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Racz et al.

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

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This patent is subject to a terminal dis-

claimer.

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## Related U.S. Application Data

(63) Continuation of application No. 12/943,872, filed on Nov. 10, 2010, now Pat. No. 8,118,221, which is a 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	(2006.01)

- (52) **U.S. Cl.** ...... 235/380; 235/492

See application file for complete search history.

## (56) References Cited

#### U.S. PATENT DOCUMENTS

4.341.951 A	7/1982	Benton				
4,590,365 A *		Okada 235/379				
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				
5,682,027 A *	10/1997	Bertina et al 235/380				
(Continued)						

## FOREIGN PATENT DOCUMENTS

EP 0 195 098 10/1990 (Continued)

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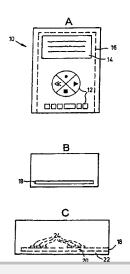
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## (57) ABSTRACT

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.

## 36 Claims, 17 Drawing Sheets



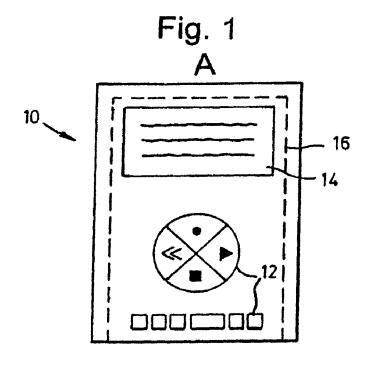


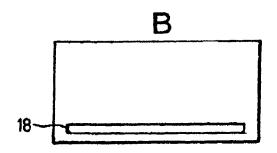
## US 8,336,772 B2

Page 2

U.S. 1	PATENT	DOCUMENTS	6,721,749			Najm et al.
5,703,951 A	12/1007	Dolphin	6,747,930			Weldon et al.
5,740,369 A		Yokozawa et al.	6,981,179	B1*	12/2005	Shigemasa et al 714/36
		Teicher	6,993,507	B2	1/2006	Meyer et al.
5,744,787 A			6,999,936	B2	2/2006	Sehr
5,754,654 A		Hiroya et al.	7,000,836	B2	2/2006	Saeki
5,794,202 A	8/1998		7,044,362	B2	5/2006	Yu
5,809,241 A		Hanel et al.	7,083,081	B2	8/2006	McGee et al.
5,845,201 A		Funke et al.	7,334,720		2/2008	Hulst et al.
5,845,281 A		Benson et al.	7,677,446	B2	3/2010	Wise
5,847,372 A	12/1998		7,942,317		5/2011	Racz et al.
5,874,760 A		Burns et al.	2003/0163594		8/2003	Aasheim et al.
5,889,860 A		Eller et al.	2003/0168515		9/2003	Gray
5,901,330 A	5/1999		2006/0179211		8/2006	Aasheim et al.
5,918,213 A		Bernard et al.	2006/0249570		11/2006	Seifert et al.
5,923,884 A		Peyret et al.	2007/0162300		7/2007	Roever et al.
5,933,498 A		Schneck et al.	2008/0041938		2/2008	
5,936,220 A		Hoshino et al.	2008/0314974			Hulst et al.
6,012,634 A	1/2000	Brogan et al.	2000/031437-	711	12/2000	Traist et al.
6,018,720 A	1/2000	Fujimoto	FO	DREI	GN PATE	NT DOCUMENTS
6,025,973 A *	2/2000	Mizoshita et al 360/98.08				
6,078,917 A	6/2000	Paulsen et al.	EP		3 198 A2	5/1996
6,119,945 A	9/2000	Muller et al.	EP		3 694 A1	2/1998
6,142,369 A	11/2000	Jonstromer	EP		2 298	4/1998
6,202,056 B1	3/2001	Nuttall	EP		3 449 A2	5/1998
6,385,731 B2	5/2002	Ananda	EP		4 001 A1	5/1999
6,415,156 B1	7/2002	Stadelmann	JP		59291 A	10/1998
6,424,975 B1	7/2002	Walter et al.	JP		53184 A	2/1999
6,442,570 B1	8/2002		JP		12785 A	8/1999
6,473,829 B1		Dahman et al.	JP		13010 A	8/1999
6,510,236 B1		Crane et al.	JP	11-27	72762 A	10/1999
6,553,413 B1		Lewin et al.	WO W	O 98/:	19237 A1	5/1998
, ,			WO W	O 98/3	33343	7/1998
6,554,192 B2	4/2003	Tingl	WO W	O 98/3	37526	8/1998
6,574,643 B2	6/2003	Walter et al.				
6,658,568 B1	12/2003	Ginter et al.	* cited by exa	mine	r	







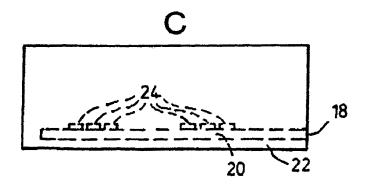




Fig. 2

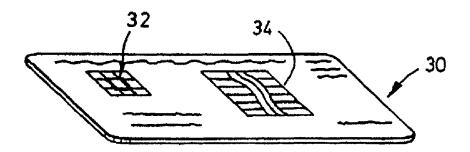
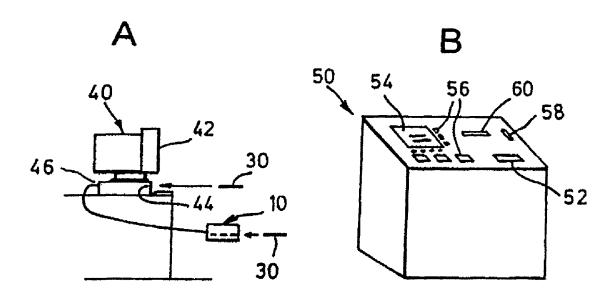
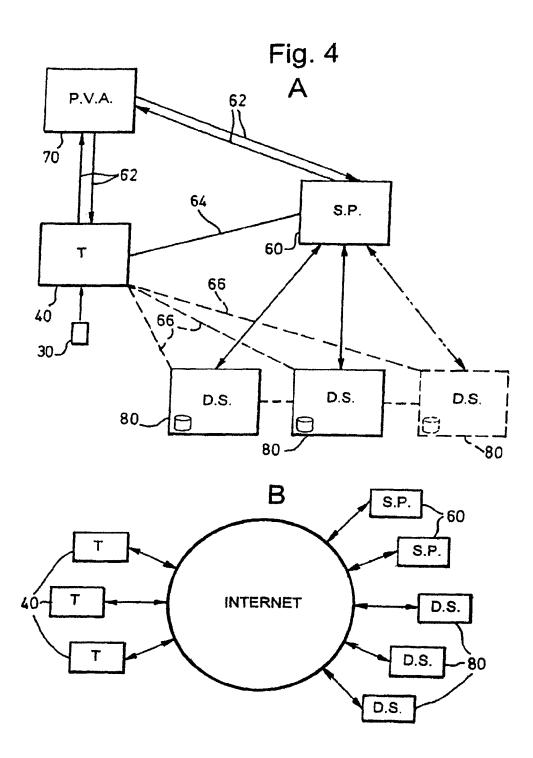


Fig. 3









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