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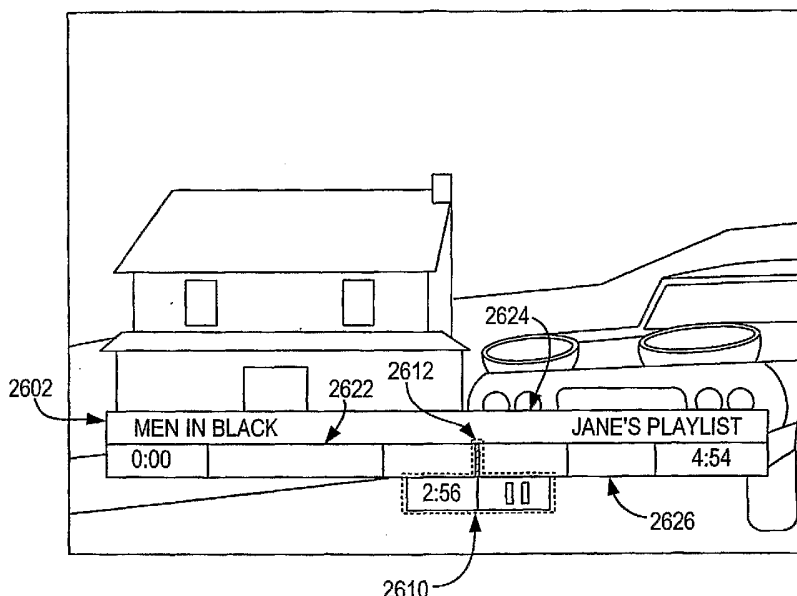
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(54) Title: PLAYLISTS AND BOOKMARKS IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION SYSTEM



(57) Abstract: Systems and method are provided for providing a playlist transport bar. The playlist transport bar provides an overlay which graphically represents assets (e.g., programs) of a playlist in a manner that enables a user to simultaneously ascertain a playback position within the playlist and a particular asset. The playlist transport may include asset regions which each correspond to an asset in a playlist and a position indication region which may provide information relating to a playback position.



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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

PLAYLISTS AND BOOKMARKS IN AN INTERACTIVE  
MEDIA GUIDANCE APPLICATION SYSTEM

[0001] This application claims the benefit of United States Provisional Application Nos. 60/667,870 and 60/658,270, filed April 1, 2005 and March 2,  
5 2005, respectively, the disclosures of which are hereby incorporated herein in their entireties.

Background of the Invention

[0002] The present invention is directed towards systems and methods for  
10 providing playlists and bookmarks in interactive media guidance application systems.

[0003] Playlists are known and may be used to determine the order in which assets (e.g., television programs, songs, etc.) are played. As defined herein, an asset refers to any type of media that may be played. Such media may include all  
15 the variants of television media, music media, interactive games, and other audio and/or video media. Assets may be added to a playlist, deleted from a playlist, or rearranged in a playlist. Various user interfaces are provided to enable a user to make such modifications to playlists.

[0004] Playlists may include several assets of similar or different media types  
20 ranging, for example, from two to several hundreds or thousands of assets. Thus, when the playtime of each asset is totaled, a substantial amount of time may be required to playback the entire playlist. Since playlists may include several assets, a user may wish to be provided with information related to the playback of assets in a particular playlist. For example, a user may be interested in knowing how

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- much time has elapsed during playback of a playlist or an asset, or how much time is remaining in the playlist or the asset. Known systems may be able to provide information as to how much time has elapsed and give an indication as to how much time remains for a given asset, but these systems are limited to providing such information for only that one given asset and are further unable to simultaneously provide information that gives a user a sense of position within a playlist. Moreover, some of these systems require a full screen display to display such information, thereby preventing a user from simultaneously viewing programming and information related to a playlist.
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- 10 [0005] Accordingly, it is desirable to provide systems and methods for providing information in a manner that enables a user to easily ascertain a playback position within a playlist and a particular asset.
- [0006] It is also desirable to provide systems and methods for playlist and bookmark related features.
- 15 [0007] It is further desirable to provide systems and method for providing VOD program information screens that provide access to playlist and bookmark features.

#### Summary of the Invention

- [0008] In accordance with the principles of the present invention, systems and methods are provided for providing a playlist transport bar. The playlist transport bar provides an overlay which graphically represents assets of a playlist in a manner that enables a user to simultaneously ascertain a playback position within the playlist and a particular asset. As defined herein, a playback position is the position corresponding to a particular position in the playlist, including a particular asset, being accessed (e.g., played, paused, rewinded, fast-forwarded, skipped to the beginning of next asset, etc.). For example, if a program is paused at the half-way point of an asset (e.g., a VOD program), the playback position is at the half-way point of that asset. As another example, if the user is viewing the third hour of five hours of total programming for a playlist, the playback position is at the three-hour elapsed time position for all programming in the playlist (even though the playlist position may also be at, for example, a twenty minute elapsed time position for a currently playing asset).
- 20
- 25
- 30

[0009] The playlist transport bar may include several asset regions each corresponding to an asset in the playlist and a position indication region that provides an indication of the playback position. The manner in which asset regions are displayed may vary, depending on a number of factors. In one embodiment, an asset region for each asset in the playlist may be displayed in the playlist transport bar. In this approach, the interactive media guidance application may appropriately size each asset region to fit within the playlist transport bar. The interactive media application may apportion each asset region to be the same size, regardless of the playback time for the assets. Alternatively, the interactive media application may apportion a size to each asset region based on its playback time relative to the playback times of other assets in the playlist, while taking into account the limited display space provided in the playlist transport bar. For example, a two-hour long asset may be apportioned a larger size than a half-hour long asset.

[0010] In another embodiment, the playlist transport bar may display a limited number of asset regions so as to not saturate the playlist transport bar with asset regions corresponding to all the potential assets of a playlist. By limiting the number of asset regions displayed in the playlist transport bar at any given time, this allows the interactive media guidance application to appropriate a predetermined minimum amount of space to each displayed region. The spacing allotted to each region may accurately reflect the length of a particular asset with respect to the other shown assets. For example, a two-hour program may be presented in an asset region that is two times larger than an hour long program. In addition, in this embodiment, information may be provided that provides an indication of the playback position within the playlist.

[0011] The position indication region may serve as a visual indicator that moves along the transport bar and provides information relating to a playback position within the playlist and/or a particular asset. The position indication region may include a position needle and an information region. The position needle may provide a visual indication of a playback position within the playlist and/or a particular asset. For example, in one embodiment, the position needle may indicate both the playback position within a particular asset and the playlist. In

another embodiment, the position needle may only indicate the position within an asset. In this latter embodiment, the information region may provide information relating to the playback position within the playlist. The information region may display other information such as the elapsed time of the currently accessed asset, 5 which action (e.g., pausing, fast-forwarding, resuming play, etc.) the user is implementing, or any other information relating to the playback of assets in a playlist.

[0012] In one embodiment, the user may “drag and drop” the position indication region to a desired location using, for example, cursor arrows of a remote device. 10 This allows a user to manually position the position indication region at any playback position on the transport bar, thereby providing a user with the ability to resume playback of any asset in the playlist at a particular playback position. In another embodiment, the interactive media guidance application may permit a user to “skip to the next” asset region. This may permit a user to skip to the beginning 15 of an adjacent asset region.

[0013] The playlist transport bar may allow a user to navigate a highlight region to various elements within the transport bar, and, if desired, select the highlighted regions. For example, a user may navigate a highlight region to the asset regions, the position indication region, and other areas of the transport bar such as a playlist 20 name region. Additional information or menus may be displayed depending on which elements of the transport bar are highlighted or selected.

[0014] The playlist transport bar may allow a user to modify (e.g., delete an asset) the playlist without requiring the user to access interactive media guidance application features specifically dedicated to allowing a user to modify a playlist. 25 In addition, the playlist transport bar may allow a user to switch to another playlist, thereby enabling the user to playback assets of a different playlist.

[0015] In other embodiments, systems and methods are provided for playlist and bookmark related features. In addition, systems and method are also provided for providing VOD program information screens that provide access to playlist and 30 bookmark features.

Brief Description of the Drawings

[0016] The above and other features of the present invention, its nature and various advantages will be more apparent upon consideration of the following detailed description, taken in conjunction with the accompanying drawings in which:

FIG. 1 is a diagram of an illustrative interactive media guidance system in accordance with an embodiment of the invention;

FIG. 2 shows an illustrative VOD menu with a "My Playlists" option for providing a user with access to playlist features in accordance with an embodiment of the invention;

FIG. 3 shows an illustrative no playlists set overlay that may be displayed when the user selects the My Playlist option from the VOD menu of FIG. 2 in accordance with an embodiment of the invention;

FIG. 4 shows an illustrative screen that may be displayed when the user selects a Set up Playlist button on the No Playlist Set Overlay of FIG. 3 in accordance with an embodiment of the invention;

FIG. 5 shows an illustrative playlists list in accordance with an embodiment of the invention;

FIG. 6 shows an illustrative playlist with programs screen showing a highlighted program in accordance with embodiment of the invention;

FIG. 7 shows an illustrative playlist with programs screen showing an option for allowing a user to change the order the programs in the playlist in accordance with an embodiment of the invention;

FIG. 8 shows an illustrative playlist with programs screen showing a highlight region that can be navigated to a checkbox in accordance with an embodiment of the invention;

FIG. 9 shows an illustrative playlist with programs screen showing that a checkbox of FIG. 8 can be selected to indicate that the program associated with the selected checkbox is to be deleted from the playlist in accordance with an embodiment of the invention;

FIG. 10 shows an illustrative keyboard overlay in accordance with an embodiment of the invention;

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FIG. 11 shows an illustrative overlay that allows a user to select a playlist from a list of playlists in accordance with an embodiment of the invention;

FIG. 12 shows an illustrative overlay informing a user that additional playlists cannot be created in accordance with an embodiment of the invention;

FIG. 13 shows an illustrative overlay informing a user that additional programs cannot be added to a playlist in accordance with an embodiment of the invention;

FIG. 14 shows an illustrative overlay indicating that a program has been successfully added to a playlist in accordance with an embodiment of the invention;

FIG. 15 shows an illustrative overlay providing a user with various deletion options in accordance with an embodiment of the invention;

FIG. 16 shows an illustrative overlay confirming deletion of a playlist in accordance with an embodiment of the invention;

FIG. 17 shows an illustrative overlay that may be displayed when a user selects a lock action icon in accordance with an embodiment of the invention;

FIG. 18 shows an illustrative search screen that may be provided when a user selects a search action icon in accordance with an embodiment of the invention;

FIG. 19 shows an alternative search screen that may be provided when a user selects a search action icon in accordance with an embodiment of the invention;

FIG. 20 shows an illustrative clear all programs confirmation overlay that may be displayed in accordance with an embodiment of the invention;

FIG. 21 shows an illustrative bookmark a VOD program confirmation display in accordance with an embodiment of the invention;

FIG. 22 shows an illustrative previously bookmarked confirmation overlay that may be displayed in accordance with an embodiment of the invention;

FIG. 23 shows an illustrative saved programs listing screen in accordance with an embodiment of the invention;



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FIG. 24 shows an alternative illustrative saved programs listings screen in accordance with an embodiment of the invention;

FIG. 25 shows an illustrative delete video confirmation overlay in accordance with an embodiment of the invention;

5           FIG. 26 shows an illustrative transport bar for playing back programs in accordance with an embodiment of the invention;

FIG. 27 shows an alternative illustrative transport bar for playing back programs in accordance with an embodiment of the invention;

10           FIG. 28 shows an illustrative playlist transport bar that displays a region for each asset in the playlist in accordance with an embodiment of the invention;

FIG. 29 shows an illustrative playlist transport bar in which the number of regions displayed are limited in number in accordance with an embodiment of the invention;

15           FIG. 30 shows an example of the playlist transport bar of FIG. 29 in accordance with an embodiment of the invention;

FIG. 31 shows a playlist transport toolbar that may be displayed when the user is implementing a command that affects playback of an asset in the playlist in accordance with an embodiment of the invention;

20           FIGS. 32, 33, 34A-B, 35A-B, and 36 show several illustrative playlist transport bars in which a user may navigate a highlight region within the playlist transport bar, and, if desired, cause a particular action to occur in accordance with embodiments of the invention;

25           FIG. 37 shows a flowchart of illustrative steps in displaying a playlist transport bar in accordance with an embodiment of the invention;

FIG. 38 shows an illustrative VOD program information screen that may be displayed in accordance with an embodiment of the invention; and

FIG. 39 shows an alternative illustrative VOD program information screen that may be displayed in accordance with an embodiment of the invention.

### 30   Detailed Description of the Invention

[0017] This document is divided into five major Sections. Section I describes an illustrative system architecture for an interactive media guidance application

system in accordance with various embodiments of the present invention.

Section II describes playlist-related features in accordance with various embodiments of the present invention. Section III describes bookmark-related features in accordance with various embodiments of the present invention. Section IV describes an illustrative transport bar for playback of programs from playlists in accordance with various embodiments of the present invention. Section V describes illustrative VOD program information screens for providing access to playlist and bookmark features in accordance with various embodiments of the present invention.

10

#### Section I. Illustrative System Architecture

[0018] An illustrative interactive media system in accordance with the principles of the invention is shown in FIG. 1. User equipment 10 receives content in the form of signals from media source 20 over communications path 22.

15 [0019] Media source 20 may be any suitable content source such as, for example, a cable system headend, satellite television distribution facility, television broadcast facility, or any other suitable facility for originating or distributing content. Media source 20 may be configured to transmit signals over any suitable communications path 22 including, for example, a satellite path, a fiber-optic path, 20 a cable path, or any other suitable wired or wireless path. The signals may carry any suitable content such as, for example, television programs, internet, music, news, television program listings, or any other suitable media.

[0020] VOD server 26 provides on-demand programs and associated VOD program data (e.g., VOD titles, VOD descriptions, VOD prices (if applicable), 25 VOD viewing window data and other VOD metadata). VOD server 26 stores the VOD program data in, and retrieves the data from, database 28. As discussed below, VOD server 26 may also, in some embodiments, store playlists and saved program lists for users of user equipment 10 in database 28. VOD server 26 exchanges messages and media with user equipment 10 over communications 30 path 22, but in other embodiments communications may be exchanged over a separate path (not shown). VOD server 26 may reside, for example, in a cable system headend. If desired, VOD server may also be a media source.

[0021] User equipment 10 may include any suitable equipment including, for example, computer equipment (e.g., a personal computer with a television card (PCTV)), television equipment, or any other suitable equipment. The television equipment may include a television, set-top box, recording device, video player, user input device (e.g., remote control, keyboard, mouse, touch pad, touch screen, voice recognition interface, etc.) or any other device suitable for providing an interactive television experience having features described in the various embodiments below. In the example of FIG. 1, user equipment 10 includes at least control circuitry 18, display device 12 and recording device 14, and user input device 16, which may be implemented as separate devices or as a single device. An interactive media guidance application may be implemented on the user equipment to display, on display device 12, the content transmitted by media source 20 over path 22, and to provide interactive media guidance application features. The interactive media guidance application may also provide users with access to VOD content and VOD data from VOD server 26.

[0022] Recording device 14 may be any of a personal video recorder, digital video recorder (DVR), video cassette recorder (VCR), DVD-recorder, or any other suitable video recorder. Recording device 14 may include one or more tuners. Recording device 14 may record programs under the control of the interactive media guidance application that resides on user equipment 10.

[0023] Display device 140 may be any suitable device including, for example, a television monitor and a computer monitor. Display device 140 may also be configured to provide for the output of audio.

[0024] The user equipment may include control circuitry 18 adapted to receive user instructions and execute the operations of an interactive media guidance application, such as an interactive program guide application. Control circuitry 18 may include one or more tuners (e.g., analog or digital tuners), decoders (e.g., MPEG decoders) processors, memory (e.g., RAM and hard disks), communications circuitry (e.g., cable modem circuitry for two-way communications with VOD server 26), input/output circuitry (e.g., graphics circuitry), and connections to the various devices of user equipment 10, and any other suitable component for providing analog or digital television programming,

program recording, and interactive media guidance features. Control circuitry 18 may be configured to execute the instructions of the interactive media guidance application from memory. In one embodiment, control circuitry 18 may be included as part of one of the devices of user equipment 10 such as, for example, part of recording device 14, display 12, or any other device (e.g., a set-top box, television, video player, etc.).

[0025] User equipment 10 may receive interactive media guidance application data from one or more data sources 24. The number of data sources 24 may depend on the number of interactive media guidance applications. For example, one data source 24 may provide interactive media guidance data for non-on-demand assets (e.g., non-pay and pay-per-view television programs), and another may provide data for home shopping application data. In some embodiments VOD data (e.g., VOD programs) and program guide data may be provided to user equipment 10 by a data source 24. In such embodiments VOD server 26 may still provide VOD content.

[0026] In some embodiments, data sources 24 may provide data to the interactive media guidance application using a suitable client/server approach. There may be one server per data source or, in some embodiments, a single server may communicate as a proxy between user equipment 10 and various data sources 24.

[0027] The playlist and bookmark features described below are described as provided in embodiments where user equipment 10 provides an interactive media guidance application such as interactive television program guide. In such embodiments, user equipment 10 may include a Motorola DCT series settop box. Program guide instructions are executed by control circuitry 18 (FIG. 1). Program guide data is received from a data source 24 and stored by control circuitry 18. Control circuitry 18 executes program guide instructions and retrieves program guide data from memory when displaying program guide screens on display device 12. The displays may be provided in response to user instructions received by an input device 16, such as a remote control.

[0028] In these embodiments, the program guide may be programmed with extensions for communicating with a vendor-specific VOD server 26. The program guide extensions may call VOD-vendor-specific objects that may contain

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vendor-specific code for requesting VOD data from a VOD server 26, and for accessing content from VOD server 26. VOD server 26 may store data for some features provided by the interactive media guidance application such as, for example, playlist and saved program list data.

- 5 [0029] For purposes of clarity, the following discussion may sometimes describe an embodiment in which the interactive media guidance application is an interactive television program guide or interactive television application. It will be understood, however, that the following discussion and the features discussed may be applied to any interactive media guidance application such as, for example, an  
10 online program guide or a Website.

## Section II. Playlists

- [0030] Some embodiments of the present invention provide features for creating and managing playlists. Playlists are lists of programs that an interactive television  
15 application will play back sequentially for the user. Users may select one or more programs for inclusion in a playlist. After creating a playlist, the user can select the playlist for playback. Each program in the playlist is played back for the user, one after another in time. In some embodiments, real-time features such as pause, stop, fast-forward and rewind may be provided to allow the user to control  
20 playback of programs in the playlist. In some embodiments, the interactive application may recommend programs for inclusion in a playlist, or provide pre-made playlists.

- [0031] An illustrative set of playlist features in an embodiment where users create and manage playlists of free VOD programs using an interactive television  
25 program guide (IPG) is described below. This is only illustrative, as such features may be incorporated in embodiments in which playlists include other types of programs (e.g., recorded programs (such as programs recorded on recording device 14 of FIG. 1), and non-free on-demand programs), and in which the interactive television application is not an IPG.

- 30 [0032] FIG. 2 below shows an illustrative VOD menu with a "My Playlists" option for providing a user with access to playlist features. In other embodiments, users may access playlist features from other menus or displays, such as an IPG

main menu or VOD program information screen (see Section V below) for example. In this layout, the VOD menu includes a barker window for video clips.

[0033] FIG. 3 shows an illustrative No Playlists Set Overlay that may be displayed when the user selects My Playlists from the VOD Main Menu of FIG. 2, or other IPG menus or screens, and no playlists have been created. Tables 1 and 2 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 1: Illustrative No Playlists Set Overlay System Description**

No.	Description
1.0	The Guide may display the No Playlists Set Overlay when the user selects My Playlists from the VOD Main Menu or other menus or screens provided by the Guide and no playlists have been created.
1.1	The Guide may display the title "NO PLAYLISTS SET" on the No Playlists Set Overlay in the language specified by the user in the Guide setup, in yellow text.
1.2	The Guide may display the prompt "Would you like to set up a playlist now?" on the No Playlists Set Overlay in the language specified by the user in Guide setup, in white text.
1.3	The Guide may display the OK/Yes icon on the No Playlists Set Overlay with the label "Set up Playlist" in the language specified by the user in the Guide setup, in white text.
1.4	The Guide may display the Cancel icon on the No Playlists Set Overlay with the label "Don't set up Playlist" in the language specified by the user in the Guide setup, in white text.
2.0	The default highlight may be the OK/Yes icon.
3.0	Except as specified in this section, this confirmation screen may follow the description provided in the Common Confirmation Overlay section in the Appendix.
4.0	New "default" playlists may be named automatically according to the following format: "Playlist <lowest positive integer not already used to name a playlist>".

**Table 2: Illustrative No Playlists Set Overlay Action Icon Table**

No.	Name	Condition	Description
1.0	Set up Playlist	Always present	Creates a new, empty playlist and displays the Default Playlist Screen for the new playlist.

**Table 2: Illustrative No Playlists Set Overlay Action Icon Table**

No.	Name	Condition	Description
2.0	Don't set up Playlist	Always present	Dismisses the No Playlists Set Overlay.

[0034] FIG. 4 shows an illustrative screen that may be displayed when the user selects the Set up Playlist button on the No Playlists Set Overlay, selects the Add Icon on the Playlists List, or accesses an existing playlist that contains no programs. The Default Playlist screen shows default information for a playlist when it is empty. Tables 3-9 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such a screen.

**Table 3: Illustrative Default Playlist Screen Instant Information**

No.	Line	Format	Description
1.0	1	Left Justified	The default playlist name, in the form "Playlist <lowest positive integer not already used to name a playlist>", displayed in yellow
1.1	1	Right Justified	The text "Contains 0 programs" in the language specified by the user at Guide setup, displayed in white
2.0	2	Left Justified	The text "0min" in the language specified by the user at Guide setup, displayed in white
3.0	3	Left Justified	The text "Select below to name, delete, and lock your Playlist." in the language specified by the user at Guide setup, displayed in white

**Table 4: Illustrative Default Playlist Screen Reader Box Display**

No.	Line	Format	Description
1.0	1	Left Justified	The text "To add programs to this Playlist:" in the language specified by the viewer in Guide setup, displayed in yellow
2.0	2		Blank
3.0	3	Left Justified	The text "1) Find a program you would like to add." in the language specified by the viewer in Guide setup, displayed in white

**Table 4: Illustrative Default Playlist Screen Reader Box Display**

No.	Line	Format	Description
4.0	4	Left Justified	The text “2) Go to the information screen and select <Playlist Icon>.” in the language specified by the viewer in Guide setup, displayed in white
5.0	5	Left Justified	The text “3) Select the Playlist to add the program to.” in the language specified by the viewer in Guide setup, displayed in white
6.0	6		Blank
7.0	7	Left Justified	The text “Also select <Search Icon> below to search for programs to add.” in the language specified by the user at Guide setup, displayed in white

**Table 5: Illustrative Default Playlist Screen Action Icon Table**

No.	Name	Condition	Description
1.0	Last	Always present	Displays the previous screen
2.0	Keyboard	Always present	Displays the Playlist Keyboard Overlay
3.0	Search	Always present	Displays the Playlist Search Screen.
4.0	Lock	Always present	Displays the Lock Playlist Overlay
5.0	Delete	Always present	Displays the Delete Playlist Confirmation Overlay

**Table 6: Illustrative Default Playlist Screen Input Key Processing**

No.	Key	Screen Focus	Behavior
1.0	Power	Any	Normal
2.0	Volume Up	Any	Normal
3.0	Volume Down	Any	Normal
4.0	Mute	Any	Normal
5.0	Channel Up	Any	Normal
6.0	Channel Down	Any	Normal



**Table 6: Illustrative Default Playlist Screen Input Key Processing**

No.	Key	Screen Focus	Behavior
7.0	Bypass	Any	Normal
8.0	Menu	Any	Normal
9.0	Guide	Any	Normal
10.0	Music	Any	Normal
11.0	Themes	Any	Normal
12.0	Search	Any	Normal
13.0	Settings	Any	Normal
14.0	Exit	Any	Normal
15.0	Last	Any	Normal
16.0	Right Arrow	Any action icon but farthest right	Normal
16.1	Right Arrow	Farthest right action icon	The Guide may move the highlight to the farthest left action icon.
17.0	Left Arrow	Any action icon but farthest left	Normal
17.1	Left Arrow	Farthest left action icon	The Guide may move the highlight to the farthest right action icon.
18.0	Up Arrow	Any	Inactive
19.0	Down Arrow	Any	Inactive
20.0	OK	Any	See Table 5
21.0	Digits 0-9	Any	Normal
22.0	Scroll Up	Any	Inactive
23.0	Scroll Down	Any	Inactive
24.0	Day Forward	Any	Inactive
25.0	Day Back	Any	Inactive
26.0	Help	Any	Inactive
27.0	Info	Any	Inactive
28.0	Favorite	Any	Inactive

**Table 6: Illustrative Default Playlist Screen Input Key Processing**

No.	Key	Screen Focus	Behavior
29.0	Lock	Any	Displays the Lock Playlist Overlay
30.0	Record	Any	Inactive
31.0	Stop	Any	Inactive
32.0	Pause	Any	Inactive
33.0	Play	Any	Inactive
34.0	Rewind	Any	Inactive
35.0	Fast Forward	Any	Inactive
36.0	PPV	Any	Normal
37.0	Letters A-Z	Any	Inactive
38.0	VOD	Any	Inactive
39.0	Return to Live TV	Any	Inactive
40.0	Skip Forward	Any	Inactive
41.0	Replay	Any	Inactive
42.0	A	Any	Inactive
43.0	B	Any	Inactive
44.0	C	Any	Inactive
45.0	Digital Recordings	Any	Normal
46.0	Swap	Any	Inactive

**Table 7: Illustrative Default Playlist Screen Other Event Handling**

No.	Event	Conditions/Comments
1.0	Screen Timeout	Normal
2.0	Reminder	Normal
3.0	Scheduled Recording Fires	Normal
4.0	Ordered PPV Start	Normal

**Table 7: Illustrative Default Playlist Screen Other Event Handling**

No.	Event	Conditions/Comments
5.0	PPV Purchase Window Expires	Inactive
6.0	Current Program Ends	Normal
7.0	Data added, deleted or modified in database	Normal

**Table 8: Illustrative Default Playlist Screen Screen/Mode Entry**

No.	Functionality	Description
1.0	Guide Initialization	The Default Playlist Screen may be available as soon as the VOD feature is available.
2.0	Highlight	The default highlight may be the Last icon on the Action Icon Bar
3.0	Display Inclusion Criteria	Not applicable
4.0	Sorting/Grouping Criteria	Not applicable
5.0	Customization	The OnDemand icon may be MSO-configurable.
6.0	Other Entry Actions	Not applicable

**Table 9: Illustrative Default Playlist Screen Formatting**

No.	Functionality	Description
1.0	Program Title	Not applicable
2.0	Time	Normal
3.0	Channel	Not applicable
4.0	Other Text	Not Applicable
5.0	Colors	Normal
6.0	Indicators	Not applicable
7.0	Branding	Not Applicable
8.0	Audio	Normal
9.0	LEDs	Normal

[0035] FIG. 5 shows an illustrative playlists list. The Playlists List displays the user's current playlists. It is displayed when the user selects My Playlists from the VOD Main Menu or other menus or screens, and one or more playlists have already been created. Playlists can be added and accessed from this screen. Tables 5 10-17 describe illustrative behaviors of the IPG and or VOD server 26 in connection with providing such a screen.

**Table 10: Illustrative Playlists List Screen System Description**

No.	Description
1.0	VOD server 26 may maintain a list of playlists for each distinct subscriber household.
1.1	The list of playlists may be ordered according to the date and time of playlist creation, beginning with the most recently created playlist.
2.0	When the Guide requests the list of playlists, and if more than one playlist has been created, VOD server 26 may provide the list of playlists to the Guide.
2.1	VOD server 26 will page up or down within the Playlist List screen to allow viewing additional playlist list pages.
3.0	VOD server 26 may maintain at least the following metadata for each playlist in the playlist list: <ul style="list-style-type: none"> <li>• Playlist name</li> <li>• Number of programs in playlist</li> <li>• Total duration of playlist</li> </ul>
4.0	VOD server 26 may add a new playlist in response to requests from the Guide to add a new playlist.
4.1	VOD server 26 may allow the creation of up to, e.g., 24 playlists per STB.
4.2	VOD server 26 may communicate an error to the Guide if a request is made to add a new playlist, and the maximum number of playlists has been reached for the STB.
5.0	VOD server 26 may provide an existing playlist in response to requests from the Guide to access an existing playlist.
6.0	VOD server 26 may maintain and transfer playlist specifications across STB replacements.

**Table 11: Illustrative Playlists List General Description**

No.	Description
1.0	The Playlists List may display the Playlists icon, followed by the title "My Playlists" in the language specified by the user at Guide setup, centered in white text in the screen header area.
2.0	The maximum number of playlists that can be created may be, e.g., 24.

**Table 12: Illustrative Playlists List Instant Information**

No.	Line	Format	Description
1.0	1	Left Justified	The name of the highlighted playlist if there are existing playlists when the screen is invoked, displayed in yellow
1.1	1	Right Justified	The text "Contains <number> Programs" in the language specified by the user at Guide setup, displayed in white, if there are existing playlists when the screen is invoked, where <number> is the number of videos in the highlighted playlist
1.2	1	Left Justified	The text "No Playlists have been created" in the language specified by the user at Guide setup, displayed in yellow, if no playlists currently exist when the screen is invoked
1.3	1		Blank if there are existing playlists when the screen is invoked and no playlist is highlighted
2.0	2	Left Justified	Runtime of the highlighted playlist (total runtime of all programs in the playlist) if there are existing playlists when the screen is invoked
2.1	2		Blank if no playlists currently exist when the screen is invoked or no playlist is highlighted
3.0	3		The text "Select <Add Action Icon> below to create a new Playlist." in the language specified by the user at Guide setup, displayed in white

**Table 13: Illustrative Playlists List Action Icon Table**

No.	Name	Condition	Description
1.0	Last	Always present	Displays the previous screen

**Table 13: Illustrative Playlists List Action Icon Table**

No.	Name	Condition	Description
2.0	VOD	Always present	Displays the VOD Main Menu
3.0	Down Arrow	Always present	Displays the next page of playlist listings
3.1	Down Arrow	Always present	Inactive if no additional pages are available below the current page of playlists.
4.0	New Playlist	Always present	Displays the Default Playlist screen if the maximum number of playlists has not been reached
4.1	New Playlist	Always present	Displays the Maximum Playlists Notice if the maximum number of playlists has been reached

**Table 14: Illustrative Playlists List Input Key Processing**

No.	Key	Screen Focus	Behavior
1.0	Power	Any	Normal
2.0	Volume Up	Any	Normal
3.0	Volume Down	Any	Normal
4.0	Mute	Any	Normal
5.0	Channel Up	Any	Normal
6.0	Channel Down	Any	Normal
7.0	Bypass	Any	Normal
8.0	Menu	Any	Normal
9.0	Guide	Any	Normal
10.0	Music	Any	Normal
11.0	Themes	Any	Normal
12.0	Search	Any	Normal
13.0	Settings	Any	Normal
14.0	Exit	Any	The Guide may return to Idle Mode and display and Flip Banner.

**Table 14: Illustrative Playlists List Input Key Processing**

No.	Key	Screen Focus	Behavior
15.0	Last	Any	Normal
16.0	Right Arrow	List Cell	Inactive
16.1	Right Arrow	Any action icon but farthest right	Normal
16.2	Right Arrow	Farthest right action icon	The Guide may move the highlight to the farthest left action icon.
17.0	Left Arrow	List Cell	Inactive
17.1	Left Arrow	Any action icon but farthest left	Normal
17.2	Left Arrow	Farthest left action icon	The Guide may move the highlight to the farthest right action icon.
18.0	Up Arrow	Top list cell on first page	Inactive
18.1	Up Arrow	Top list cell, any but first page	The Guide may display the previous page and highlight the lowest selectable list cell.
18.2	Up Arrow	Any list cell but the top on the page	The Guide may move the highlight to the next higher list cell.
18.3	Up Arrow	Any Action Icon	The Guide may move the highlight to the lowest list cell on the current page.
19.0	Down Arrow	Any list cell but the last on the page	The Guide may move the highlight to the next lower list cell on the page.
19.1	Down Arrow	Last list cell on the page	The Guide may move the highlight to the default action icon.
19.2	Down Arrow	Any Action Icon except Down Arrow	Inactive
19.3	Down Arrow	Down Arrow action icon, any page but the last	The Guide may display the next page and highlight the highest selectable list cell.

**Table 14: Illustrative Playlists List Input Key Processing**

No.	Key	Screen Focus	Behavior
19.4	Down Arrow	Down Arrow action icon, last page	Inactive
20.0	OK	Any list cell	If the highlighted playlist contains at least one program, is not locked and does not contain any programs that are locked, the Guide may request data for the highlighted playlist from VOD server 26 and display the Playlist Information Screen.
20.1	OK	Any list cell	If the highlighted playlist contains at least one program, and is locked or contains any programs that are locked, the Guide may display the Lock PIN Overlay.
20.2	OK	Any list cell	If the highlighted playlist does not contain any programs, the Guide may request data for the highlighted playlist from VOD server 26 and display the Default Playlist screen.
20.3	OK	Any action icon	See Table 13.
21.0	Digits 0-9	Any	Normal
22.0	Scroll Up	Any	Normal
23.0	Scroll Down	Any	Normal
24.0	Day Forward	Any	Inactive
25.0	Day Back	Any	Inactive
26.0	Help	Any	Inactive
27.0	Info	Any list cell	If the highlighted playlist contains at least one program, is not locked and does not contain any programs that are locked, the Guide may request data for the highlighted playlist from VOD server 26 and display the Playlist Information Screen.
27.1	Info	Any list cell	If the highlighted playlist contains at least one program, and is locked or contains any programs that are locked, the Guide may display the Lock PIN Overlay.



**Table 14: Illustrative Playlists List Input Key Processing**

No.	Key	Screen Focus	Behavior
27.2	Info	Any list cell	If the highlighted playlist does not contain any programs, the Guide may request data for the highlighted playlist from VOD server 26 and displays the Default Playlist screen.
27.3	Info	Any action icon	Inactive
28.0	Favorite	Any	Inactive
29.0	Lock	Any	Inactive
30.0	Record	Any	Inactive
31.0	Stop	Any	Inactive
32.0	Pause	Any	Inactive
33.0	Play	Any	Inactive
34.0	Rewind	Any	Inactive
35.0	Fast Forward	Any	Inactive
36.0	PPV	Any	Normal
37.0	Letters A-Z	Any	Inactive
38.0	VOD	Any	Inactive
39.0	Return to Live TV	Any	Normal
40.0	Skip Forward	Any	Inactive
41.0	Replay	Any	Inactive
42.0	A	Any	Inactive
43.0	B	Any	Inactive
44.0	C	Any	Inactive
45.0	DVR	Any	Normal
46.0	Swap	Any	Inactive

**Table 15: Illustrative Playlists List Other Event Handling**

No.	Event	Conditions/Comments
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**Table 15: Illustrative Playlists List Other Event Handling**

No.	Event	Conditions/Comments
1.0	Screen Timeout	Normal
2.0	Reminder	Normal
3.0	Scheduled Recording Fires	Normal
4.0	Ordered PPV Start	Normal
5.0	PPV Purchase Window Expires	Inactive
6.0	Current Program Ends	Normal

**Table 16: Illustrative Playlists List Screen/Mode Entry**

No.	Functionality	Description
1.0	Guide Initialization	The Playlists List Screen may be available as soon as the VOD feature is available.
2.0	Highlight	If there are existing playlists, the default highlight may be the first playlist on the page.
2.1	Highlight	If there are no existing playlists, the default highlight may be the Add Action Icon.
2.2	Highlight	If the user navigates from a list cell to the action icons, the default action icon may be the Down Arrow Action Icon.
3.0	Display Inclusion Criteria	Display all existing playlists.
4.0	Sorting/Grouping Criteria	The playlists may be displayed in order of creation time, from newest to oldest.
5.0	Customization	The OnDemand icon may be MSO-configurable.

**Table 17: Illustrative Playlists List Screen Formatting**

No.	Functionality	Description
1.0	Program Title	Not applicable
2.0	Time	Normal
3.0	Channel	Not applicable
4.0	Other Text	Not applicable
5.0	Colors	Normal

**Table 17: Illustrative Playlists List Screen Formatting**

No.	Functionality	Description
6.0	Indicators	Not applicable
7.0	Branding	Not applicable
8.0	Audio	Normal
9.0	LEDs	The Guide may display the last user channel or current time on the LED according to the description provided in the Appendix for time/channel display on the LED.

- [0036] FIGS. 6-9 show illustrative Playlist with Programs Screens that may be displayed when the user selects a playlist from the Playlist List and the playlist contains one or more programs, or when the user selects the Add action icon on the
- 5 Select a Playlist overlay. Tables 18-25 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such screens.

**Table 18: Illustrative Playlist with Programs Screen System Description**

No.	Description
1.0	VOD server 26 may maintain the playlists contents for each playlist stored for a STB.
1.1	Playlist contents may only include VOD programs that are free for all users without any subscription or purchase.
1.2	VOD server 26 may maintain the sequence of VOD programs within a VOD playlist.
2.0	VOD server 26 may include up to, e.g., 24 distinct VOD assets within a VOD playlist.
3.0	VOD server 26 may reposition individual VOD assets within the VOD playlist sequence.
4.0	VOD server 26 may automatically delete programs from a VOD playlist if they reach the end of their licensing window.
4.1	VOD server 26 may delete expired programs from a VOD playlist on a periodic, scheduled basis.
5.0	VOD server 26 may automatically delete programs from a VOD playlist if they not longer meet the eligibility criteria for inclusion in a playlist.

**Table 18: Illustrative Playlist with Programs Screen  
System Description**

No.	Description
5.1	VOD server 26 may delete ineligible programs from a VOD playlist on a periodic, scheduled basis.
6.0	VOD server 26 may maintain and transfer playlist specifications across STB replacements.
7.0	VOD server 26 may allow users to delete VOD programs from a VOD playlist.
8.0	VOD server 26 may maintain a record of the last playback position from the last time the playlist was played.
8.1	If the VOD program encompassing the last playback position is deleted from the playlist, the playback position may be moved to the beginning of the next asset in the playlist.
8.2	If the VOD program encompassing the last playback position is deleted from the playlist, and was the last asset in the playlist, the playback position may be moved to the beginning of the playlist.
9.0	VOD server 26 may play back a VOD playlist from the beginning.
10.0	VOD server 26 may play back a VOD playlist from the last playback position.
11.0	VOD server 26 may page up or down within the Playlist with Programs screen, to allow additional program listing pages within the playlist to be viewed.

**Table 19: Illustrative Playlist with Programs Screen  
General Description**

No.	Description
1.0	The Playlist with Programs screen may include: a screen header area an instant information area a playlist sequence area an action icon area
2.0	The playlist sequence area may include: a sequence number column a program title column a deletion checkbox column.
2.1	Each of the columns in the playlist sequence area may have a header row.

**Table 19: Illustrative Playlist with Programs Screen  
General Description**

No.	Description
2.1.1	The Guide displays the heading text "Order" in the header row of the sequence number column, center justified, in the language specified by the user at Guide setup, in white.
2.1.2	The Guide displays the heading text "Program Titles" in the header row of the program title column, left justified, in the language specified by the user at Guide setup, in white.
2.1.3	The Guide may display a checkbox in a "checked" state in the header row of the deletion checkbox column, left justified, in white.
3.0	If the user plays a playlist, any program within the playlist that is no longer available from VOD server 26 may be skipped over with no notification to the user <sup>1</sup> .
4.0	If the user plays a playlist, any program within the playlist that is no longer free for all users, without any subscription or purchase, may be skipped over with no notification to the user <sup>2</sup> .
5.0	Each distinct row within the playlist sequence area may represent a distinct program within the playlist.
5.1	The cell in the sequence number column, on a specific row in the playlist sequence area, may include the program's sequence number, centered in black text.
5.2	The cell in the program title column, on a specific row in the playlist sequence area, may include the full program title, left justified in white text.
5.3	The cell in the deletion checkbox column, on a specific row in the playlist sequence area, may include a checkbox that is in either a checked or an unchecked state, left justified.
5.3.1	The default state of all checkboxes in the deletion checkbox column may be unchecked.

<sup>1</sup> While VOD server 26 may automatically delete such programs, a playlist containing such a program may be played before the deletion is performed.

<sup>2</sup> While VOD server 26 may automatically delete such programs, a playlist containing such a program may be played before the deletion is performed.

**Table 20: Illustrative Playlist with Programs Screen  
Instant Information**

No.	Line	Format	Description
1.0	1	Left Justified	The name of the playlist, displayed in yellow
1.1	1	Right Justified	The text "Contains <number> Programs" in the language specified by the user at Guide setup, displayed in white, where <number> is the number of programs in the playlist.
2.0	2	Left Justified	Runtime of the playlist (total runtime of all programs in the playlist)
3.0	3	Left Justified	If a row in the Order column is highlighted, the text "Press <up/down arrows> on your remote to change your Playlist's order." is displayed in the language specified by the user in Guide setup and displayed in white text.
3.1	3	Left Justified	If the program title is highlighted, the text "Press <left arrow> to reorder programs, or press <right arrow> to delete programs." is displayed in the language specified by the user in Guide setup and displayed in white text.
3.2	3	Left Justified	If a row in the checkmark column is highlighted, the text "<checkmark> a <box symbol> and then select <X symbol> below to delete programs." is displayed in the language specified by the user at Guide setup and displayed in white text.

**Table 21: Illustrative Playlist with Programs Screen Action  
Icon Table**

No.	Name	Condition	Description
1.0	Last	Always present	Displays the screen from which it was displayed
2.0	Resume	Always present	Sends the video play request to VOD server 26 instructing the server to begin playing at the last playback position in the playlist.
2.1	Resume	Always present	If the last playback position in the playlist is a VOD program for which trick mode is not available, VOD server 26 may resume playback at the beginning of that VOD program.

**Table 21: Illustrative Playlist with Programs Screen Action  
Icon Table**

No.	Name	Condition	Description
3.0	Restart	Always present	Sends the video play request to VOD server 26 instructing the server to begin playing at the beginning of the playlist.
4.0	Down Arrow	Always present	Displays the next page of VOD programs in the playlist if there is a next page
4.1	Down Arrow	Always present	Inactive if there is no next page
5.0	Keyboard	Always present	Displays the Playlist Keyboard Overlay
6.0	Search	Always present	Displays the Playlist Search Screen
7.0	Lock	Always present	Displays the Lock Playlist Overlay
8.0	Delete	Always present	Displays the Playlist Deletion Options Overlay

**Table 22: Illustrative Playlist with Programs Screen  
Input Key Processing**

No.	Key	Screen Focus	Behavior
1.0	Power	Any	Normal
2.0	Volume Up	Any	Normal
3.0	Volume Down	Any	Normal
4.0	Mute	Any	Normal
5.0	Channel Up	Any	Normal
6.0	Channel Down	Any	Normal
7.0	Bypass	Any	Normal
8.0	Menu	Any	Normal
9.0	Guide	Any	Normal
10.0	Music	Any	Normal
11.0	Themes	Any	Normal
12.0	Search	Any	Normal

**Table 22: Illustrative Playlist with Programs Screen  
Input Key Processing**

No.	Key	Screen Focus	Behavior
13.0	Settings	Any	Normal
14.0	Exit	Any	Normal
15.0	Last	Any	Normal
16.0	Right Arrow	Sequence number column	The Guide may move the highlight to the program title column within the same row.
16.1	Right Arrow	Program title column	The Guide may move the highlight to the deletion checkbox column within the same row.
16.2	Right Arrow	Deletion checkbox column	Inactive
16.3	Right Arrow	Any action icon but farthest right	Normal
16.4	Right Arrow	Farthest right action icon	The Guide may move the highlight to the farthest left action icon.
17.0	Left Arrow	Sequence number column	Inactive
17.1	Left Arrow	Program title column	The Guide may move the highlight to the sequence number column within the same row.
17.2	Left Arrow	Deletion checkbox column	The Guide may move the highlight to the program title column within the same row.
17.3	Left Arrow	Any action icon but the farthest left	Normal
17.4	Left Arrow	Farthest left action icon	The Guide may move the highlight to the farthest right action icon.
18.0	Up Arrow	Top row within playlist sequence area, first page	Inactive
18.1	Up Arrow	Any row except top row within playlist	The Guide may move the highlight to the next higher row, within the same column.



**Table 22: Illustrative Playlist with Programs Screen  
Input Key Processing**

No.	Key	Screen Focus	Behavior
		sequence area, any column except sequence number column	
18.2	Up Arrow	Any row except top row within playlist sequence area, sequence number column	The Guide may send a request to VOD server 26 to move the currently highlighted program up one position within the playlist sequence, and refresh the playlist sequence area display.
18.3	Up Arrow	Top row within playlist sequence area, any column except sequence number column, any but first page	The Guide may display the previous page and highlight the bottom row, within the same column.
18.4	Up Arrow	Top row within playlist sequence area, sequence number column, any but first page	The Guide may: send a request to VOD server 26 to move the currently highlighted program up one position within the playlist sequence display the previous page highlight the bottom row, within the same column.
18.5	Up Arrow	Any action icon	The Guide may highlight the bottom row of the playlist sequence area, program title column.
19.0	Down Arrow	Bottom row within playlist sequence area, last page	Inactive
19.1	Down Arrow	Any row except bottom row within playlist sequence area, any column except	The Guide may move the highlight to the next lower row, within the same column.

**Table 22: Illustrative Playlist with Programs Screen  
Input Key Processing**

No.	Key	Screen Focus	Behavior
		sequence number column	
19.2	Down Arrow	Any row except bottom row within playlist sequence area, sequence number column	The Guide may send a request to VOD server 26 to move the currently highlighted program down one position within the playlist sequence, and may refresh the playlist sequence area display.
19.3	Down Arrow	Bottom row within playlist sequence area, any column except sequence number column, any but last page	The Guide may display the next page and highlight the top row, within the same column.
19.4	Down Arrow	Bottom row within playlist sequence area, sequence number column, any but last page	The Guide may: send a request to VOD server 26 to move the currently highlighted program down one position within the playlist sequence display the next page highlight the top row, within the same column.
19.5	Down Arrow	Any action icon except Down Arrow action icon	Inactive
19.6	Down Arrow	Down Arrow action icon, any but last page	The Guide may display the next page and highlight the top row, within the same column.
19.7	Down Arrow	Down Arrow action icon, last page	Inactive
20.0	OK	Any action icon	See Table 21.
20.1	OK	Program title column	The Guide may display the VOD Program Information Screen for the highlighted program.
20.2	OK	Sequence	Inactive

**Table 22: Illustrative Playlist with Programs Screen  
Input Key Processing**

No.	Key	Screen Focus	Behavior
		number column	
20.3	OK	Deletion checkbox column	The Guide may toggle the check symbol on or off inside the checkbox on the current row.
21.0	Digits 0-9	Any	Normal
22.0	Scroll Up	Any page but first	The Guide may display the previous page and highlight the top row, within the same column.
22.0	Scroll Up	First page	Inactive
23.0	Scroll Down	Any page but last	The Guide may display the next page and highlight the top row, within the same column.
23.0	Scroll Down	Last page	Inactive
24.0	Day Forward	Any	Inactive
25.0	Day Back	Any	Inactive
26.0	Help	Any	Inactive
27.0	Info	Program title column	The Guide may display the VOD Program Information Screen for the highlighted program.
27.1	Info	Playlist sequence area, any column but program title column	Inactive
27.2	Info	Any action Icon	Inactive
28.0	Favorite	Any	Inactive
29.0	Lock	Any	Displays the Lock Playlist Overlay
30.0	Record	Any	Inactive
31.0	Stop	Any	Inactive
32.0	Pause	Any	Inactive
33.0	Play	Any	Inactive
34.0	Rewind	Any	Inactive

**Table 22: Illustrative Playlist with Programs Screen  
Input Key Processing**

No.	Key	Screen Focus	Behavior
35.0	Fast Forward	Any	Inactive
36.0	PPV	Any	Normal
37.0	Letters A-Z	Any	Inactive
38.0	VOD	Any	Inactive
39.0	Return to Live TV	Any	Inactive
40.0	Skip Forward	Any	Inactive
41.0	Replay	Any	Inactive
42.0	A	Any	Inactive
43.0	B	Any	Inactive
44.0	C	Any	Inactive
45.0	Digital Recordings	Any	Normal
46.0	Swap	Any	Inactive

**Table 23: Illustrative Playlist with Programs Screen  
Other Event Handling**

No.	Event	Conditions/Comments
1.0	Screen Timeout	Normal
2.0	Reminder	Normal
3.0	Scheduled Recording Fires	Normal
4.0	Ordered PPV Start	Normal
5.0	PPV Purchase Window Expires	Inactive
6.0	Current Program Ends	Normal
7.0	Data added, deleted or modified in database	Normal

**Table 24: Illustrative Playlist with Programs Screen/Mode Entry**

No.	Functionality	Description
1.0	Guide Initialization	The Playlist Screen – Not Empty may be available as soon as the VOD feature is available.
2.0	Highlight	The default highlight may be on the first listing in the playlist.
3.0	Display Inclusion Criteria	Display all VOD programs in the playlist.
4.0	Sorting/Grouping Criteria	Programs within the playlist may be ordered as specified in the VOD data.
4.1	Sorting/Grouping Criteria	Programs may be placed at the end of the playlist when they are added, by default.
4.2	Sorting/Grouping Criteria	See arrow key description in Table 22 for reordering of programs in the playlist.
5.0	Customization	The OnDemand icon may be MSO-configurable.
6.0	Other Entry Actions	Not applicable

**Table 25: Illustrative Playlist with Programs Screen Formatting**

No.	Functionality	Description
1.0	Program Title	Normal
2.0	Time	Normal
3.0	Channel	Not applicable
4.0	Other Text	Not Applicable
5.0	Colors	Normal
6.0	Indicators	Not applicable
7.0	Branding	Not Applicable
8.0	Audio	Normal
9.0	LEDs	Normal

[0037] FIG. 10 shows an illustrative keyboard overlay. Tables 26-27 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with

5 providing such an overlay.

**Table 26: Illustrative Playlist Keyboard Overlay  
General Description**

No.	Description
1.0	The guide may provide an on screen Playlist Keyboard overlay for naming distinct VOD playlists.
1.1	The Playlist Keyboard overlay may include a keyboard component and a string entry field.
2.0	The keyboard component may facilitate entry of all capital letters of the English alphabet, digits 0-9 and the space character within the string entry field.
2.1	The string entry field may allow the user to see characters in the character string as they are entered.
2.1.1	Entry of characters may be sequential from left to right.
2.1.2	The character entry position may be maintained after the rightmost character in the string entry field.
2.1.3	The character entry position may be represented by a character entry cursor.
2.2	The keyboard component may facilitate deletion of the rightmost character in the string entry field via the Delete/Backspace selectable item.
2.3	The keyboard component may allow entry of up to, e.g., 25 characters within the string entry field.
2.3.1	If the number of characters, together with the character entry cursor, exceeds the display capacity of the string entry field, one or more leftmost characters may be shifted beyond the left edge of the string entry field, as required to maintain the character entry cursor within the right edge of the string entry field.
2.3.2	If any characters remain shifted beyond the left edge of the string entry field, and the user deletes the rightmost character using the Delete/Backspace key, one or more first characters may be shifted back into the string entry field display, provided the character entry cursor may maintain its position within the right edge of the string entry field.
2.3.3	If no characters remain shifted beyond the left edge of the string entry field, and the user deletes the rightmost character using the Delete/Backspace key, the characters may remain fixed within the string entry field, and the character entry cursor may move to the left.
3.0	The space character option in the keyboard component may include the text "Sp" in white text.
4.0	The delete/backspace option in the keyboard component may include the text "Del" in white text.

**Table 26: Illustrative Playlist Keyboard Overlay  
General Description**

No.	Description
5.0	The save option in the keyboard component may include the text "Save" in white text.
5.1	The "Save" selectable item may be grayed out if no non-space characters have been entered in the string entry field.
6.0	The default highlight on entry may be the "A" character in the keyboard component.
7.0	The string entry field may be empty on entry.

**Table 27: Illustrative Playlist Keyboard Overlay  
Input Key Processing**

No.	Key	Screen Focus	Behavior
1.0	Power	Any	Normal
2.0	Volume Up	Any	Normal
3.0	Volume Down	Any	Normal
4.0	Mute	Any	Normal
5.0	Channel Up	Any	Normal
6.0	Channel Down	Any	Normal
7.0	Bypass	Any	Normal
8.0	Menu	Any	Normal
9.0	Guide	Any	Normal
10.0	Music	Any	Normal
11.0	Themes	Any	Normal
12.0	Search	Any	Normal
13.0	Settings	Any	Inactive
14.0	Exit	Any	Normal
15.0	Last	Any	The Guide may dismiss the Playlist Keyboard overlay and redisplay the screen it was accessed from.

**Table 27: Illustrative Playlist Keyboard Overlay  
Input Key Processing**

No.	Key	Screen Focus	Behavior
16.0	Right Arrow	Anywhere in keyboard component except rightmost keys.	Move the highlight to the next key to the right in the keyboard component.
16.1	Right Arrow	Rightmost keys in keyboard component, or string entry field	Inactive
17.0	Left Arrow	Anywhere in keyboard component except leftmost keys.	Move the highlight to the next key to the left in the keyboard component.
17.1	Left Arrow	Leftmost keys in keyboard component, or string entry field.	Inactive
18.0	Up Arrow	Alphanumeric keys in keyboard component, not including top row.	Move the highlight to the next higher key in the keyboard component.
18.1	Up Arrow	"A" or "B" key in keyboard component.	Move highlight to the "Delete" option.
18.2	Up Arrow	"C" or "D" key in keyboard component.	Move highlight to the "Spacebar" option.
18.3	Up Arrow	"E" or "F" key in keyboard component.	Move highlight to the "Save" option.
18.4	Up Arrow	Delete, Space or Save option in the keyboard component.	Move the highlight to the string entry field.
18.5	Up Arrow	String entry field.	Inactive



**Table 27: Illustrative Playlist Keyboard Overlay  
Input Key Processing**

No.	Key	Screen Focus	Behavior
19.0	Down Arrow	String entry field.	Move highlight to the "Delete" option.
19.1	Down Arrow	Delete option in the keyboard component.	Move the highlight to the "A" key in the keyboard component.
19.2	Down Arrow	Space option in the keyboard component.	Move the highlight to the "C" key in the keyboard component.
19.3	Down Arrow	Save option in the keyboard component.	Move the highlight to the "E" key in the keyboard component.
19.4	Down Arrow	Alphanumeric keys in keyboard component, not including bottom row.	Move the highlight to the next lower key in the keyboard component.
19.5	Down Arrow	Bottom row of alphanumeric keys in keyboard component.	Inactive
20.0	OK	String entry field, string contains at least one non-space character.	The Guide may rename the current favorite list using the character string in the string entry field, dismiss the Playlist Keyboard overlay and redisplay the screen it was accessed from.
20.1	OK	String entry field, string contains no non-space characters.	Inactive
20.2	OK	Any alphanumeric key, or space key, in the keyboard component.	If fewer than, e.g., 25 characters have been entered, append the corresponding character to the character string, and shift the string entry field display as required.

**Table 27: Illustrative Playlist Keyboard Overlay  
Input Key Processing**

No.	Key	Screen Focus	Behavior
20.2.1	OK	Any alphanumeric key, or space key, in the keyboard component.	Inactive if, e.g., 25 characters have been entered.
20.4	OK	Delete/backspace key in keyboard component.	Delete the rightmost search character in the search string entry field, and shift the search string entry field display as required.
20.4.1	OK	Delete/backspace key in keyboard component.	Inactive if there are no characters in the string entry field.
20.5	OK	“Save” option in keyboard component, string contains at least one non-space character.	The Guide may rename the current favorite list using the character string in the string entry field, dismiss the Playlist Keyboard overlay and redisplay the screen it was accessed from.
20.6	OK	“Save” option in keyboard component, string contains no non-space characters.	Inactive
21.0	Digits 0-9	Any	If fewer than, e.g., 25 characters have been entered, append the corresponding number to the character string, and shift the string entry field display as required.
21.1	Digits 0-9	Any	Inactive if, e.g., 25 characters have been entered.
22.0	Scroll Up	Any	Inactive
23.0	Scroll Down	Any	Inactive
24.0	Day Forward	Any	Inactive
25.0	Day Back	Any	Inactive
26.0	Help	Any	Inactive

**Table 27: Illustrative Playlist Keyboard Overlay  
Input Key Processing**

No.	Key	Screen Focus	Behavior
27.0	Info	Any	Inactive
28.0	Favorite	Any	Inactive
29.0	Lock	Any	Inactive
30.0	Record	Any	Inactive
31.0	Stop	Any	Inactive
32.0	Pause	Any	Inactive
33.0	Play	Any	Inactive
34.0	Rewind	Any	Inactive
35.0	Fast Forward	Any	Inactive
36.0	PPV	Any	Normal
37.0	Letters A-Z	Any	If fewer than, e.g., 25 characters have been entered, append the corresponding character to the character string, and shift the string entry field display as required.
37.1	Letters A-Z	Any	Inactive if, e.g., 25 characters have been entered.
38.0	VOD	Any	Normal
39.0	Return to Live TV	Any	Normal
40.0	Skip Forward	Any	Inactive
41.0	Replay	Any	Inactive
42.0	A	Any	Inactive
43.0	B	Any	Inactive
44.0	C	Any	Inactive
45.0	Digital Recordings	Any	Normal
46.0	Swap	Any	Inactive

- [0038] FIG. 11 show an illustrative Select a Playlist Overlay that may be displayed when the user selects the Add to a Playlist Icon on the VOD Program Information screen. The user selects a playlist to which the program will be added.
- 5 Tables 28-34 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 28: Illustrative Select a Playlist Overlay  
System Description**

No.	Description
1.0	VOD server 26 may maintain a list of playlists for each distinct STB.
1.1	The list of playlists may be ordered according to the date and time of playlist creation, beginning with the most recently created playlist.
2.0	When the Guide requests the list of playlists, and if more than one playlist has been created, VOD server 26 may provide the list of playlists to the Guide.
2.1	VOD server 26 pages up or down within the Select a Playlist overlay to allow viewing of additional playlist list pages.
3.0	VOD server 26 responds to requests from the Guide to add a new playlist.
3.1	VOD server 26 may create up to, for example, 24 playlists per STB.
3.2	VOD server 26 may communicate an error to the Guide if a request is made to add a new playlist, and the maximum number of playlists has been reached for the STB.
4.0	VOD server 26 responds to requests from the Guide to add a VOD program to an existing playlist.
4.1	VOD server 26 may include up to, for example, 24 programs per VOD playlist.
4.2	VOD server 26 may communicate an error to the Guide if a request is made to add a program to a playlist, and the maximum number of programs has been reached for the selected playlist.

**Table 29: Illustrative Select a Playlist Overlay  
General Description**

No.	Description
1.0	The Guide may display the Select a Playlist Overlay when the user selects the Add Video to Playlist Icon on the VOD Program Information screen.

**Table 29: Illustrative Select a Playlist Overlay  
General Description**

No.	Description
2.0	The Select a Playlist Overlay may include: an overlay title area a playlist list area an action icon area
3.0	The title of the Select a Playlist Overlay may be "Select a Playlist to add this program to." in the language specified by the user in the Guide setup, displayed in yellow text, centered in the overlay title area.
4.0	The playlist list area may include a header row and a vertical list of playlists.
4.1	The header row may include, left justified, the Playlist icon, followed by the text "Playlists" in white text, in the language specified by the user in Guide setup.
4.2	Each list cell in the vertical list of playlists may include the playlist name, left justified in white text.
5.0	If no playlists have been created, the vertical list of playlists may include the text "No playlists have been created" in the language specified by the user at Guide setup, displayed in yellow,

**Table 30: Illustrative Select a Playlist Overlay Action  
Icon Table**

No.	Name	Condition	Description
1.0	Last	Always present	Displays the screen from which it was displayed
2.0	Down Arrow	Always present	Displays the next page of VOD playlists
2.1	Down Arrow	Always present	Inactive if the current page is the last or only page.
3.0	New Playlist	Always present	If the maximum number of playlists has not been reached, the Guide may: Send a request to VOD server 26 to create a new playlist, assigning a default playlist name in the form "Playlist <lowest positive integer not already used to name a playlist>", and with the VOD program from the underlying VOD Program Information screen as its sole asset.

**Table 30: Illustrative Select a Playlist Overlay Action  
Icon Table**

No.	Name	Condition	Description
			Display the Playlist with Programs screen for the new playlist.
3.1	New Playlist	Always present	If the maximum number of playlists has been reached, the Guide may display the Maximum Playlists Notice

**Table 31: Illustrative Select a Playlist Overlay Input Key Processing**

No.	Key	Screen Focus	Behavior
1.0	Power	Any	Normal
2.0	Volume Up	Any	Normal
3.0	Volume Down	Any	Normal
4.0	Mute	Any	Normal
5.0	Channel Up	Any	Normal
6.0	Channel Down	Any	Normal
7.0	Bypass	Any	Normal
8.0	Menu	Any	Normal
9.0	Guide	Any	Normal
10.0	Music	Any	Normal
11.0	Themes	Any	Normal
12.0	Search	Any	Normal
13.0	Settings	Any	Normal
14.0	Exit	Any	Normal
15.0	Last	Any	Normal
16.0	Right Arrow	Any list cell	Inactive
16.1	Right Arrow	Any action icon but farthest right	Normal

**Table 31: Illustrative Select a Playlist Overlay Input Key Processing**

No.	Key	Screen Focus	Behavior
16.2	Right Arrow	Farthest right action icon	The Guide may move the highlight to the farthest left action icon.
17.0	Left Arrow	Any list cell	Inactive
17.1	Left Arrow	Any action icon but the farthest left	Normal
17.2	Left Arrow	Farthest left action icon	The Guide may move the highlight to the farthest right action icon.
18.0	Up Arrow	Top list cell on first page	Inactive
18.1	Up Arrow	Any list cell except top on page	The Guide may move the highlight to the next higher list cell.
18.2	Up Arrow	Top list cell on any page but first	The Guide may display the previous page and highlight the bottom list cell.
18.3	Up Arrow	Any action icon	The Guide may highlight the bottom list cell on the page.
19.0	Down Arrow	Any list cell except bottom on page	The Guide may move the highlight to the next lower list cell.
19.1	Down Arrow	Bottom list cell	The Guide may move the highlight to the Down Arrow Action Icon.
19.2	Down Arrow	Down Arrow action icon	The Guide may display the next page of listings and highlight the top list cell.
19.3	Down Arrow	Any action icon except Down Arrow	Inactive
20.0	OK	Any action icon	See Table 30.
20.1	OK	Any list cell	Send a request to VOD server 26 to add the program from the underlying VOD Program Information screen to the selected playlist. If successful, dismiss the Select a Playlist Overlay and display the Program Added Overlay.
20.2	OK	Any list cell	Send a request to VOD server 26 to add the program from the underlying VOD Program

**Table 31: Illustrative Select a Playlist Overlay Input Key Processing**

No.	Key	Screen Focus	Behavior
			Information screen to the selected playlist. If the playlist has reached the maximum number of programs, display the Maximum Programs notice over the Select a Playlist Overlay.
21.0	Digits 0-9	Any	Normal
22.0	Scroll Up	Any	Normal
23.0	Scroll Down	Any	Normal
24.0	Day Forward	Any	Inactive
25.0	Day Back	Any	Inactive
26.0	Help	Any	Inactive
27.0	Info	Any list cell	The Guide may display the Playlist Information Screen for the highlighted Playlist.
27.1	Info	Any action Icon	Inactive
28.0	Favorite	Any	Inactive
29.0	Lock	Any	Inactive
30.0	Record	Any	Inactive
31.0	Stop	Any	Inactive
32.0	Pause	Any	Inactive
33.0	Play	Any	Inactive
34.0	Rewind	Any	Inactive
35.0	Fast Forward	Any	Inactive
36.0	PPV	Any	Normal
37.0	Letters A-Z	Any	Inactive
38.0	VOD	Any	Inactive
39.0	Return to Live TV	Any	Inactive
40.0	Skip Forward	Any	Inactive



**Table 31: Illustrative Select a Playlist Overlay Input Key Processing**

No.	Key	Screen Focus	Behavior
41.0	Replay	Any	Inactive
42.0	A	Any	Inactive
43.0	B	Any	Inactive
44.0	C	Any	Inactive
45.0	Digital Recordings	Any	Normal
46.0	Swap	Any	Inactive

**Table 32: Illustrative Select a Playlist Overlay Other Event Handling**

No.	Event	Conditions/Comments
1.0	Screen Timeout	Normal
2.0	Reminder	Normal
3.0	Scheduled Recording Fires	Normal
4.0	Ordered PPV Start	Normal
5.0	PPV Purchase Window Expires	Inactive
6.0	Current Program Ends	Normal
7.0	Data added, deleted or modified in database	Normal

**Table 33: Illustrative Select a Playlist Overlay Screen/Mode Entry**

No.	Functionality	Description
1.0	Guide Initialization	The Select a Playlist Overlay may be available as soon as the VOD feature is available.
2.0	Highlight	The default highlight may be on the first playlist in the list.
2.1	Highlight	If no playlists have been created, the default highlight may be on the "Add Playlist" action icon.
3.0	Display Inclusion Criteria	Display all existing playlists.

**Table 33: Illustrative Select a Playlist Overlay Screen/Mode Entry**

No.	Functionality	Description
4.0	Sorting/Grouping Criteria	The playlists may be displayed in order of creation time, from newest to oldest.
5.0	Customization	The OnDemand icon may be MSO-configurable.
6.0	Other Entry Actions	Not applicable
7.0	VOD Program context	The Guide may retain the context of the VOD program from the underlying VOD Program Information screen.

**Table 34: Illustrative Select a Playlist Overlay Screen Formatting**

No.	Functionality	Description
1.0	Program Title	Not applicable
2.0	Time	Normal
3.0	Channel	Not applicable
4.0	Other Text	Not Applicable
5.0	Colors	Normal
6.0	Indicators	Not applicable
7.0	Branding	Not Applicable
8.0	Audio	Normal
9.0	LEDs	Normal

[0039] FIG. 12 shows an illustrative Maximum Playlists Overlay. The Maximum Playlists overlay may be displayed when the maximum number of  
5 playlists (e.g., 24) has been created, and the user makes a request to add a new playlist. Table 35 describes illustrative behaviors of the IPG and/or VOD server  
26 in connection with providing such an overlay.

**Table 35: Illustrative Maximum Playlists Overlay  
General Descriptions**

No.	Description
1.0	This overlay may be displayed when the user selects the New Playlist icon on the Playlists List Screen or the Select a Playlist Overlay and the maximum number of 24 playlists has already been created.
1.0	The Maximum Playlists Overlay may include the Playlist icon followed by the title "MAXIMUM PLAYLISTS CREATED" in yellow text, centered at the top of the overlay.
2.0	The Maximum Playlists Overlay may include the text "The maximum number of Playlists has been reached. You must delete an existing Playlist to continue." in white text, centered below the title and in the language specified by the user in Language Setup.
3.0	All key presses may follow the Common Input Key Processing definition for Notice Overlays in the Appendix.
4.0	The Maximum Playlists Overlay may follow the Common Other Event Handling definition for Notice Overlays in the Appendix.

[0040] FIG. 13 shows an illustrative Maximum Programs Notice. This notice may be displayed when the user attempts to add a program to a playlist that already contains the maximum number of programs. Table 36 describes illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 36: Illustrative Maximum Programs Notice  
General Description**

No.	Description
1.0	This notice may be displayed when the user selects a playlist from the Select a Playlist Overlay, or attempts to "toggle a program on" within the Playlist search screen, but the playlist already contains the maximum number of, e.g., 24 programs.
2.0	Notice text may be "You cannot add any more programs to this Playlist." displayed in yellow in the language selected by the user in Guide Setup.
3.0	This notice may follow the description as defined for Overlay Notice screens, except as specified in this section.

[0041] FIG. 14 shows an illustrative Program Added Overlay. The Program Added Overlay may be displayed when the Guide has successfully added a

program to a playlist. Tables 37-38 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 37: Illustrative Program Added Overlay  
General Description**

No.	Description
1.0	The title of the Program Added Overlay may be "PROGRAM ADDED" in the language specified by the viewer in the Guide setup, displayed in yellow.
1.1	The Guide may display the text, "This program has been added to the following playlist.", on the Program Added Overlay in the language specified by the viewer in the Guide setup, displayed in white.
2.0	The Guide may display the OK/Yes Icon with the label "Confirm" on the overlay, in the language specified by the user in Guide setup.
2.1	When the OK key is pressed with the "Confirm" option highlighted, the Guide dismisses the overlay.
3.0	The default highlight on the Program Added Overlay may be the Confirm Icon.
4.0	Except as otherwise specified here, this overlay may follow the description for Single Action Overlays in the Appendix).

**Table 38: Illustrative Playlist with Programs Screen  
Instant Information**

No.	Line	Format	Description
1.0	1	Left Justified	The name of the playlist, displayed in yellow
1.1	1	Right Justified	The text "Contains <number> programs" in the language specified by the user at Guide setup, displayed in white, where <number> is the number of programs in the playlist.
2.0	2	Left Justified	Runtime of the playlist (total runtime of all programs in the playlist)

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[0042] FIG. 15 shows an illustrative Playlist Deletion Options Overlay. The Playlist Deletion Options Overlay may be displayed when the user selects the Delete Action Icon on the Playlist with Programs Screen. Tables 39-40 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with

10 providing such an overlay.

**Table 39: Illustrative Playlist Deletion Options Overlay  
General Description**

No.	Description
1.0	The Guide may display the Playlist Deletion Options Overlay when the user selects the Delete Action Icon on the Playlist with Programs Screen.
1.1	The title of the Playlist Deletion Options Overlay may be “DELETION OPTIONS” in the language specified by the viewer in the Guide setup, displayed in yellow text.
2.0	If the user has checked the deletion checkbox for at least one program in the Playlist with Programs screen, the Guide may display the Delete Icon on the Playlist Deletion Options Overlay with the label “Delete programs with a <i>&lt;checkmark/box&gt;</i> only” in the language specified by the user in the Guide setup.
2.1	The Guide may display the Delete Icon on the Playlist Deletion Options Overlay with the label “Delete all programs” in the language specified by the user in the Guide setup.
2.2	The Guide may display the Delete Icon on the Playlist Deletion Options Overlay with the label “Delete the entire playlist” in the language specified by the user in the Guide setup.
2.3	The Guide may display the Last/Back Icon on the Playlist Deletion Options Overlay with the label “Cancel” in the language specified by the user in the Guide setup.
3.0	The Deletion Options may be displayed in the following order: Delete programs with a <i>&lt;checkmark/box&gt;</i> only (if present) Delete all programs Delete the entire Playlist Don’t do anything
4.0	The default highlight may be the “Delete programs with a <i>&lt;checkmark/box&gt;</i> only” option, if present.
4.1	If the “Delete programs with a <i>&lt;checkmark/box&gt;</i> only” option is not present, the default highlight may be the “Delete all programs” option.
5.0	Except as specified in this section, this overlay may follow the description in the Common Action Overlay section of the Appendix.

**Table 40: Illustrative Playlist Deletion Options Overlay Action Icon Description**

No.	Action Icon	Function When Selected
1.0	Delete programs with a checkmark only (if present)	If all of the programs are checked on the underlying Playlist with Programs Screen, the Guide may: send a request to VOD server 26 to delete all programs from the playlist dismiss the overlay, and display the Default Playlist Screen with the playlist name in place of the default playlist name.
1.1	Delete programs with a checkmark only (if present)	If not all of the programs are checked on the underlying Playlist with Programs Screen, the Guide may: send a request to VOD server 26 to delete all checked programs from the playlist dismiss the overlay, and display the underlying Playlist with Programs Screen updated to reflect the deletions.
2.0	Delete all programs	The Guide may: send a request to VOD server 26 to delete all programs from the playlist dismiss the overlay, and display the Default Playlist Screen with the playlist name in place of the default playlist name.
3.0	Delete the entire Playlist	The Guide may dismiss the overlay and display the Delete Playlist Confirmation Overlay.
4.0	Don't do anything	The Guide may dismiss the overlay.

[0043] FIG. 16 shows an illustrative Delete Playlist Confirmation Overlay that may be displayed when the user selects the Delete Action Icon on the Default Playlist Screen or selects the Delete Entire Playlist option on the Playlist Deletion Options Overlay. Tables 41-42 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 41: Illustrative Delete Playlist Confirmation Overlay  
General Description**

No.	Description	Rationale
1.0	The Guide may display the Delete Playlist Confirmation Overlay when the user selects the Delete Action Icon on the Default Playlist Screen or selects the Delete Entire Playlist option on the Playlist Deletion Options Overlay.	
1.1	The Guide may display the Delete Icon on the Delete Playlist Confirmation Overlay with the label "Delete Playlist" in the language specified by the user in the Guide setup.	
1.2	The Guide may display the Cancel Icon on the Delete Playlist Confirmation Overlay with the label "Don't delete Playlist" in the language specified by the user in the Guide setup.	
2.0	The default highlight may be the Delete Icon.	
3.0	Except as specified in this section, this confirmation screen may follow the description provided in the Common Confirmation Overlay section of the Appendix.	

**Table 42: Illustrative Delete Playlist Confirmation Overlay  
Action Icon Table**

No.	Name	Condition	Description
1.0	Delete Playlist	Always present	The Guide may: send a request to VOD server 26 to delete the playlist with all of its contents dismiss the overlay and display the screen from which the playlist was accessed.
2.0	Don't delete Playlist	Always present	The Guide may dismiss the overlay.

[0044] FIG. 17 shows an illustrative overlay that may be displayed when the user selects the Lock Action Icon on the Default Playlist Screen or Playlist with  
5 Programs Screen and enters the proper PIN on the Enter Locks PIN Overlay. If a

playlist is locked, anyone without the correct PIN will not be able to access the Playlist for playback, editing, or deleting. Tables 43-44 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

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**Table 43: Illustrative Lock Playlist Overlay General Description**

No.	Description
1.0	This overlay may be displayed when the user selects the Lock Action Icon on the Default Playlist Screen or Playlist with Programs Screen and enters the proper PIN on the Enter Locks PIN Overlay.
2.0	Title text for the Lock Playlist Overlay may be "LOCK CONFIRMATION" displayed in yellow.
2.1	Descriptive text under the title text may be "Locking will restrict access to this playlist.", displayed in white.
3.0	If the playlist is currently unlocked, the Guide may display the Unlocked Icon on the Lock Playlist Overlay with the label "Lock this playlist" in the language specified by the user in the Guide setup.
3.1	If the playlist is currently locked, the Guide may display the Locked Icon on the Lock Playlist Overlay with the label "Unlock this playlist" in the language specified by the user in the Guide setup.
4.0	The Guide may display the OK/Yes Icon on the Lock Playlist Overlay with the label "Confirm this Lock" in the language specified by the user in the Guide setup.
5.0	The default highlight for this overlay may be the "Confirm this lock" option.
6.0	Except as specified in this section, this overlay may follow the description provided in the Common Action Overlay section of the Appendix.

**Table 44: Illustrative Lock Playlist Overlay  
Action Icon Description**

No.	Action Icon	Function When Selected
1.0	Lock this playlist	The Guide may update the playlist lock state to locked, updates the action icon to the Locked Icon, and updates the label to "Unlock this playlist".



**Table 44: Illustrative Lock Playlist Overlay  
Action Icon Description**

No.	Action Icon	Function When Selected
1.1	Unlock this playlist	The Guide may update the playlist lock state to unlocked, updates the action icon to the Unlocked Icon, and updates the label to "Lock this playlist".
2.0	Confirm this lock	The Guide may dismiss the overlay.

[0045] FIGS. 18 and 19 show illustrative Playlist Search Screens that may be displayed when the user selects the Search action icon on the Default Playlist Screen or the Playlist with Programs Screen. These screens may contain free VOD listing search results available to add to a playlist. Tables 45-50 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such screens.

**Table 45: Illustrative Playlist Search Screen General  
Description Table**

No.	Description
1.0	The Guide may display the Playlist Search Screen when the user selects the Search Icon on the Default Playlist Screen or the Playlist with Programs Screen.
2.0	The Playlist Search screen may include: a screen header area an instant information area a playlist candidate area an action icon area
3.0	The playlist candidate area may include a header row and a vertical list of playlist candidates.
3.1	The header row in the playlist candidate area may include the Search icon, followed by the text "<Playlist name> Search", left justified, where the text "Search" is in the language specified by the user in the Guide setup.
3.2	The header row in the playlist candidate area may include the text "Select to add or delete", right justified, and in the language specified by the user in the Guide setup.
4.0	The vertical list of playlist candidates may include all VOD programs that are available to the user for free, without any subscription or purchase.

**Table 45: Illustrative Playlist Search Screen General  
Description Table**

No.	Description
4.1	The listing cell for any VOD program that is currently included in the playlist may display the Playlist icon, right justified in the listing cell.
5.0	The Guide may not permit inclusion of more than, e.g., 24 distinct VOD programs for the playlist.
5.1	If the user has toggled the playlist indicator "on" for, e.g., 24 programs, and attempts to toggle the playlist indicator "on" for an additional program, the Guide may display the Maximum Programs Notice.
6.0	Programs may be added to / deleted from a playlist immediately when toggled on/off within the Playlist Search screen.

**Table 46: Illustrative Playlist Search Screen Action Icon Table**

No.	Name	Condition	Description
1.0	Last	Always present	Displays the screen from which it was displayed
2.0	Down Arrow	Always present	Displays the next page of search results if there is a next page
2.1	Down Arrow	Always present	Inactive if there is no next page
4.0	Confirm	Always present	Displays the Default Playlist Screen if there are no programs marked as included in the playlist
4.1	Confirm	Always present	Displays the Playlist with Programs Screen if there are one or more programs marked as included in the playlist
8.0	Delete	Always present	Displays the Clear All Programs Confirmation Overlay

**Table 47: Illustrative Playlist Search Screen Input Key Processing**

No.	Key	Screen Focus	Behavior
1.0	Power	Any	Normal
2.0	Volume Up	Any	Normal
3.0	Volume Down	Any	Normal
4.0	Mute	Any	Normal

**Table 47: Illustrative Playlist Search Screen Input Key Processing**

No.	Key	Screen Focus	Behavior
5.0	Channel Up	Any	Normal
6.0	Channel Down	Any	Normal
7.0	Bypass	Any	Normal
8.0	Menu	Any	Normal
9.0	Guide	Any	Normal
10.0	Music	Any	Normal
11.0	Themes	Any	Normal
12.0	Search	Any	Normal
13.0	Settings	Any	Normal
14.0	Exit	Any	Normal
15.0	Last	Any	Normal
16.0	Right Arrow	Any list cell	Inactive
16.1	Right Arrow	Any action icon but farthest right	Normal
16.2	Right Arrow	Farthest right action icon	The Guide may move the highlight to the farthest left action icon.
17.0	Left Arrow	Any list cell	Inactive
17.1	Left Arrow	Any action icon but the farthest left	Normal
17.2	Left Arrow	Farthest left action icon	The Guide may move the highlight to the farthest right action icon.
18.0	Up Arrow	Top list cell on first page	Inactive
18.1	Up Arrow	Any list cell except top on page	The Guide may move the highlight to the next higher list cell.
18.2	Up Arrow	Top list cell on any page but first	The Guide may display the previous page and highlight the bottom list cell.

**Table 47: Illustrative Playlist Search Screen Input Key Processing**

No.	Key	Screen Focus	Behavior
18.3	Up Arrow	Any action icon	The Guide may highlight the bottom list cell on the page.
19.0	Down Arrow	Any list cell except bottom on page	The Guide may move the highlight to the next lower list cell.
19.1	Down Arrow	Bottom list cell	The Guide may move the highlight to the Down Arrow Action Icon.
19.2	Down Arrow	Down Arrow action icon	The Guide may display the next page of listings and highlight the top list cell.
19.3	Down Arrow	Any action icon except Down Arrow	Inactive
20.0	OK	Any action icon	See Table 46.
20.1	OK	Any list cell	The Guide may add/remove the program from the playlist and toggle the Playlist Indicator on or off, right justified in the list cell.
21.0	Digits 0-9	Any	Normal
22.0	Scroll Up	Any	Normal
23.0	Scroll Down	Any	Normal
24.0	Day Forward	Any	Inactive
25.0	Day Back	Any	Inactive
26.0	Help	Any	Inactive
27.0	Info	Any list cell	The Guide may display the VOD Program Information Screen for the highlighted program.
27.1	Info	Any action Icon	Inactive
28.0	Favorite	Any	Inactive
29.0	Lock	Any	Inactive
30.0	Record	Any	Inactive
31.0	Stop	Any	Inactive
32.0	Pause	Any	Inactive

**Table 47: Illustrative Playlist Search Screen Input Key Processing**

No.	Key	Screen Focus	Behavior
33.0	Play	Any	Inactive
34.0	Rewind	Any	Inactive
35.0	Fast Forward	Any	Inactive
36.0	PPV	Any	Normal
37.0	Letters A-Z	Any	Inactive
38.0	VOD	Any	Inactive
39.0	Return to Live TV	Any	Inactive
40.0	Skip Forward	Any	Inactive
41.0	Replay	Any	Inactive
42.0	A	Any	Inactive
43.0	B	Any	Inactive
44.0	C	Any	Inactive
45.0	Digital Recordings	Any	Normal
46.0	Swap	Any	Inactive

**Table 48: Illustrative Playlist Search Screen Other Event Handling**

No.	Event	Conditions/Comments
1.0	Screen Timeout	Normal
2.0	Reminder	Normal
3.0	Scheduled Recording Fires	Normal
4.0	Ordered PPV Start	Normal
5.0	PPV Purchase Window Expires	Inactive
6.0	Current Program Ends	Normal
7.0	Data added, deleted or modified in database	Normal

**Table 49: Illustrative Playlist Search Screen/Mode Entry**

No.	Functionality	Description
1.0	Guide Initialization	The Playlist Search Screen may be available as soon as the VOD feature is available.
2.0	Highlight	The default highlight may be on the first listing in the playlist candidate area.
3.0	Display Inclusion Criteria	Display all VOD programs that are free without any subscription or purchase.
4.0	Sorting/Grouping Criteria	Programs may be sorted in ascending alphanumeric order.
5.0	Customization	The OnDemand icon may be MSO-configurable.
6.0	Other Entry Actions	Not applicable
7.0	Playlist context	The Playlist Search screen may retain the context of the VOD playlist in the Playlist Information screen from which this screen was invoked.

**Table 50: Illustrative Playlist Search Screen Formatting**

No.	Functionality	Description
1.0	Program Title	Normal
2.0	Time	Normal
3.0	Channel	Not applicable
4.0	Other Text	Not Applicable
5.0	Colors	Normal
6.0	Indicators	Not applicable
7.0	Branding	Not Applicable
8.0	Audio	Normal
9.0	LEDs	Normal

[0046] FIG. 20 shows an illustrative Clear All Programs Confirmation Overlay that may be displayed when the user selects the Delete action icon on the Playlist Search Screen. Tables 51-52 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 51: Illustrative Clear All Programs Confirmation Overlay  
General Description**

No.	Description
1.0	The Guide may display the Clear All Programs Overlay when the user selects the Delete action icon on the Playlist Search Screen.
1.1	The Guide may display the title "CLEAR ALL PROGRAM SELECTIONS" on the Clear All Programs Overlay in the language specified by the user in the Guide setup, in yellow text.
1.2	The Guide may display the prompt "Are you sure you want to clear all program selections for this playlist?" on the Clear All Programs Overlay in the language specified by the user in Guide setup.
1.3	The Guide may display the OK/Yes icon on the Clear All Programs Overlay with the label "Clear all program selections" in the language specified by the user in the Guide setup.
1.4	The Guide may display the Cancel icon on the Clear All Programs Overlay with the label "Don't clear" in the language specified by the user in the Guide setup.
2.0	The default highlight may be the OK/Yes icon.
3.0	Except as specified in this section, this confirmation screen may follow the description provided in the Common Confirmation Overlay section of the Appendix.

**Table 52: Illustrative Clear All Programs Confirmation Overlay  
Action Icon Table**

No.	Name	Condition	Description
1.0	Clear all program selections	Always present	Dismisses the Clear All Programs Overlay, clears all programs from the playlist, and displays the underlying Playlist Search Screen updated with all playlist indicators removed.
2.0	Don't clear	Always present	Dismisses the Clear All Programs Overlay.

## 5 Section III. Bookmarks

[0047] The Bookmark feature allows the user to save any programs in the combined Bookmarked/Suspended Programs List (collectively referred to herein as the Saved Programs List). In the embodiment described below, only On Demand

programs are included. In other embodiments, Non-On Demand programs may be included.

[0048] In this embodiment, any On Demand program can be bookmarked regardless of whether it is always free, free with a subscription, or requires a purchase. The user may select a Bookmark Icon from, for example, an On Demand program information screen.

[0049] FIG. 21 shows an illustrative Bookmark a VOD Program Confirmation Overlay that may be displayed when the user selects the Bookmark Icon in a VOD program information screen, and the program has not already been bookmarked.

Tables 53-55 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 53: Illustrative Bookmark a Program Confirmation Overlay System Description**

No.	Description
1.0	VOD server 26 may maintain a list of bookmarked programs for each distinct STB.
2.0	VOD server 26 may add the program shown in the information screen to the list of bookmarked programs if the Guide makes a set bookmark request based on user selection of the "Bookmark this program" action icon.
2.1	VOD server 26 may bookmark any VOD asset that is accessible to the subscriber.
2.2	If VOD server 26 already has a maximum, e.g., 20 bookmarked programs for a STB, and if the Guide requests an additional bookmarked program, VOD server 26 may delete the oldest bookmarked program from the bookmarked programs list for the STB.

**Table 54: Illustrative Bookmark a Program Confirmation Overlay General Description**

No.	Description
1.0	The Guide may display the Bookmark a Program Confirmation Overlay when the user selects the Bookmark Icon in any VOD program information screen.
1.1	The Guide may display the Bookmark button on the Bookmark a Program Confirmation Overlay with the label "Bookmark this program" in the language specified by the user in the Guide setup.



**Table 54: Illustrative Bookmark a Program Confirmation  
Overlay General Description**

No.	Description
1.2	The Guide may display the Cancel button on the Bookmark a Program Confirmation Overlay with the label "Don't bookmark this program" in the language specified by the user in the Guide setup.
2.0	The default highlight may be the Bookmark this program action icon.
3.0	Except as specified in this section, this confirmation screen may follow the description provided in the Common Confirmation Overlay section of the Appendix.

**Table 55: Illustrative Bookmark a Program Confirmation  
Overlay Action Icon Table**

No.	Name	Condition	Description
1.0	Bookmark this program	Always present	Request that VOD server 26 add the bookmark, dismiss the Bookmark a Program Confirmation Overlay, and update the instant information display in the underlying VOD program information screen.
2.0	Don't bookmark this program	Always present	Dismiss the Bookmark a Program Confirmation Overlay

[0050] FIG. 22 shows an illustrative Previously Bookmarked Confirmation Overlay that may be displayed when the user selects the Bookmark Icon on a VOD program information screen for a program that has already been bookmarked.

5 Tables 56-58 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

**Table 56: Illustrative Previously Bookmarked Confirmation  
Overlay System Description**

No.	Description
1.0	VOD server 26 may maintain a list of bookmarked programs for each distinct STB.
2.0	VOD server 26 may delete the program shown in the information screen from the Saved Programs List if the Guide makes a remove Bookmark request based on user selection of the "Don't keep this program bookmarked" action icon.

**Table 57: Illustrative Previously Bookmarked Confirmation  
Overlay General Description**

No.	Description
1.0	The Guide may display the Previously Bookmarked Confirmation Overlay when the user selects the Bookmark Icon in a VOD program information screen for a program that has already been bookmarked.
1.1	The Guide may display the title "This program is already bookmarked." on the Previously Bookmarked Confirmation Overlay in the language specified by the user in the Guide setup, in yellow text.
1.2	The Guide may display the Bookmark button on the Previously Bookmarked Confirmation Overlay with the label "Keep this program bookmarked" in the language specified by the user in the Guide setup.
1.3	The Guide may display the Cancel button on the Previously Bookmarked Confirmation Overlay with the label "Don't keep this program bookmarked" in the language specified by the user in the Guide setup.
2.0	The default highlight may be the "Bookmark" Icon.
3.0	Except as specified in this section, this confirmation screen may follow the description provided in the Common Confirmation Overlay section of the Appendix.

**Table 58: Illustrative Previously Bookmarked Confirmation  
Overlay Action Icon Table**

No.	Name	Condition	Description
1.0	Keep this program bookmarked	Always present	Dismiss the Previously Bookmarked Confirmation Overlay.
2.0	Don't keep this program bookmarked	Always present	Request that VOD server 26 remove the bookmark, dismiss the Previously Bookmarked Confirmation Overlay, and update the instant information display in the underlying VOD program information screen.

[0051] FIGS. 23 and 24 shows illustrative Saved Programs Listing Screens that contain a list of programs the user has either bookmarked or suspended after selecting the Buy or Watch action icon on an On Demand program information screen. VOD server 26 (FIG. 1) may provides a link to the Saved Programs Listing Screen through the On Demand Main Menu or a VRN screen by defining a category on the screen for the saved programs. From this screen the user can access the On Demand information screen for a saved program and begin or resume watching that program. Tables 59-65 describe illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such overlays.

**Table 59: Illustrative Saved Programs Listing Screen  
System Description**

No.	Description
1.0	VOD server 26 may maintain a list of suspended programs for each distinct subscriber household.
2.0	VOD server 26 may maintain a list of bookmarked programs for each distinct STB.
3.0	When the Guide requests the saved programs list, VOD server 26 may provide a combined list including: bookmarked programs for the STB suspended programs for the subscriber household.
3.1	The combined saved programs list may be sorted to include all suspended programs first, followed by all bookmarked programs.

**Table 59: Illustrative Saved Programs Listing Screen  
System Description**

No.	Description
3.2	Suspended programs and bookmarked programs may not be intermingled within the saved programs list.
3.3	Suspended programs may be sorted alphanumerically within the suspended programs section of the saved programs list.
3.4	Bookmarked programs may be sorted alphanumerically within the suspended programs section of the saved programs list.
3.5	VOD server 26 may identify each individual program within the combined saved programs list as being either suspended or bookmarked.
3.6	VOD server 26 may provide, as required, page up or down within the Saved Programs Listing screen to view additional saved program listing pages.
4.0	VOD server 26 may provide up to, e.g., 20 suspended programs per subscriber household.
4.1	The VOD server 26 configuration may determine whether a program can be suspended (i.e. added to the suspended programs list).
4.2	If VOD server 26 already has, e.g., 20 suspended programs for a subscriber household, and if the Guide requests an additional suspended program, the On Demand system may delete the oldest <sup>3</sup> suspended program from the suspended programs list for the subscriber household.
4.3	VOD server 26 may automatically delete suspended programs from the saved programs list when the rental or viewing period has expired.
4.4	VOD server 26 may automatically delete suspended programs from the saved programs list if they reach the end of their licensing window.
5.0	VOD server 26 may support up to, e.g., 20 bookmarked programs per STB.
5.1	VOD server 26 may bookmark any On Demand asset that is accessible to the subscriber.
5.2	If VOD server 26 already has, e.g., 20 bookmarked programs for a STB, and if the Guide requests an additional bookmarked program, VOD server 26 may delete the oldest bookmarked program from the bookmarked programs list for the STB.
5.3	VOD server 26 may automatically delete bookmarked programs from the saved programs list if they reach the end of their licensing window.

<sup>3</sup> The "oldest" suspended program is the suspended program with the earliest expiration date/time.

**Table 59: Illustrative Saved Programs Listing Screen  
System Description**

No.	Description
6.0	If the Guide requests suspension of a program that has already been bookmarked, VOD server 26 may change the status of the program from bookmarked to suspended.
6.1	If the Guide requests purchase and/or playback of a bookmarked program that cannot be suspended, the program may be removed from the saved programs list.
7.0	The system may provide an On Demand icon to the Guide.
7.1	The On Demand icon may be configurable to the individual headend level.
8.0	The VOD Server 26 may provide a screen title for the Saved Programs Listing screen to the Guide.
9.0	The VOD Server 26 may indicate whether a Barker Window should be displayed in the Saved Programs Listing screen.
10.0	<p>The VOD Server 26 may provide the following metadata as applicable, for each program in the Saved Programs list:</p> <ul style="list-style-type: none"> <li>Short program title</li> <li>Suspended or Bookmarked flag</li> <li>Expiration date (for suspended programs)</li> <li>Licensing window data (for bookmarked programs)</li> <li>Adult flag</li> <li>Price string</li> <li>Closed caption flag</li> <li>HDTV flag</li> <li>Dolby digital audio flag</li> <li>Widescreen flag</li> <li>TV Rating/MPAA Rating</li> <li>In a Playlist flag</li> <li>Program duration</li> <li>Year</li> <li>Actor1, Actor2</li> <li>Free flag</li> <li>Last chance flag</li> </ul>
11.0	The system may provide an On Demand brand to the Guide.
11.0	The On Demand brand may be configurable to the headend level.

**Table 60: Illustrative Saved Programs Listing Screen  
Instant Information Display**

No.	Highlight Location	Line	Description
1.0	Any Program, if video barker is present	1	Short program title, left justified in yellow text, as specified in the On Demand data.
1.0	Any Program, if video barker is not present	1	Full program title, left justified in yellow text, as specified in the On Demand data.
2.0	Any Program marked as "Free", if video barker is not present.	1	Price string, right justified in yellow text, as specified in the On Demand data.
2.1	Any Program not marked as "Free", if video barker is not present.	1	Price string, right justified in white text, as specified in the On Demand data.
2.2	Any Program marked as "Free", if video barker is present.	2	Price string, left justified in yellow text, as specified in the On Demand data.
2.3	Any Program not marked as "Free", if video barker is present.	2	Price string, left justified in white text, as specified in the On Demand data.
3.0	Any Program	2	Program indicators, right justified, as specified in Table 65.
4.0	Any Program, if video barker is not present	2	Program duration, left justified in white text, in the format "<duration in minutes>min".
4.1	Any Program, if video barker is present	3	Program duration, left justified in white text, in the format "<duration in minutes>min".
5.0	Any Program	3	Year, right justified in white text, in the format "(<year>)".

**Table 60: Illustrative Saved Programs Listing Screen  
Instant Information Display**

No.	Highlight Location	Line	Description
6.0	Any bookmarked program, if Last Chance flag is set and video barker is not present.	3	The text "Ends <last date of licensing window>", left justified in white text, in the language specified by the user in guide setup. Date format is "<mm/dd/yyyy>", or "<yyyy/dd/mm>" for DLA.
6.1	Any bookmarked program, if Last Chance flag is not set and video barker is not present.	3	"<Actor 1>, <Actor 2>", left justified in white text.
6.2	Any suspended program, if video barker is not present.	3	The text "Expires <expiration date/time for suspended program>", left justified in white text, in the language specified by the user in guide setup. Date/time format is "<mm/dd> at <hh:mm><a/p>", or "<dd/mm> at <hh:mm><a/p>" for DLA.
6.3	Any bookmarked program, if Last Chance flag is set and video barker is present.	4	The text "Ends <last date of licensing window>", left justified in white text, in the language specified by the user in guide setup. Date format is "<mm/dd/yyyy>", or "<yyyy/dd/mm>" for DLA.
6.4	Any bookmarked program, if Last Chance flag is not set and video barker is present.	4	"<Actor 1>, <Actor 2>", left justified in white text.
6.5	Any suspended program, if video barker is present.	4	The text "Expires <expiration date/time for suspended program>", left justified in white text, in the language specified by the user in guide setup. Date/time format is "<mm/dd> at <hh:mm><a/p>", or "<dd/mm> at <hh:mm><a/p>" for DLA.

**Table 61: Illustrative Saved Programs Listing Screen  
General Description**

No.	Description
1.0	The Saved Programs Listing screen may include: a screen header area an instant information area a saved programs listing area
1.1	The saved programs listing area may include a header row and a vertical saved programs list.
1.2	The saved programs listing area header row may include the On Demand icon, followed by the screen title specified in the On Demand data, left justified in white text.
2.0	The Guide may obtain a list of suspended and/or bookmarked programs for display on the Saved Programs Listing Screen.
2.1	The Guide may display between, e.g., zero and seven listing cells on the Saved Programs Listing screen.
2.1.1	When a Barker Window is present, the Guide may display between, e.g., zero and six listing cells on the Saved Program Listing Screen.
2.2	The listing cells may be displayed by the Guide on the Saved Programs Listing screen in a vertical column, below the header row in the saved programs listing area.
2.3	The Guide may display one listing cell for each distinct asset that is returned in the On Demand data.
2.4	The label of each listing on the Saved Programs Listing screen may be the short title of the program, as specified by the On Demand data, unless the video is rated Adult and the Hide Adult Titles option is enabled in the Parental Control Setup.
2.5	The label of a listing cell on the Saved Programs Listing Screen may be "Adult Programming" in the user-selected language, if the rating of the video is Adult and the user has enabled the Hide Adult Titles option in the Parental Control Setup.
2.6	The Guide may display the Bookmarked icon on the listing cell if the On Demand data indicates that the program is bookmarked.



**Table 61: Illustrative Saved Programs Listing Screen  
General Description**

No.	Description
2.6.1	The Guide may display the text “Ends” in the user-selected text language, followed by the last date of the program’s licensing window, right justified in the listing cell, directly to the left of the bookmarked icon, if the On Demand data indicates that the program is bookmarked, and that the program is a last chance video. Example: “Ends 6/25” (i.e. June 25)
2.6.2	In a DLA environment, the Guide may display “Ends” in the user-selected text language, followed by the last date of the program’s licensing window in international date format, right justified in the listing cell, directly to the left of the bookmarked icon, if the On Demand data indicates that the program is bookmarked, and that the program is a last chance video. Example: “Ends 25/6” (i.e. June 25)
2.7	The Guide may display the Checkmark icon on the listing cell if the On Demand data indicates that the program is suspended.
2.7.1	The Guide may display the text “Expires” in the user-selected text language, followed by expiration date and time, right justified in the listing cell, directly to the left of the checkmark icon, if the On Demand data indicates that the program is suspended. Example: “Expires 11/12 at 8:05p” (i.e. November 12)
2.7.2	In a DLA environment, the Guide may display “Expires” in the user-selected text language, followed by the expiration date and time in international date format, right justified in the listing cell, directly to the left of the checkmark icon, if the On Demand data indicates that the program is suspended. Example: “Expires 12/11 at 8:05p” (i.e. November 12)
2.8	The Guide may display the program listing cells on the screen in the order programs are specified in the On Demand data, beginning with the top cell and proceeding to the bottom cell.
2.9	The color of the listing cells on the Saved Programs Listing Screen may be blue.
3.0	The Guide may highlight the screen item that currently has focus.
4.0	The Guide may provide a mechanism to page up and down to view additional saved program listing pages.
4.1	Navigation across multiple saved program listing pages may not be circular, navigation above the top of the list or below the bottom of the list may be disabled.

**Table 61: Illustrative Saved Programs Listing Screen  
General Description**

No.	Description
5.0	The Guide may control the display of the Saved Programs Listing Screen elements.
5.1	The Guide may postpone display of the listing cells until the listing data is available.
5.2	The Guide may display the No Listings Available Screen if the server returns an indication that no suspended or bookmarked programs are currently available.
6.0	The Guide may support an optional barker window on the Saved Programs Listings screen as specified in the On Demand data.
6.1	The Guide may remove the on-screen display of the Saved Programs Listing Screen between sets of coordinates using a scale of e.g., 1000x1000 screen pixels when the Saved Programs Listing Screen is displayed and the On Demand data indicates that the barker is enabled in particular positions.
6.2	The Guide may not remove the on-screen display to accommodate the barker window when the Saved Programs Listing screen is displayed and the On Demand data indicates that the barker window is not enabled or the barker window is enabled in various positions.

**Table 62: Illustrative Saved Programs Listing Screen Input Key  
Processing Table**

No.	Key	Screen Focus	Behavior
1.0	Power	Any	Normal
2.0	Volume Up	Any	Normal
3.0	Volume Down	Any	Normal
4.0	Mute	Any	Normal
5.0	Channel Up	Any	Normal
6.0	Channel Down	Any	Normal
7.0	Bypass	Any	Normal
8.0	Menu	Any	Normal
9.0	Guide	Any	Normal
10.0	Music	Any	Normal

**Table 62: Illustrative Saved Programs Listing Screen Input Key Processing Table**

No.	Key	Screen Focus	Behavior
11.0	Themes	Any	Normal
12.0	Search	Any	Normal
13.0	Settings	Any	Normal
14.0	Exit	Any	The Guide may return to Idle Mode and display Flip Banner.
15.0	Last	Any	Normal if the previous screen was not an On Demand video.
15.1	Last	Any	The Guide may display the top-level categories of the On Demand Main Menu and place the focus on the top-left category bar if the previous screen was an On Demand video.
16.0	Right Arrow	Any	Inactive
17.0	Left Arrow	Any	Inactive
18.0	Up Arrow	Top Listing Cell, any but First Page	The Guide may display the previous page of listings with lowest selectable listing cell highlighted.
18.1	Up Arrow	Top Listing Cell, First or Only Page	Inactive
18.2	Up Arrow	Other	Normal
19.0	Down Arrow	Bottom listing cell, any but last page	The Guide may display the next page of listings with top listing highlighted.
19.1	Down Arrow	Bottom listing cell, last page	Inactive
19.2	Down Arrow	Other	Normal
20.0	OK	Listing Cell	The Guide may display the On Demand Program Information – Not Suspended Screen for the program if the listing cell represents a bookmarked program.
20.1	OK	Listing Cell	The Guide may display the On Demand Program Information —Suspended Screen for the program if the listing cell represents a suspended program.

**Table 62: Illustrative Saved Programs Listing Screen Input Key Processing Table**

No.	Key	Screen Focus	Behavior
21.0	Digits 0-9	Any	Normal
22.0	Scroll Up	Any	Normal
23.0	Scroll Down	Any	Normal
24.0	Day Forward	Any	Inactive
25.0	Day Back	Any	Inactive
26.0	Help	Any	Inactive
27.0	Info	Listing Cell	The Guide may display the On Demand Program Information – Not Suspended Screen for the program if the listing cell represents a bookmarked program.
27.1	Info	Listing Cell	The Guide may display the On Demand Program Information —Suspended Screen for the program if the listing cell represents a suspended program.
28.0	Favorite	Any	Inactive
29.0	Lock	Program Listing	Normal
30.0	Record	Any	Inactive
31.0	Stop	Any	Inactive
32.0	Pause	Any	Inactive
33.0	Play	Any	Inactive
34.0	Rewind	Any	Inactive
35.0	Fast Forward	Any	Inactive
36.0	PPV	Any	Normal
37.0	Letters A-Z	Any	Inactive
38.0	VOD	Any	Inactive
39.0	Return to Live TV	Any	Normal
40.0	Skip Forward	Any	Inactive
41.0	Replay	Any	Inactive
42.0	A	Any	Inactive

**Table 62: Illustrative Saved Programs Listing Screen Input Key Processing Table**

No.	Key	Screen Focus	Behavior
43.0	B	Any	Inactive
44.0	C	Any	Inactive
45.0	Digital Recordings	Any	Normal
46.0	Swap	Any	Inactive

**Table 63: Illustrative Saved Programs Listings Screen Other Event Handling Table**

No.	Event	Conditions/Comments
1.0	Screen Timeout	This screen may time out in 2 minutes to the underlying screen.
2.0	Reminder	Normal
3.0	Scheduled Recording Fires	Normal
4.0	Ordered PPV Start	Normal
5.0	PPV Purchase Window Expires	Inactive
6.0	Current Program Ends	Inactive with Barker window, Normal without Barker window
7.0	Data added, deleted or modified in database	Not Applicable

**Table 64: Illustrative Saved Programs Listings Screen/Mode Entry Table**

No.	Functionality	Description
1.0	Guide Initialization	The Saved Programs Listing Screen may be immediately available after startup.
2.0	Highlight	The default highlight may be the first listing on the page.
2.1	Highlight	The highlight position may not be remembered when this screen is exited
3.0	Display Inclusion Criteria	Refer to the system and general description above.

**Table 64: Illustrative Saved Programs Listings Screen/Mode Entry Table**

No.	Functionality	Description
4.0	Sorting/Grouping Criteria	The items on the screen may be displayed in the order received from VOD server 26.
5.0	Customization	Refer to Table 61.

**Table 65: Illustrative Saved Programs Listings Screen Formatting**

No.	Functionality	Description
1.0	Program Title	The label of each listing on the Saved Programs Listing Screen may be the short title of the video as returned by the VOD Server 26 unless the video is rated Adult and the Hide Adult Titles option is enabled in the Parental Control Setup.
1.1	Program Title	The label of a listing cell on the Saved Programs Listing Screen may be "Adult Programming" in the user-selected language if the rating of the video is Adult and the user has enabled the Hide Adult Titles option in the Parental Control Setup.
2.0	Time	Normal
3.0	Channel	Not Applicable
4.0	Other Text	Not Applicable
5.0	Colors	The color of the listing cells may be blue.

**Table 65: Illustrative Saved Programs Listings Screen Formatting**

No.	Functionality	Description
6.0	Indicators	<p>Program Indicators may be displayed as applicable, right justified within the instant information area in the following order of priority (displayed left to right):</p> <p>Lock/Un-Lock  Closed Caption  HDTV  Dolby Digital Audio  Wide Screen  TV Rating/Movie Rating  Purchase or Checkmark Indicator  Bookmarked  In a Playlist</p> <p>If the full title and all active indicators do not fit within the Instant Information area, then one or more of the lowest priority indicators may be omitted as necessary.</p>
6.1	Indicators	<p>The icon associated with the menu option used to access the Saved Programs Listing screen may be displayed to the left of the screen title in the saved program listing area header.</p>
6.2	Indicators	<p>An up or down arrow icon may be displayed to indicate the availability of additional pages of listings.</p>
7.0	Branding	<p>The On Demand brand provided by the system may be displayed left-justified within the screen header area.</p>
8.0	Audio	<p>If a video barker is provided, the audio may correspond to that barker.</p>
8.1	Audio	<p>If no video barker window is displayed, the audio may be normal.</p>
9.0	LEDs	<p>The Guide may display the last user channel or current time on the LED according to the description provided in the Appendix for time/channel display on the LED.</p>

[0052] When the viewer elects to delete a video from the Saved Programs Listing Screen, the Guide may display a confirmation overlay explaining the operation that

they are about to perform and requesting confirmation before proceeding. FIG. 25 shows an illustrative Delete Video Confirmation Overlay. Table 66 describes illustrative behaviors of the IPG and/or VOD server 26 in connection with providing such an overlay.

- 5 [0053] For the purposes of the Delete Confirmation Overlay the “Delete Rental” option is also referred to as the “YES” option and the “Don’t Delete Rental” option is also referred to as the “NO” option.

**Table 66: Illustrative Delete a Video Confirmation Overlay**

No.	Description
1.0	The Guide may display the Delete a Video Confirmation Overlay when the user selects the Delete option from a Rented Video Information screen.
1.1	The Guide may display the title, “DELETE CONFIRMATION” in yellow text on the Delete a Video Confirmation Overlay in the language specified by the viewer in the guide setup.
1.2	The Guide may display the instruction text, “Deleting this video will remove it from your saved video list. You will have to order the video again if you wish to watch it, which may result in additional charges Proceed with deletion?” In white text on the Delete a Video Confirmation Overlay in the language specified by the viewer in the guide setup.
1.3	The Delete Rental (Yes) button may be displayed on the Delete a Video Confirmation Overlay by the Guide with the label “Delete Rental” in the language specified by the viewer through the guide setup.
1.4	The Don’t Delete Rental (No) button may be displayed on the Delete a Video Confirmation Overlay by the Guide with the label “Don’t Delete Rental” in the language specified by the viewer through the guide setup.
2.0	The default highlight may be the Don’t Delete Rental (No) option.
3.0	If the user selects the Yes button, the Guide may send a request to the VOD Server 26 to delete the video, remove the Delete a Video Confirmation Overlay, query the VOD Server 26 for the current saved programs, and display the Saved Programs Listing Screen with the current saved programs returned by the server and the top listing bar highlighted.
4.0	If the user selects the No button, the Guide may remove the Delete a Video Confirmation Overlay and highlight the Delete button.
5.0	Except as specified in this section, this confirmation screen may follow the description provided in the Common Confirmation Overlay section of the Appendix.



**Table 66: Illustrative Delete a Video Confirmation Overlay**

No.	Description
6.0	If the user pressed the Info key while this overlay is displayed, the Guide may remove the Delete a Video Confirmation Overlay and highlight the Delete button.

#### Section IV. Illustrative Playlist Transport Bar

5 [0054] A playlist transport bar according to the invention provides an overlay which graphically represents assets of a playlist in a manner that enables a user to easily ascertain a playback position within the playlist and within a particular asset.

[0055] A playlist transport bar may be displayed in response to any number of different user inputs. For example, a user input device may have a playlist transport bar button which causes the playlist transport bar to be displayed when  
 10 pressed. The transport bar may be removed when the button is pressed again. The playlist transport bar may be displayed when the user issues a stop, pause, fast-forward, rewind, play, resume, or any other command that affects playback of an asset. For example, the playlist transport bar may be displayed for a predetermined period of time in response to a pause or stop command. After the predetermined  
 15 period of time expires, the interactive media application may substitute other content in place of the pause or stopped media to prevent screen burn-in. As another example, the playlist transport bar may be displayed while the user is issuing a fast-forward or rewind command. When the user resumes playback of assets in the playlist, the playlist transport toolbar may be displayed for a  
 20 predetermined period of time before it is removed from the screen. In yet another example, the playlist transport bar may be displayed when the user is navigating among various elements of the transport bar (discussed below in more detail in connection with FIGS. 32-36).

[0056] FIGS. 26 and 27 show illustrative transport bars for playing back assets of  
 25 a playlist. FIG. 26 shows an illustrative transport bar 2602 that the interactive television application (e.g., IPG) may display on screen 2600 when the user begins playing back a program from a playlist (such as by, for example, selecting the resume or restart icons of FIGS. 6-9).

[0057] FIG. 27 shows an illustrative playlist transport bar that may be displayed when a user pauses playback in accordance with an embodiment of the invention.

In some embodiments, users may stop playback, which may result in having an illustrative playlist transport bar be displayed. In other embodiments, the  
5 interactive television application may stop playback automatically after the playlist has been paused for a period of time. Users may resume playback of a paused or stopped program by, for example, selecting the resume icon of FIGS. 6-9 or by pressing a play button on a remote device.

[0058] Playlist transport bar 2602 may display information such as the title of the  
10 currently playing program (shown here as Lost, Episode 2), the name of the playlist (shown here as Jane's Playlist), and the total amount of time of programming in the entire playlist (shown here as 4:54). Playlist transport bar 2602 may include position indication region 2610 and asset regions 2622, 2624, and 2626.

[0059] Position indication region 2610 may provide a visual indicator of the  
15 playback position and may include position needle 2612 and information region 2614. Position needle 2612 may be a graphical object (e.g., a vertical bar) overlaying a portion of one of the asset regions. As shown in FIG. 26, position needle 2612 is at the beginning of asset region 2622, and in this particular  
20 embodiment, is also shown at the beginning of the playlist. As a particular asset is played back, position indication region 2610 may advance, from left-to-right, through the asset region corresponding to that asset, and as multiple assets are played back from the playlist, position indication region 2610 may advance through one asset region and then advance through the next.

[0060] Information region 2614 may display time information indicating, for  
25 example, how much time has elapsed in a currently playing asset, how much playback time is remaining in the currently playing asset, how much time has elapsed in playback of the playlist, how much playback time is remaining in the playlist, or any combination thereof. Note that the elapsed time is meant to  
30 represent the time it takes for normal speed, uninterrupted, playback of assets in the playlist. Thus, if a user fast-forwards through or skips an asset, the time displayed in information region 2614 is indicative of the time it would have taken

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to reach the new playback position at a normal uninterrupted speed. However, it will be appreciated that, in an alternative embodiment to the foregoing, the actual time spent accessing (e.g., viewing) assets in the playlist may be displayed.

Information region 2614 also includes the playback action indicator, shown here as a play indicator. The playback action indicator may change to a pause indicator while the playback of the playlist is paused, to a reverse play indicator while the playlist is being played in the reverse direction, to a fast-forward indicator while the playlist is being fast-forwarded, and to a rewind indicator while the playlist is being rewound. If desired, different indicators may be used for different speeds of play, reverse play, rewind, and fast-forward.

[0061] As playback of an asset progresses, both position needle 2612 and information region 2614 may move concomitantly. This is illustrated in FIG. 27 in which both position needle 2712 and information region 2714 are shown connected together even though two hours and fifty-six minutes of programming has played back. It will be appreciated that in other embodiments the information region may remain in a fixed location (e.g., the far left-hand side of the transport bar), while the position needle advances in connection with playback of the programming in the playlist. In other embodiments, the position needle and information region may remain stationary, while the asset regions move to the left as playback progresses.

[0062] Referring now back to FIG. 26, each of asset regions 2622, 2624, and 2626 may correspond to an asset (e.g., program) in a playlist (e.g., Jane's Playlist). For example, asset region 2622 may correspond to a first asset (e.g., Lost, Episode 2, which is shown being played back on screen 2600) in the playlist. Asset region 2624 may correspond to the next asset (e.g., Men In Black) in the playlist to be played back, and asset region 2626 may correspond to the asset following the asset corresponding to asset region 2624.

[0063] A number of different approaches may be taken with respect to the display of the asset regions. The asset regions may be displayed in a rectangular fashion, where the regions are attached end-to-end, and where the regions are clearly delineated to clearly indicate where one asset region ends and another begins. Moreover, the regions may exhibit certain attributes (e.g., colors or

highlighting) to further distinguish one region from another. For example, the region currently being played back may be colored different than the other regions. As another example, the regions may be colored to represent the theme or genre of the asset. It is understood that many various ways of presenting the regions may  
5 be implemented and that such presentation techniques are largely a matter of design choice. Therefore, various display techniques (e.g., asset region shapes, coloring, and highlighting, etc.) not specifically mentioned herein may be applied to the playlist transport bar.

[0064] FIG. 26 is merely an illustrative of such a display screen including a  
10 playlist transport control bar. Other suitable arrangements may be used. For example, information such as asset title, channel, any other suitable programming-related information, advertisements, logos, or any combination thereof may be displayed within or in association with the playlist transport bar.

[0065] Any number of different approaches may be practiced in determining the  
15 number of asset regions displayed in the playlist transport bar at a given time and the space occupied by each displayed asset region. FIG. 28 shows an illustrative playlist transport bar 2802 that displays an asset region for each asset in the playlist. This approach ensures that playlist transport bar 2802 includes regions representative of the entire playlist. Thus, when a user views playlist transport  
20 bar 2802, the user can quickly determine how far along he is in the playback of the playlist.

[0066] If the playlist includes, for example, five assets, the playlist transport bar displays five asset regions corresponding to those five assets. The interactive media guidance application may allocate an appropriate size for each asset region,  
25 while optionally taking into account factors such as the run-length of each asset, in order to simultaneously display regions for each asset in the playlist. As shown, playlist transport bar 2802 includes five regions, regions 2821, 2822, 2823, 2824, and 2825, each of which are apportioned space based on their relative lengths. For example, asset regions 2822, 2823, and 2825 may represent half-hour shows, asset  
30 region 2821 may represent an hour show, and region 2824 may represent a two-hour show.

[0067] FIG. 29 shows an illustrative playlist transport bar 2902 in which the number of regions displayed are limited in number so as to not saturate transport bar 2902 with regions corresponding to all the potential assets of a playlist, thereby potentially making it difficult for users to quickly and easily differentiate different regions. In this approach a relatively small number of regions (e.g., 2-6) may be displayed in the playlist transport bar. This way, if the playlist includes a large number of assets, playlist transport bar 2902 may display just a few regions such as, for example, the regions centered around the region currently being played back.

10 [0068] Moreover, by limiting the number of regions displayed in playlist transport bar 2902 at any given time, this allows the interactive media guidance application to allocate an appropriate predetermined minimum amount of space to each displayed region. In FIG. 29, playlist transport bar 2902 corresponds to a playlist having nine hours and forty-five minutes of programming, but is only able to display, for example, four hours of programming at any given time. For example, regions 2921 and 2923 may represent hour long programs and region 2922 may represent a two hour long program. As can be seen, the spacing allotted to each region accurately reflects the length of a particular asset with respect to the other shown assets. That is, region 2922 (a two hour asset) occupies approximately twice the space as region 2921 (an hour long asset).

20 [0069] The interactive media guidance application may position the currently played back region 2922 in the center of playlist transport bar and place other regions or portions thereof on either side of the currently played region. In FIG. 29, position indication region 2910 is positioned at region 2922, indicating that the asset corresponding to region 2922 is being played back. Because region 2922 is the current region, region 2921 may be placed before it, and region 2923 may be placed after it. When position indication region 2910 advances to region 2923, the interactive media guidance application may position region 2923 in the center of playlist transport bar 2902, resulting in playlist transport bar 2904 of FIG. 30. FIG. 30 shows region 2923 positioned near the center, with a portion of region 2922 located left of region 2923 and regions 2924 and 2925 located right of region 2923. As shown with region 2922, a region at the start or end of the display may be

truncated, showing only a portion of its allocated length. In some embodiments, a truncated asset region may be displayed differently than a whole asset region, for example with a ragged edge or an arrowhead-shaped end.

[0070] As an alternative to the embodiment discussed in connection with FIGS.

5 29 and 30, the playlist transport bar may only be able to display up to a predetermined number of hours of programming. Thus, if the number of hours of programming in the playlist exceeds the number of hours that can be displayed at any given time, the playlist transport bar may display only regions or portions thereof totaling the number of hours that can be displayed at any give time. In  
10 embodiments in which the entire playlist length is not shown on screen, an indicator may be shown at the start and/or end of the playlist transport bar to inform the user that additional assets are available. For example, an arrow or an ellipsis may be used to indicate additional assets prior to or subsequent to the displayed asset regions.

15 [0071] FIG. 31 shows a playlist transport bar 3102 that may be displayed when the interactive media guidance application executes a command that affects playback of an asset in the playlist such as fast-forward, rewind, skip asset, replay asset, or any other function which may or may not be directly supported by a remote device (e.g., remote control). For example, when a user initiates a fast-  
20 forward command through an asset, playlist transport toolbar 3102 may be displayed for at least the duration of the fast-forward. While fast-forwarding, position indication region 3110 may be shown rapidly progressing from left-to-right and the time displayed in information region 3114 may be shown elapsing at a fast-forwarded pace. In addition, information region 3114 may display a  
25 conventional fast-forward symbol to signify to the user that a fast forward command is being implemented. It will be appreciated that information region 3114 may indicate a current action status (e.g., play, rewind, fast-forward, pause, or any other suitable mode) in the form of an icon, as illustrated in FIG. 31, text, or any other suitable form.

30 [0072] FIGS. 32, 33, 34A-B, 35A-B, and 36 show several illustrative playlist transport bars in which a user may navigate a highlight region within the playlist transport bar, and, if desired, cause a particular action to occur in accordance with

embodiments of the invention. Referring now to FIG. 32, the user may navigate a highlight region 3218 (currently highlighting asset region 3221) to various elements of transport bar 3202. For example, a user may navigate highlight region 3218 to any one of asset regions 3221, 3222, 3223, or, in some

5      embodiments (such as an embodiment in which a limited number of regions can be displayed), to regions not currently displayed. The user may navigate highlight region 3218 to position indication region 3210 or playlist name 3230. The interactive media guidance application may execute a predetermined function in response to a user navigating an element in the playlist transport bar or user

10     selection of a highlighted element. For example, the interactive media guidance application may display an information overlay 3240 containing information related to the asset corresponding to asset region 3221 when the user highlights asset region 3221. If the user highlights an asset region and selects the asset, for example by pressing a Select key on the remote control, the interactive media

15     guidance application may immediately commence playback of the selected asset.

[0073] FIG. 33 shows an illustrative playlist transport bar 3302 in which a highlight region 3318 has been navigated to playlist name 3330. As shown in FIG. 33, after the user navigates a highlight region to or selects playlist name 3330, several names of playlists may be displayed. These playlists may include playlists

20     previously created by a user or playlists provided by a system operator. Displaying the available playlists gives the user the option to load in a different playlist by navigating to and selecting a particular playlist. When a new playlist is selected, the user may be prompted with a confirmation screen, and upon confirmation, the interactive media guidance application may commence playback of the selected

25     playlist and display a playlist transport bar tailored to the selected playlist.

[0074] FIGS. 34A-B show before and after screen shots, respectively, illustrating how a user may manually drag and drop a position indication region to any desired location in accordance with an embodiment of the invention. FIG. 34A shows position needle 3412 highlighted with highlight region 3418. Note that

30     information region 3414 specifies a time of forty-five minutes. When the user selects the highlighted position needle, the interactive television program guide may enter a "drag and place mode" that permits the user to manually move

position indication region 3410 to another location (e.g., another region) using, for example, pressing buttons (e.g., left and right cursor buttons) on a remote device.

FIG. 34B shows that the user moved position indication region 3410 back five minutes (as indicated by information region 3414) with respect to the location of position indication region 3410 in FIG. 34A.

[0075] When the user has placed position indication region 3410 in a desired location, the user may exit the drag and place mode in any number of different ways. For example, the user may deselect position indication region 3410 by pressing a particular button (e.g., an exit button or a play button or a select button) or by navigating away from position indication region 3410. Note that as position indication region 3402 is moved, the time information may change accordingly, and the displayed name of assets in playlist may change as needle position 3412 is positioned at different regions. When the new playback position is selected, the interactive media guidance application may commence playback at the newly selection asset and time.

[0076] FIGS. 35A-B show before and after screen shots, respectively, illustrating how a user may use a "skip to next region" function to move the location of position indication region 3510 in accordance with an embodiment of the invention. The "skip to next region" function may advance position indication region 3510 to the beginning of an adjacent asset region. The skip to next region function may be invoked when position needle 3512 is selected, as shown in FIG. 35A. When the user presses a button (e.g., up/down arrow buttons, next/previous page buttons, or dedicated next/previous buttons) on a remote device, position indication region may skip to the next region.

[0077] FIG. 35B illustrates the result of the skip function when the user presses, for example, a right arrow button once. As shown, position indication region skips from region 3521 to the beginning of region 3522. If the user presses the right arrow button again, position indication region may skip to the beginning of region 3523.

[0078] If the user presses the left arrow button, position indication region 3510 may either advance to the beginning of the region in which position indication region 3510 is currently overlaying or to the beginning of the region adjacent to the



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region in which position indication region 3510 is currently overlaying. As an alternative embodiment, position indication region 3510 may advance to the beginning of a previous region only if position indication region 3510 is at the beginning of the region it is currently positioned at.

- 5 [0079] FIG. 36 shows an illustrative screen shot of playlist transport bar 3602 that may be displayed when a user navigates a highlight region to, for example, information region 3614 in accordance with an embodiment of the present invention. As shown, when information region 3614 is highlighted with highlight region 3618, playlist options menu 3640 may be displayed. Playlist options
- 10 menu 3640 may provide a user with an opportunity to execute one of many different functions with respect to the asset associated with the region currently indicated by position indication region 3610, or with respect to the current position in that asset. The user may execute one of these functions by navigating highlight region to a desired function and select a pre-determined button on a remote device.
- 15 [0080] The functions included in playlist options menu 3640 may provide added flexibility in manipulating playback of assets in the playlist, to edit the playlist, or to access information on various assets in the playlist. For example, a user may select delete asset 3641 to delete an asset from the playlist, select skip asset 3642 to skip playback of the asset, select repeat asset 3643 to repeat play of the asset, or
- 20 select information for this asset 3644 to view additional information on the asset. In addition, play this asset next 3645 may be selected to have this asset play next, regardless of the order it appears in the playlist. Selection of play this asset 3645 may result in a re-ordering of the playlist. Furthermore, play this asset now 3646 may be selected to cause this asset to begin substantially immediate playback.
- 25 Note that the functions included in playlist options menu 3640 are largely a matter of design choice and are not limited to the specific examples discussed herein. More detailed information and additional examples of functions that may be included in a playlist options menu may be found in co-pending United States Patent Application No. 11/324,191, filed December 29, 2005, the disclosure of
- 30 which is hereby incorporated by reference herein in its entirety. Examples of other functions that may be accessed from such a menu include setting a mark at the current location in the current asset that can be jumped to easily at a later time,

jumping to a previously selected marked location; selecting a specific asset to begin playing, selecting a specific playback offset in the current asset at which to begin playback, and jumping forward or backwards in the playlist by a user-specified number of seconds or minutes.

- 5 [0081] Note, playlist options menu 3640 may be displayed or accessed in ways other than that mentioned herein. For example, a remote device may include a button which when pressed may cause playlist options menu 3640 to be displayed, regardless of whether a highlight region has been navigated to information region 3614. In another approach, playlist options menu 3640 may be displayed  
10 only after the user selects highlighted information region 3614 using, for example a remote device.

- [0082] FIG. 37 is a flow chart illustrating the display of a playlist transport bar in accordance with an embodiment of the invention. Beginning at step 3702, a playlist is provided. This playlist may be one of many playlists available which the  
15 interactive media guidance application may use for displaying a playlist transport bar according to the invention. At step 3704, the interactive media guidance application may display a playlist transport bar for the playlist. The playlist transport bar may include asset regions that correspond to assets in the playlist and a position indication region to provide an indication of a playback position within  
20 the playlist. When the playlist transport bar is displayed, several different actions may be taken. For example, the position indication region may be moved (e.g., manually by a user) to a new position in the playlist transport bar. Another example action may include navigating a highlight region to access additional information relating to an asset or other features available in connection with the  
25 playlist transport bar (e.g., playlist options menu of FIG. 36).

#### Section V. VOD Information Screen

- [0083] In some embodiments, the interactive television application (e.g., IPG), may provide users with access to playlist and bookmark features from a VOD program information screen. FIGS. 38 and 39 show illustrative VOD information  
30 screens that may be provided in response to, for example, a user selecting a VOD program listing from a VOD program listings display.

[0084] In FIG. 38, the selected program is a free VOD program and an illustrative playlist icon is highlighted. In this embodiment, only free VOD programs may be added to playlists. In other embodiments, non-free VOD programs and other types of programs may be added to playlists.

- 5 [0085] In FIG. 39, the selected program is a non-free VOD program and an illustrative bookmark icon is highlighted. In other embodiments, free VOD programs and other types of programs may be bookmarked.

[0086] In response to a user selecting the playlist icon of FIG. 38, the interactive television application may present an overlay allowing a user to select a playlist to  
10 which the program will be added, such as the Select A Playlist Overlay of FIG. 11 for example. If no playlists are set, the interactive television application may instead present an overlay that indicates no playlists are set, such as the Illustrative No Playlists Set Overlay of FIG. 3 for example.

- [0087] In response to a user selecting the bookmark icon of FIG. 39, the  
15 interactive television application may present an overlay allowing the user to confirm the marking of the program, such as the Bookmark a Program Confirmation Overlay of FIG. 21.

[0088] The above described embodiments of the present invention are presented for purposes of illustration and not of limitation, and the present invention is  
20 limited only by the claims which follow.

What Is Claimed Is:

1. A method for displaying a playlist transport bar using an interactive media guidance application (IMGA), comprising:  
displaying a playlist transport bar for a playlist, the playlist transport bar comprising:
  - 5 a plurality of asset regions, each asset region corresponding to an asset in the playlist; and
  - a position indication region to provide an indication of a playback position within the playlist.
2. The method of claim 1, wherein the position indication region indicates the playback position within the playlist and one of the assets in the playlist.
3. The method of claim 1, wherein the position indication region comprises a playback information region.
4. The method of claim 3, wherein the playback information region displays an elapsed playback time of the playlist.
5. The method of claim 3, wherein the playback information region displays an elapsed playback time of one of the assets.
6. The method of claim 1, further comprising:  
moving the position indication region to another position in the playlist progress bar; and  
displaying the position indication region while it is being moved.
7. The method of claim 6, further comprising playing back an asset in the playlist from the position that the position indication region was moved to.

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8. The method of claim 6, wherein moving comprises fast-forwarding or rewinding the position indication region.

9. The method of claim 1, further comprising:  
receiving a command to select the position indication region; and  
moving the selected position indication region to another location in the playlist.

10. The method of claim 1, wherein the playlist transport bar comprises an information region which displays a name of the playlist.

11. The method of claim 1, wherein the playlist transport bar comprises an information region which displays a name of an asset corresponding to the location of the position indication.

12. The method of claim 1, wherein the playlist transport bar comprises an information region which displays a total playtime of all assets in the playlist.

13. The method of claim 1, wherein the plurality of asset regions displayed in the playlist transport bar include an asset region for each asset in the playlist.

14. The method of claim 1, wherein the playlist transport displays a portion of a total playtime of all assets in the playlist and wherein the playlist transport bar includes asset regions for at least two assets in the playlist.

15. The method of claim 14, wherein at least one of the displayed asset regions is representative of the run-length of the asset corresponding to the displayed asset region.

16. The method of claim 1, further comprising:  
allowing a user to load a different playlist while accessing the playlist transport bar.

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17. The method of claim 1, further comprising:  
allowing a user to modify the playlist while accessing the playlist transport  
bar.

18. The method of claim 1, wherein the playlist transport bar is  
displayed as an overlay that overlays a portion of a currently played asset.

19. The method of claim 1, wherein the interactive media guidance  
application is an interactive television program guide.

20. The method of claim 1, wherein the interactive media guidance  
application is an online television program guide.

21. The method of claim 1, wherein the interactive media guidance  
application is a Website.

22. A system for displaying a playlist transport bar, the system  
operative to:

display a playlist transport bar, the transport bar comprising:

5 a plurality of asset regions, each of which corresponds to an asset in  
a playlist; and

a position indication region to provide an indication of a playback  
position within the playlist.

23. A method for displaying a playlist transport bar, comprising:

displaying at least two asset regions in a playlist transport bar, each asset  
region corresponding to an asset of a playlist; and

5 displaying a position indication region in the playlist transport bar to  
provide an indication of a playback position within the playlist.

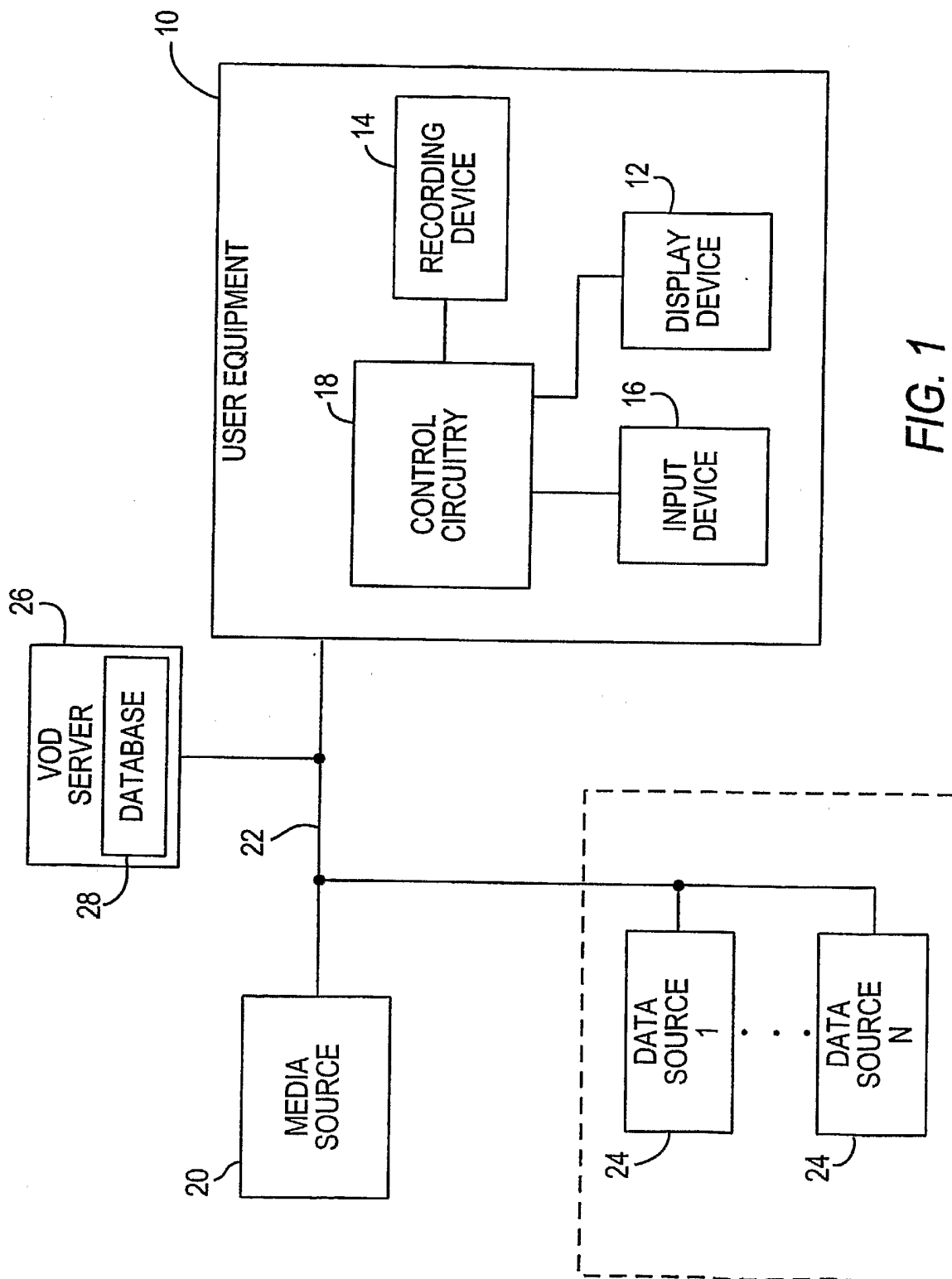


FIG. 1

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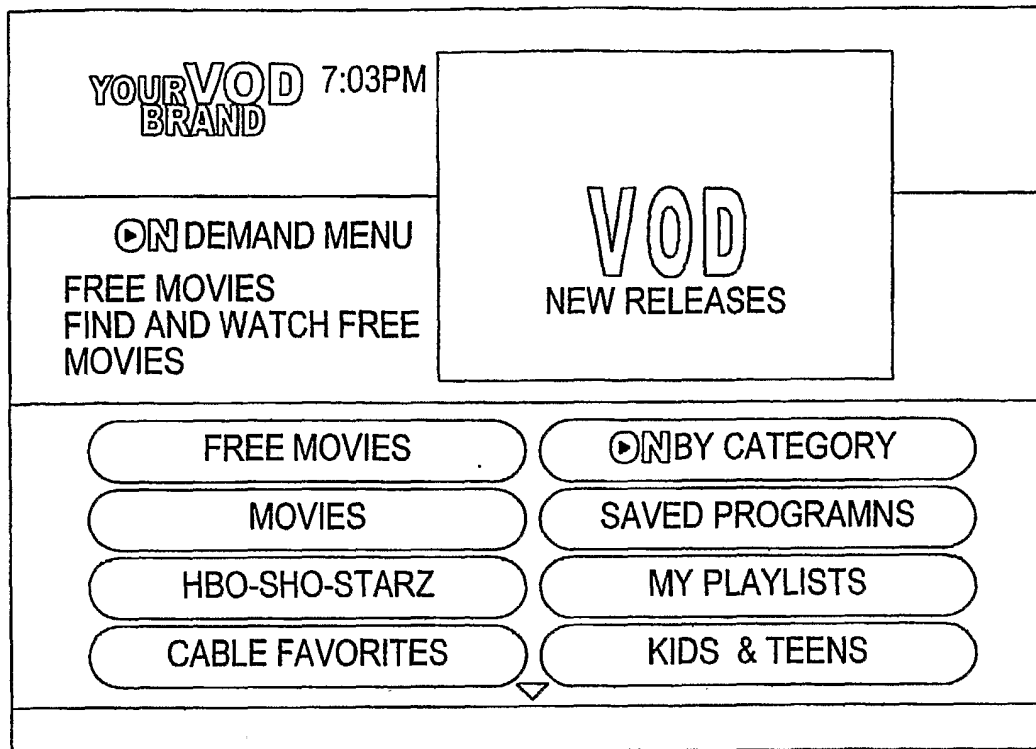


FIG. 2

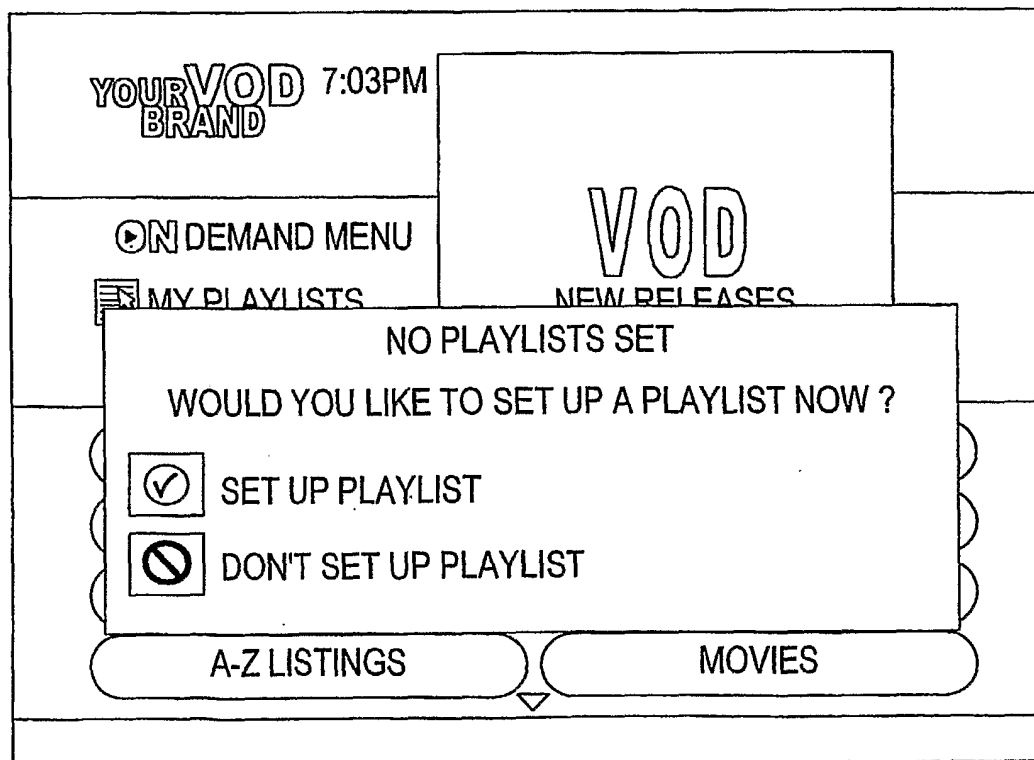


FIG. 3



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



 <span style="float: right;">7:03PM</span>	
PLAYLIST 01 0MIN	CONTAINS 0 PROGRAMS
SELECT BELOW TO NAME, DELETE, AND LOCK YOUR PLAYLIST.	
TO ADD PROGRAMS TO THIS PLAYLIST: 1) FIND A PROGRAM YOU WOULD LIKE TO ADD. 2) GO TO THE INFORMATION SCREEN AND SELECT  3) SELECT THE PLAYLIST TO ADD THE PROGRAM TO.  ALSO SELECT  BELOW TO SEARCH FOR PROGRAMS TO ADD.	
<div style="display: flex; justify-content: space-around; align-items: center;">      </div> NAME YOUR PLAYLIST	

FIG. 4







 <div style="display: flex; justify-content: space-between; align-items: center;">  MY PLAYLISTS         <span>7:03PM</span> </div>	
FRIDAY NIGHT LIST 586MIN	CONTAINS 5 PROGRAMS
SELECT ADD BELOW TO CREATE A NEW PLAYLIST.	
FRIDAY NIGHT LIST	
SOPRANOS SEASON 3 LIST	
PLAYLIST 03	
KIDS LIST	
DADS SPORTS	
<div style="display: flex; justify-content: space-around; align-items: center;">     </div>	

FIG. 5











 <span style="float: right;">7:03PM</span>		
<div style="display: flex; justify-content: space-between;"> <span>FRIDAY NIGHT LIST</span> <span>CONTAINS 5 PROGRAMS</span> </div> <div>586MIN</div> <div>PRESS ◀ TO REORDER PROGRAMS, OR PRESS ▶ TO DELETE PROGRAMS.</div>		
ORDER	PROGRAM TITLES	<input checked="" type="checkbox"/>
1	SOPRANO #32 TONY'S SUPRISE	<input type="checkbox"/>
2	SOPRANO #33 ANOTHER ANGEL	<input type="checkbox"/>
3	DIE ANOTHER DAY	<input type="checkbox"/>
4 	GOLDEN EYE	<input type="checkbox"/>
5	THE MATRIX	<input type="checkbox"/>
       		

FIG. 6












 <span style="float: right;">7:03PM</span>		
<div style="display: flex; justify-content: space-between;"> <span>FRIDAY NIGHT LIST</span> <span>CONTAINS 5 PROGRAMS</span> </div> <div>586MIN</div> <div>PRESS  ON YOUR REMOTE TO CHANGE YOUR PLALIST'S ORDER.</div>		
ORDER	PROGRAM TITLES	<input checked="" type="checkbox"/>
1	SOPRANO #32 TONY'S SUPRISE	<input type="checkbox"/>
2	SOPRANO #33 ANOTHER ANGEL	<input type="checkbox"/>
3	DIE ANOTHER DAY	<input type="checkbox"/>
4 	GOLDEN EYE	<input type="checkbox"/>
5	THE MATRIX	<input type="checkbox"/>
       		

FIG. 7

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<b>YOUR VOD BRAND</b>		7:03PM
FRIDAY NIGHT LIST <span style="float: right;">CONTAINS 5 PROGRAMS</span> 586MIN ✓ A <input type="checkbox"/> AND THEN SELECT ✕ BELOW TO DELETE PROGRAMS.		
ORDER	PROGRAM TITLES	<input checked="" type="checkbox"/>
1	SOPRANO #32 TONY'S SUPRISE	<input type="checkbox"/>
2	SOPRANO #33 ANOTHER ANGEL	<input type="checkbox"/>
3	DIE ANOTHER DAY	<input type="checkbox"/>
4	GOLDEN EYE	<input checked="" type="checkbox"/>
5	THE MATRIX	<input type="checkbox"/>
<div style="display: flex; justify-content: space-around; align-items: center;"> <span></span> <span></span> <span></span> <span></span> <span></span> <span></span> <span></span> <span></span> </div>		

FIG. 8

<b>YOUR VOD BRAND</b>		7:03PM
FRIDAY NIGHT LIST <span style="float: right;">CONTAINS 5 PROGRAMS</span> 586MIN ✓ A <input type="checkbox"/> AND THEN SELECT ✕ BELOW TO DELETE PROGRAMS.		
ORDER	PROGRAM TITLES	<input checked="" type="checkbox"/>
1	SOPRANO #32 TONY'S SUPRISE	<input type="checkbox"/>
2	SOPRANO #33 ANOTHER ANGEL	<input type="checkbox"/>
3	DIE ANOTHER DAY	<input type="checkbox"/>
4	GOLDEN EYE	<input checked="" type="checkbox"/>
5	THE MATRIX	<input type="checkbox"/>
<div style="display: flex; justify-content: space-around; align-items: center;"> <span></span> <span></span> <span></span> <span></span> <span></span> <span></span> <span></span> <span></span> </div>		

FIG. 9

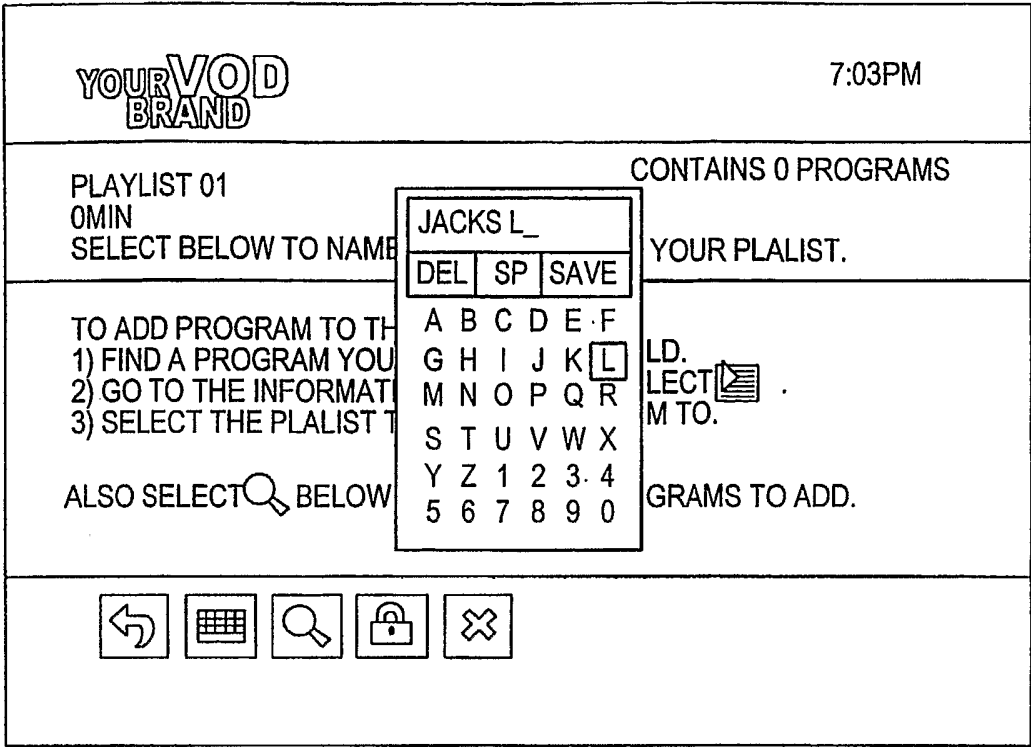


FIG. 10

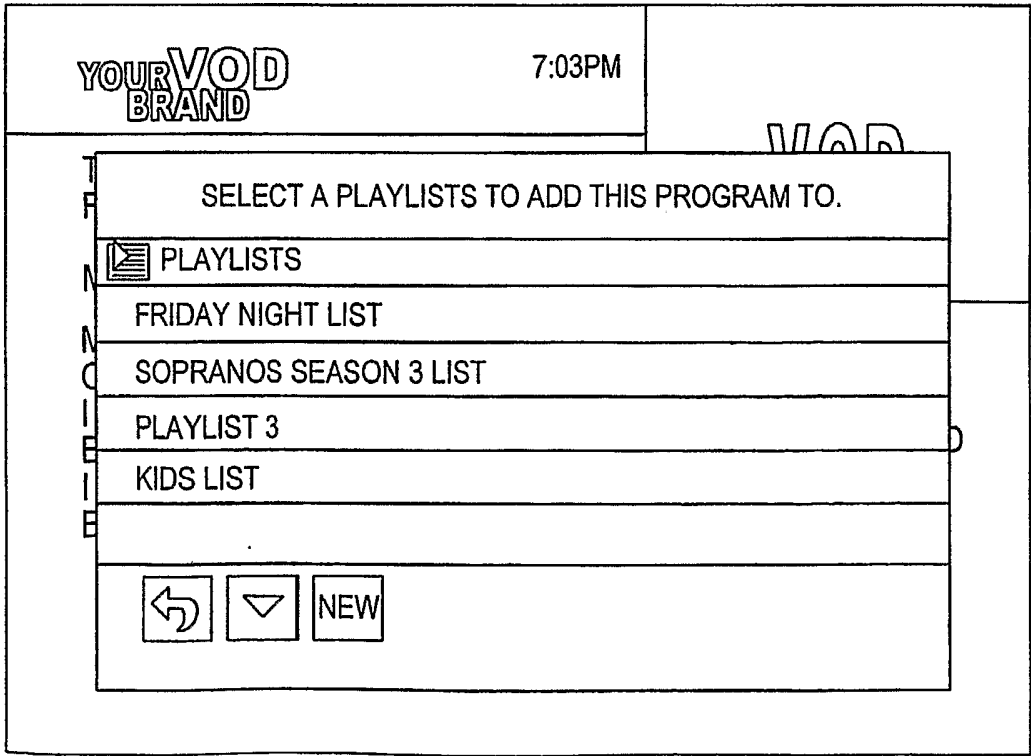


FIG. 11

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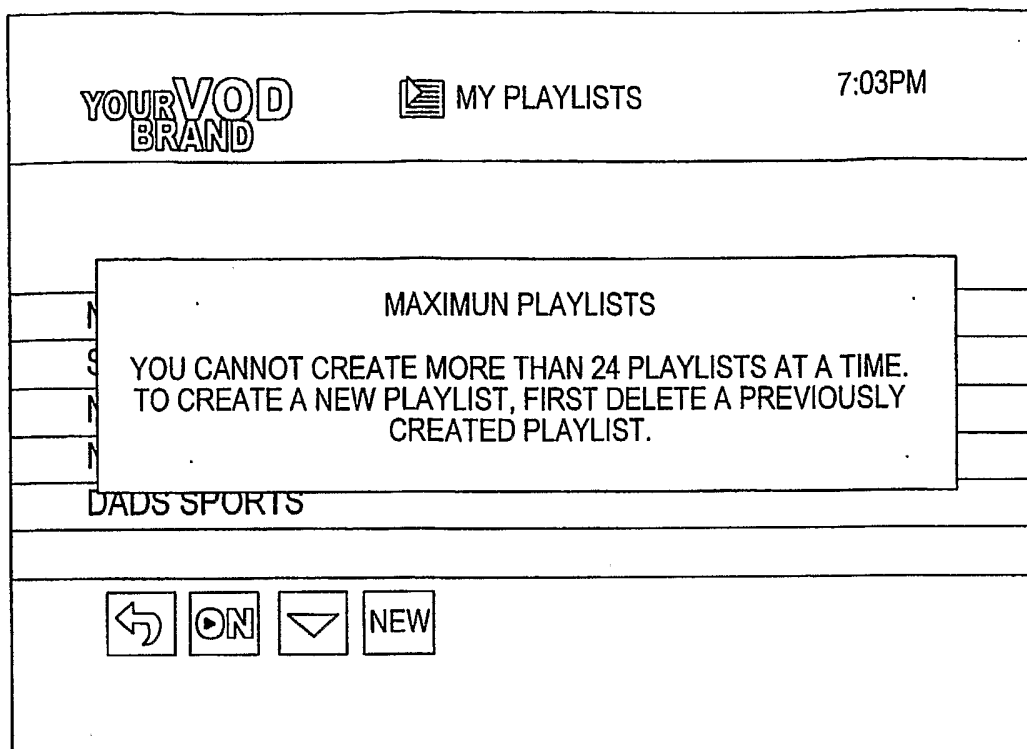


FIG. 12

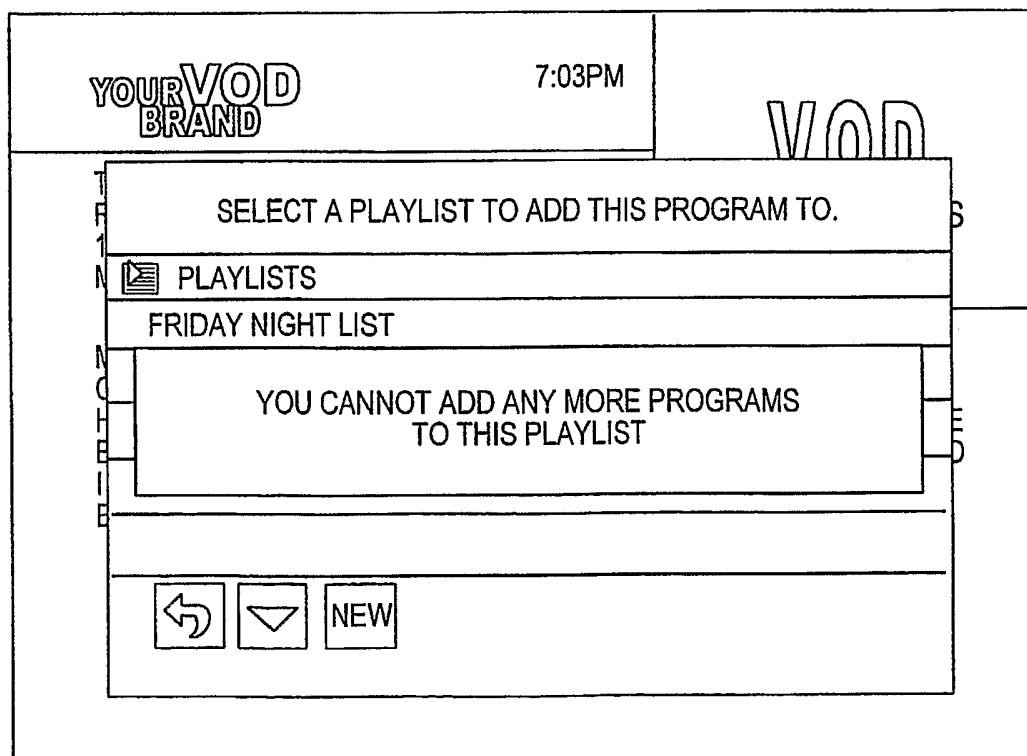


FIG. 13

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<b>YOUR VOD BRAND</b>		7:03PM	<b>VOD</b> NEW RELEASES
THE BOURNE IDENTITY FREE 120MIN		NEW PG-13 (2002)	
MOVIE LIST BY	PROGRAM ADDED THIS PROGRAM HAS BEEN ADDED TO THE FOLLOWING PLAYLIST.		
	FRIDAY NIGHT LIST 236MIN		CONTAINS 3 PROGRAMS
	<input checked="" type="checkbox"/> CONFIRM		

FIG. 14

<b>YOUR VOD BRAND</b>		7:03PM
FRIDAY NIGHT LIST 586MIN		CONTAINS 5 PROGRAMS
DELETION OPTIONS		
<input checked="" type="checkbox"/>	DELETE PROGRAMS WITH A <input checked="" type="checkbox"/> ONLY	
<input checked="" type="checkbox"/>	DELETE ALL PROGRAMS	
<input checked="" type="checkbox"/>	DELETE THE ENTIRE PLAYLIST	
<input type="checkbox"/>	DON'T DO ANYTHING	
DELETION OPTIONS		

FIG. 15

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<b>YOUR VOD BRAND</b>	7:03PM
<div style="display: flex; justify-content: space-between;"> <span>PLAYLIST 01 0MIN</span> <span>CONTAINS 0 PROGRAMS</span> </div> <p>SELECT  TO NAME YOUR NEW PLAYLIST.</p>	
<p>TO ADD PROGRAMS TO THIS PLAYLIST:</p> <p>1) FIND A PROGRAM YOU WOULD LIKE TO ADD.          2) GO TO THE INFORMATION SCREEN AND SELECT           3) SELECT THE PLAYLIST TO ADD THE PROGRAM TO.</p>	
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <input type="checkbox"/>  <span style="margin-left: 10px;">DELETE THIS PLAYLIST</span> </div> <div style="display: flex; align-items: center;"> <input type="checkbox"/>  <span style="margin-left: 10px;">DONT DELETE</span> </div> </div>	

FIG. 16











<b>YOUR VOD BRAND</b>	7:03PM
<div style="display: flex; justify-content: space-between;"> <span>FRIDAY NIGHT LIST</span> <span>CONTAINS 5 PROGRAMS</span> </div>	
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> <p style="text-align: center;">LOCK CONFIRMATION LOCKING WILL RESTRICT ACCESS TO THIS PLAYLIST</p> <div style="display: flex; align-items: center; margin-bottom: 10px;"> <input type="checkbox"/>  <span style="margin-left: 10px;">LOCK THIS PLAYLISTS</span> </div> <div style="display: flex; align-items: center;"> <input checked="" type="checkbox"/>  <span style="margin-left: 10px;">CONFIRM THIS LOCK</span> </div> </div>	
<div style="display: flex; justify-content: space-around; align-items: center;">         </div>	

FIG. 17

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		7:03PM
ABANDON 105MIN KATIE HOLMES, BENJAMIN BRATT		FREE NEW <span>PG-13</span>
 FRIDAY NIGHT LIST SEARCH	SELECT TO ADD OR DELETE	
ABANDON		
ABLAZE		
ABOUT ADAM		
THE ABYSS		
THE ACCIDENTAL SPY		
   		

FIG. 18









		7:03PM
 FRIDAY NIGHT LIST SEARCH	SELECT TO ADD OR DELETE	
ABANDON		
ABLAZE		
ABOUT ADAM		
THE ABYSS		
THE ACCIDENTAL SPY		
   		
CLEAR ALL PROGRAM SELECTIONS		

FIG. 19



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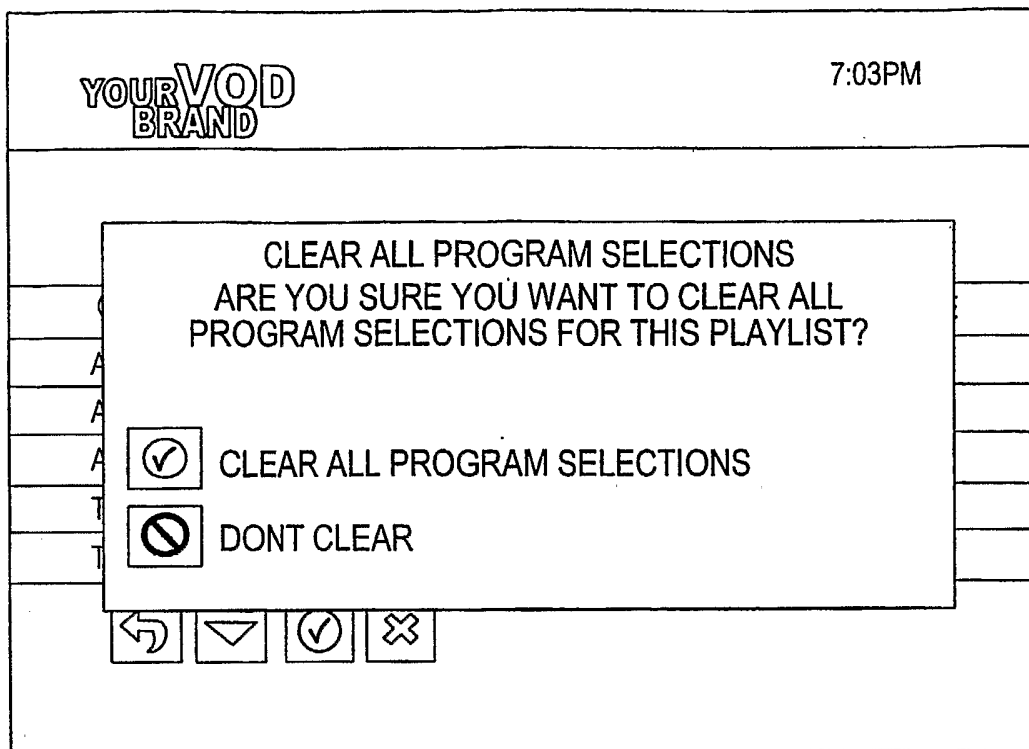


FIG. 20

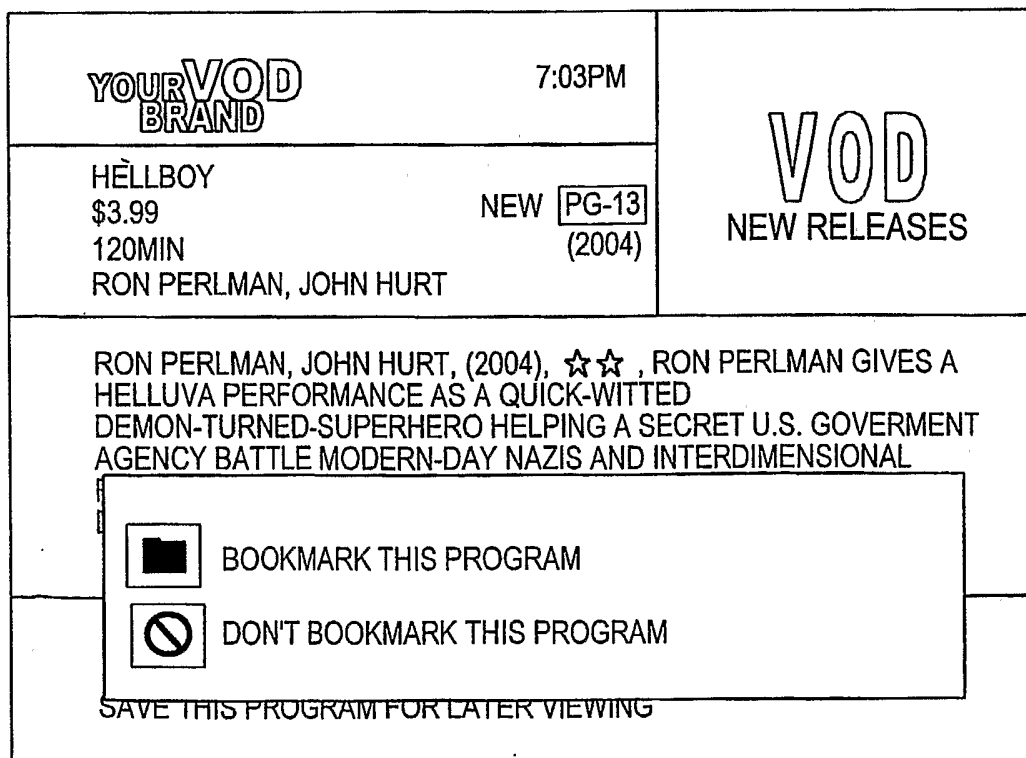


FIG. 21

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<b>YOUR VOD BRAND</b>		7:03PM	<b>VOD</b> NEW RELEASE
HELLBOY \$3.99 120MIN RON PERLMAN, JONH HURT		NEW PG-13 (2004)	
RON PERLMAN, JOHN HURT, (2004), ☆☆, RON PERLMAN GIVES A HELLUVA PERFORMANCE AS A QUICK-TWITTED DEMON-TURNED-SUPERHERO HELPING A SECRET U.S. GOVERNMENT			
A R D	THIS PROGRAM HAS BEEN BOOKMARKED		
	<input type="checkbox"/> KEEP THIS PROGRAM BOOKMARKED <input checked="" type="checkbox"/> DON'T KEEP THIS PROGRAM BOOKMARKED		
SAVE THIS PROGRAM FOR LATER VIEWING			

FIG. 22

<b>YOUR VOD BRAND</b>		7:03PM	<b>VOD</b> NEW RELEASES
HELLBOY \$3.99 120MIN RON PERLMAN, JONH HURT		NEW PG-13 (2004)	
<input checked="" type="checkbox"/> SAVED PROGRAMS			
THE BUTTERFLY EFFECT			<input type="checkbox"/>
HELLBOY			<input checked="" type="checkbox"/>
STARSKY & HUTCH		EXPIRES 11/12 AT 8:05P	<input checked="" type="checkbox"/>

FIG. 23

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<b>YOUR VOD BRAND</b>		7:03PM	<b>VOD</b> NEW RELEASES
HELLBOY \$3.99 120MIN ENDS 11/14/2004	NEW	PG-13 (2004)	
<input checked="" type="radio"/> SAVED PROGRAMS			
THE BUTTERFLY EFFECT			<input type="checkbox"/>
HELLBOY			ENDS 11/14 <input type="checkbox"/>
STARKY & HUTCH			EXPIRES 11/12 AT 8:05P <input checked="" type="checkbox"/>

FIG. 24

<b>YOUR VOD BRAND</b>		7:03PM	<input checked="" type="checkbox"/> TV GUIDE
THE BOURNE IDENTITY 135MINS		\$3.99+FEES/TAXES \$PG (2002)	
<div style="border: 1px solid black; padding: 10px; margin: 10px;"> <p align="center"><b>DELETE CONFIRMATION</b></p> <p>DELETING THIS VIDEO WILL REMOVE IT FROM YOUR SAVED VIDEO LIST. YOU WILL HAVE TO ORDER THE VIDEO AGAIN IF YOU WISH TO WATCH IT, WHICH MAY RESULT IN ADDITIONAL CHARGES.</p> <p align="center">PROCEED WITH DELETION?</p> <p> <input checked="" type="checkbox"/> DELETE RENTAL           </p> <p> <input type="checkbox"/> DONT DELETE RENTAL           </p> </div>			

FIG. 25

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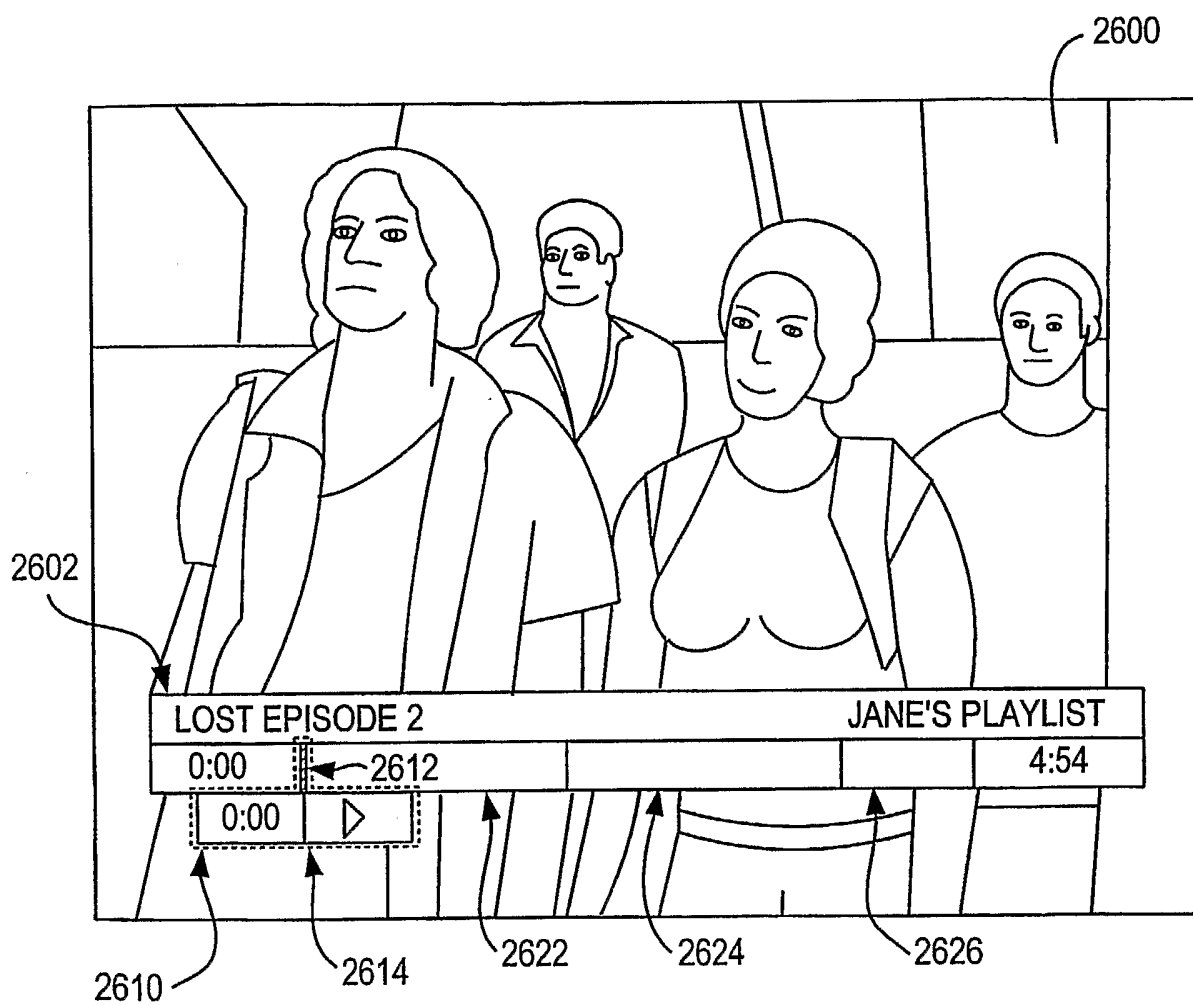


FIG. 26

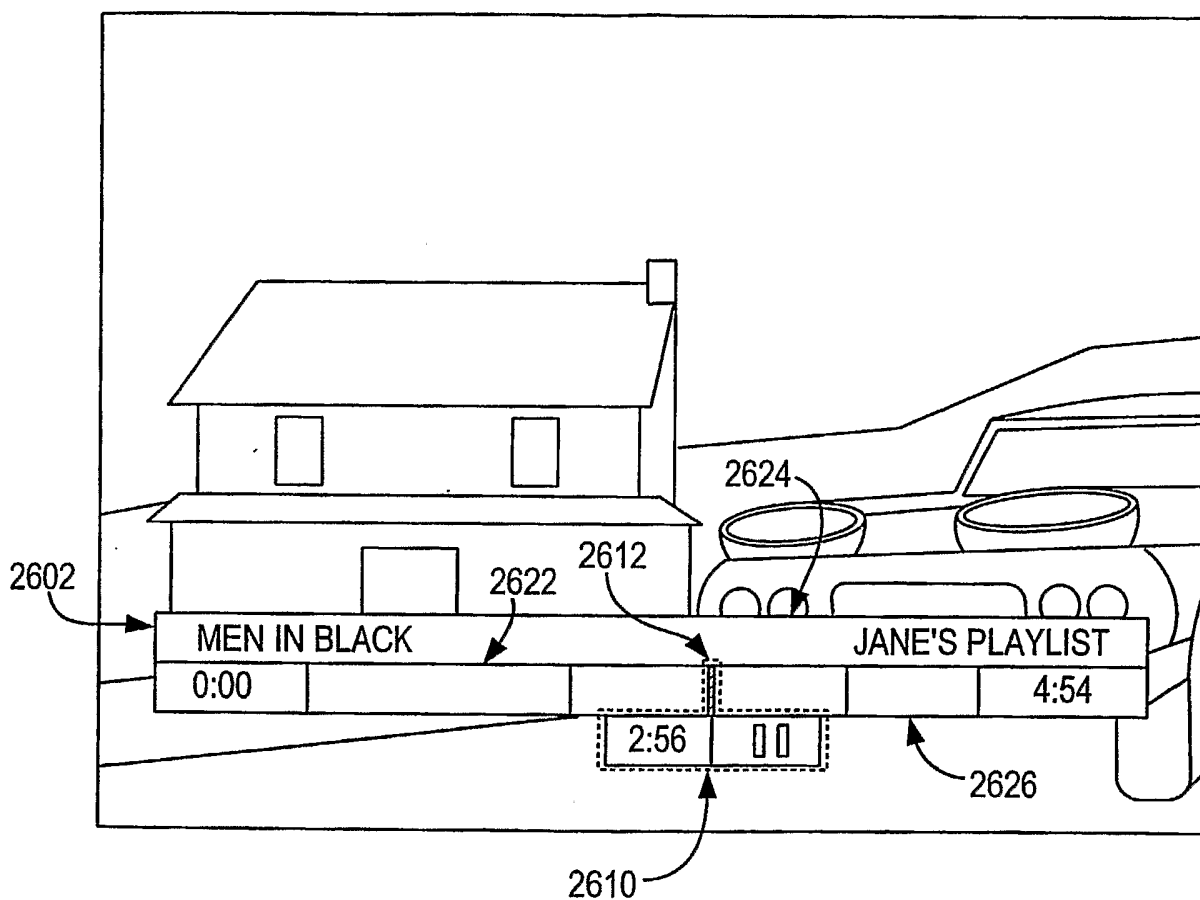


FIG. 27

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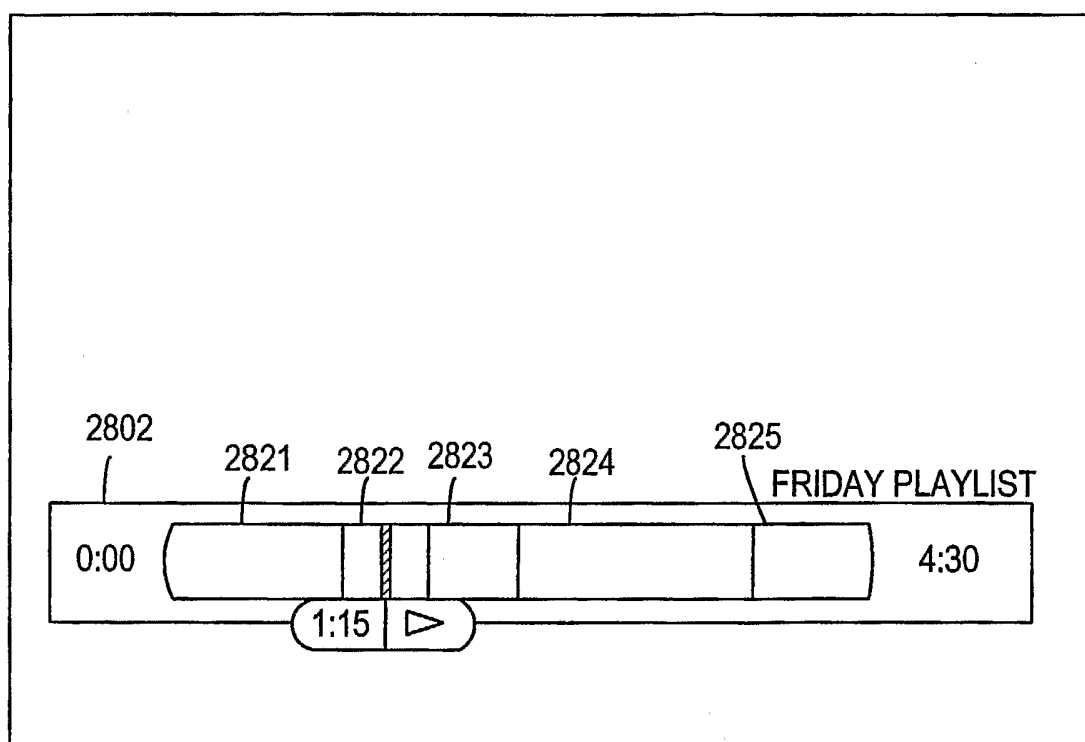
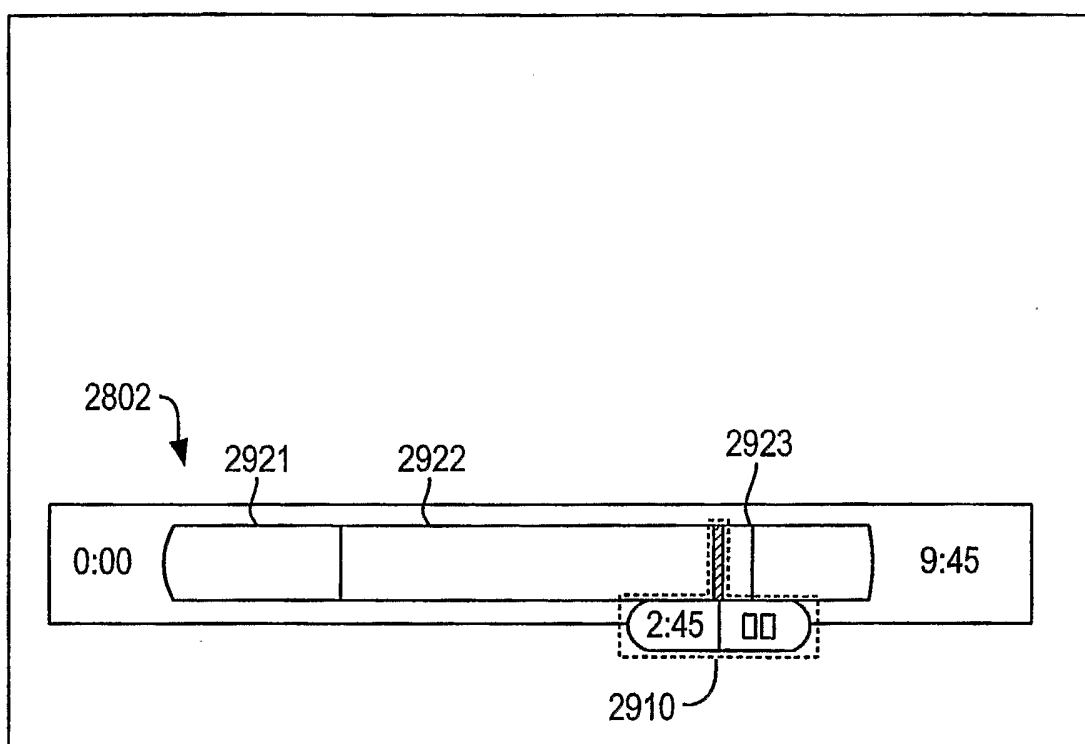
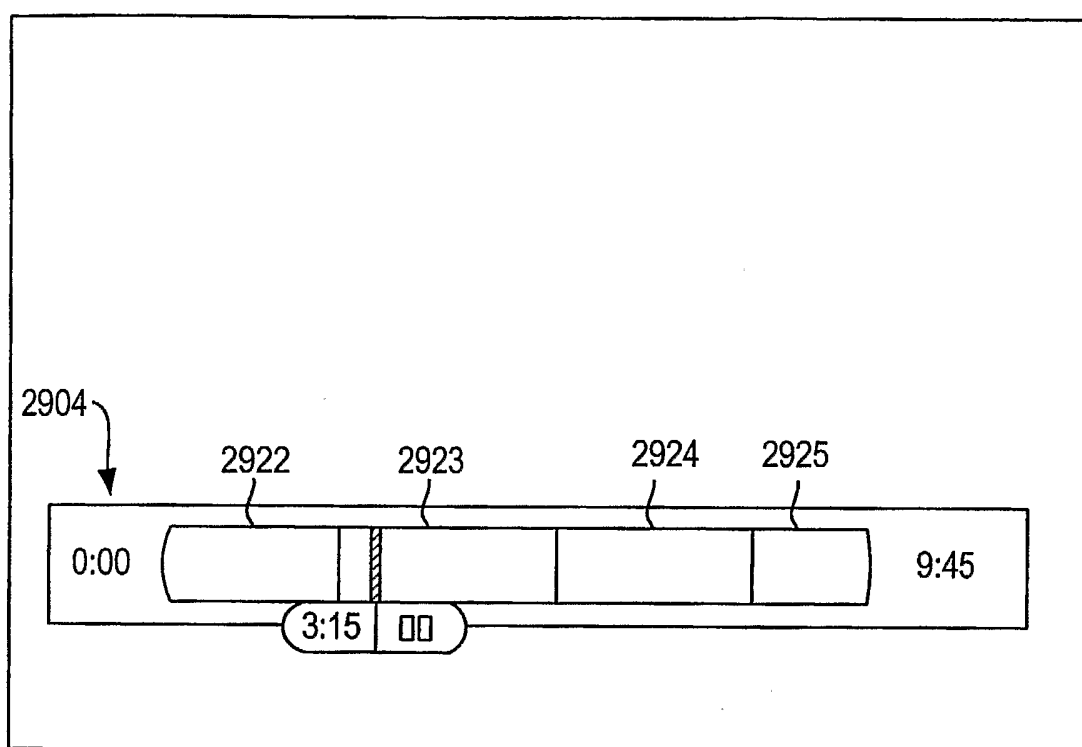


FIG. 28

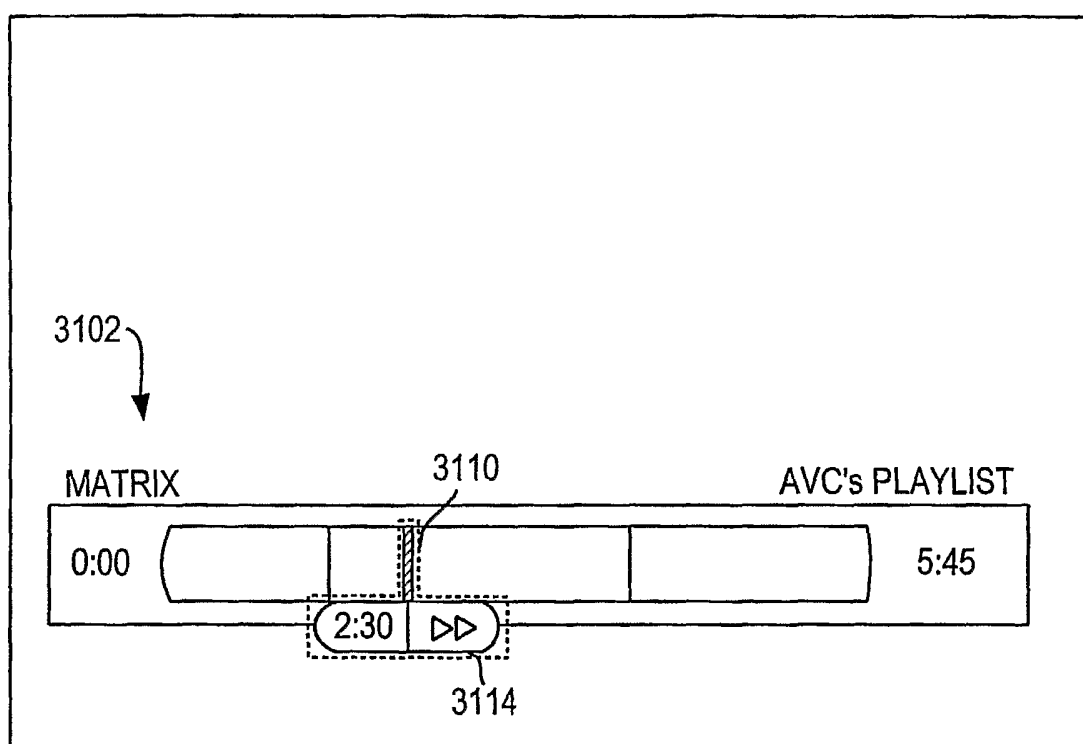
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*FIG. 29*

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*FIG. 30*



**FIG.31**

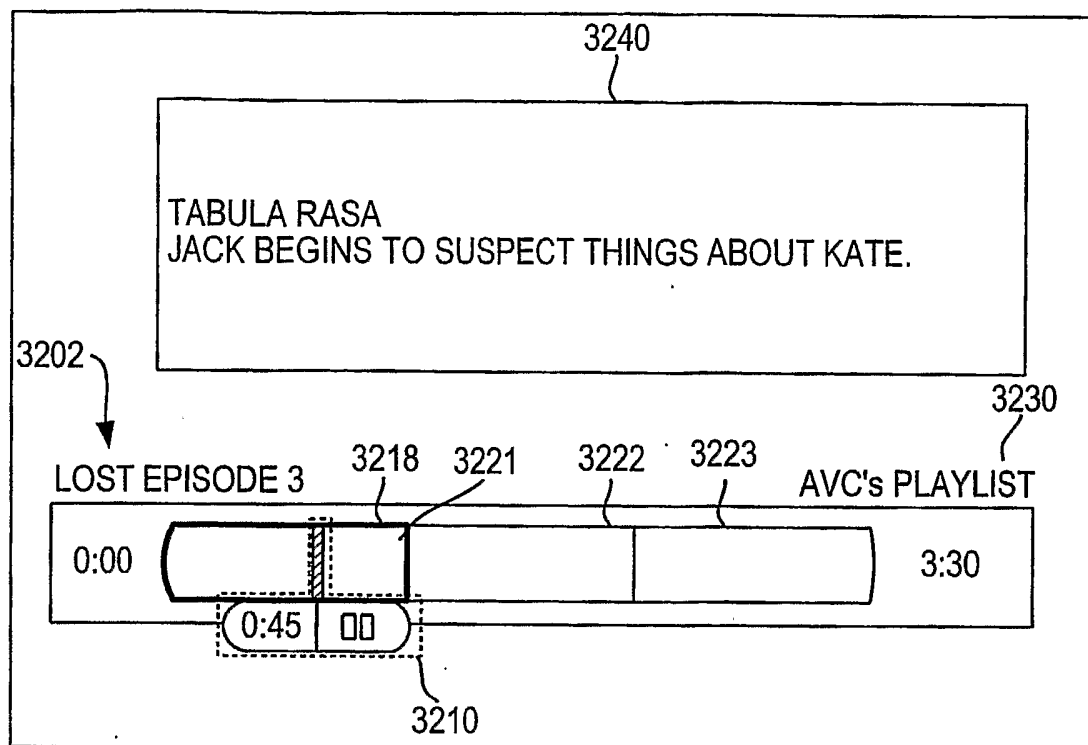


FIG. 32

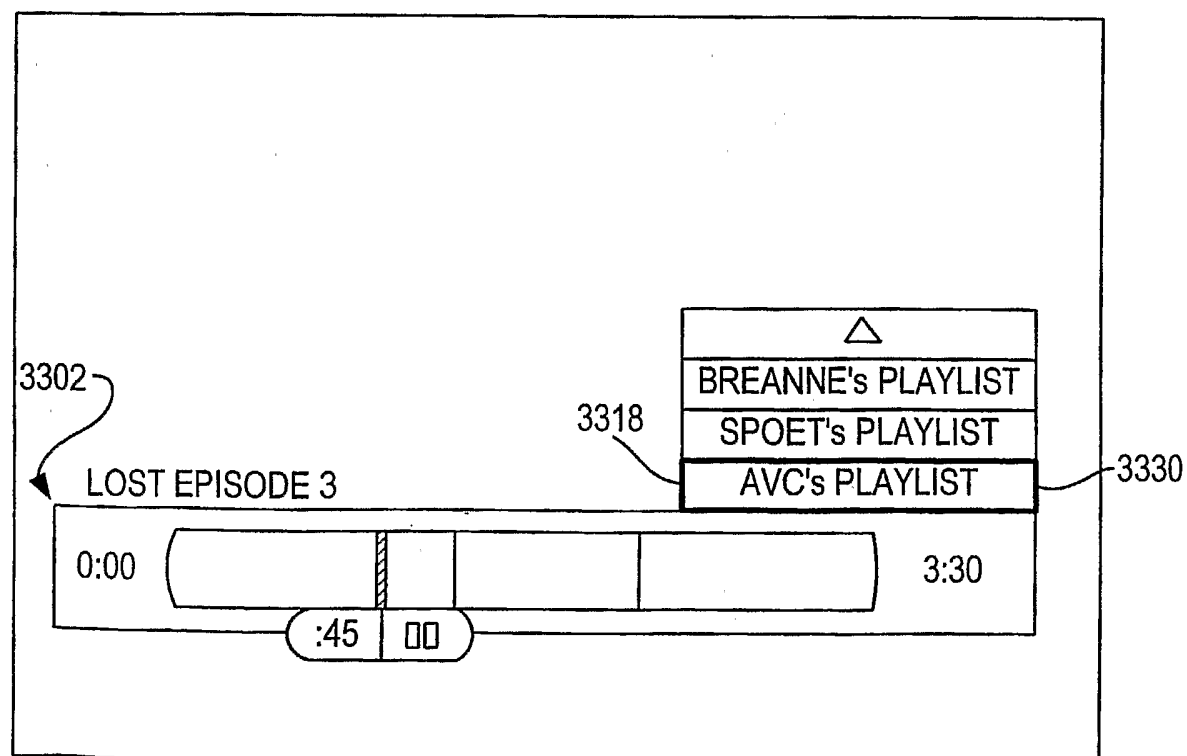


FIG. 33

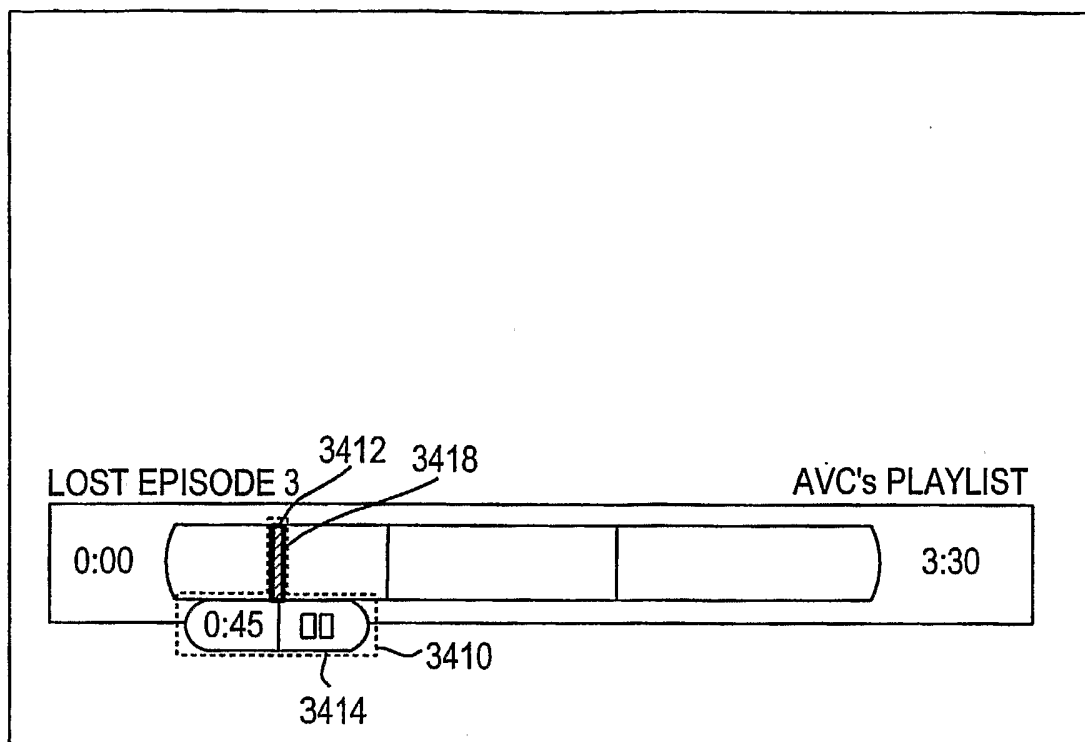


FIG. 34A

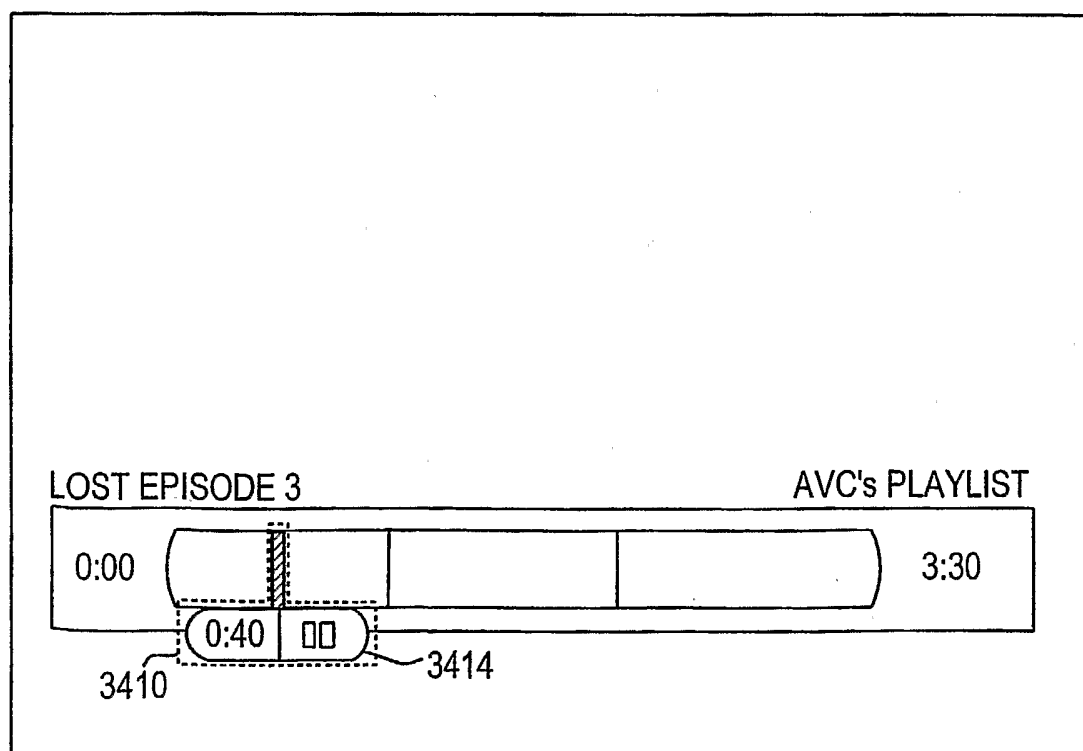


FIG. 34B

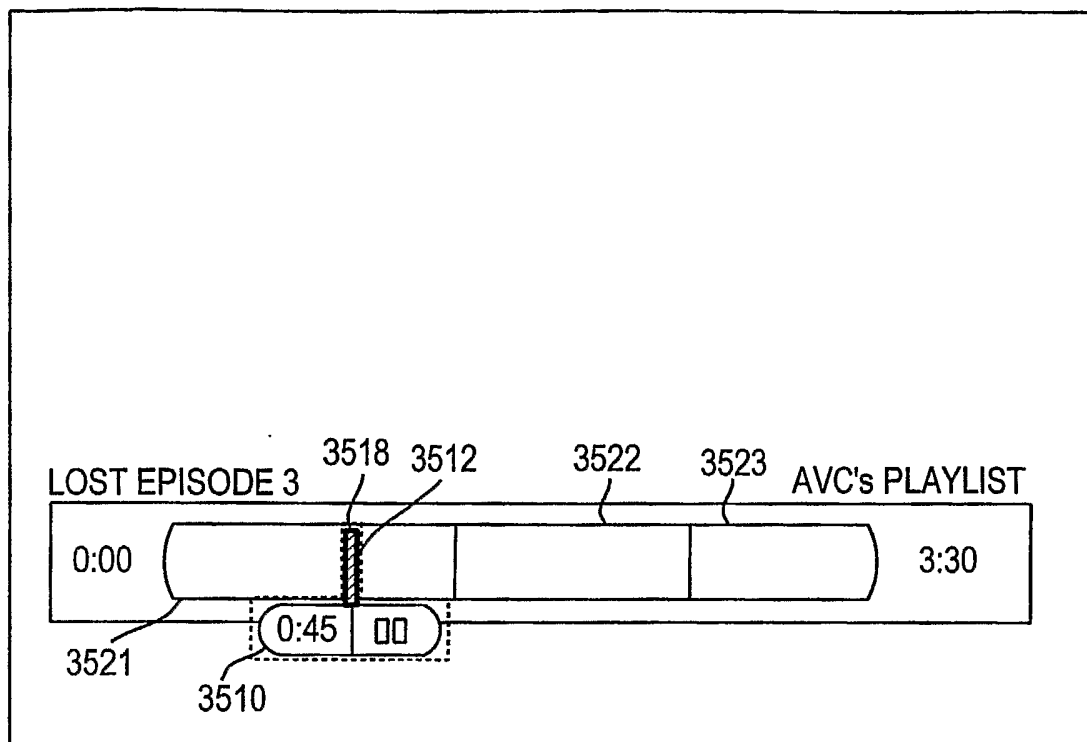


FIG. 35A

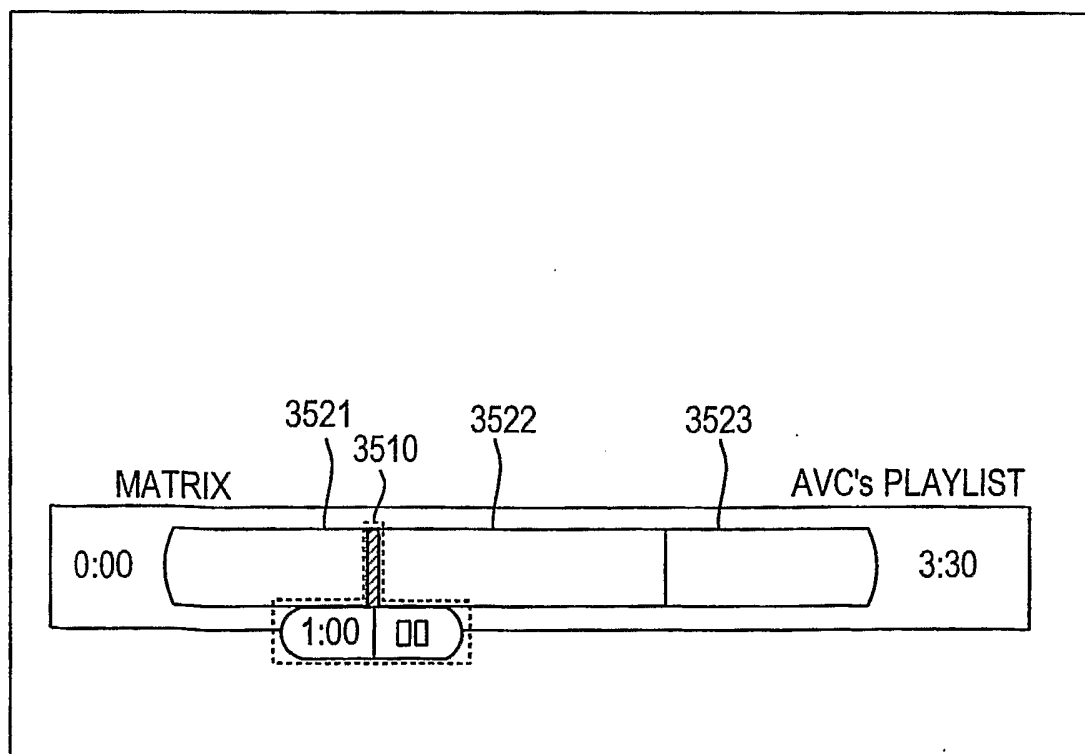


FIG. 35B

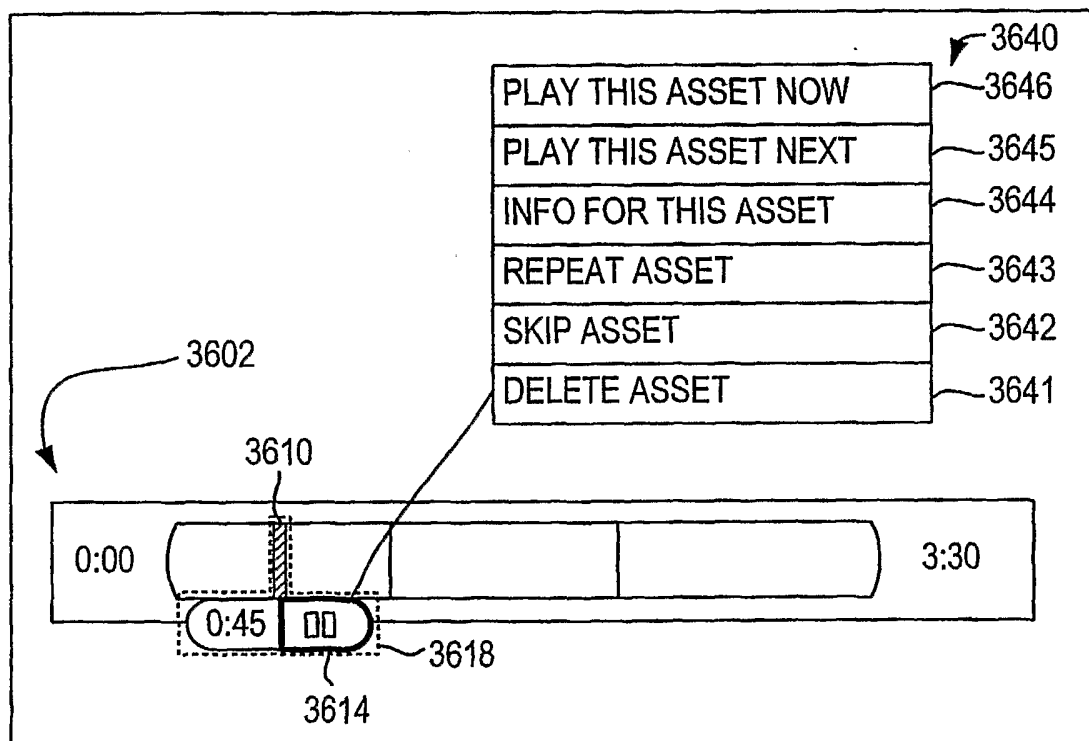
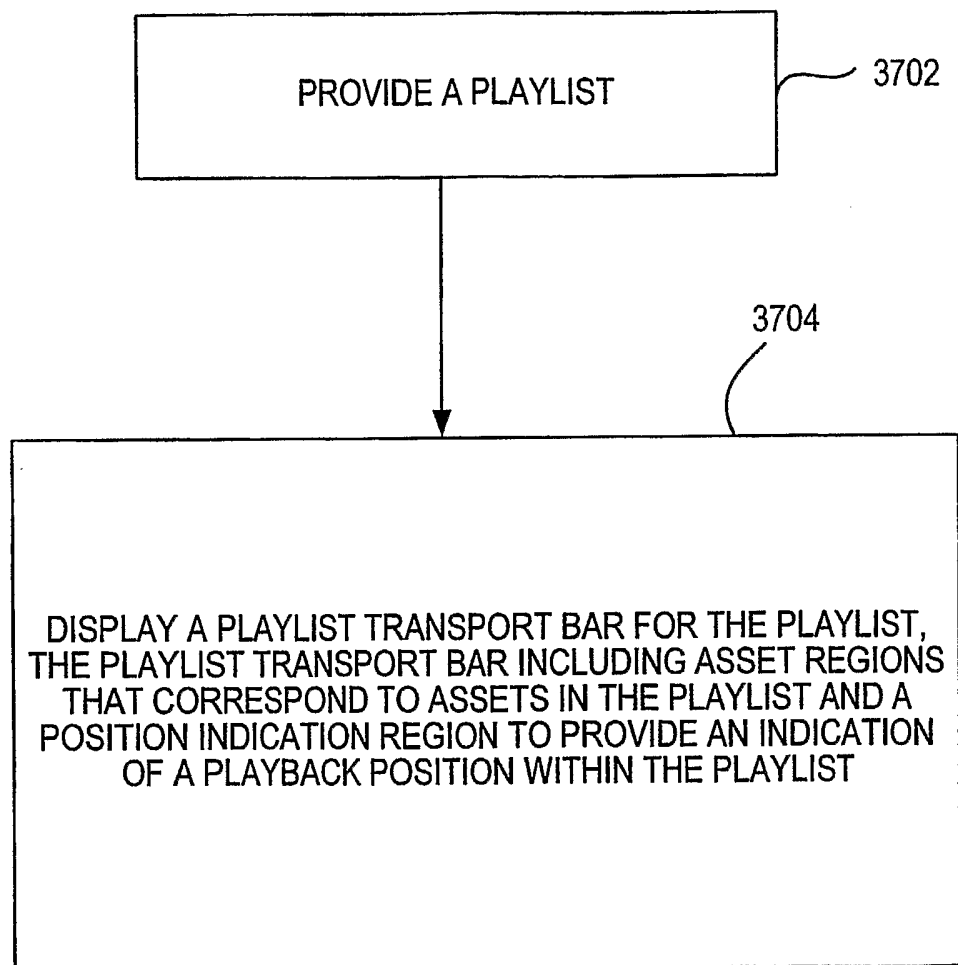


FIG.36

*FIG. 37*






<b>YOUR VOD BRAND</b>		7:03PM	<b>VOD</b> NEW RELEASES
THE BOURNE IDENTITY FREE 120MIN MATT DAMON, FRANK POTENTE		NEW <b>PG-13</b> (2002)	
MATT DAMON, FRANKA POTENTE, (2002),☆☆☆, THE SPY THRILLER OPENS AS AN AMNESIAC IS RESCUED AT SEA BY THE CREW OF AN ITALIAN FISHING BOAT. NEARLY DEAD, HE CARRIES NOTHING BUT THE BULLETS IN HIS BACK AND THE BANK ACCOUNT NUMBER EMBEDDED IN HIS HIP, ALTHOUGH COMPLETELY WITHOUT IDENTITY OR BACKGROUND, HE MAKES HIS WAY ACROSS EUROPE TO DISCOVER...			
<div>      </div> ADD THIS PROGRAM TO A PLAYLIST			

FIG. 38






<b>YOUR VOD BRAND</b>		7:03PM	<b>VOD</b> NEW RELEASES
HELLBOY \$3.99 120MIN RON PERLMAN, JOHN HURT		NEW <b>PG-13</b> (2004)	
RON PERLMAN, JOHN HURT, (2004),☆☆, RON PERLMAN GIVES A HELLUVA PERFORMANCE AS A QUICK-WITTED DEMON-TURNED-SUPERHERO HELPING A SECRET U.S. GOVERNMENT AGENCY BATTLE MODERN-DAY NAZIS AND INTERDIMENSIONAL MONSTERS IN THIS ENTERTAINING ADAPTION OF MIKE MIGNOLA'S COMIC BOOK. (ACTION/ADVENTURE, 122MINS.)			
<div>      </div> SAVE THIS PROGRAM FOR LATER VIEWING			

FIG. 39