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(54) **METHOD AND APPARATUS FOR PROVIDING VERSATILE SERVICES ON STORAGE DEVICES**

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Publication Classification

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(52) **U.S. Cl.** **726/27; 713/193**

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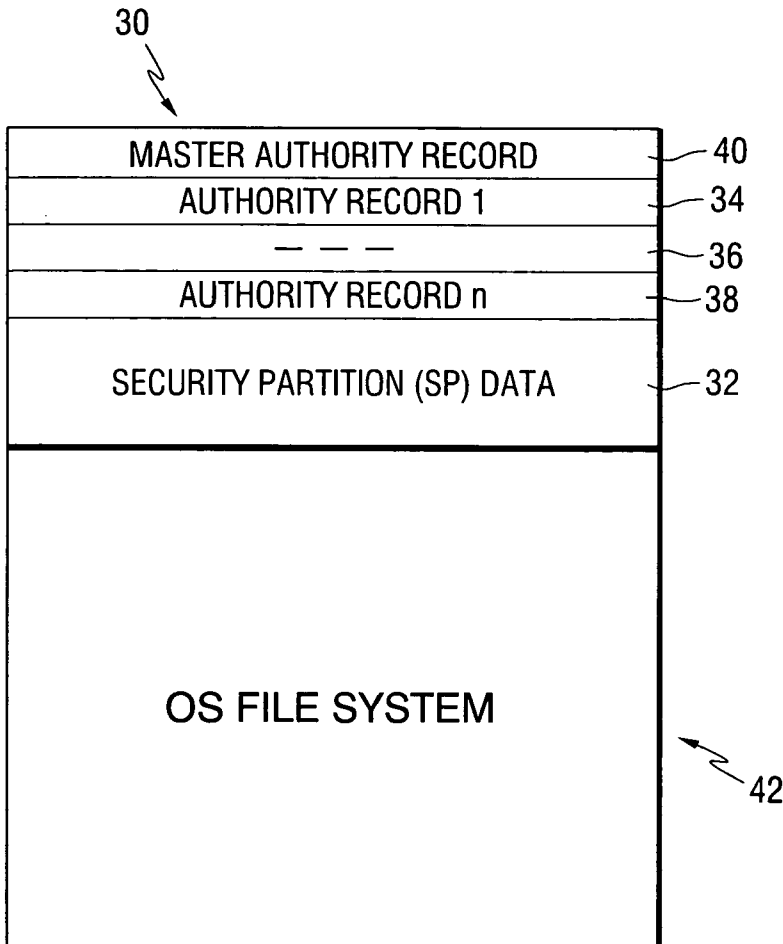
(22) Filed: **Jan. 31, 2006**

(57) **ABSTRACT**

Related U.S. Application Data

(63) Continuation-in-part of application No. 11/178,908, filed on Jul. 11, 2005.

An apparatus comprises a data storage device including a plurality of virtual smart cards in a plurality of security partitions, and a controller including a card operating system for controlling access to the smart cards.



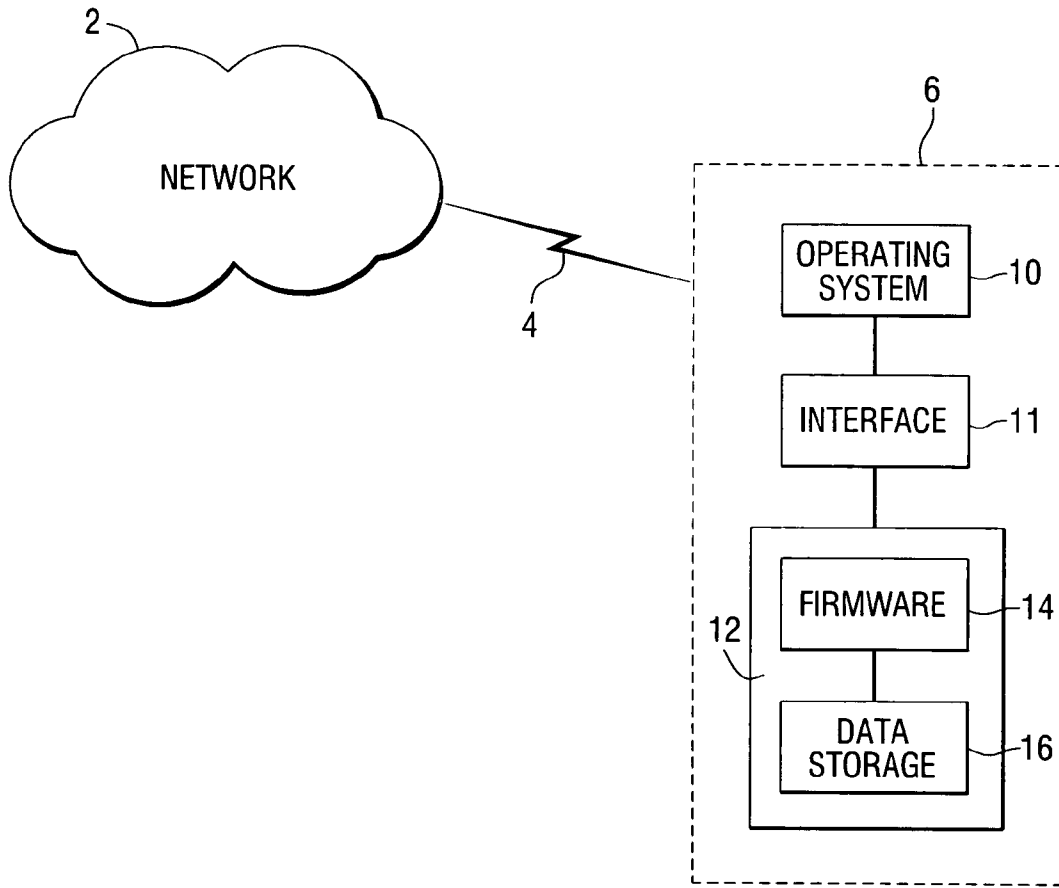


FIG. 1

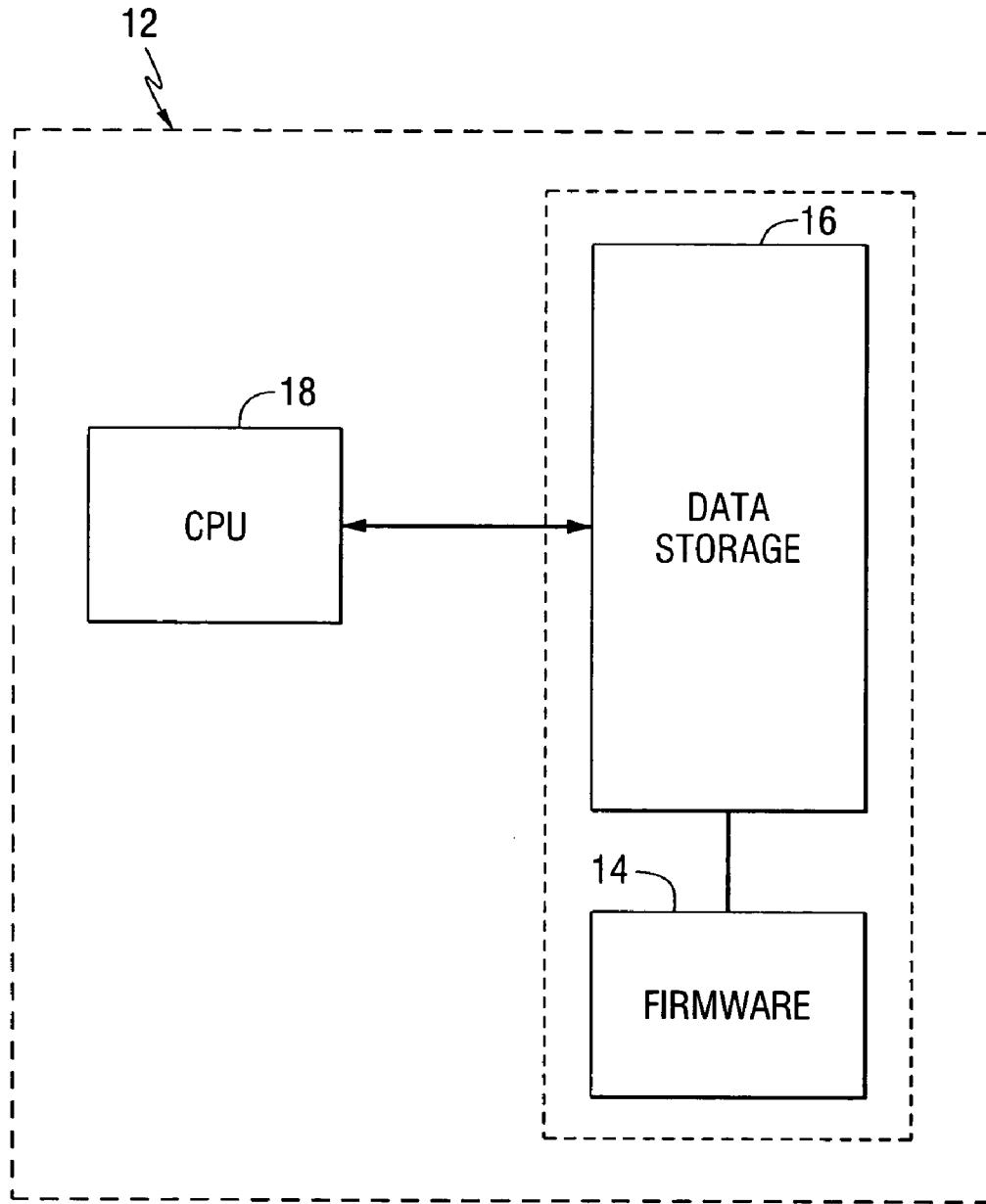


FIG. 2

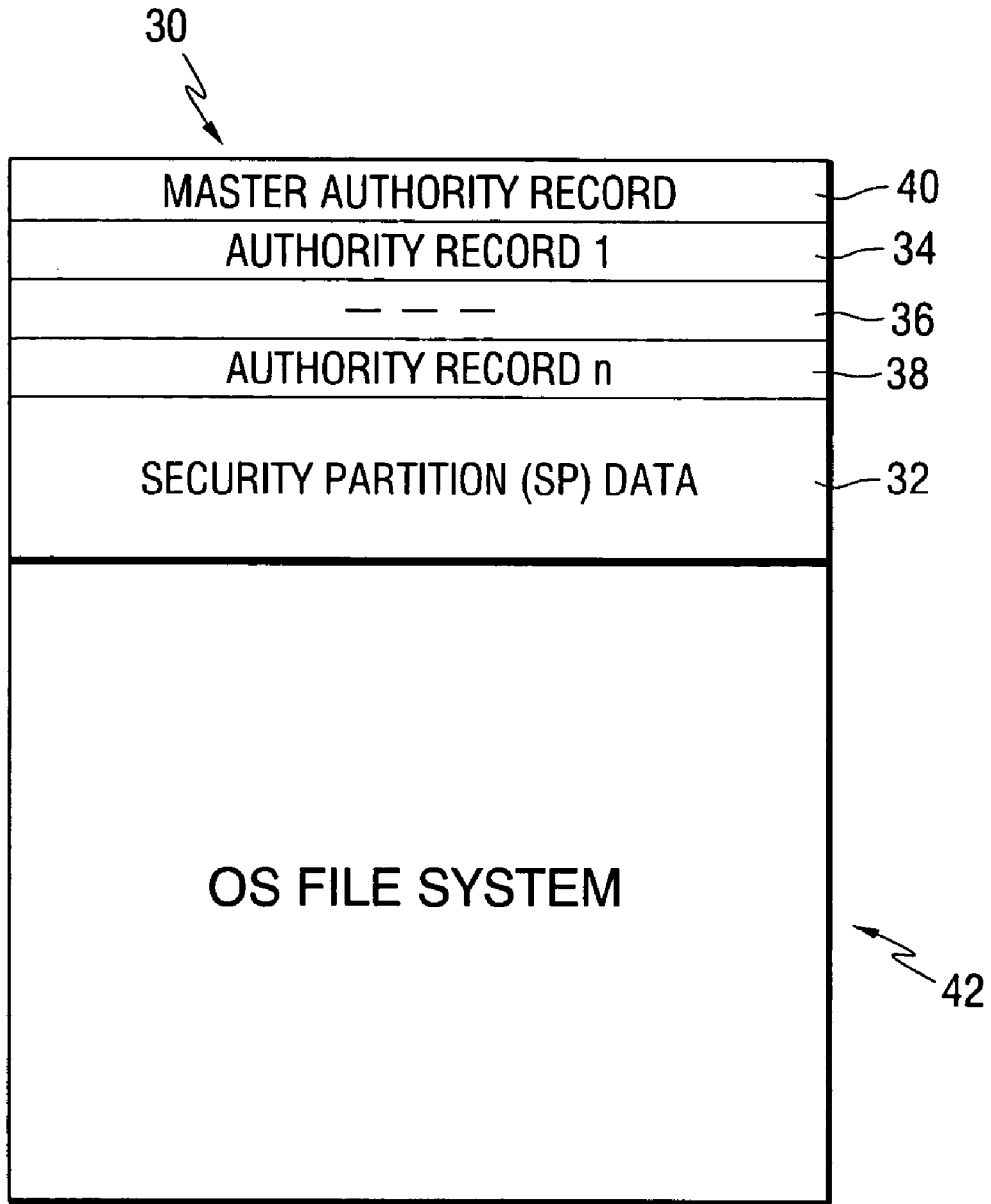


FIG. 3

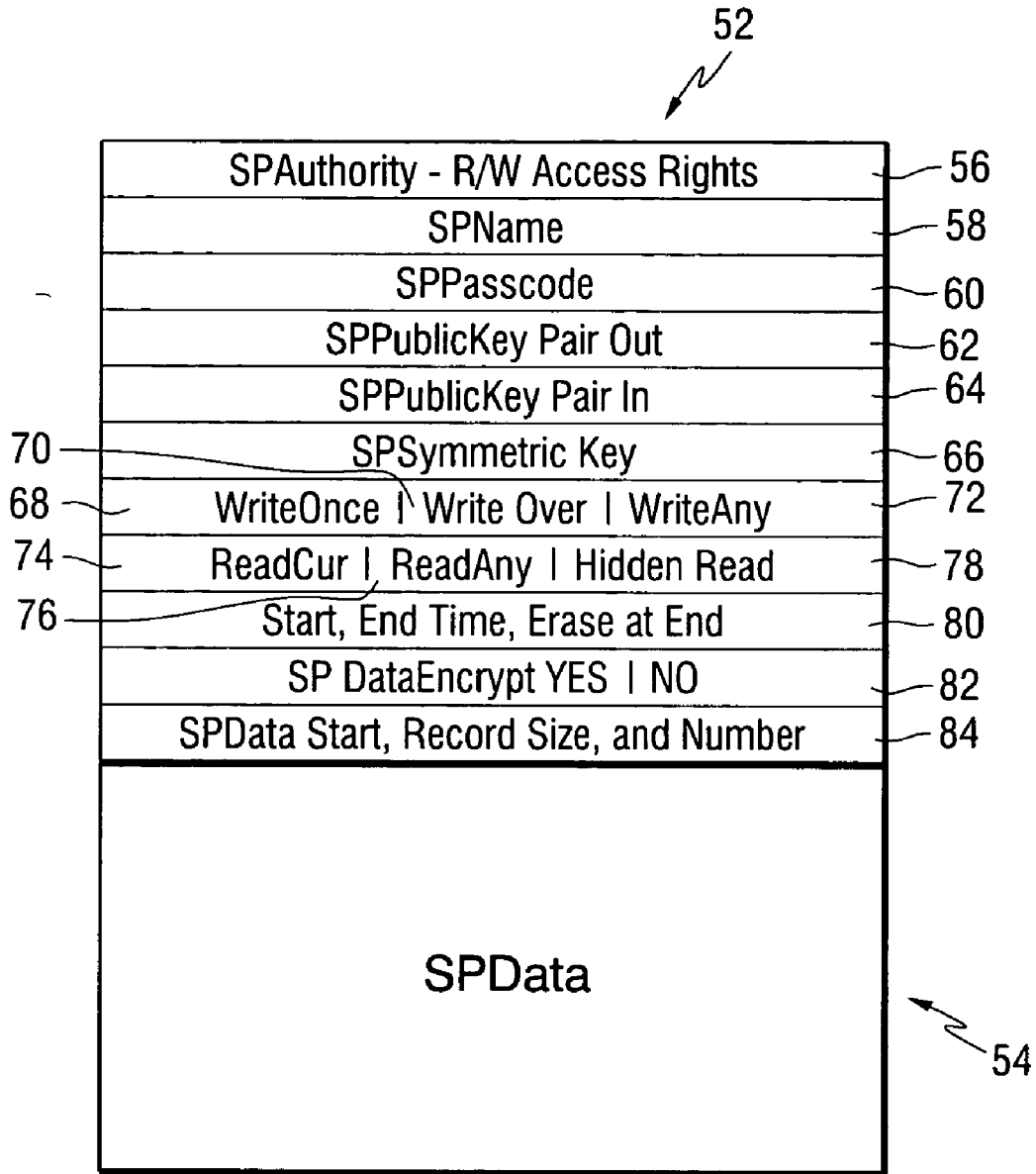


FIG. 4

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