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(54) DATA STORAGE AND ACCESS SYSTEMS

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patent is extended or adjusted under 35

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

This patent is subject to a terminal dis-

claimer.

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- (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.
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G06K 5/00 (2006.01)

(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)

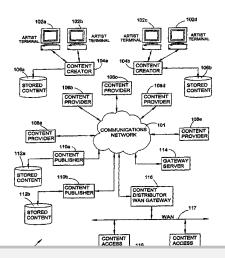
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(57) ABSTRACT

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.

33 Claims, 17 Drawing Sheets



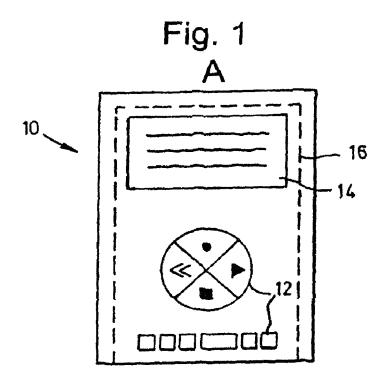


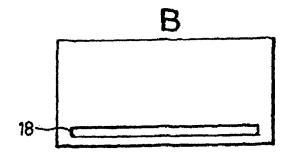
US 8,118,221 B2

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U.S. PATENT	DOCUMENTS	6,747,930			Weldon et al.	
5,754,654 A 5/1998	Hiroya et al.	6,993,507			Meyer et al.	
5,794,202 A 8/1998		6,999,936		2/2006	Sehr	
	Hanel et al.	7,000,836		2/2006	Saeki	
	Benson et al.	7,044,362		5/2006	Yu	
5,847,372 A 12/1998		7,083,081			McGee et al.	
	Eller et al.	7,334,720		2/2008		235/380
5,901,330 A 5/1999		7,677,446		3/2010	Wise	
	Bernard et al.	7,942,317	B2 *		Racz et al	235/380
	Peyret et al.	2003/0168515		9/2003	Gray	
		2006/0249570	A1 1	1/2006	Seifert et al.	
		2008/0041938	A1	2/2008	Wise	
, ,	Hoshino et al.					
6,012,634 A 1/2000		FC	REIGN	N PATE	NT DOCUMENTS	
6,018,720 A 1/2000		EP	0 713 1	98 42	5/1996	
	Paulsen et al.	EP	0 823 6		2/1998	
	Muller et al.	EP	0 542 2		4/1998	
6,142,369 A 11/2000	Jonstromer	EP	0 843 4		5/1998	
, ,	Nuttall	EP	0 914 0		5/1999	
	Ananda		10-2692		10/1998	
6,415,156 B1 7/2002		JP	11-531		2/1999	
6,424,975 B1 7/2002			11-2127		8/1999	
6,442,570 B1 8/2002			11-2130		8/1999	
	Dahman et al.		11-2130		10/1999	
	Crane et al.					
6,553,413 B1 4/2003	Leighton et al.	WO WC	98/192 98/333		5/1998	
6,554,192 B2 4/2003	Ting1				7/1998	
6,574,643 B2 6/2003	Walter et al.	WO	98/375	20	8/1998	
6,658,568 B1 12/2003	Ginter et al.	* cited by exar	niner			
		•				







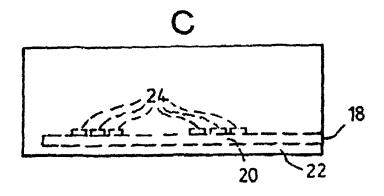




Fig. 2

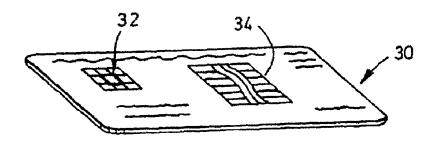
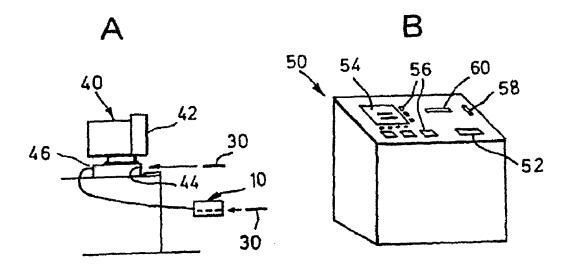
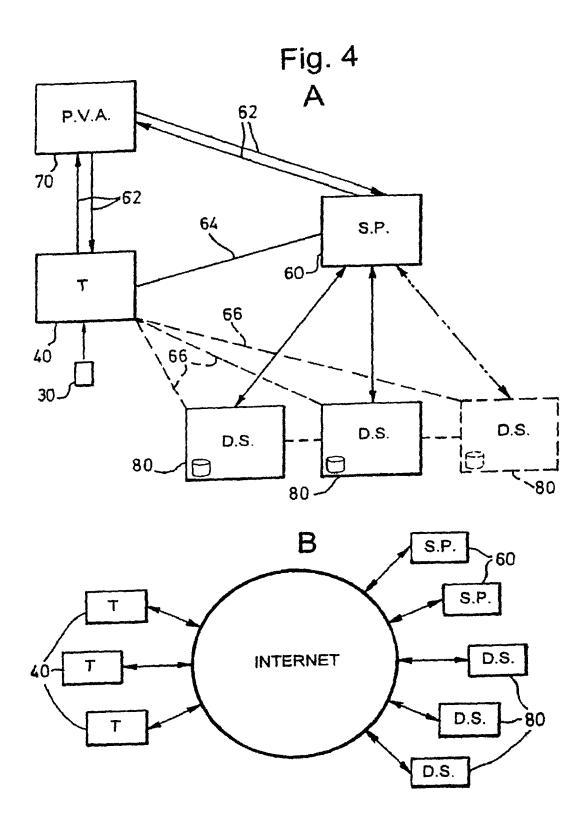


Fig. 3









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