

Exhibit 10



United States Patent [19]

Szymanski et al.

[11] Patent Number: **6,148,081**

[45] Date of Patent: ***Nov. 14, 2000**

[54] SECURITY MODEL FOR INTERACTIVE TELEVISION APPLICATIONS

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[73] Assignee: OpenTV, Inc., Mountain View, Calif.

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Assistant Examiner—Todd Jack
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[*] Notice: This patent is subject to a terminal disclaimer.

[57] ABSTRACT

[21] Appl. No.: 09/196,964

A system and method implemented in an interactive television system for restricting or controlling the access rights of interactive television applications and carousels. The system broadcasts modules from a broadcast station to a plurality of receiving stations, which execute applications containing the modules. In one embodiment, the applications utilize a credential consisting of a producer identification number (ID) and an application ID for each of the grantor and grantee applications, an expiration date, a set of permission data, a producer certificate and a signature. An application requesting access and a carousel granting access may be identified by respective producer and application IDs. The credential utilizes public key encryption to ensure the integrity of the credential. The producer and application IDs may be replaced with wildcards so that rights may be granted to a group of producers or applications.

[22] Filed: Nov. 20, 1998

Related U.S. Application Data

[63] Continuation-in-part of application No. 09/087,386, May 29, 1998, Pat. No. 6,038,319.

[51] Int. Cl.⁷ H04L 9/32

[52] U.S. Cl. 380/33; 455/13

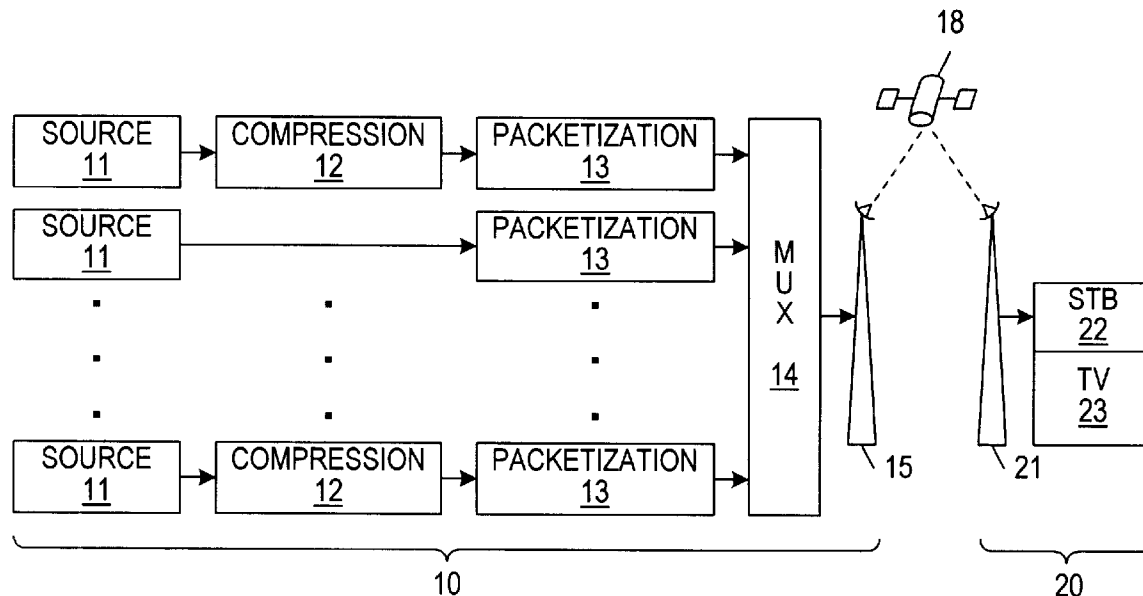
[58] Field of Search 380/5, 7, 10, 23, 380/233, 236, 235, 20, 259, 33; 348/3; 455/13

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26 Claims, 4 Drawing Sheets



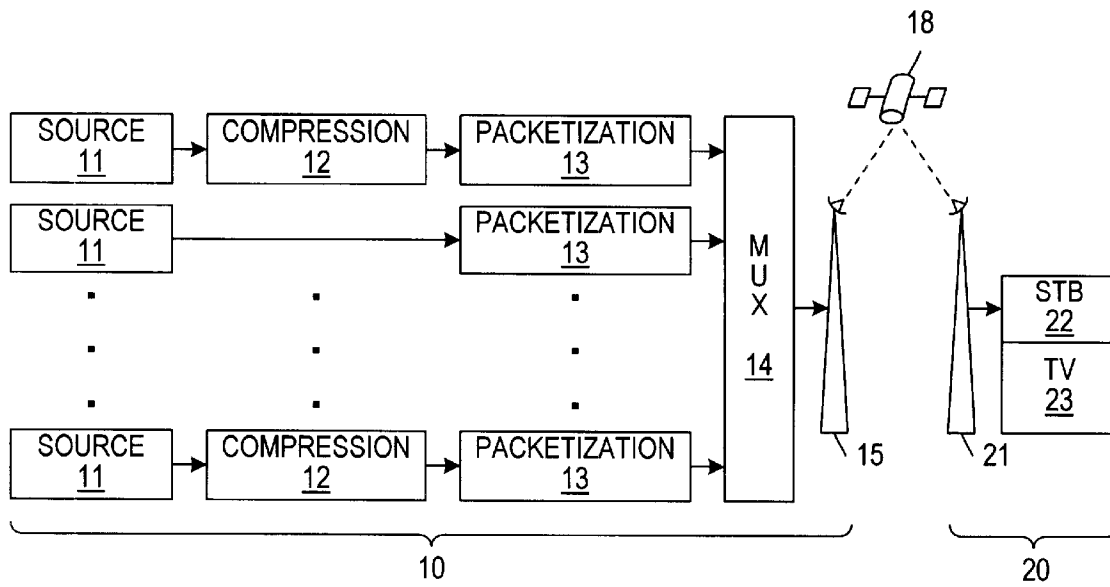


FIG. 1

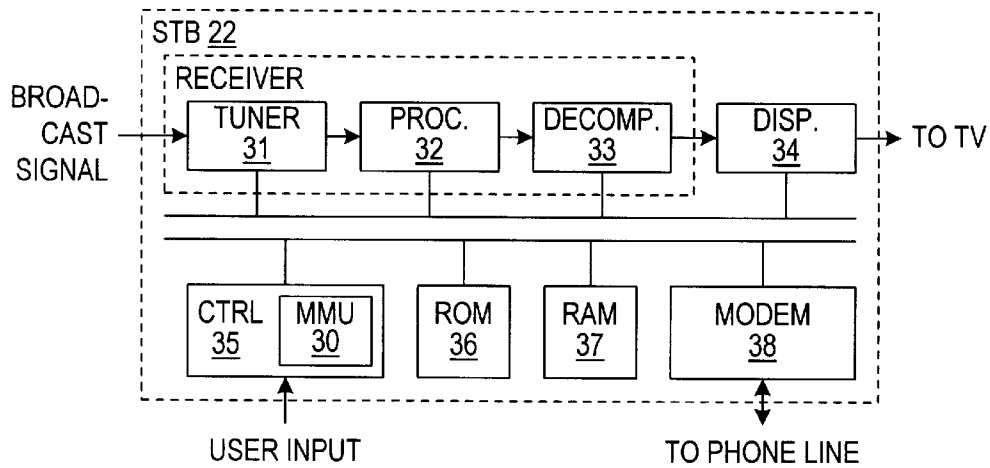


FIG. 2

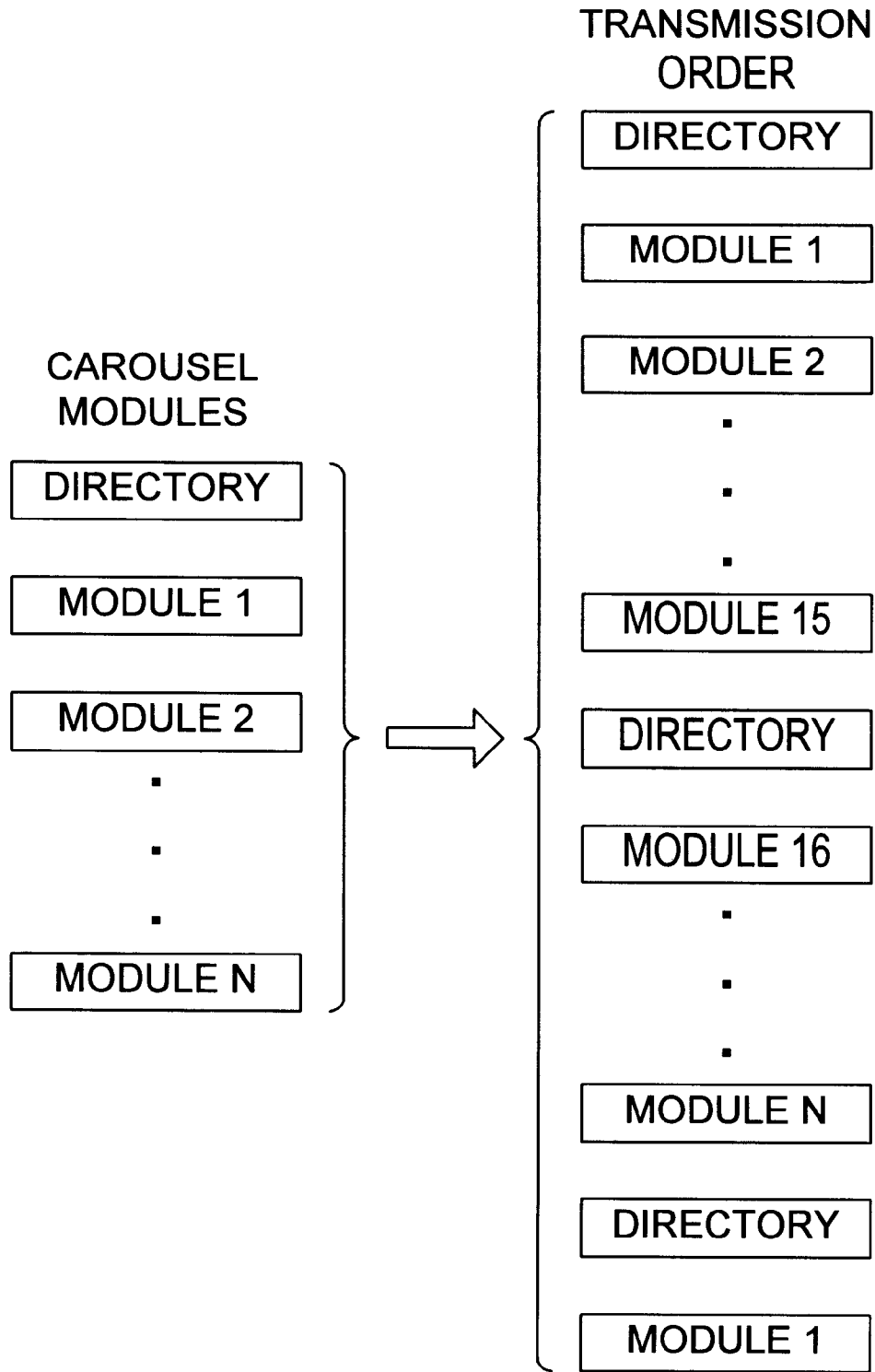


FIG. 3

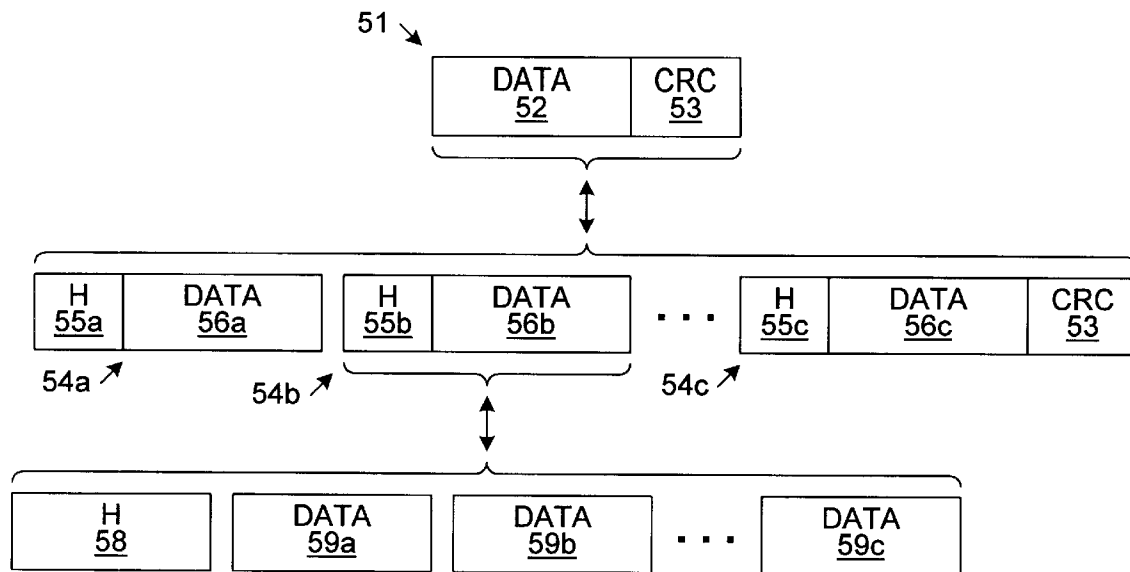


FIG. 4

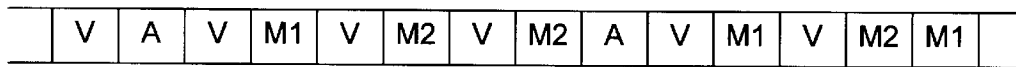


FIG. 5

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