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Racz et al.

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

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patent is extended or adjusted under 35
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This patent is subject to a terminal dis-
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Jan. 19, 2006, now Pat. No. 7,334,720, which is a
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application No. PCT/GB00/04110 on Oct. 25, 2000,
now abandoned.

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G06K 5/00 (2006.01)

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(58) **Field of Classification Search** 235/451,
235/380, 382, 492; 711/100, 101, 103
See application file for complete search history.

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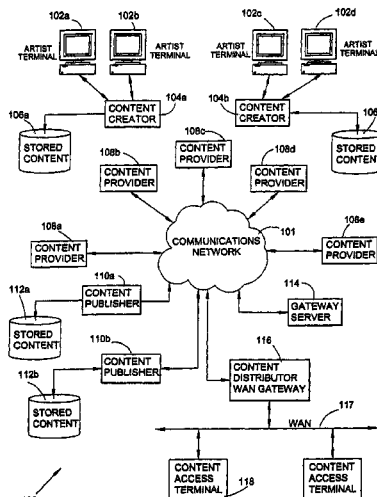
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(57) **ABSTRACT**

Data storage and access systems are described for download-
ing 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, non-
volatile data memory for storing received content data and
non-volatile payment validation memory for providing pay-
ment 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.
Preferred 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 con-
tent data and, in preferred embodiments, use rule data, helps
reduce the risk of unauthorized access to data such as com-
pressed music and video data, especially over the Internet.

19 Claims, 17 Drawing Sheets



US 7,942,317 B2

Page 2

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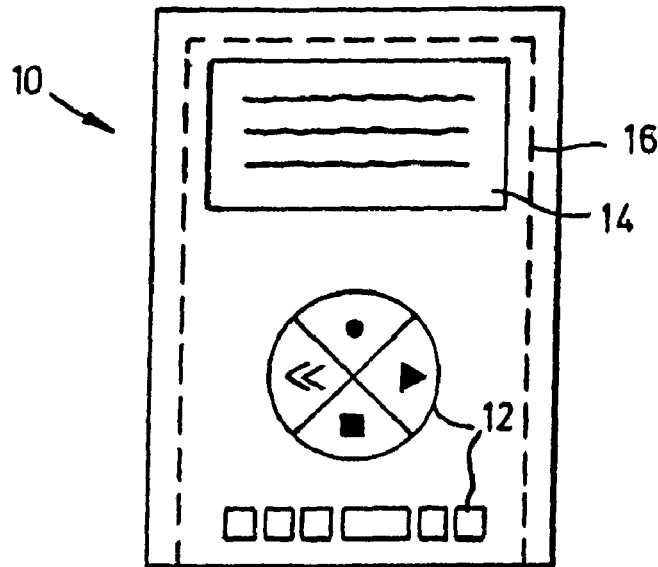
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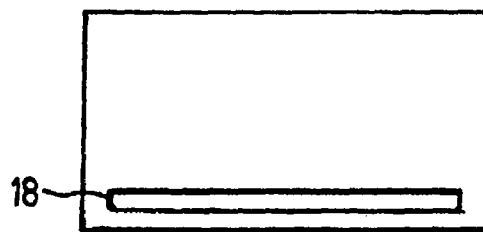
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Fig. 1

A



B



C

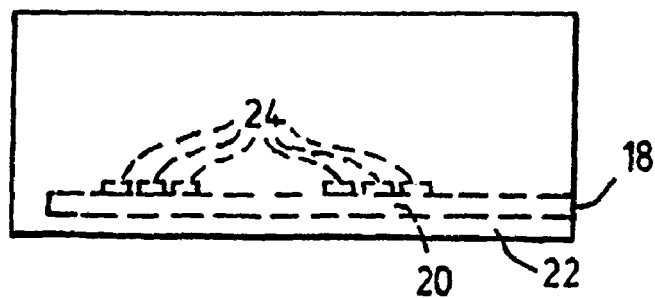


Fig. 2

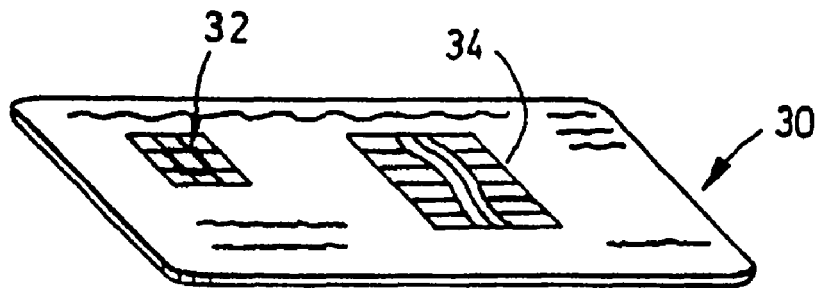


Fig. 3

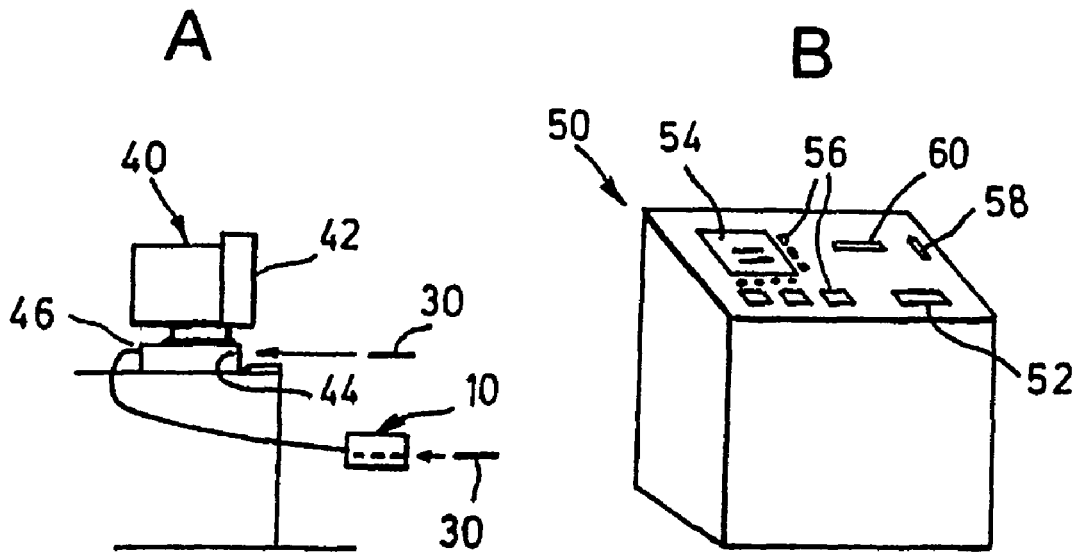
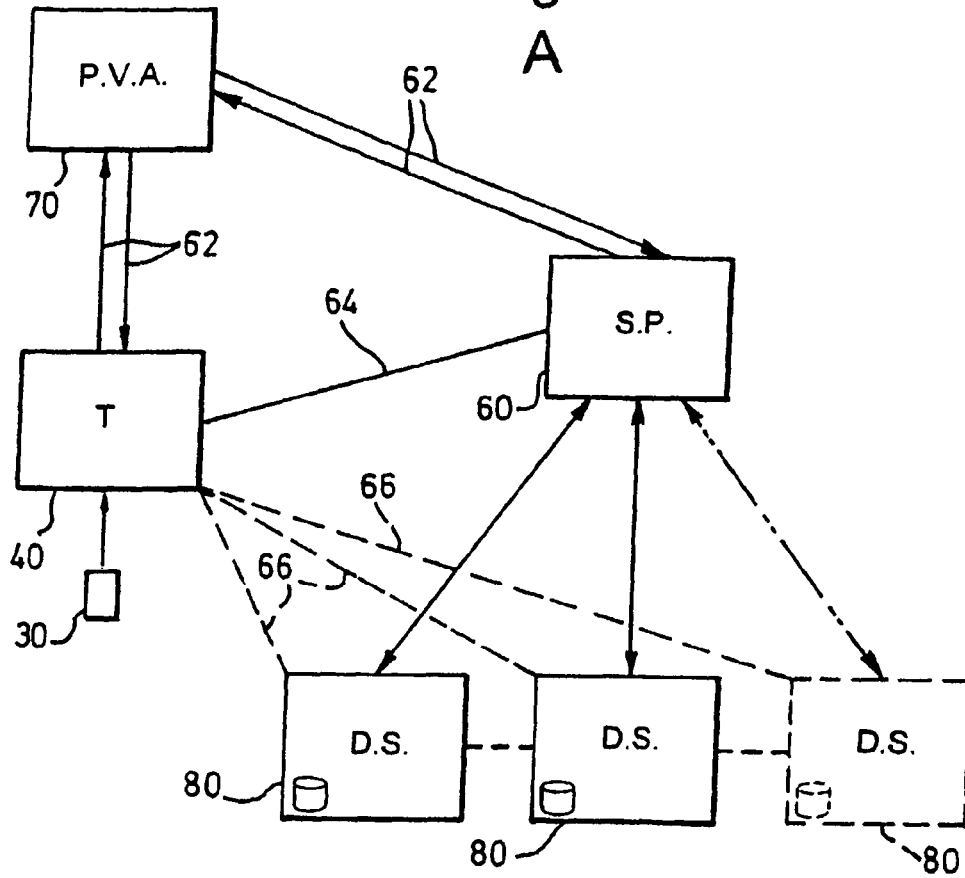
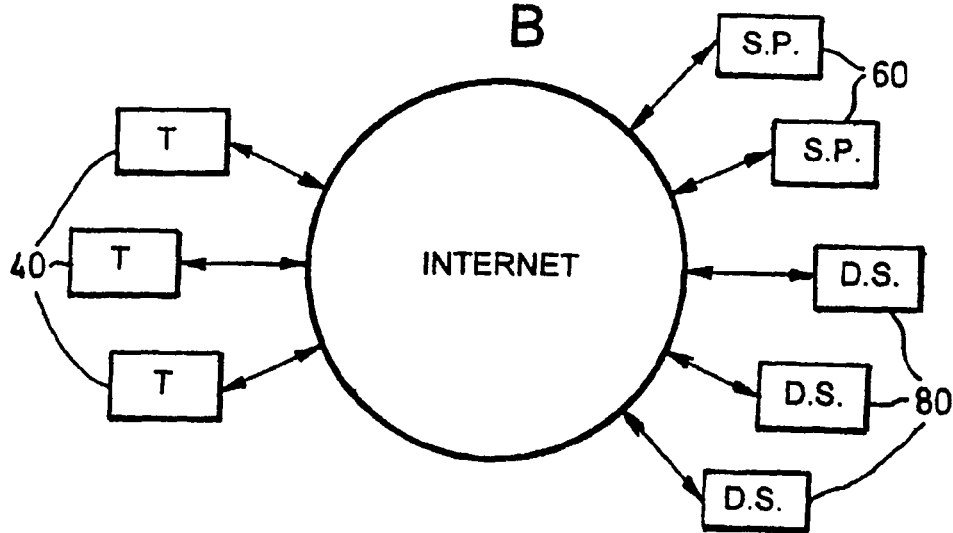


Fig. 4
A



B



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