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# (12) United States Patent

## Racz et al.

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### (54) DATA STORAGE AND ACCESS SYSTEMS

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(\*) 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

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(65) **Prior Publication Data** 

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## 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* (2006.01)

## (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)

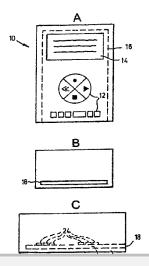
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## (57) ABSTRACT

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.

## 41 Claims, 17 Drawing Sheets

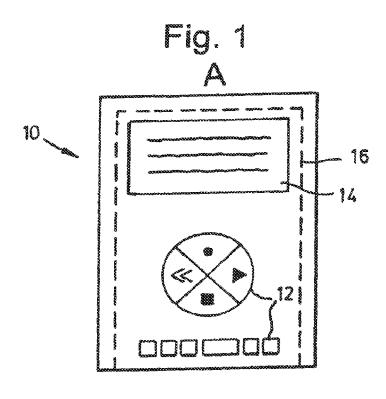


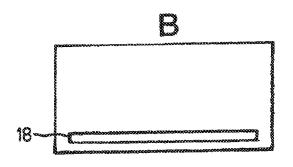


# **US 8,061,598 B2**Page 2

U.S. PATENT	DOCUMENTS	6,993,507	B2	1/2006	Meyer et al.
5 900 241 A 0/1009	II	6,999,936	B2	2/2006	Sehr
-,,	Hanel et al.	7,000,836	B2	2/2006	Saeki
	Funke et al.	7,044,362	B2	5/2006	Yu
	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.
5,874,760 A 2/1999		7,677,446	B2	3/2010	Wise
	Eller et al.	2003/0163594	$\mathbf{A}1$	8/2003	Aasheim et al.
, ,	Sun et al.	2003/0168515	$\mathbf{A}1$	9/2003	Gray
	Bernard et al.	2006/0179211	$\mathbf{A}1$	8/2006	Aasheim et al.
	Peyret et al.	2006/0249570	A1	11/2006	Seifert et al.
, ,	Schneck et al.	2007/0162300	A1*	7/2007	Roever et al 705/1
5,936,220 A 8/1999		2008/0041938	A1	2/2008	Wise
	Brogan et al.	2008/0314974	A1*	12/2008	Hulst et al 235/380
	Fujimoto				
	Paulsen et al.	FC	DREIG:	n patei	NT DOCUMENTS
	Muller et al.	EP	0.712	198 A2	5/1996
, ,	Jonstromer	EP		198 AZ 694 A1	2/1998
- , ,	Nuttall	EP EP	0 542		4/1998
	Ananda				
, ,	Stadelmann 455/466	EP		449 A2	5/1998
6,424,975 B1 7/2002	Walter et al.	EP		001 A1	5/1999
6,442,570 B1 8/2002		JP	10-269		10/1998
	Dahman et al.	JP		184 A	2/1999
6,510,236 B1 1/2003	Crane et al.	JP	11-212		8/1999
6,553,413 B1 4/2003	Leighton et al.	JР	11-213		8/1999
6,554,192 B2 4/2003	Tingl	JP	11-272		10/1999
6,574,643 B2 6/2003	Walter et al.			237 A1	5/1998
6,658,568 B1 12/2003	Ginter et al.		O 98/33		7/1998
6,721,749 B1 4/2004	Najm et al.	WO WO	O 98/37	526	8/1998
	Weldon et al.	* cited by exa	miner		
, ,		5			







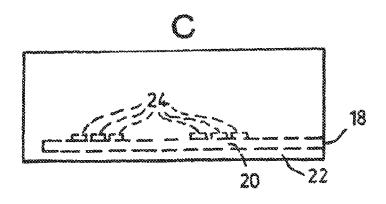




Fig. 2

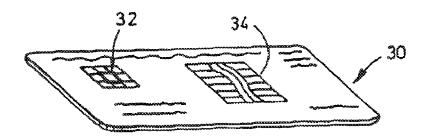
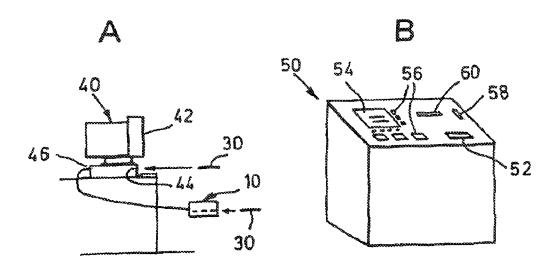
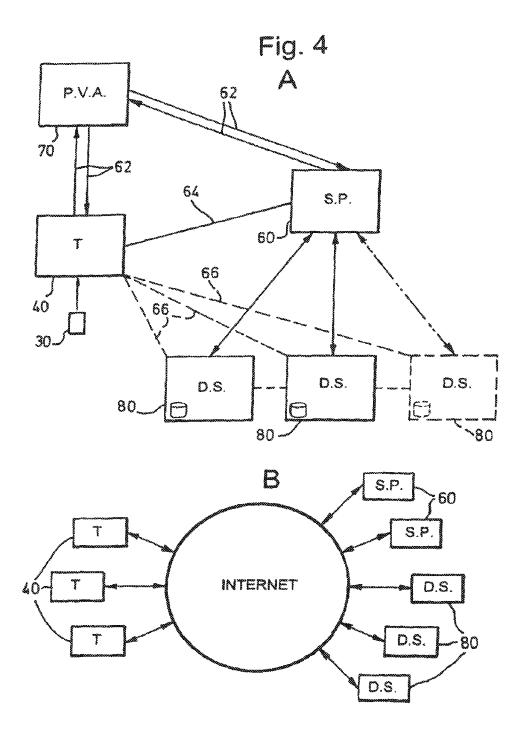


Fig. 3







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