

US008061598B2

# (12) United States Patent

## Racz et al.

## (10) **Patent No.:**

## US 8,061,598 B2

## (45) **Date of Patent:**

\*Nov. 22, 2011

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

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

Hermen-ard Hulst, Amsterdam (NL)

(73) Assignee: Smartflash Technologies Limited,

Tortola (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.: 13/012,541

(22) Filed: Jan. 24, 2011

(65) **Prior Publication Data** 

US 2011/0114723 A1 May 19, 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 on Sep. 17, 2002, now abandoned.
- (51) **Int. Cl. G06K 5/00**

G06K 5/00 (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

5,148,432	A	9/1992	Gordon et al.				
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				
5,754,654	A	5/1998	Hiroya et al.				
5,794,202	A	8/1998	Kim				
(Continued)							

#### FOREIGN PATENT DOCUMENTS

EP 0 195 098 10/1990

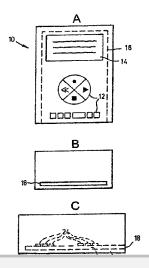
(Continued)

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.

#### 41 Claims, 17 Drawing Sheets



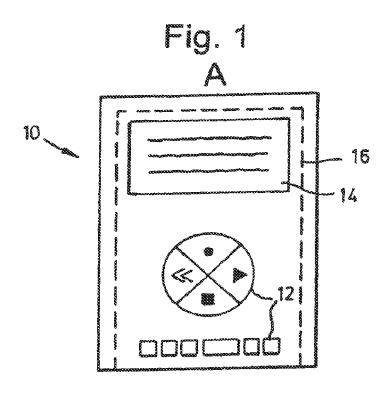


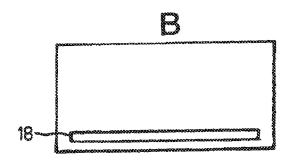
## US 8,061,598 B2

Page 2

11.0	DATENT	DOCUMENTO	6,002,505	7 D3	1/2006	M	
U.S. PATENT DOCUMENTS			6,993,507			Meyer et al.	
5,809,241 A	9/1998	Hanel et al.	6,999,936		2/2006	Sehr	
5,845,201 A		Funke et al.	7,000,836		2/2006		
5,845,281 A		Benson et al.	7,044,362		5/2006		
5,847,372 A	12/1998		7,083,081		8/2006	McGee et al.	
5,874,760 A		Burns et al.	7,334,720			Hulst et al.	
5,889,860 A		Eller et al.	7,677,446		3/2010		
5,901,330 A	5/1999		2003/0163594		8/2003	Aasheim et al.	
	6/1999	Bernard et al.	2003/0168515	A1	9/2003	Gray	
5,918,213 A			2006/0179211	A1	8/2006	Aasheim et al.	
5,923,884 A		Peyret et al.	2006/0249570	) A1	11/2006	Seifert et al.	
5,933,498 A		Schneck et al.	2007/0162300	) A1*	7/2007	Roever et al 705/1	
5,936,220 A	8/1999	Hoshino et al.	2008/0041938	3 A1	2/2008	Wise	
6,012,634 A	1/2000	Brogan et al.	2008/0314974	1 A1*	12/2008	Hulst et al 235/380	
6,018,720 A		Fujimoto					
6,078,917 A		Paulsen et al.	FOREIGN PATENT DOCUMENTS				
6,119,945 A		Muller et al.	EP	0.713	3 198 A2	5/1996	
6,142,369 A		Jonstromer	EP		3 694 A1	2/1998	
6,202,056 B1		Nuttall	EP EP	0.542		4/1998	
6,385,731 B2		Ananda					
		Stadelmann 455/466	EP		3 449 A2	5/1998	
6,424,975 B1		Walter et al.	EP		1001 A1	5/1999	
6,442,570 B1	8/2002		JP		9291 A	10/1998	
6,473,829 B1		Dahman et al.	JP		3184 A	2/1999	
6,510,236 B1	1/2003	Crane et al.	JP		2785 A	8/1999	
6,553,413 B1	4/2003	Leighton et al.	JP		3010 A	8/1999	
6,554,192 B2	4/2003	Tingl	JP		2762 A	10/1999	
6,574,643 B2	6/2003	Walter et al.			9237 A1	5/1998	
6,658,568 B1	12/2003	Ginter et al.		O 98/3		7/1998	
6.721.749 B1	4/2004	Najm et al.	WO W	O 98/3	7526	8/1998	
6,747,930 B1		Weldon et al.	* cited by exa	miner			
5,7 17,550 DI	0, 2001		chea of the				







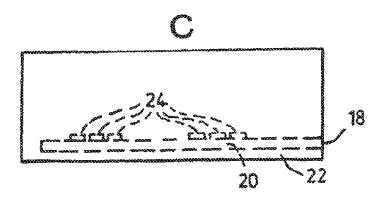




Fig. 2

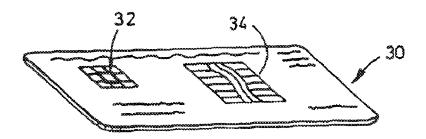
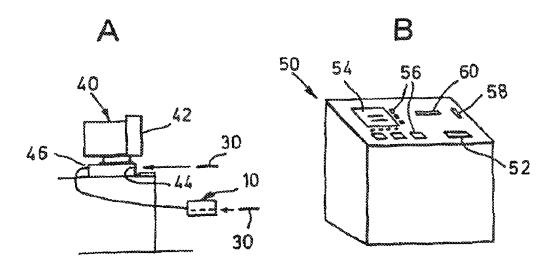
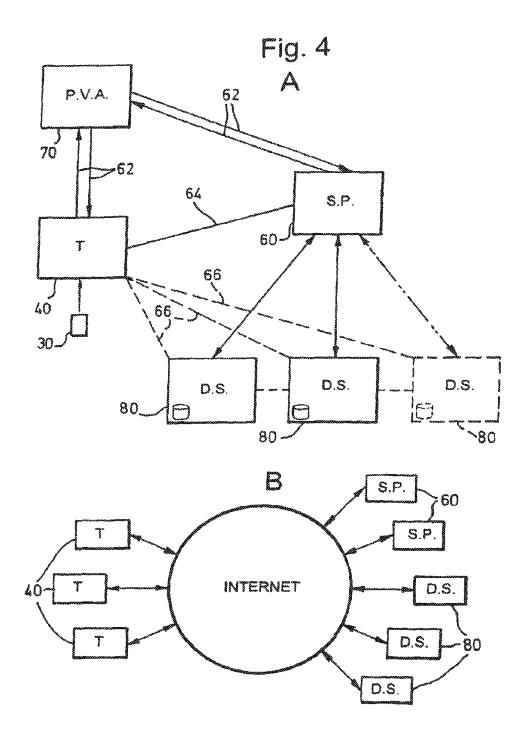


Fig. 3







# 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.

