

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

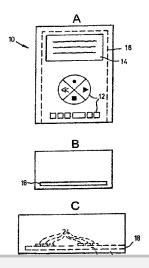
(Continued)

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



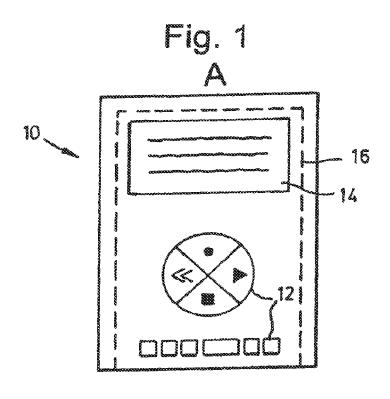


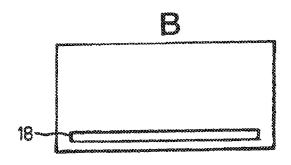
US 8,061,598 B2

Page 2

II O D	A TELES ITE	DOCLINATENITES	6 002 505	, D2	1/2006	M
U.S. P.	ALENT	DOCUMENTS	6,993,507			Meyer et al.
5,809,241 A	9/1998	Hanel et al.	6,999,936		2/2006	Sehr
		Funke et al.	7,000,836		2/2006	
, ,		Benson et al.	7,044,362		5/2006	
	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.
5,918,213 A		Bernard et al.	2003/0168515		9/2003	Gray
		Peyret et al.	2006/0179211	. A1	8/2006	Aasheim et al.
5,923,884 A 5,933,498 A		Schneck et al.	2006/0249570) A1	11/2006	Seifert 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		Brogan et al.	2008/0314974	A1*	12/2008	Hulst et al 235/380
6,018,720 A		Fujimoto				
6,078,917 A		Paulsen et al.	FC	DREIC	3N PATE	NT DOCUMENTS
6,119,945 A		Muller et al.	EP	0.713	3 198 A2	5/1996
		Jonstromer	EP		694 A1	2/1998
6,202,056 B1	3/2001		EP	0 542		4/1998
6,385,731 B2		Ananda	EP EP		2 298 3 449 A2	5/1998
		Stadelmann 455/466				5/1998
6,424,975 B1		Walter et al.	EP JP		1 001 A1 9291 A	10/1998
6,442,570 B1	8/2002					
		Dahman et al.	JP		3184 A	2/1999
6,510,236 B1	1/2003		JP		2785 A	8/1999
6,553,413 B1		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		
,,		5.5.555				







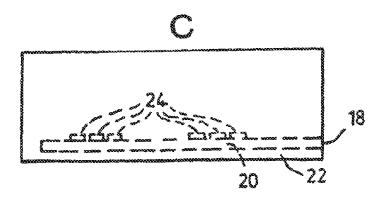




Fig. 2

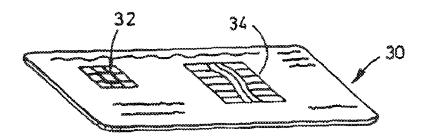
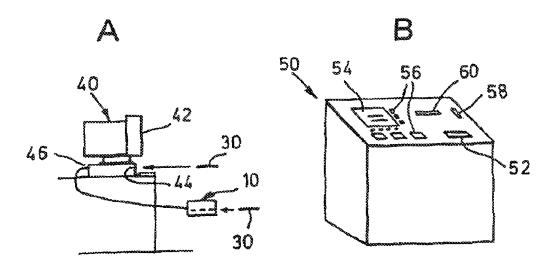
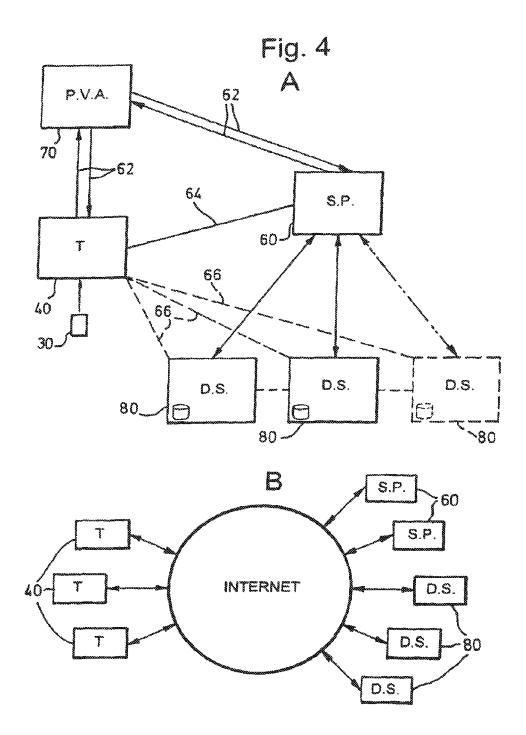


Fig. 3







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.

