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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.

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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 as application No. PCT/GB00/04110 on Oct. 25, 2000, now abandoned.
- (51) Int. Cl. *G06K 5/00* (2006.01)
- (52) **U.S. Cl.** ...... 235/380; 235/382

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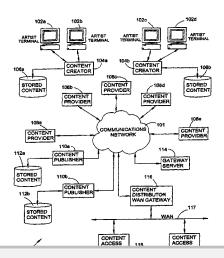
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### (57) ABSTRACT

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.

### 33 Claims, 17 Drawing Sheets

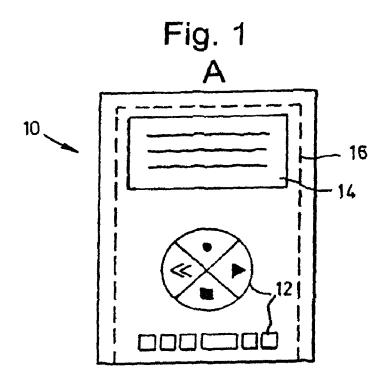


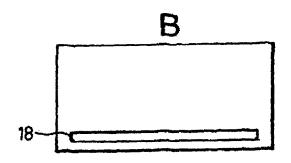


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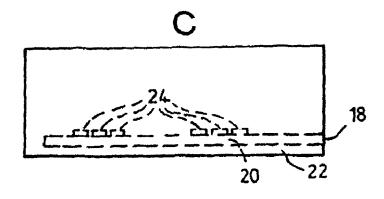




Fig. 2

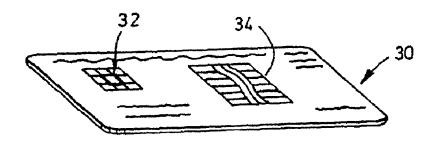
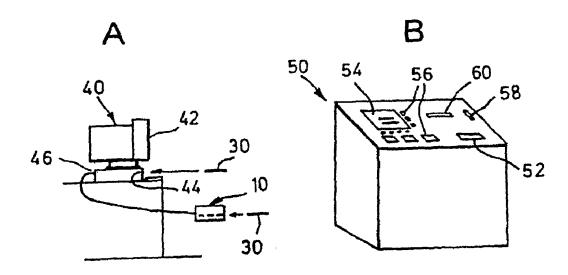
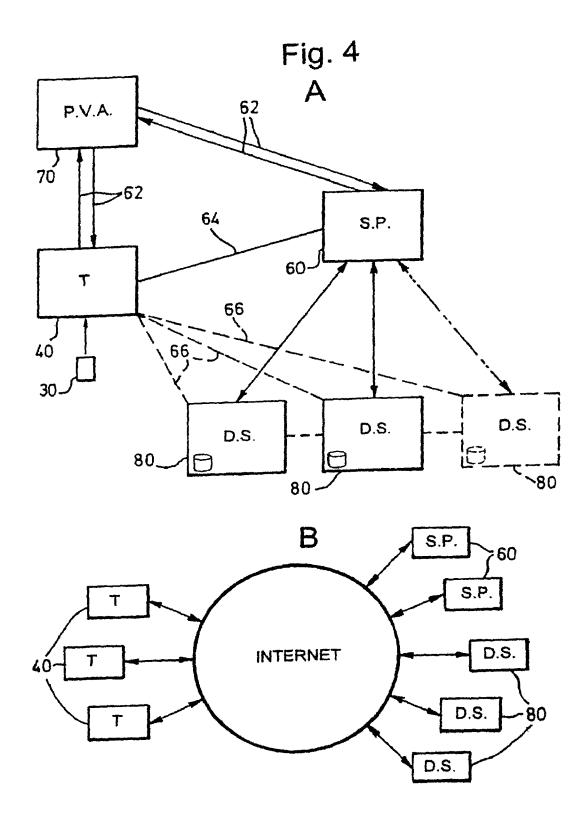


Fig. 3







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