1 11/2006 Seifert et al.
5,933,498 A		Schneck et al.	2008/0041938 A1 2/2008 Wise
5,936,220 A		Hoshino et al.	2000 00 113 20 111 21 20 00 11100
6,012,634 A	1/2000	Brogan et al.	FOREIGN PATENT DOCUMENTS
6,018,720 A	1/2000	Fujimoto	FD 0.712.100.12 5/1007
6,078,917 A	6/2000	Paulsen et al.	EP 0 713 198 A2 5/1996
6,119,945 A	9/2000	Muller et al.	EP 0 823 694 A1 2/1998
6,142,369 A	11/2000	Jonstromer	EP 0 542 298 4/1998
6,202,056 B1	3/2001	Nuttall	EP 0 843 449 A2 5/1998
6,385,731 B2	5/2002	Ananda	EP 0 914 001 A1 5/1999
6,415,156 B1	7/2002	Stadelmann	JP 10-269291 A 10/1998
6,424,975 B1	7/2002	Walter et al.	JP 11-53184 A 2/1999
6,442,570 B1	8/2002	Wu	JP 11-212785 A 8/1999
6,473,829 B1	10/2002	Dahman et al.	JP 11-213010 A 8/1999
6,510,236 B1	1/2003	Crane et al.	JP 11-272762 A 10/1999
6,553,413 B1	4/2003	Leighton et al.	WO WO 98/19237 A1 5/1998
6,554,192 B2	4/2003	Tingl	WO 98/33343 7/1998
6,574,643 B2	6/2003	Walter et al.	WO 98/37526 8/1998
6,658,568 B1		Ginter et al.	* cited by examiner
0,030,300 D1	12/2003	Omici ci ai.	cited by examiner







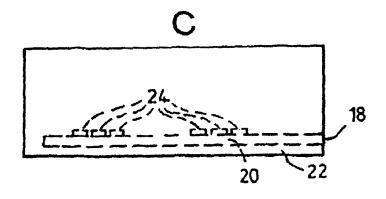




Fig. 2

Feb. 21, 2012

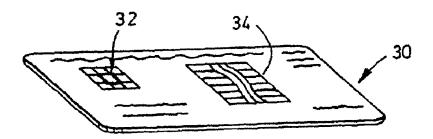
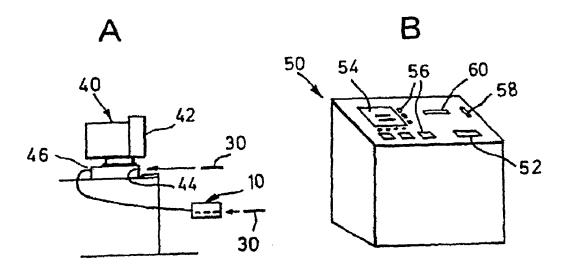
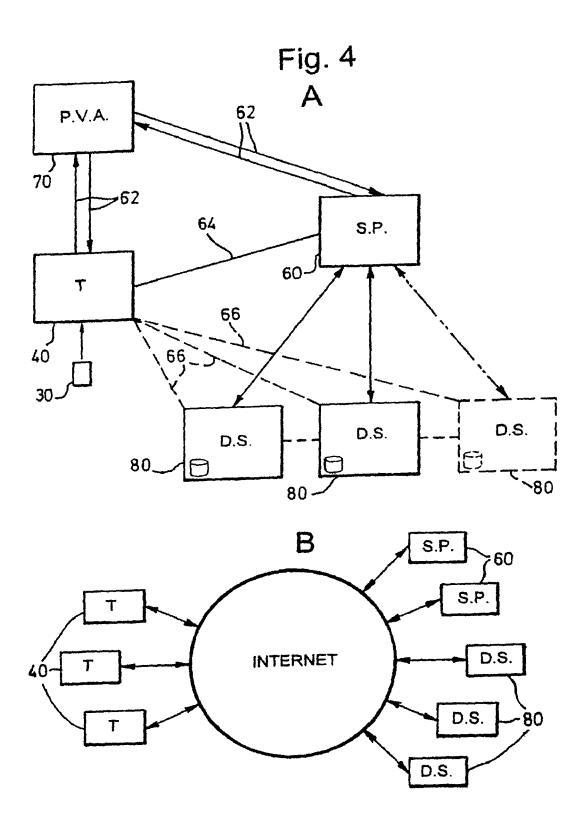


Fig. 3



Feb. 21, 2012





# 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.

