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(54) **SYSTEMS AND METHODS FOR PROVIDING AN ON-DEMAND ENTERTAINMENT SERVICE**

(71) Applicant: **Music Choice**, Horsham, PA (US)

(72) Inventors: **Stuart H. Farber**, Horsham, PA (US); **Ronald M. Yurman**, Horsham, PA (US); **Jeremy C. Rosenberg**, Havre de Grace, MD (US); **Robert M. Steinberg**, Horsham, PA (US); **John J. Feras, Jr.**, North Wales, PA (US); **Daniel L. McGonigal**, Lexington, PA (US); **Donna M. O'Neill**, Ambler, PA (US); **Christina B. Tancredi**, Ambler, PA (US); **David J. Delbeccaro**, Jenkintown, PA (US)

(73) Assignee: **Music Choice**, Horsham, PA (US)

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See application file for complete search history.

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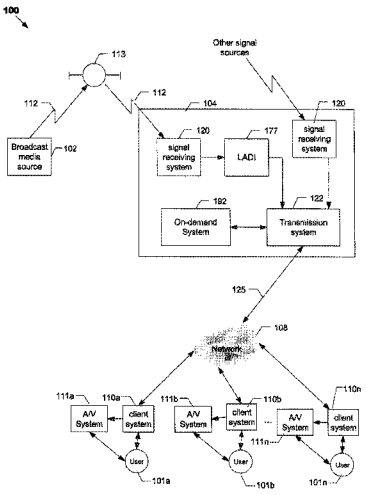
Primary Examiner — Mohammad A Siddiqi
(74) *Attorney, Agent, or Firm* — Rothwell, Figg, Ernst & Manbeck, P.C.

(57) **ABSTRACT**

The present invention provides systems and methods for, in some cases, supplementing a broadcast media service with an on-demand service.

15 Claims, 22 Drawing Sheets



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application No. 11/002,205, filed on Dec. 3, 2004, now Pat. No. 7,617,295, which is a continuation-in-part of application No. 10/339,426, filed on Jan. 9, 2003, now Pat. No. 7,325,043, said application No. 11/002,205 is a continuation-in-part of application No. 10/098,620, filed on Mar. 18, 2002, now Pat. No. 7,783,722.

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U.S. Appl. No. 14/947,017, filed Nov. 20, 2015, 26 pages.
U.S. Appl. No. 14/153,872, filed Jan. 13, 2014, 58 pages.
U.S. Appl. No. 15/162,259, filed May 23, 2016, 50 pages.

* cited by examiner

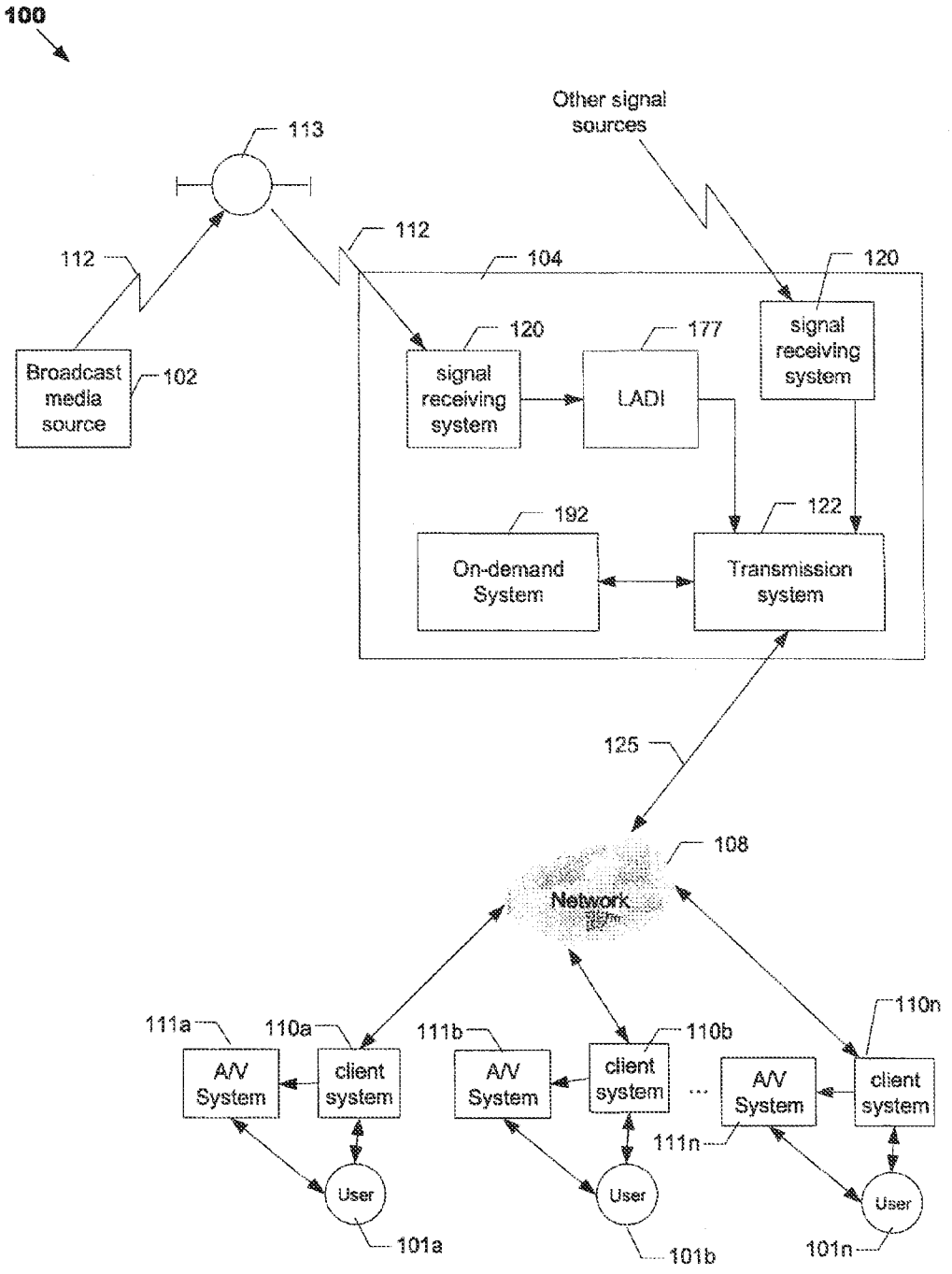
100
Other signal sources
113
112
112
104
120
120
177
signal receiving system
Broadcast media source
102
signal receiving system
LADI
signal receiving system
192
122
On-demand System
Transmission system
125
108
Network
111a
110a
110b
110n
A/V System
client system
A/V System
client system
A/V System
client system
User
User
User
101a
101b
111n
101n

FIG. 1

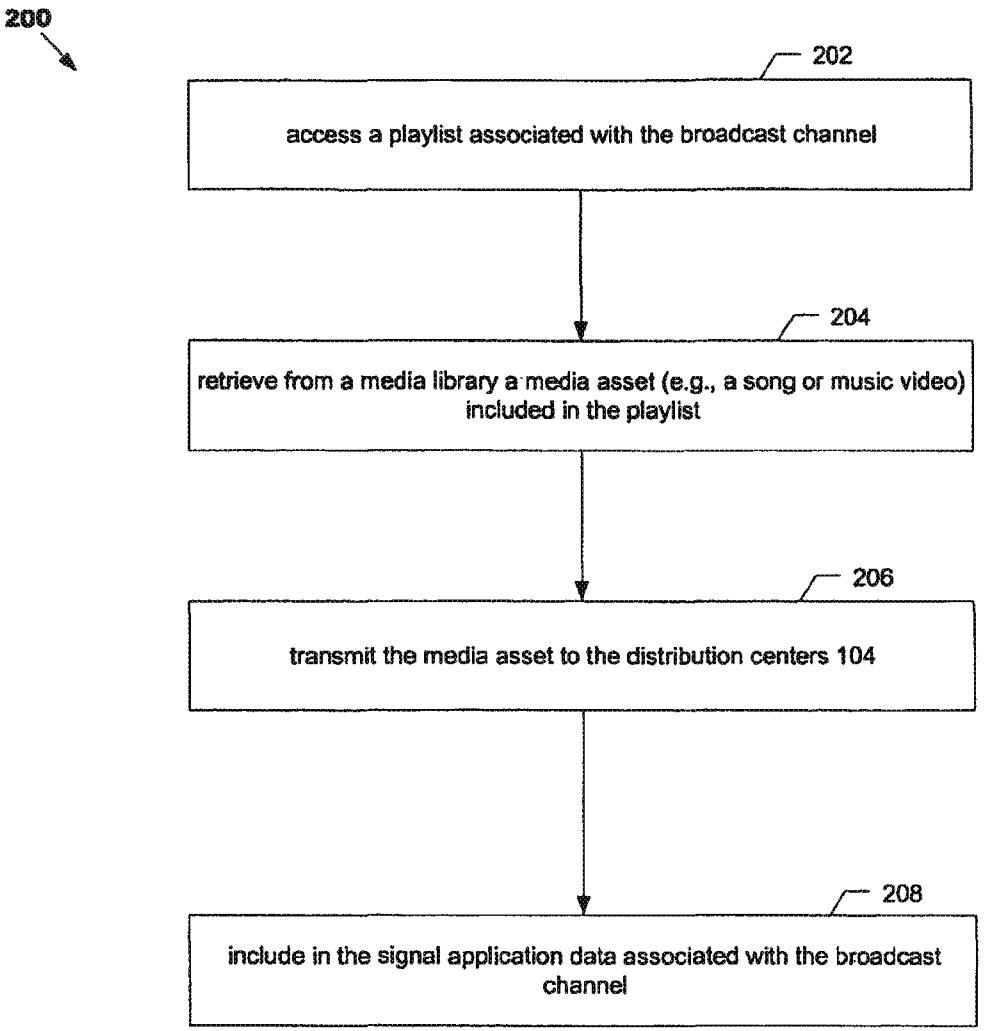
200
202
access a playlist associated with the broadcast channel
204
retrieve from a media library a media asset (e.g., a song or music video) included in the playlist
206
transmit the media asset to the distribution centers 104
208
include in the signal application data associated with the broadcast channel

FIG. 2

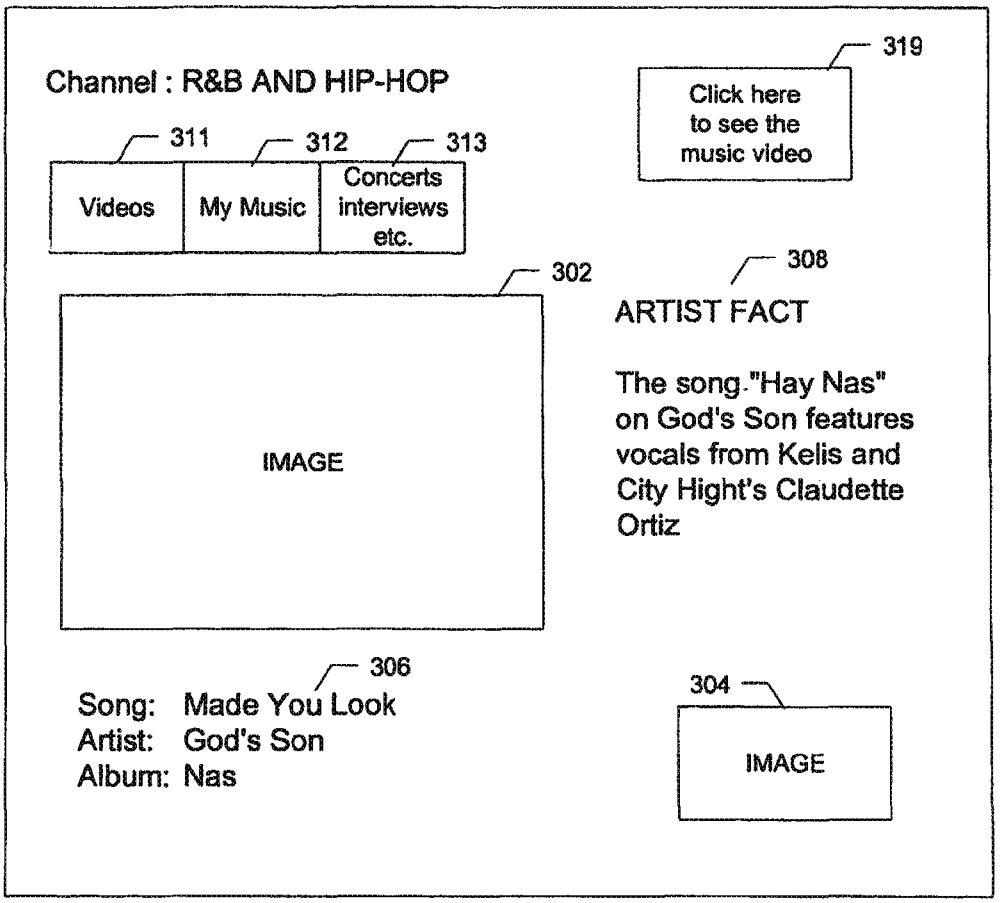
Channel : R&B AND HIP-HOP
311
312
313
Videos
My Music
Concerts interviews etc.
319
Click here to see the music video
302
IMAGE
308
ARTIST FACT
The song "Hay Nas" on God's Son features vocals from Kelis and City Hight's Claudette Ortiz
306
Song: Made You Look
Artist: God's Son
Album: Nas
304
IMAGE

FIG. 3

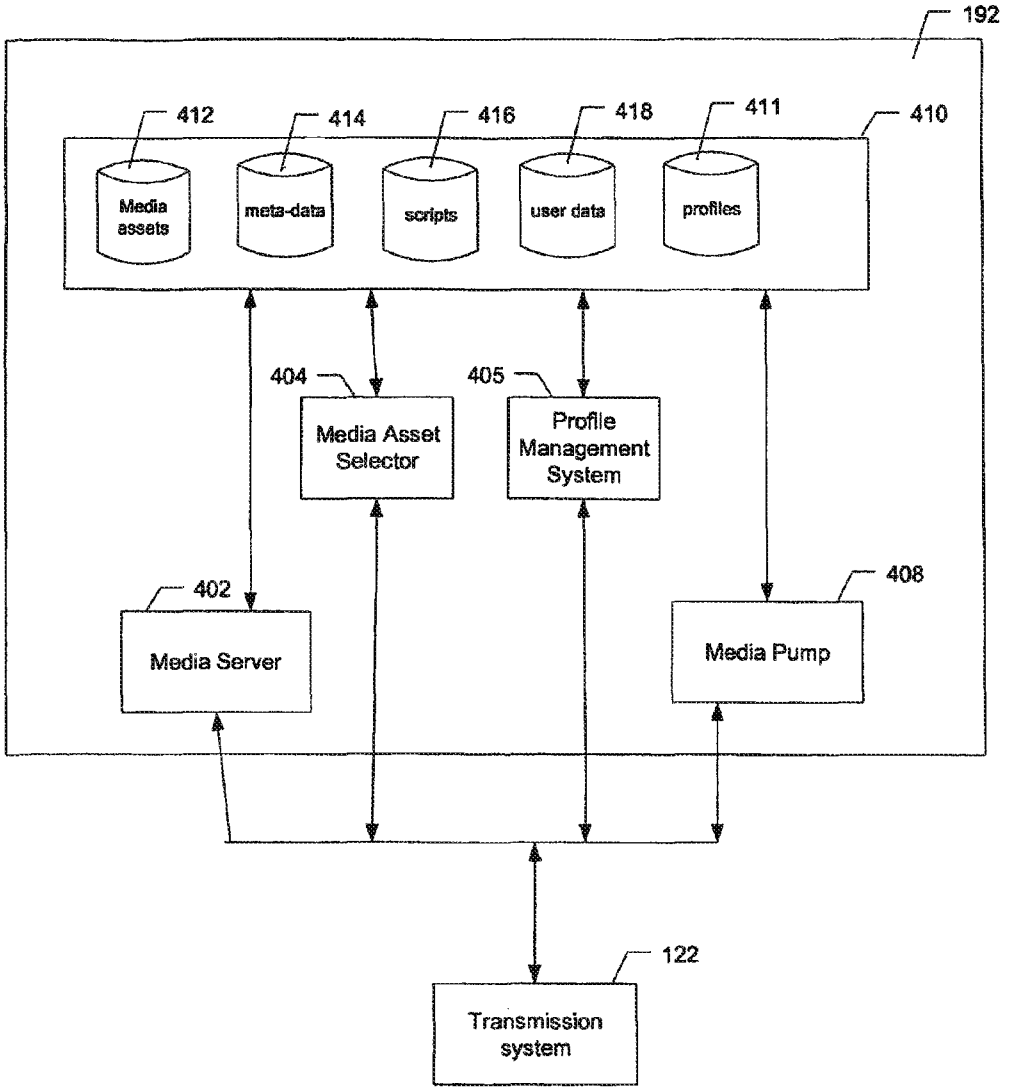
192
412
414
416
418
411
410
Media assets
meta-data
scripts
user data
profiles
404
405
Media Asset Selector
Profile Management System
402
408
Media Server
Media Pump
122
Transmission system

FIG. 4

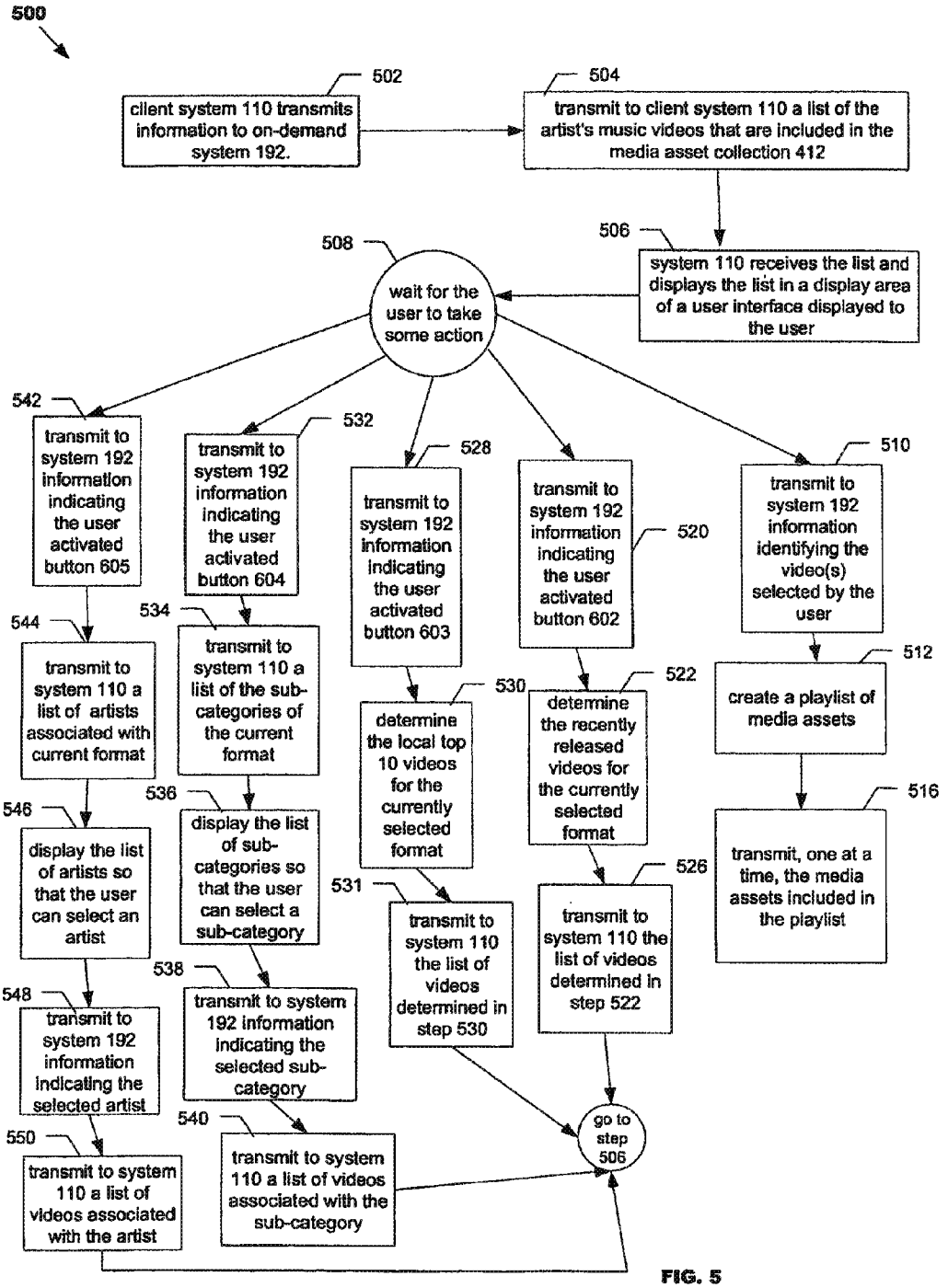
500
502
client system 110 transmits information to on-demand system 192.
504
transmit to client system 110 a list of the artist's music videos that are included in the media asset collection 412
506
system 110 receives the list and displays the list in a display area of a user interface displayed to the user
508
wait for the user to take some action
542
transmit to system 192 information indicating the user activated button 605
532
transmit to system 192 information indicating the user activated button 604
528
transmit to system 192 information indicating the user activated button 603
520
transmit to system 192 information indicating the user activated button 602
510
transmit to system 192 information identifying the video(s) selected by the user
544
transmit to system 110 a list of artists associated with current format
534
transmit to system 110 a list of the sub-categories of the current format
530
determine the local top 10 videos for the currently selected format
522
determine the recently released videos for the currently selected format
512
create a playlist of media assets
546
display the list of artists so that the user can select an artist
536
display the list of sub-categories so that the user can select a sub-category
531
transmit to system 110 the list of videos determined in step 530
526
transmit to system 110 the list of videos determined in step 522
516
transmit, one at a time, the media assets included in the playlist
548
transmit to system 192 information indicating the selected artist
538
transmit to system 192 information indicating the selected sub-category
540
transmit to system 110 a list of videos associated with the sub-category
550
transmit to system 110 a list of videos associated with the artist
go to step 506

FIG. 5

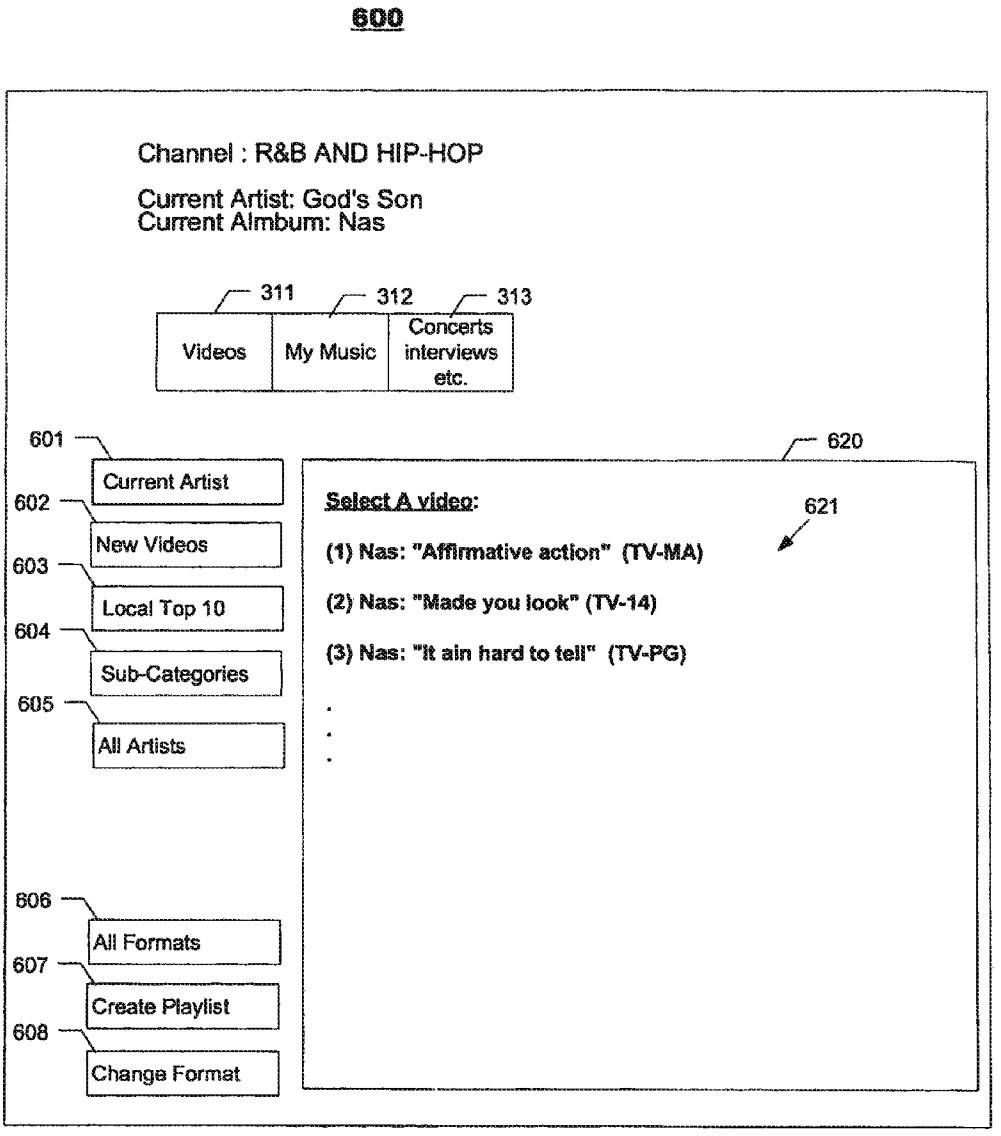
600
Channel : R&B AND HIP-HOP
Current Artist: God's Son
Current Almbum: Nas
311
312
313
Videos
My Music
Concerts interviews etc.
601
Current Artist
602
New Videos
603
Local Top 10
604
Sub-Categories
605
All Artists
606
All Formats
607
Create Playlist
608
Change Format
620
Select A video:
621
(1) Nas: "Affirmative action" (TV-MA)
(2) Nas: "Made you look" (TV-14)
(3) Nas: "It ain hard to tell" (TV-PG)

FIG. 6

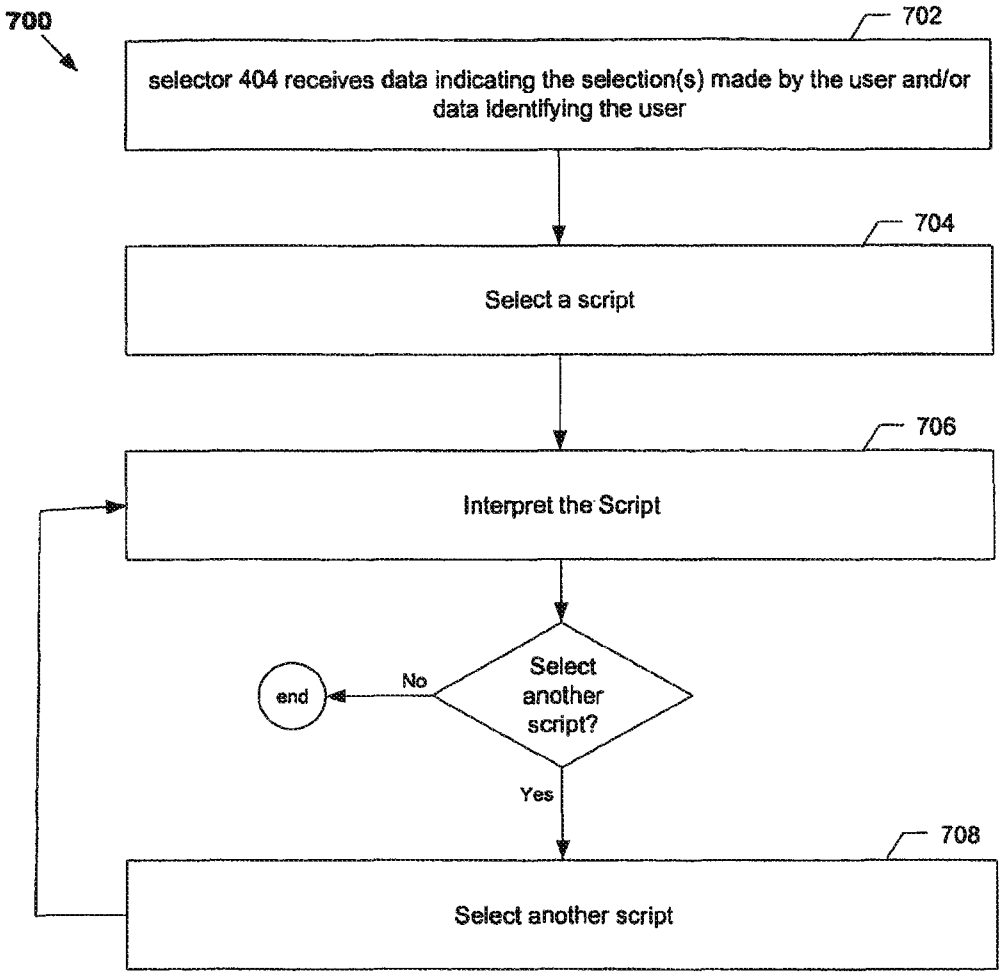
700
702
selector 404 receives data indicating the selection(s) made by the user and/or data identifying the user
704
Select a script
706
Interpret the Script
Select another script?
No
end
Yes
708
Select another script

FIG. 7

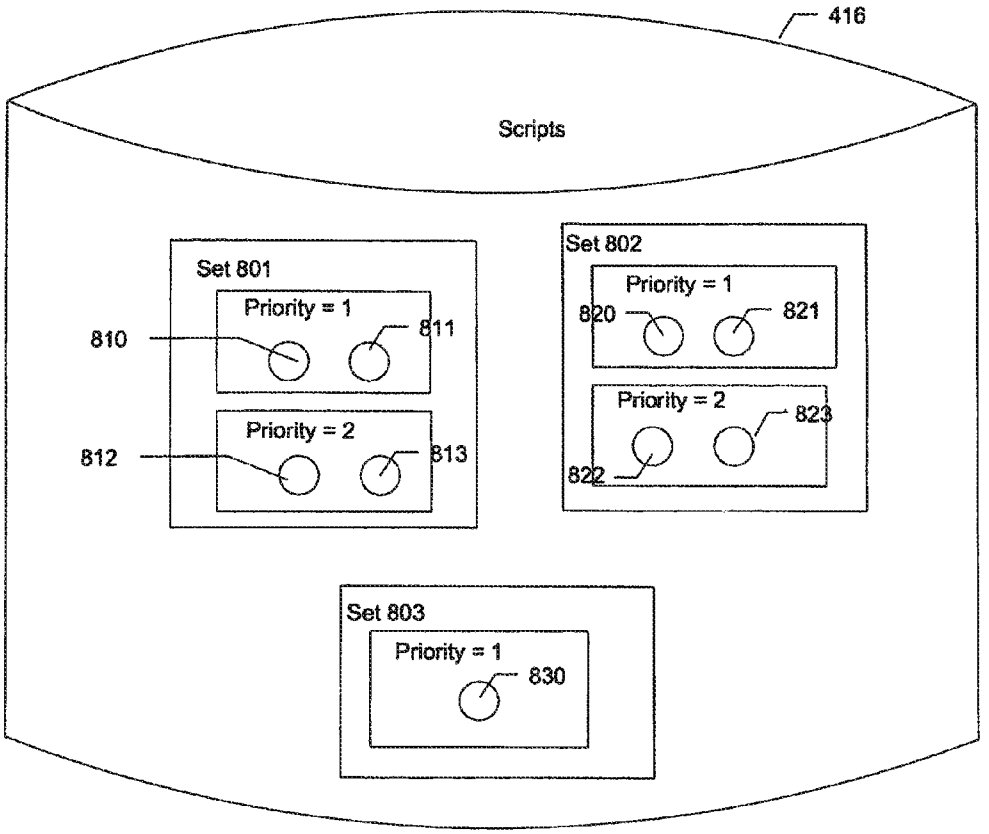
416
Scripts
Set 801
Priority = 1
810
811
Priority = 2
812
813
Set 802
Priority = 1
820
821
Priority = 2
823
822
Set 803
Priority = 1
830
= Script

FIG. 8

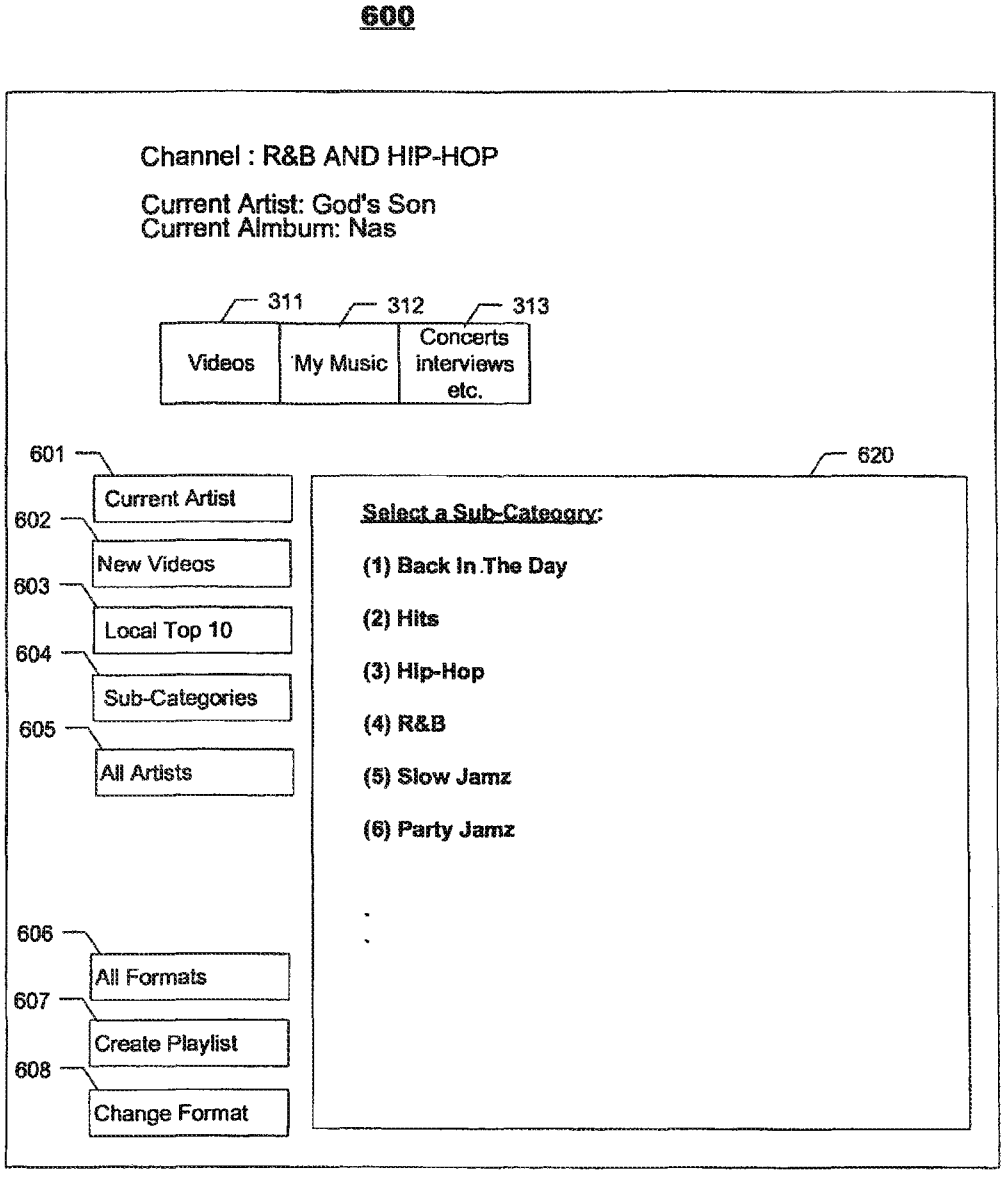
600
Channel : R&B AND HIP-HOP
Current Artist: God's Son
Current Almbum: Nas
311
312
313
Videos
My Music
Concerts interviews etc.
601
Current Artist
602
New Videos
603
Local Top 10
604
Sub-Categories
605
All Artists
606
All Formats
607
Create Playlist
608
Change Format
620
Select a Sub-Category:
(1) Back In The Day
(2) Hits
(3) Hip-Hop
(4) R&B
(5) Slow Jamz
(6) Party Jamz

FIG. 9

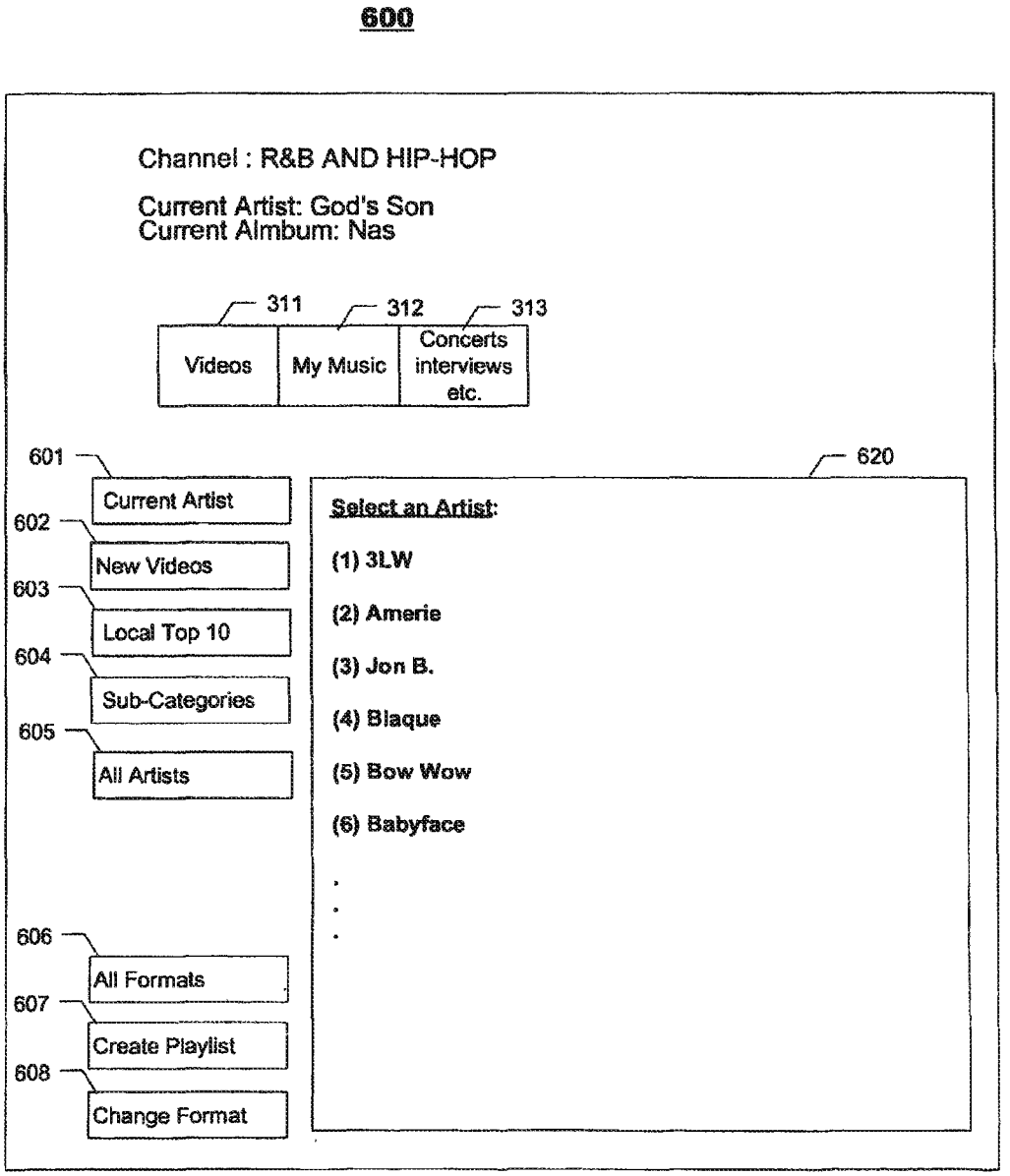
600
Channel : R&B AND HIP-HOP
Current Artist: God's Son
Current Almbum: Nas
311
312
313
Videos
My Music
Concerts interviews etc.
601
Current Artist
602
New Videos
603
Local Top 10
604
Sub-Categories
605
All Artists
606
All Formats
607
Create Playlist
608
Change Format
620
Select an Artist:
(1) 3LW
(2) Amerie
(3) Jon B.
(4) Blaque
(5) Bow Wow
(6) Babyface

FIG. 10

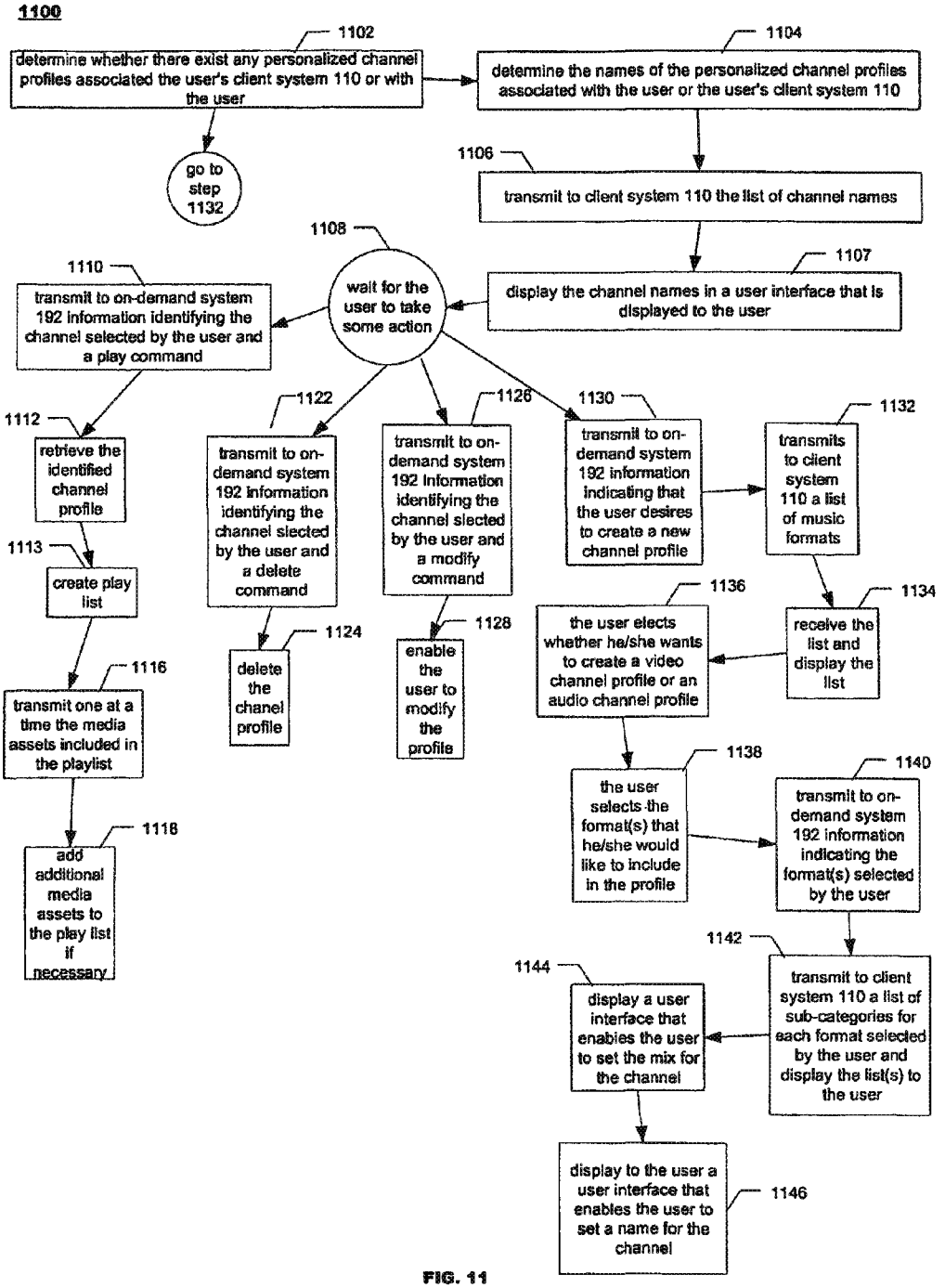
1100
1102
determine whether there exist any personalized channel profiles associated the user's client system 110 or with the user
1104
determine the names of the personalized channel profiles associated with the user or the user's client system 110
go to step 1132
1106
transmit to client system 110 the list of channel names
1108
1107
display the channel names in a user interface that is displayed to the user
1110
transmit to on-demand system 192 information identifying the channel selected by the user and a play command
wait for the user to take some action
1112
retrieve the identified channel profile
1122
transmit to on-demand system 192 information identifying the channel slected by the user and a delete command
1126
transmit to on-demand system 192 information identifying the channel slected by the user and a modify command
1130
transmit to on-demand system 192 information indicating that the user desires to create a new channel profile
1132
transmits to client system 110 a list of music formats
1113
create play list
1124
delete the chanel profile
1128
enable the user to modify the profile
1136
the user elects whether he/she wants to create a video channel profile or an audio channel profile
1134
receive the list and display the list
1116
transmit one at a time the media assets included in the playlist
1138
the user selects the format(s) that he/she would like to include in the profile
1140
transmit to on-demand system 192 information indicating the format(s) selected by the user
1118
add additional media assets to the play list if necessary
1142
transmit to client system 110 a list of sub-categories for each format selected by the user and display the list(s) to the user
1144
display a user interface that enables the user to set the mix for the channel
display to the user a user interface that enables the user to set a name for the channel
1146

FIG. 11

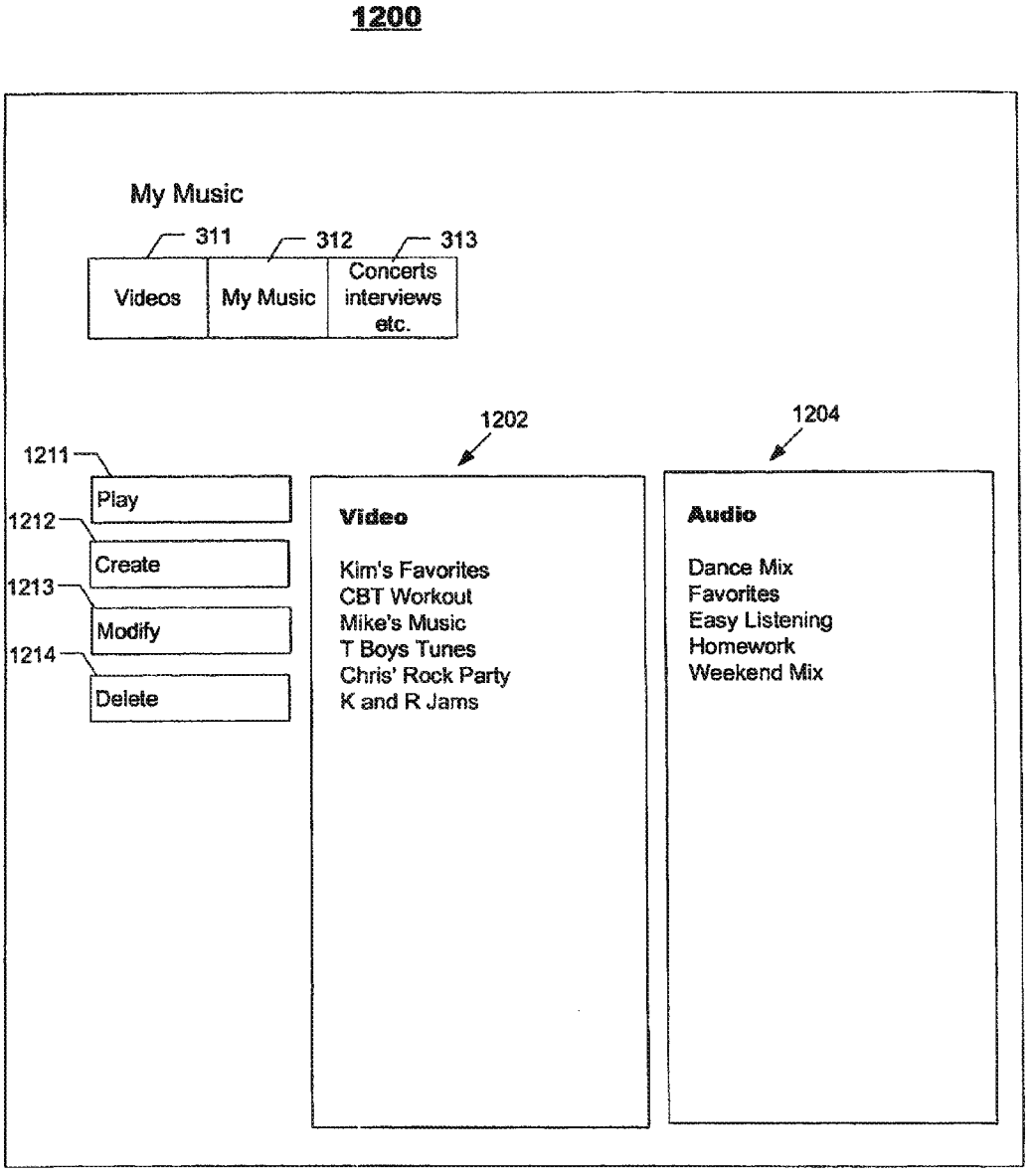
1200
My Music
311
312
313
Videos
My Music
Concerts interviews etc.
1202
1204
1211
Play
1212
Create
1213
Modify
1214
Delete
Video
Kim's Favorites
CBT Workout
Mike's Music
T Boys Tunes
Chris' Rock Party
K and R Jams
Audio
Dance Mix
Favorites
Easy Listening
Homework
Weekend Mix

FIG. 12

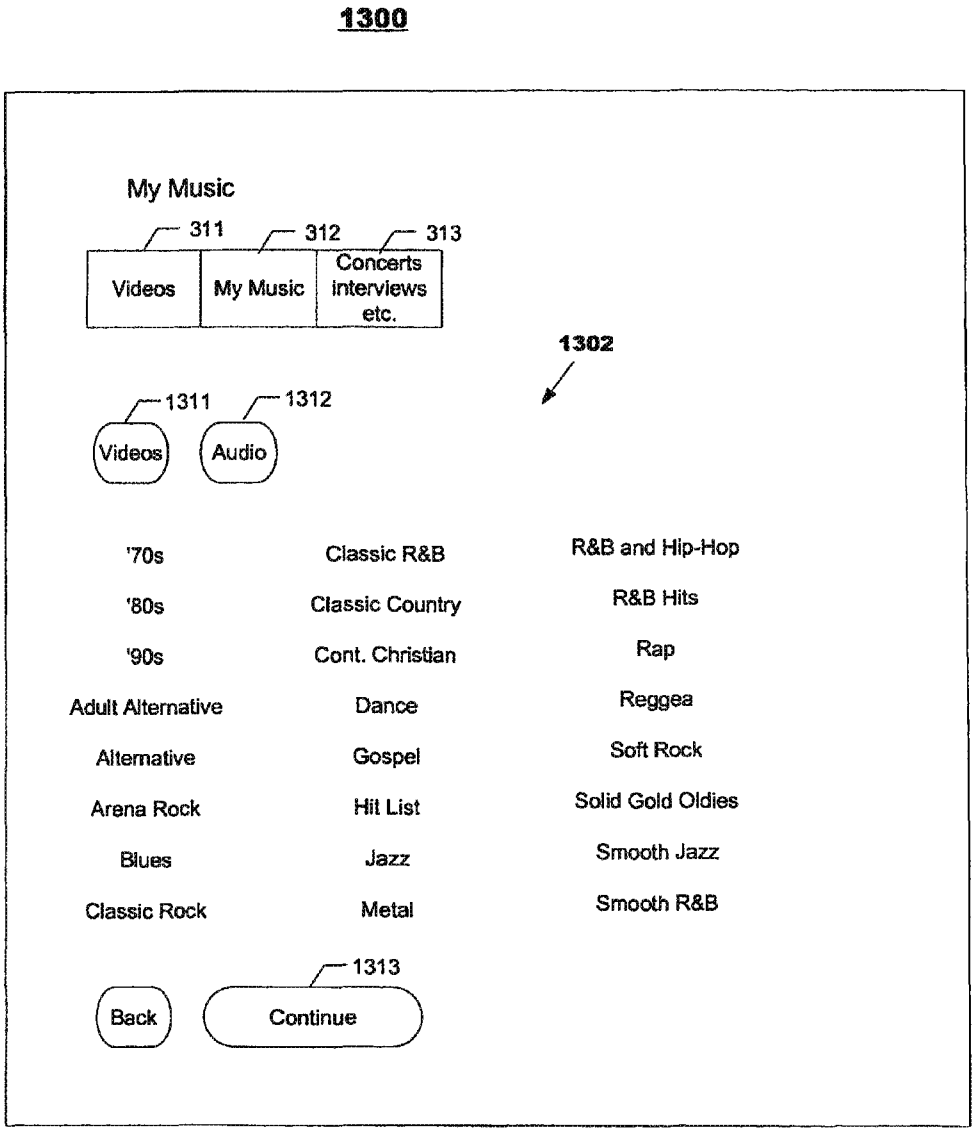
1300
My Music
311
312
313
Videos
My Music
Concerts interviews etc.
1302
1311
1312
Videos
Audio
'70s
'80s
'90s
Adult Alternative
Alternative
Arena Rock
Blues
Classic Rock
Classic R&B
Classic Country
Cont. Christian
Dance
Gospel
Hit List
Jazz
Metal
R&B and Hip-Hop
R&B Hits
Rap
Reggea
Soft Rock
Solid Gold Oldies
Smooth Jazz
Smooth R&B
1313
Back
Continue

FIG. 13

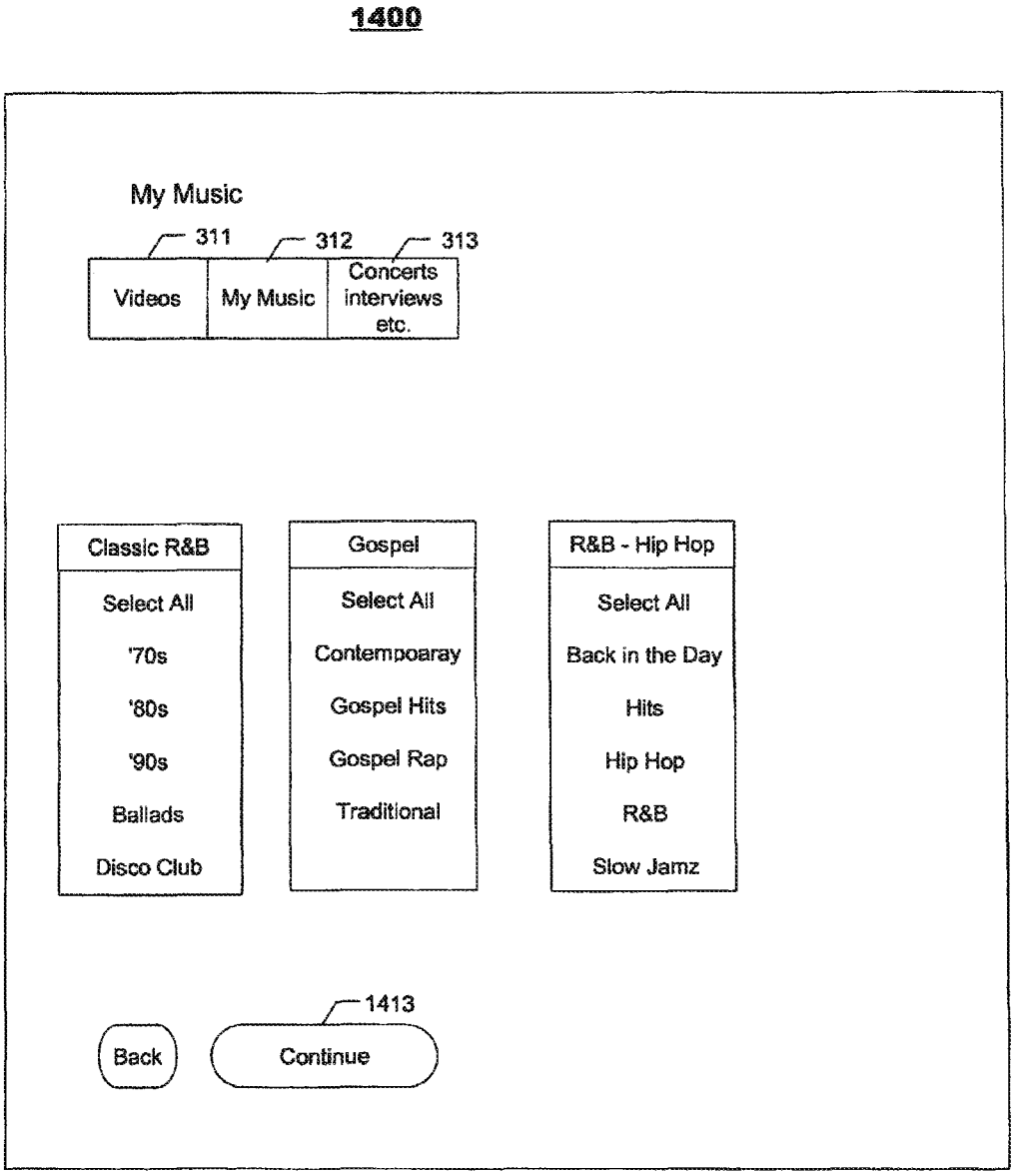
1400
My Music
311
312
313
Videos
My Music
Concerts interviews etc.
Classic R&B
Select All
'70s
'80s
'90s
Ballads
Disco Club
Gospel
Select All
Contempoaray
Gospel Hits
Gospel Rap
Traditional
R&B - Hip Hop
Select All
Back in the Day
Hits
Hip Hop
R&B
Slow Jamz
1413
Back
Continue

FIG. 14

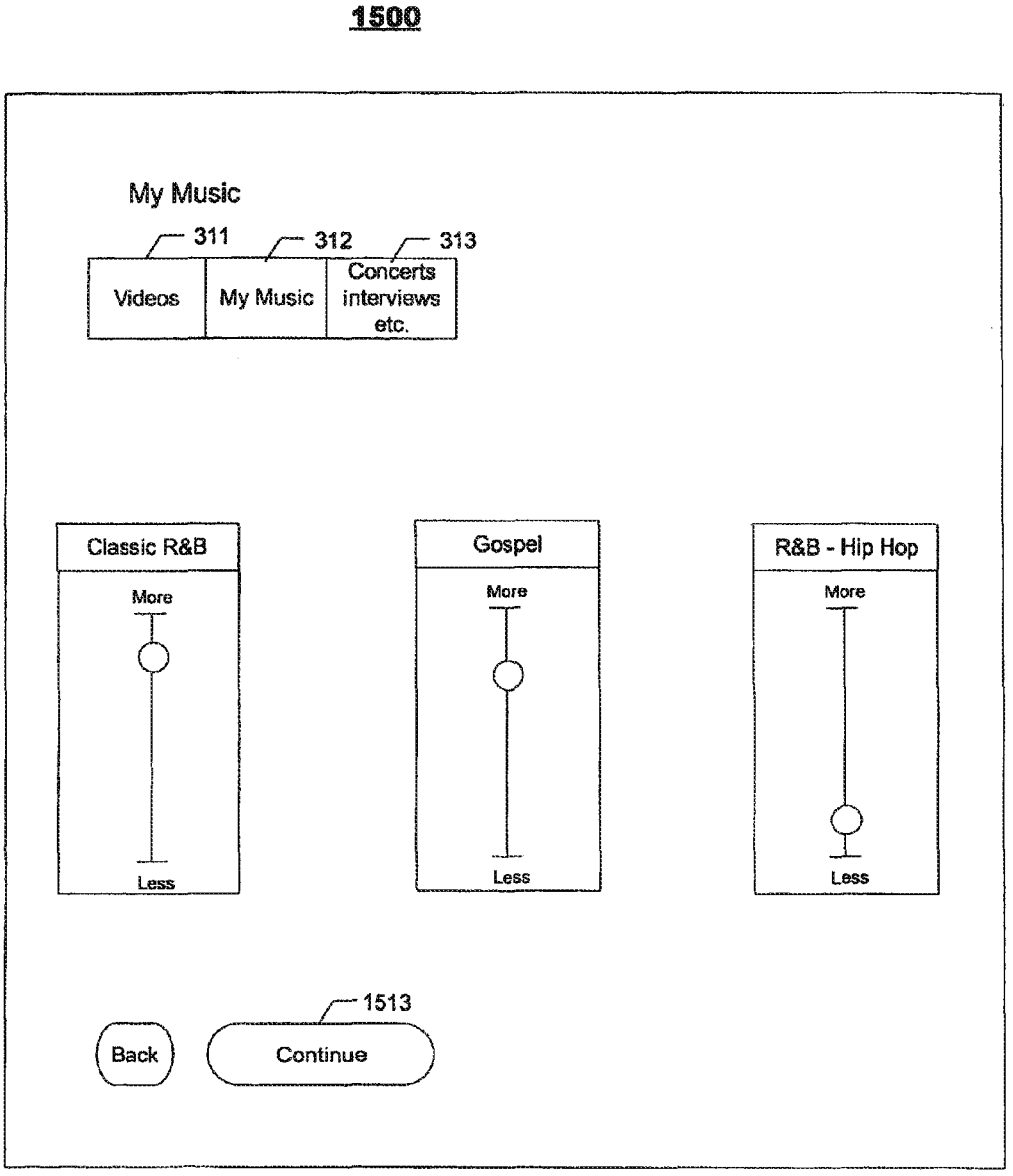
1500
My Music
311
312
313
Videos
My Music
Concerts interviews etc.
Classic R&B
More
Less
Gospel
More
Less
R&B - Hip Hop
More
Less
1513
Back
Continue

FIG. 15

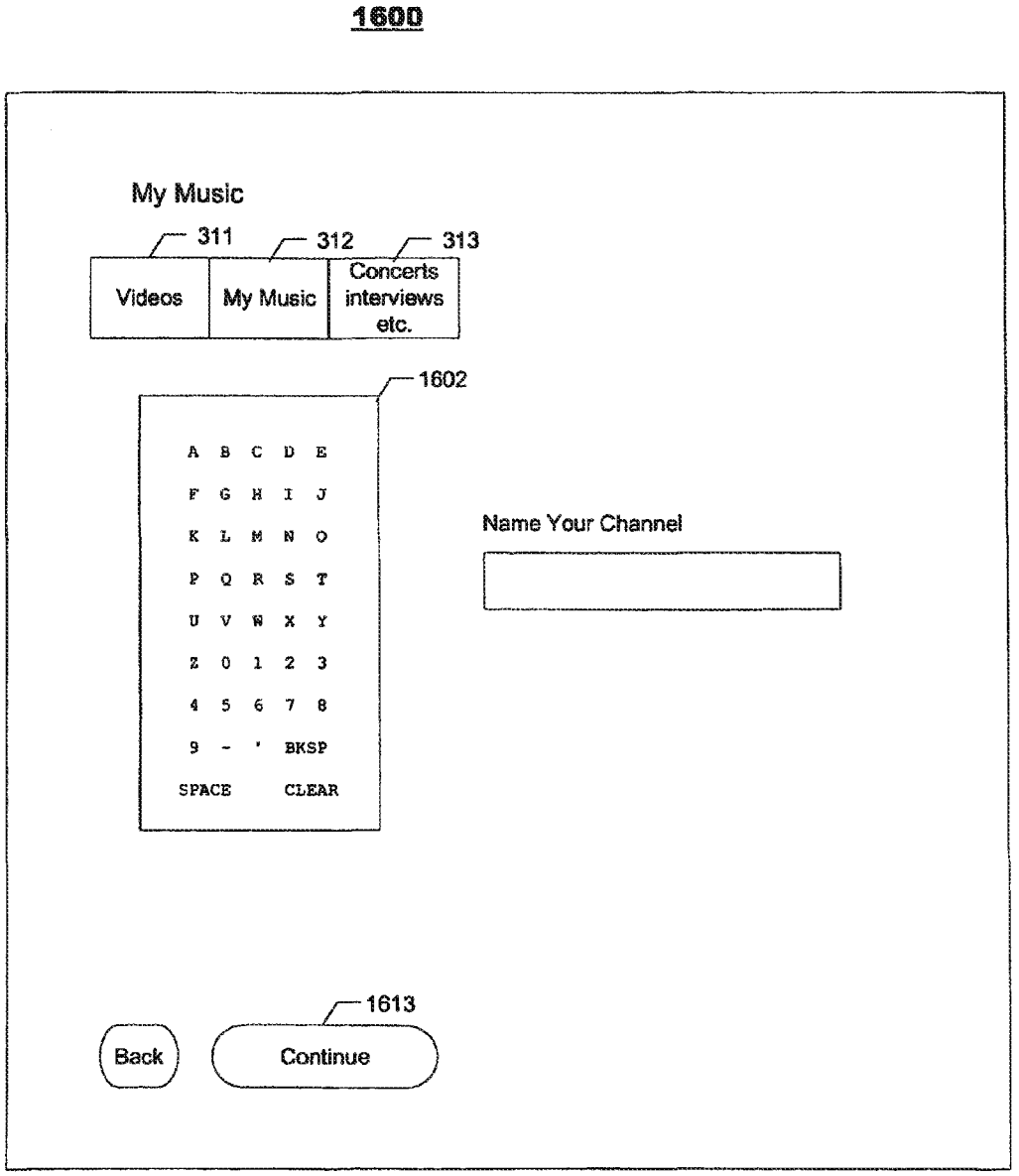
1600
My Music
311
312
313
Videos
My Music
Concerts interviews etc.
1602
A B C D E
F G H I J
K L M N O
P Q R S T
U V W X Y
Z 0 1 2 3
4 5 6 7 8
9 - ' BKSP
SPACE CLEAR
Name Your Channel
1613
Back
Continue

FIG. 16

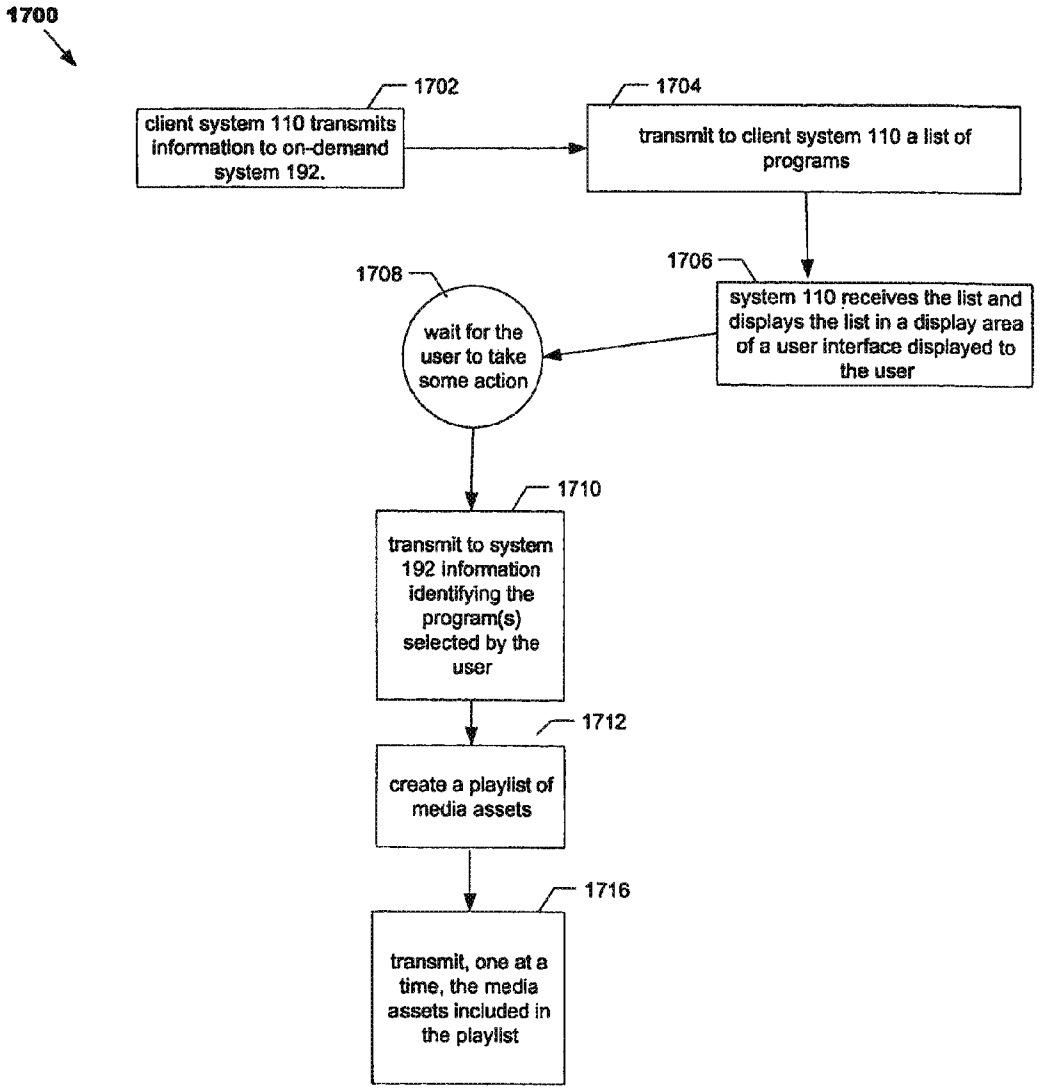
1700
1702
client system 110 transmits information to on-demand system 192.
1704
transmit to client system 110 a list of programs
1706
system 110 receives the list and displays the list in a display area of a user interface displayed to the user
1708
wait for the user to take some action
1710
transmit to system 192 information identifying the program(s) selected by the user
1712
create a playlist of media assets
1716
transmit, one at a time, the media assets included in the playlist

FIG. 17

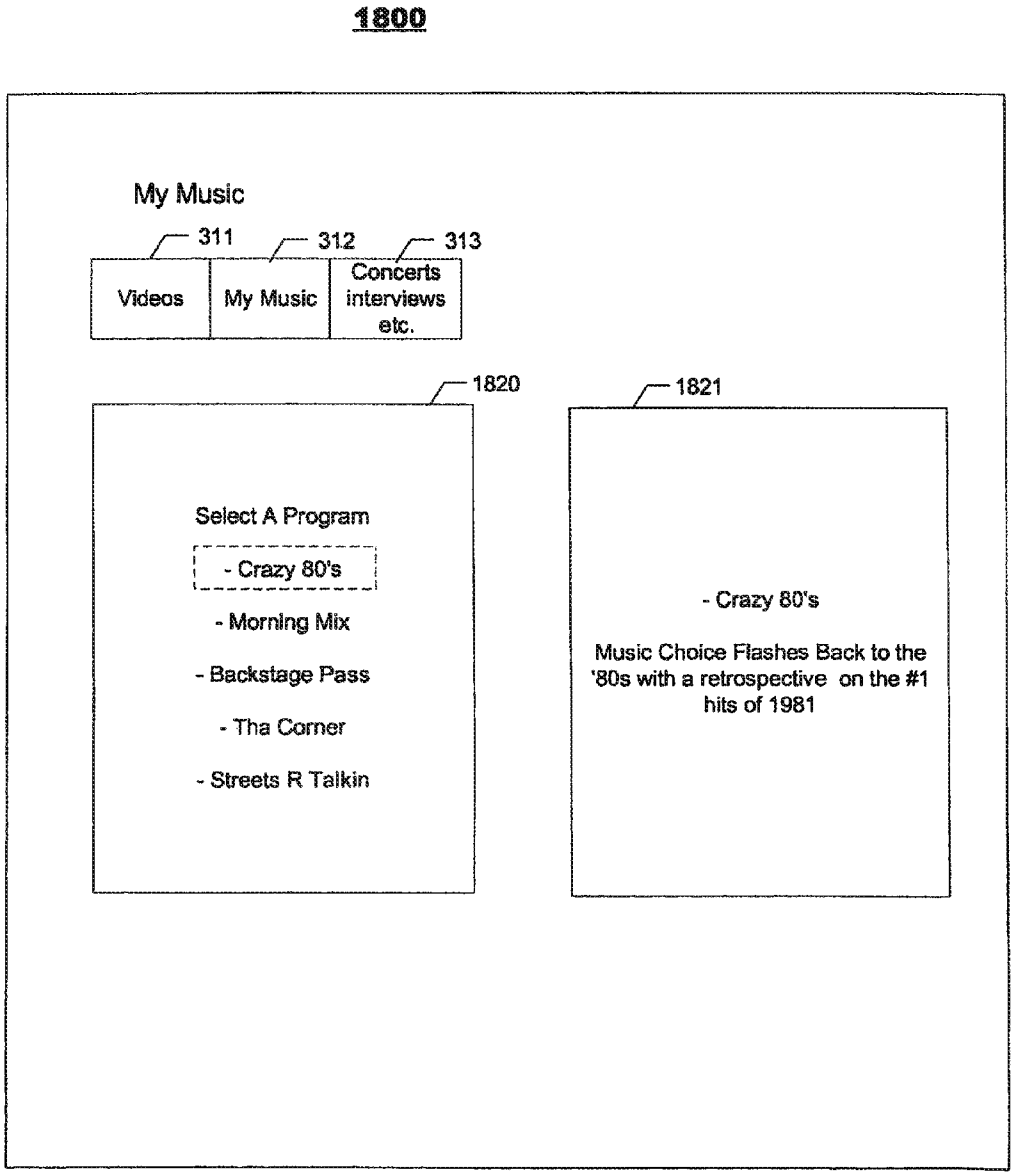
1800
My Music
311
312
313
Videos
My Music
Concerts interviews etc.
1820
1821
Select A Program
- Crazy 80's
- Morning Mix
- Backstage Pass
- Tha Corner
- Streets R Talkin
- Crazy 80's
Music Choice Flashes Back to the '80s with a retrospective on the #1 hits of 1981

FIG. 18

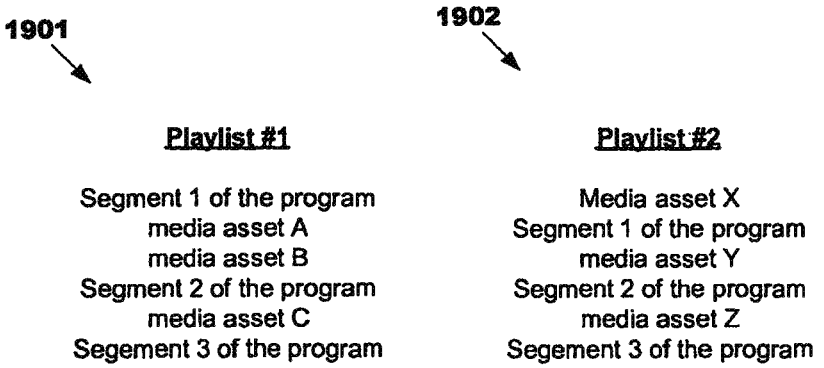
1901
1902
Playlist #1
Segment 1 of the program
media asset A
media asset B
Segment 2 of the program
media asset C
Segement 3 of the program
Playlist #2
Media asset X
Segment 1 of the program
media asset Y
Segment 2 of the program
media asset Z
Segement 3 of the program

FIG. 19

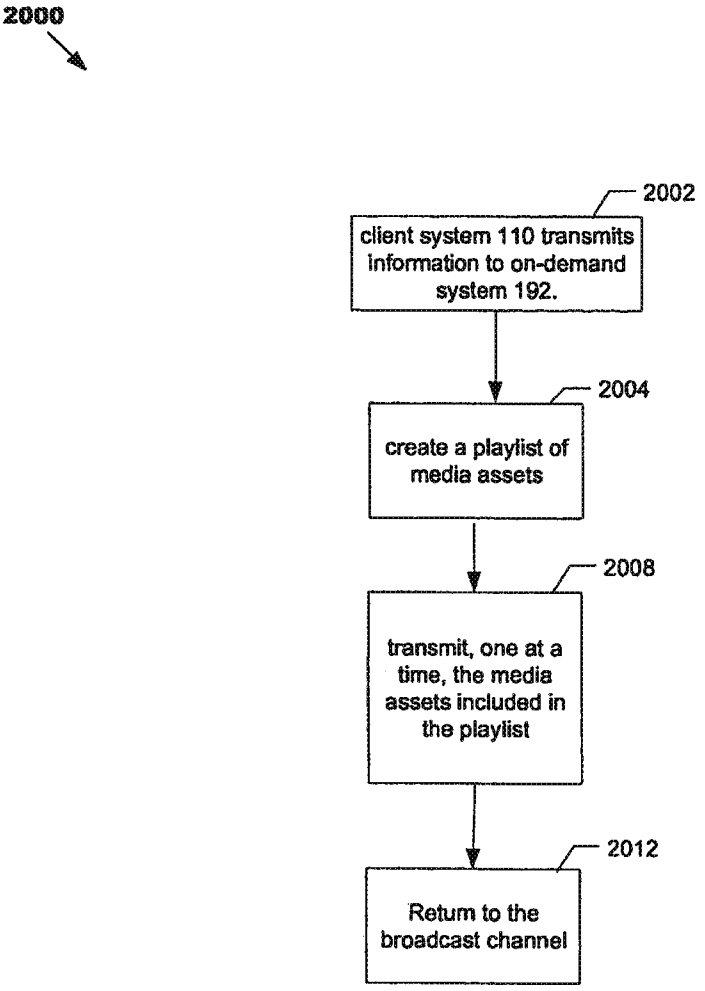
2000
2002
client system 110 transmits information to on-demand system 192.
2004
create a playlist of media assets
2008
transmit, one at a time, the media assets included in the playlist
2012
Return to the broadcast channel

FIG. 20

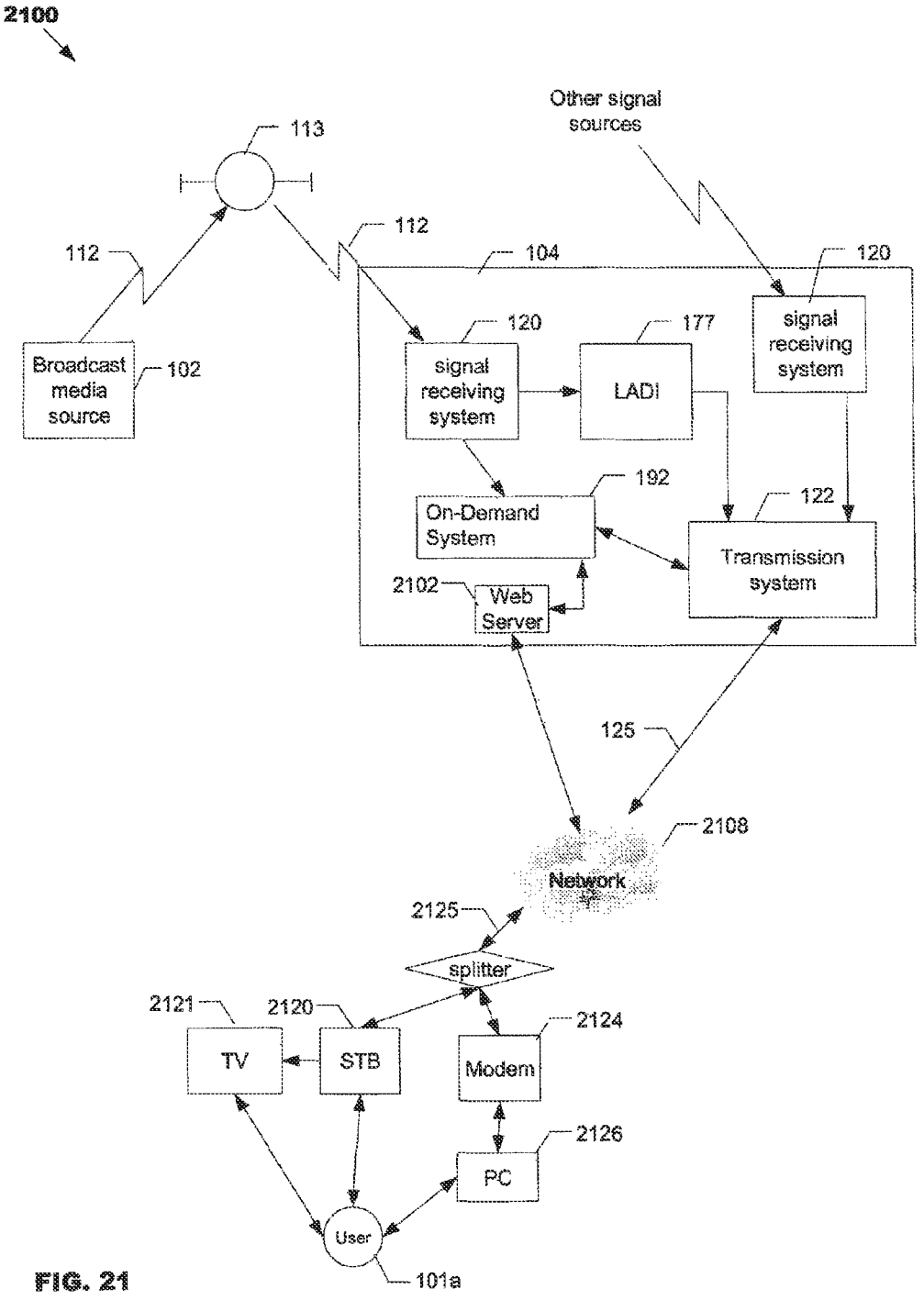
2100
Other signal sources
113
112
112
104
120
120
177
signal receiving system
Broadcast media source
102
signal receiving system
LADI
signal receiving system
192
122
On-Demand System
Transmission system
2102
Web Server
125
2108
Network
2125
splitter
2121
2120
2124
TV
STB
Modem
2126
PC
User
101a

FIG. 21

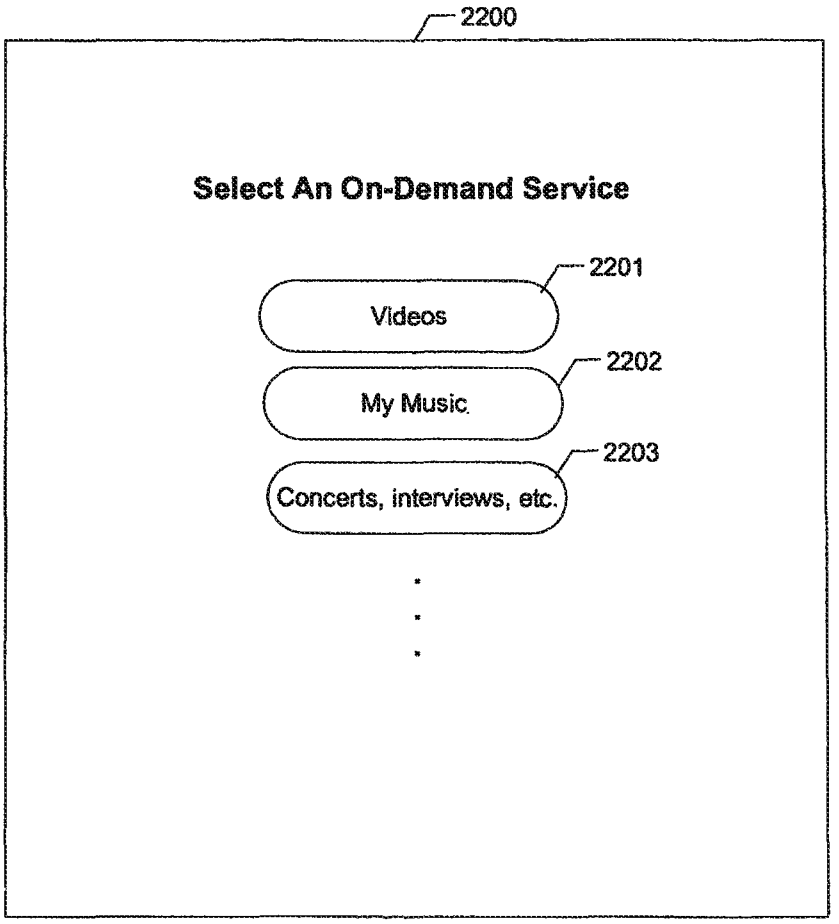
2200
Select An On-Demand Service
2201
Videos
2202
My Music
2203
Concerts, interviews, etc.

FIG. 22

SYSTEMS AND METHODS FOR PROVIDING AN ON-DEMAND ENTERTAINMENT SERVICE

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. patent application Ser. No. 13/157,386, filed Jun. 10, 2011, which is a continuation of U.S. patent application Ser. No. 12/605,580, filed Oct. 26, 2009, which is a continuation of U.S. patent application Ser. No. 11/002,205, filed Dec. 3, 2004 (now U.S. Pat. No. 7,617,295), which: (i) is a continuation-in-part of U.S. patent application Ser. No. 10/339,425, filed on Jan. 9, 2003 (now U.S. Pat. No. 7,325,043), which claims the benefit of U.S. Provisional Patent Application Nos. 60/390,312 (filed Jun. 21, 2002) and 60/395,360 (filed Jul. 12, 2002), (ii) is a continuation-in-part of U.S. patent application Ser. No. 10/098,620, filed Mar. 18, 2002 (now U.S. Pat. No. 7,783,722), and (iii) claims the benefit of U.S. Provisional Patent Application No. 60/612,618, filed Sep. 24, 2004. All of the above referenced applications and patents are incorporated herein by this reference.

BACKGROUND

1. Field of the Invention

This invention is related to entertainment and information system, and, more specifically, to broadcast, on-demand and/or personalized entertainment and information systems.

2. Discussion of the Background

Broadcasters, such as music broadcasters (e.g., conventional radio stations and other broadcasters of music, video or multimedia works) must accommodate the tastes of a mass audience, and, as we all know, it is not possible to please all of the people all of the time; we each have our own unique likes and dislikes. Consequently, a broadcaster at times may broadcast content that one or more members of the audience may not prefer to consume.

One solution to this problem is to increase the number of radio stations and/or the number of cable stations that carry music, and thereby increase the likelihood that a listener will find a station that is playing a "good" song. However, this is not a practical solution because there is only a finite amount of bandwidth available to broadcast music, and this bandwidth is already at or near capacity. Further, it is prohibitively expensive to create additional broadcast bandwidth.

SUMMARY

The present invention provides, among other things, systems and methods for supplementing a broadcast media service with an on-demand and personalized media service. An on-demand media service is a service that enables a user to select the precise content (e.g., music, video or other content) and/or type of content (e.g., genre and sub-genre) that is transmitted by the service provider to the user, when a user desires such content. A personalized media service is a service that allows a user to have at least some degree of control over the content that is transmitted by the service provider to the user.

In one aspect, the present invention provides a system for providing an on-demand, personalized and a broadcast service to a plurality of users. In one embodiment, the system includes: a broadcast media source for broadcasting a signal including plurality of broadcast media channels, wherein each broadcast channel is associated with a format; a distribution center including: a signal receiver system that receives the broadcast signal, an on-demand system, and a transmission system that (a) combines an output from the on-demand system with an output from the signal receiver system to create a combined signal that includes the plurality of broadcast media channels and (b) transmits the combined signal to a plurality of client systems via a distribution network.

Preferably, the client systems are operable to (1) isolate at least one of the channels within the combined signal, (2) provide audio data included in the isolated channel to an audio system that reproduces the audio for a user of the client system to hear, (3) provide video data included in the isolated channel to a video system that displays the video data on a display device for the user to see, (4) provide graphical data included in the isolated channel to a video system that displays the graphical data on a display device for the user to see, (5) display a user selectable button on the display device so that the user selectable button is displayed on the display device together with the video data, and (6) in response to the user of the client system selecting the selectable button, communicate with the on-demand system to initiate an on-demand session.

In some embodiments, in response to the user of the client system selecting the selectable button, the client system transmits information to the on-demand system, and, in response thereto, the on-demand system transmits a list of music videos to the client system.

The client system preferably displays the list of music videos on the display device so that the user is able to select one or more of the listed videos. In response to the user selecting one or more of the listed videos, the client system transmits to the on-demand system information identifying the music videos selected by the user. After receiving the information identifying the music videos selected by the user, the on-demand system creates a playlist of media assets. After creating the playlist, the on-demand system transmits to the client system, one at a time, the media assets included in the playlist. Preferably, for each video selected by the user there is a corresponding media asset in the playlist. Additionally, zero or more of the media assets included in the playlist may include commercial elements, promotional messages, etc.

In other embodiments, in response to the user of the client system selecting the selectable button, the client system transmits to the on-demand system information identifying the user and/or the client system, and, in response thereto, the on-demand system determines whether there is included in a set of channel profiles one or more channel profiles associated with the user and/or the client system.

If there is included in the set of channel profiles one or more channel profiles associated with the user and/or the client system, then the on-demand system may transmit to the client system a list of the one or more channel profiles. The client system may display the list to the user and the user is able to select one of the listed channel profiles. In response to the user selecting a channel profile, the client system may transmit to the on-demand system information identifying the channel profile selected by the user.

After receiving the information identifying the channel profile selected by the user, the on-demand system may select one or more media assets that match the selected channel profile, establish an on-demand session with the client system, and, after establishing the on-demand session, transmit to the client system the selected media asset(s). In some embodiments, the process of selecting additional media assets and then transmitting those assets to the client system may continue for a predetermined or indefinite period of time. In this way, the system may provide a personalized entertain-

ment system. Advantageously, in some embodiments, one or more of the selected media assets include commercial elements, promotional message, etc. For example, a selected media asset may be a short (e.g., 30 second) video advertisement.

In another aspect, the present invention provides a method for providing an on-demand service to a user of a client system having a display. In one embodiment, the method includes the steps of: displaying to the user on the display a user interface comprising a button associated with an on-demand service; in response to the user activating the button, transmitting information to an on-demand system, wherein the information includes information associated with the activated button; receiving at the on-demand system the transmitted information; creating a playlist of media assets after receiving the transmitted information, wherein the playlist includes a first media asset and a second media asset; establishing an on-demand session with the client system after receiving the transmitted information; transmitting from the on-demand system to the client system the first media asset; reproducing the first media asset at the client system; transmitting from the on-demand system to the client system the second media asset after transmitting the first media asset; reproducing the second media asset at the client system; and terminating an on-demand session established with the client system after transmitting the second media asset.

The above and other features and advantages of the present invention, as well as the structure and operation of preferred embodiments of the present invention, are described in detail below with reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings illustrate various embodiments of the present invention and, together with the description, further serve to explain the principles of the invention and to enable a person skilled in the pertinent art to make and use the invention.

FIG. **1** is a block diagram of a system for providing both an on-demand, personalized media service and a broadcast service to a plurality of users.

FIG. **2** is a flow chart illustrating a process.

FIG. **3** illustrates content that may be displayed to a user when the user's client system is tuned to a broadcast music channel.

FIG. **4** illustrates a functional block diagram of one embodiment of on-demand system **192**.

FIG. **5** is a flow chart illustrating a process according to an embodiment of the invention.

FIG. **6** illustrates an example user interface.

FIG. **7** illustrates a process for creating the playlist according to an embodiment of the invention.

FIG. **8** illustrates three sets of scripts.

FIG. **9** illustrates an example user interface.

FIG. **10** illustrates an example user interface.

FIG. **11** is a flow chart illustrating a process according to an embodiment of the invention.

FIGS. **12-16** and **22** illustrate example user interfaces.

FIG. **17** is a flow chart illustrating a process according to an embodiment of the invention.

FIG. **18** illustrates an example user interface.

FIG. **19** illustrates example playlists.

FIG. **20** is a flow chart illustrating a process according to an embodiment of the invention.

FIG. **21** is a block diagram of a system for providing both an on-demand, personalized media service and a broadcast service to a plurality of users.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

FIG. **1** is a block diagram of a system **100** for providing both an on-demand, personalized media service and a broadcast service to users **101***a-n*. System **100** includes one or more broadcast media sources **102** and one or more signal distribution centers **104**. Each distribution center **104** is coupled to a plurality of client systems **110** through a distribution network **108**.

Broadcast media source **102** may broadcast a signal **112** to one or more distribution centers **104**. As shown in FIG. **1**, media source **102** may use a communications satellite **113** to transmit signal **112** to distribution center **104**, but other communication methods may also be used.

Preferably, signal **112** contains several (e.g., about 40) broadcast media channels, with each channel being associated with one or more formats or categories of media. For example if signal **112** contains 40 broadcast music channels, one of the broadcast channels may be associated with the Jazz format while another may be associated with the Alternative Rock genre. A channel includes audio and/or video data. A channel may also include application data, which may include, for example, meta-data, instructions and/or other application data. For example, a broadcast music channel may include an audio data stream corresponding to an audio work (e.g., a song) and associated video data. The video data may include images associated with the song (e.g., an image of the artist who recorded the song). A channel may also include application data.

Distribution center **104** may be, for example, a cable headend. Distribution center **104** may include one or more broadcast signal receiving systems **120** for receiving signals transmitted from broadcast media source **102** as well as other signal sources. Distribution center may also include a transmission system **122** for combining an output of signal receiving systems **120** and on-demand channels outputted by on-demand system **192** to generate a combined signal **125**, which is transmitted to client systems **110** via distribution network **108**. Accordingly, combined signal **125** may contain several broadcast channels as well as several on-demand channels. In other embodiments, transmission system **122** does not combine the output of signal receiving systems **120** and on-demand channels outputted by on-demand system **192** to generate a combined signal **125**, but rather takes the outputs and transmits them to the client systems through the network.

Additionally, distribution center **104** may include a local ad insertion (LADI) system **177** coupled between a signal receiving system **120** and transmission system **122**. The LADI system is described in provisional patent application No. 60/623,246, filed on Nov. 1, 2004, the contents of which is incorporated herein by this reference.

Distribution network **108** may include, for example, various amplifiers, bridges, routers, taps, drop cables, and/or other communications equipment. Additionally, distribution network **108** may include one or more forms of a wireless network.

Client systems **110** are operable to isolate at least one of the channels within combined signal **125** and then provide the audio and video data contained in the channel to an audio/video system **111**, which reproduces the audio/video for a user **101** to hear and/or view. A/V system **111** preferably includes a display device (e.g., a TV or other display device)

for displaying the video portion of the channel. Additionally, systems **110** include a client software application that is operable to display user **101** selectable buttons on the same display system that displays the video data. Although A/V system **111** is illustrated separately from client system **110**, it is contemplated that A/V system **111** may be part of client system **110**.

The client systems **110** may include, for example, a conventional unidirectional or bi-directional set-top box or a computer equipped with, at the least, an interface (e.g., tuner and demodulator) for receiving information sent through distribution network **108**. In another embodiment, the client system **110** may include a computer or similar device which is equipped with an interface (network card or similar) for receiving data packets (e.g., IP packets or other packets) sent through network **108**.

Although FIG. **1** shows that all of the components of media-on-demand system **102** are included within distribution center **104**, this need not be the case as some or all of the components of media-on-demand system **102** may be located remotely from distribution center **104**.

In one embodiment, for at least one broadcast channel, media source **102** performs the process **200** shown in FIG. **2**. Process **200** includes a number of steps. In step **202**, media source **102** accesses a playlist associated with the broadcast channel. In step **204**, media source **102** retrieves from a media library a media asset (e.g., a song or music video) included in the playlist. In step **206**, media source **102** transmits the media asset to the distribution centers **104** (i.e., media asset is included in signal **112**). In step **208**, media source **102** also includes in the signal application data associated with the broadcast channel.

In one embodiment, the media asset retrieved and transmitted by media source **102** contains only audio data, no video data. In this embodiment, media source **102** may create video data to complement the audio data and transmit the video data with the audio data to the distribution centers (systems and methods for creating a visual complement of an audio work are described in U.S. Pat. No. 7,275,256, which is incorporated herein by this reference). Thus, in one embodiment, for a given broadcast channel, media source **102** transmits to the distribution centers **104** audio data corresponding to a song, video data to complement the audio data, and client application data.

Each distribution center **104** may retransmit some or all of this data to a plurality of client systems **110**. The client systems **110** that are tuned to the given broadcast channel provide the audio and video data to A/V system **111**, which reproduces the audio and displays the video on a display device. Additionally, the client application data may instruct the client systems **110** tuned to the given broadcast channel to display user **101** selectable buttons on top of the video output. That is, the client application data may control at least part of the user interface displayed to the user **101**. This feature is illustrated in FIG. **3**.

FIG. **3** illustrates video content and buttons that may be displayed on an A/V system **111** display device when the corresponding client system **110** is tuned to the given broadcast music channel. As shown in FIG. **3**, the video content may include still images **302**, **304** and text **306**, **308**, all of which may be related to the current audio content of the broadcast channel. For example, still image **302** may be an image of the artist who recorded the audio content and text **306** may provide information about the audio content, such as the name of the song, album and artist. As used herein, the term artist is used broadly to mean an individual or a group of individuals (e.g., a rock band or jazz band).

As also shown in FIG. **3**, buttons **311**, **312**, **313** and **314** may be displayed to the user **101**. Button **311** is labeled "videos", button **312** is labeled "my music", and button **313** is labeled "concerts, interviews, etc." A user **101** who wishes to watch one or more specific videos can do so by activating button **311**, a user **101** who wishes to listen to a personalized audio channel can do so by activating button **311**, and a user **101** who wishes to view/listen to other content (e.g., pre-recorded concerts, interviews, and other content) can do so by activating button **312**. Although, four buttons are shown in FIG. **3**, it is contemplated that more or fewer buttons may be displayed.

As used herein, the term button includes, without limitation, any selectable display element or well-defined area within an interface that is activated (e.g., "clicked") to select a command, such as, a hyperlink or menu-option, wherein, when the element is activated by the user **101**, the client system **110** may perform some action in response.

In some embodiments, a user **101** can "activate" a button **311-314** using a remote control (not shown) that communicates with client system **110** or using a client system **110** control panel (not shown). For example, the user **101** can press buttons on the remote control or control panel to highlight a button and then after the button is highlighted press a button labeled "ok" to thereby activate the button.

Additionally, in some embodiments, client system **110** may include a remote control having buttons corresponding to user interface buttons **311-314**, such that activating one of the corresponding buttons on the remote control has the same effect as activating the corresponding button **311-314**. For example, the remote control may have a button labeled "videos," and pressing the "videos" button on the remote may have the same effect as activating button **311**.

In response to a user **101** activating button **311**, client system **110** communicates with on-demand system **192** to initiate an on-demand session. For example, client system **110** may transmit to on-demand system **192** information identifying the button activated by the user **101**, information identifying the broadcast channel to which the user **101** device was tuned when the user **101** activated the button, and information identifying the artist of the song that was playing when the user **101** activated the button.

Referring now to FIG. **4**, FIG. **4** illustrates a functional block diagram of one embodiment of on-demand system **192**. As shown in FIG. **4**, on-demand system **192** may include a media server **402**, a media asset selector **404**, a profile management system **405**, a media pump **408**, and a storage system **410** for storing user **101** created profiles **411**, a collection of media assets **412**, meta-data **414**, which may be stored in a database, a collection of scripts **416**, and user **101** data **418**, which also may be stored in a database. Some or all of the media assets **412** may be linked with meta-data **414**. For example, where a given media asset is a music video or song, the given media asset may be linked with meta-data, wherein the meta-data includes information about the music video, such as, the title, artist, genre, director, length, etc.

One or more computer and storage systems may be used to implement on-demand system **192**. For example, one or more computer systems may be used to implement media server **402** while one or more other computer systems may be used to implement media asset selector **404**. The computer systems may be co-located or located in several different facilities. Accordingly, media asset selector **404** and media server **402** may be implemented in software and/or hardware.

In some embodiments, media server **402** is capable of outputting digital data streams at a constant rate to numerous client systems **110** simultaneously. Media server may be

implemented using a conventional video-on-demand ("VOD") or VOD-like server. In some embodiments, client system **110** can buffer data so that media server **402** does not have to transmit at constant rates.

Storage system **410** may include one or more storage devices, such as hard disk drives, CD/DVD drives, and/or other storage devices. The storage devices that make up storage system **410** may or may not be co-located, and each storage device may or may store only one type of information. For example, a first set of one or more storage devices may store media assets **412** and a second set of one or more storage devices may store scripts **416**.

User **101** data **418** may include information about users **101**. That is each user **101** may have associated user **101** data. For example, for each user **101**, the database of user **101** data may include: demographic information about the user **101** (e.g., age, sex, location, income), a list of the most recent (e.g., within the last 4 months) assets requested by the user **101**, a list of the most recent advertisements transmitted to the user **101**, information indicating whether the user **101** selected a predetermined asset a predetermined number of times within a predetermined period, etc.

Referring now to FIG. **5**, FIG. **5** is a flow chart illustrating a process **500**, according to some embodiments, performed after the user **101** activates "videos" button **311**. As mentioned above, a user **101** may activate button **311** if the user **101** wishes to view one or more music videos. Process **500** may begin in step **502**. In step **502**, client system **110** transmits information to on-demand system **192**. The information may include: (a) information identifying the channel to which client system **110** was tuned when the user **101** activated button **110**, (b) information indicating that the user **101** activated button **311**, and (c) information identifying the artist of the song that was playing when the user **101** activated the button.

In step **504**, on-demand system **192** transmits to client system **110** a list of the artist's music videos that are included in the media asset collection **412**. For example, the user **101** may have selected button **311** at a point in time when the user **101** was tuned to a broadcast music channel that was playing a song by the artist U2, in which case, on-demand system **192** would transmit to client system **110** a list of zero or more of U2's music videos. Preferably, on-demand system **192** does not include in the list the titles of any videos that are not included in media asset collection **412**.

In step **506**, client system **110** receives the list and displays the list in a display area of a user interface displayed to the user **101**. The user interface includes selectable buttons. FIG. **6** illustrates an exemplary user interface **600** that may be displayed in step **506**.

Referring now to FIG. **6**, user interface **600** includes a display area **620** for displaying the list of music video titles **621** received from on-demand system **192**. User interface **600** also includes buttons **601**-**608**.

In step **508**, client system **110** waits for the user **101** to take some action. For example, the user **101** may select to view one or more of the listed videos. To do this, the user **101** may highlight one or more of the listed video titles and then activate a button on the remote control (not shown) that communicates with client system **110**. If the user **101** selects to view one or more of the listed videos then control may pass to step **510**. In some embodiments, to select more than one video, the user **101** may first have to activate "create playlist" button **607**. In these embodiments, selecting button **607** enables the user **101** to select up to X videos, where X is greater than or equal to 2. In one example, selecting button **607** enables the user **101** to select up to 10 videos. Additionally, in these embodiments, control may not pass to step **510** until the user **101** has indicated that he/she is done selecting videos. A selectable button may be displayed to the user **101** for this purpose. Such a button may be labeled "start playlist" or "done selecting."

In step **510**, client system **110** transmits to on-demand system **192** information identifying the video(s) selected by the user **101**. In step **512**, system **192** creates a playlist of media assets (FIG. **7** illustrates a process for creating the playlist). That is, system **192** determines the media assets that it will transmit to client system **110** in response to receiving from client system **110** the information identifying the video (s) selected by the user **101**. Preferably, the playlist includes the video(s) selected by the user **101** and zero or more other media assets. For example, the playlist may include one or more short advertisements in addition to the video(s) selected by the user **101**.

In step **516**, media server **402** transmits (e.g., by streaming) one at a time the media assets included in the playlist. Preferably, the media assets are transmitted in playlist order. In this way, when a user **101** selects to watch a video, the user **101** may first see a short advertisement, then one of the selected videos, then another short advertisement, etc.

In some embodiments, a user **101** can "link" from a playing asset to another asset. For example, in one embodiment, a user **101** may activate a particular button (on the remote control or displayed on the display screen) while listening to/watching the asset that is being transmitted in step **516**. Activating the particular button may cause client system **110** to transmit to on-demand system **192** a command associated with the activated button. In response to receiving the command, on-demand system **192** may cease transmitting whichever asset is currently being transmitted ("the current asset") and transmit another asset. As a specific example, the particular button may be a "skip" or "next" button, in which case, in response to receiving the command, on-demand system **192** ceases transmitting the current asset and transmits an asset included in the playlist that has not already been transmitted. If the playlist is an ordered list of assets, then on-demand system **192** transmits the asset that follows the asset that was playing when the user **101** activated the button.

Additionally, in some embodiments, activating a particular button may cause client system **110** to transmit to on-demand system **192** an asset identifier associated with an asset. In response to receiving the asset identifier, on-demand system **192** may cease the current asset and transmit the asset identified by the identifier. In this way, the user **101** can link from one asset that is in the playlist to another asset that may not be in the playlist. For example, the current asset may be a promotion for a newly added video and the asset identifier is an identifier that identifies the new added video. Thus, while the user **101** is watching the promotion, the user **101** can simply just activate a button to see the newly added video that is the subject of the promotion.

Preferably, after the identified asset has been fully transmitted to the client system **110**, on-demand systems resumes playing the playlist. That is, after the identified asset has been fully transmitted, on-demand system **192** transmits an asset included in the playlist that has not already been transmitted. If the playlist is an ordered list of assets, then on-demand system **192** transmits the asset that follows the asset that was playing when the user **101** activated the button.

Referring now to FIG. **7**, FIG. **7** is a flow chart illustrating a process **700** performed by media asset selector **404**, according to one embodiment, for creating a playlist in response to a user **101** selecting one or more videos. Process **500** may begin in step **702**, where media asset selector **404** receives

data indicating the selection(s) made by the user **101** and/or data identifying the user **101** and/or client system **110** (e.g., user **101**-id associated with the user **101** or a device id associated with the client system **110**). Thus, for example, if the user **101** selected one music video, then media asset selector **404** may receive in step **702** data identifying the selected music video. The data may include the name of the music video or a unique code associated with the music video or channel.

In step **704**, media asset selector **404** selects one of the scripts **416**. Scripts **416** instruct media asset selector **404** as to which media assets should be included in the media asset package. On-demand system **192** may include a set of scripts or multiple sets of scripts. Accordingly, in some embodiments, each script has a priority assigned to it. This feature is illustrated in FIG. **8**. FIG. **8** shows three sets of scripts, sets **801**, **802** and **803**. FIG. **8** also shows that each script in each set may be assigned a priority value. For example, scripts **810** and **811** of set **801**, scripts **820** and **821** of set **802**, and script **830** of set **803** are each assigned a priority value of "1" and scripts **812** and **813** of set **801** and scripts **822** and **823** of set **802** are each assigned a priority value of "2". In this example, the lower the priority value, the "higher" the priority. So, scripts **810**, **811**, **820**, **821** and **830** have the "highest" priority.

In some embodiments, in step **704**, media asset selector **404** selects the script having the highest priority (if two or more scripts have the same priority, then the selector may randomly select one of the high priority scripts).

In step **706**, media asset selector **404** interprets the selected script. That is, media asset selector **404** performs actions as instructed by the script. Accordingly, the script includes instructions that instruct media asset selector **404** to take certain actions, such as, for example: performing logical operations, comparing values, retrieving data from a database, writing data to a file, selecting another script to interpret, and selecting certain media assets to include in a playlist. Because a script may instruct media asset selector **404** to include one or more assets in a playlist, a playlist may be partially or fully specified as a result of interpreting the script.

In some embodiments, each script **416** is written in a language similar to Javascript or other well-known scripting languages. Thus, the scripts provide, among other things, looping and decision making control structures (e.g., IF/WHILE statements), thereby enabling a script author to implement detailed and/or complex logic flow in asset selection.

After step **706**, the process may end or may proceed to step **708**. The process may end if, after interpreting the script, a complete playlist is specified. In step **708**, media asset selector **404** selects another script. The script selected in step **708** may be the next highest priority script or a script identified by the first script. That is, the first script may include an instruction instructing media asset selector **404** to next select and interpret a specific script. After step **708**, the process returns to step **706**.

Because the media assets to be included in a playlist are selected based on one or more scripts, the selector system **404** is highly flexible and easy to maintain.

Referring back to FIG. **6**, buttons **601**-**608** enable a user **101** to find the video(s) the user **101** would like to watch. For example, if the user **101** is interested in selecting a newly added video, the user **101** may select button **602**. In response to user **101** selecting button **602**, client system **110** transmits to on-demand system **192** information indicating that the user **101** activated button **602** (step **520**). In response, on-demand system **192** determines the newly added videos for the currently selected format (step **522**). This information may be stored in a database within system **192**.

In the situations where the user **101** activated videos button **311** when client system **110** was tuned to a particular broadcast music channel, then, initially, the currently selected format is format of that particular broadcast channel. So, for example, if the user **101** had client system **110** tuned to the "R&B and Hip-Hop" broadcast music channel when the user **101** activated button **311**, then, until changed by the user **101**, the currently selected format is "R&B and Hip-Hop." The user **101** can change the selected format by activating the "change format button" **608** and selecting a new format. Additionally, the user **101** can select button **606** to select all formats. By selecting "all formats" button **606**, the user **101** is given the option to select videos across all formats of music. In step **526**, on-demand system **192** transmits to client system **110** a list of the newly added videos determined in step **522**. After step **526**, control passes back to step **506**.

If the user **101** is interested in selecting a popular video, the user **101** may select button **603**. In response to user **101** selecting button **603**, client system **110** transmits to on-demand system **192** information indicating that the user **101** activated button **603** (step **528**). In response, on-demand system **192** determines the local top 10 videos for the currently selected format (step **530**). This information may be determined from information stored in a database. Accordingly, on-demand system **192** may record all user **101** video selections so that the popular videos can be determined. In step **531**, on-demand system **192** transmits to client system **110** a list of the videos determined in step **530**. After step **531**, control passes back to step **506**.

If the user **101** is interested in selecting a video from a particular sub-category of the currently selected format, the user **101** may activate button **604**. In response to user **101** selecting button **604**, client system **110** transmits to on-demand system **192** information indicating that the user **101** activated button **604** (step **532**). In response, on-demand system **192** transmits to client system **110** a list of the sub-categories of the current format (step **534**). Client system **110** displays the list of sub-categories to the user **101** so that the user **101** can select a sub-category (step **536**) (see FIG. **9**). In response to a user **101** selecting a sub-category, client system **110** transmits to on-demand system **192** information indicating the sub-category selected by the user **101** (step **538**). In response, on-demand system **192** transmits to client system **110** a list of videos associated with the selected sub-category (step **540**). After step **540**, control passes back to step **506**.

If the user **101** is interested in selecting a video from a particular artist associated with the currently selected format, the user **101** may activate button **605**. In response to user **101** selecting button **605**, client system **110** transmits to on-demand system **192** information indicating that the user **101** activated button **605** (step **542**). In response, on-demand system **192** transmits to client system **110** a list of the artists associated with the current format (step **544**) (if the user **101** had selected button **606**—all formats—followed by button **605**, then the list will include artists associated with all formats). Client system **110** displays the list of artists to the user **101** so that the user **101** can select an artist (step **546**) (see FIG. **10**). In response to a user **101** selecting an artist, client system **110** transmits to on-demand system **192** information indicating the artist selected by the user **101** (step **548**). In response, on-demand system **192** transmits to client system **110** a list of videos associated with the artist (step **550**). After step **550**, control passes back to step **506**.

Referring back to FIG. **3**, a user **101** who wishes to initiate a personalized on-demand session (i.e., a "personalized chan-

nel") can do so by activating button **312**. A "personalized channel" may be an audio channel, a video channel or in some embodiments, a combination of audio and video channels. Referring now to FIG. **11**, FIG. **11** is a flow chart illustrating a process **1100**, according to some embodiments, performed in response to a user **101** activating button **312**, which is displayed on a display device of or connected to client system **110**.

Process **1100** may begin in step **1102**, where a determination is made as to whether on-demand system **192** has any personalized channel profiles **411** associated the user **101**'s client system **110** or with the user **101**. If on-demand system **192** does not have any such personalized channel profiles **411**, control may pass to step **1132**, otherwise control may pass to step **1104**.

In step **1104**, on-demand system **192** determines the names of the personalized channel profiles associated with the user **101** or the user **101**'s client system **110**. In step **1106**, on-demand system **192** transmits to client system **110** the list of determined names. In step **1107**, client system **110** displays the names of the personalized channels in a user interface that is displayed on the display device.

FIG. **12** illustrates an exemplary user interface **1200** that may be displayed in step **1108**. As shown in FIG. **12**, the names of several personalized video channel profiles are listed in one display area **1202** and the names of several personalized audio channel profiles are listed in another display area **1204**. Also displayed to the user **101** are menu-options **1211-1214**.

In step **1108**, client system **110** waits for the user **101** to take some action. At this point, the user **101** has several options. The user **101** may elect to play, create, modify and delete one of the channel profiles (or simply "channel" for short). To play, modify or delete one of the channels, the user **101** may highlight the name of the channel the user **101** wants to play, modify or delete, and then activate the appropriate button **1211-1214** by using a remote control interfaced with client system **110**, as is well known in the art.

If the user **101** elects to play one of the listed channels then control may pass to step **1110**. In step **1110**, client system **110** transmits to on-demand system **192** information identifying the channel selected by the user **101** and information indicating that the user **101** desires "play" the channel profile. For example, the information may include the name of the channel or an identifier uniquely associated with the channel and a "play" command.

In step **1112**, system **192** retrieves the identified channel profile, and, in step **1113**, creates a playlist of one or more media assets based, at least in part, on the contents of the selected channel profile. That is, on-demand system selects one or more media assets based, at least in part, on the channel profile. As discussed above, on-demand system may interpret one or more scripts to create the playlist. Accordingly, in some embodiments, on-demand system **192** may include a script for creating playlists based on channel profiles. Preferably, the playlist created in step **1113** includes a work or works that match the profile selected by the user **101**. In this way, the playlist will likely include works that the user **101** will enjoy. Additionally, the playlist may include or consist of one or more short advertisements (e.g., a promotional message).

In step **1116**, media server **402** transmits (e.g., by streaming) one at a time the media assets included in the playlist. Preferably, the media assets are transmitted in playlist order. In step **1118**, on-demand system adds additional media assets to the play list if necessary. Additional media assets may need to be added to the playlist if the end of the play list is approaching. On-demand system **192** may approach the end of the playlist if, within a certain amount of time from initiating the personalized session, the user **101** does not indicate to client system **110** that the user **101** wishes to terminate the personalized session. This amount of time, of course, depends on the length of the playlist.

If the user **101** elects to delete one of the listed channel profiles, then control may pass to step **1122**. In step **1122**, client system **110** transmits to on-demand system **192** information identifying the channel profile selected by the user **101** and information indicating that the user **101** desires to delete the channel profile. In step **1124**, on-demand system deletes the profile.

If the user **101** elects to modify one of the listed channel profiles, then control may pass to step **1126**. In step **1126**, client system **110** transmits to on-demand system **192** information identifying the channel profile selected by the user **101** and information indicating that the user **101** desires to modify the channel profile. In step **1128**, on-demand system enables the user **101** to modify the profile by, for example, adding formats to the profile or removing formats from the profile.

If the user **101** elects to create a new personalized channel, then control may pass to step **1130**. In step **1130**, client system **110** transmits to on-demand system **192** information indicating that the user **101** desires to create a new channel profile. In step **1132**, on-demand system **192** transmits to client system **110** a list of music formats. In step **1134**, client system **110** receives the list and displays the list in a display area of a user interface displayed to the user **101**.

FIG. **13** illustrates an exemplary user interface **1300** that may be displayed in step **1134**. As shown in FIG. **13**, the names of several music formats are listed in a display area **1302**.

In step **1136**, the user **101** elects whether he/she wants to create a video channel profile or an audio channel profile. To select a video channel profile, the user **101** would, of course, activate videos button **1311**, and to select an audio channel profile, the user **101** would activate audio button **1312**.

In step **1138**, the user **101** selects the format(s) that he/she would like to include in the profile and then selects the "continue" button **1313**. For example, the user **101** may wish to create a channel profile that includes the "Classic R&B", "Gospel" and "R&B" Hip Hop" formats. In response to the user **101** selecting a format(s) and activating button **1313**, client system **110** may transmit to on-demand system **192** information indicating the format(s) selected by the user **101** (step **1140**). In step **1142**, on-demand system **192** may transmit to client system **110** a list of sub-categories for each format selected by the user **101** and client system displays the list(s) to the user **101**. FIG. **14** illustrates a user interface **1400** that may be displayed in step **1142**. User interface **1400** enables the user **101** to select one or more sub-categories for each category of music selected in step **1138**. When the user **101** is finished selecting the sub-categories the user **101** may activate continue button **1413**.

In step **1144**, client system **110** displays to the user **101** a user interface that enables the user **101** to set the mix for the channel. That is, it enables the user **101** give a weight to each format selected in step **1138**. FIG. **15** illustrates a user interface **1500** that may be displayed in step **1144**. When the user **101** is finished setting the mix for the channel, the user **101** may activate continue button **1513**.

In step **1146**, client system **110** displays to the user **101** a user interface that enables the user **101** to set a name for the channel. FIG. **16** illustrates a user interface **1600** that may be displayed in step **1148**. As shown in FIG. **16**, the user inter-

face includes a keypad **1602**. The user **101** may name a channel by selecting characters (letters, numbers, etc) from keypad **1602** using the remote control. When the user **101** is finished setting the name for the channel, the user **101** may activate continue button **1613**. After step **1146**, control may pass back to step **1107** or to step **1113**.

Referring back to FIG. **3**, a user **101** who wishes to watch a previously recorded program can do so by activating button **313**. Referring now to FIG. **17**, FIG. **17** is a flow chart illustrating a process **1700**, according to some embodiments, performed in response to a user **101** activating button **313**. Process **1700** may begin in step **1702**. In step **1702**, client system **110** transmits information to on-demand system **192**. The information may include information indicating that the user **101** activated button **313**.

In step **1704**, on-demand system **192** transmits to client system **110** a list of pre-recorded programs that are included in the media asset collection **412**. The pre-recorded programs may included pre-recorded concerts, interviews, other music related programs, etc. Along with the set of program titles, on-demand system **192** may also transmit to client system **110** information regarding each program, such as a short description of the program.

In step **1706**, client system **110** receives the set of program titles and displays the them in a display area of a user interface displayed to the user **101**. FIG. **18** illustrates an exemplary user interface **1800** that may be displayed in step **1706**. Referring now to FIG. **18**, user interface **1800** includes a display area **1820** for displaying the list of program titles received from on-demand system **192**.

In step **1708**, client system **110** waits for the user **101** to take some action. For example, the user **101** may select to view one or more of the listed programs. To do this, the user **101** may highlight one or more of the listed program titles and then activate a button on a remote control (not shown) that communicates with client system **110**. In response to the user **101** highlighting one of the displayed program titles, client system **110** may display in a display area **1821** of user interface **1800** information pertaining to the selected program, such as a short description of the program. If the user **101** selects to view one or more of the listed programs then control may pass to step **1710**.

In step **1710**, client system **110** transmits to on-demand system **192** information identifying the program(s) selected by the user **101**. In step **1712**, system **192** creates a playlist of media assets (FIG. **7** illustrates a process for creating the playlist). That is, system **192** determines the media assets that it will transmit to client system **110** in response to receiving from client system **110** the information identifying the program(s) selected by the user **101**. Preferably, the playlist includes the program(s) selected by the user **101** and one or more other media assets. For example, the playlist may include one or more short advertisements in addition to the program(s) selected by the user **101**.

In some embodiments, a program may be divided into two or more segments. Each segment may be media asset. In these embodiments, on-demand system **192** may create a playlist wherein an advertisement(s) or other media asset(s) is/are positioned between two segments of the program. The advertisement or other media asset may be selected based on one or more criteria. As an example, advertisements can be selected based on the broadcast channel to which the user **101**'s client system was last tuned. Additionally, information about the user **101** can influence the selection of an advertisement. Such information about the user **101**, which may be stored, in user **101** data **418**, includes the user **101**'s age, sex, location, listening/viewing history and advertisements the user **101** has already seen.

Thus, in many embodiments, if two different users select the same program, at the same time or at different times, on-demand system **192** may create one playlist for the first user **101** and a different playlist for the second user **101**, where the first playlist is tailored to the first user **101** and the second playlist is tailored to the second user **101**. So, even if two users select the same program, the users may have a different viewing experience. As a specific example, if the first user **101** is under the age of 20 and the second user **101** if over the age of 30, then the advertisements, if any, included in the playlist for the first user **101** may be different than the advertisements, if any, included in the playlist for the second user **101**. This feature is illustrated in FIG. **19**, which shows two exemplary playlists **1901** and **1902**, one for a first user **101** and one for a second user **101**, where both users selected the same program, which program, in this example, was divided into three segments.

In step **1716**, media server **402** transmits (e.g., by streaming) one at a time the media assets included in the playlist. Preferably, the media assets are transmitted in playlist order. In this way, when a user **101** selects to watch a program, the user **101** may first see a short advertisement, then a segment of the selected program, then another short advertisement, etc.

Referring back to FIG. **3**, a user **101** who wishes to hot link from a broadcast audio channel to video-on-demand video can do so by activating button **314**. Although button **314** is shown as a distinct button, in some embodiments, button **314** may simply be a hotspot over display element **302** or **304**, for example.

Referring now to FIG. **20**, FIG. **20** is a flow chart illustrating a process **2000**, according to some embodiments, performed in response to a user **101** activating button **314**.

Process **2000** may begin in step **2002**. In step **2002**, client system **110** transmits information to on-demand system **192**. The information may include information indicating that the user **101** activated button **314**. Preferably, the information also includes a video identifier that identifies a video. Preferably, the identified video is related to the content of the broadcast channel to which client system **110** was tuned when the user **101** activated the button **314**. For example, if the content on the broadcast channel is from Artist X, then the identified video may be a music video from Artist X.

In step **2004**, system **192** creates a playlist of media assets. That is, system **192** determines the media assets that it will transmit to client system **110** in response to receiving from client system **110** the music video identifier. Preferably, the playlist includes the identified video and zero or more other media assets. For example, the playlist may include one or more short advertisements in addition to the identified video.

In step **2008**, media server **402** transmits (e.g., by streaming) one at a time the media assets included in the playlist. Preferably, the media assets are transmitted in playlist order. In step **2012**, the client system **110** returns (i.e., tunes) to the broadcast channel to which it was tuned when the user **101** activated button **314**.

In some embodiments, it is not necessary for a user **101** to first configure client system **110** to "tune" to a broadcast media channel before user **101** can enjoy the services of on-demand system **192**. For example, in some embodiments, user **101** can cause client system **110** to communicate with on-demand system **192** at any time by, for example, activating a pre-defined button on the remote control or control panel.

For example, the user **101** may at any time cause client system **110** to send a message to on-demand system indicat-

ing that the user **101** would like to see a menu of on-demand services. In response, on-demand system **192** may respond by transmitting to client system **110** information regarding the available on-demand services.

Client system **110** may then display a user interface **2200** (see FIG. **22**) that enables user **101** to select one of the available on-demand services. User interface may include buttons that when activated cause the same or substantially the same effect as activating buttons **311-314**. For example, user interface **2200** may include a button **2201**, which is labeled "videos", a button **2202**, which is labeled "MyMusic," and a button **2203**, which is labeled "concerts, interviews, etc."

After a user activates the "videos" button **2201**, client system **110** may display to user **101** user interface **600**, wherein a list of music formats (e.g., rock, alternative, jazz, etc.) is displayed in display area **620**. Client system **110** enables user to select one of the listed formats. After the user **101** selects a format, client system **110** may communicate the selection to on-demand system **192** and subsequently receive from on-demand system **192** a list of artists associated with the format (see step **544** of process **500**). That is, process **500** may be performed at this point beginning with step **544**. After the user activates the "MyMusic" button **2202**, process **1100** may be performed. Similarly, after the user activates button **2203** process **1700** may be performed.

Referring now to FIG. **21**, FIG. **21** illustrates another embodiment of the present invention. FIG. **21** is a block diagram of a system **2100** for providing both an on-demand, personalized media service and a broadcast service to users **101**. System **2100** includes many of the same components as system **100**. In system **2100**, user **101** interacts with a set-top-box (STB) **2120** coupled to a conventional television (TV). STB **2120** has the functionality of client system **110** described above.

User **101** also interacts with a personal computer (PC) **2126**, which is coupled to a modem **2124**, which may be a conventional cable modem. As used herein, the term "personal computer" should be construed broadly to include any computing system capable of executing application software, such as a web browser or a media player or other applications. Preferably modem **2124** and STB **2120** share a cable **2125** to connect to network **2108**, which may be a cable-tv (CATV) network. In this embodiment, user **101** can have personalized channels transmitted to either of STB **2120** and PC **2126**.

PC **2126** preferably includes a web browser program and media player. The web browser and media player may communicate with a web server **2102**. For example, in response to a user **101** action, the web browser or media player may send a request to web server **2102**. In response, web server **2102** may determine the personalized channel profiles **411** that are associated with the user **101** and transmit the names of the personalized channels to PC **2126**, which then displays the names on a display device of the PC. The user **101** can then select one the personalized channels. In response, PC **2126** transmits the selection to web server **2120**. On-demand system **192** will then start streaming to PC **2126** media based on the channel selected by the user **101**. Accordingly, the same channel profile **411** can be used to stream personalized media to STB **2120** or PC **2126**.

While various embodiments/variations of the present invention have been described above, it should be understood that they have been presented by way of example only, and not limitation. Thus, the breadth and scope of the present invention should not be limited by any of the above-described exemplary embodiments, but should be defined only in accordance with the following claims and their equivalents.

Additionally, while the processes described above and illustrated in the drawings are shown as a sequence of steps, this was done solely for the sake of illustration. Accordingly, unless indicated otherwise, the steps need not be performed in the order shown. Further, it is contemplated that some steps may be added and other steps omitted.

The invention claimed is:

1. A system for providing an on-demand, personalized media service and a broadcast service to a set-top-box, comprising:

a distribution network, wherein the set-top-box is connected to the distribution network; and

a distribution system including a transmission system operable to transmit via the distribution network a media channel comprising a stream of audio and video data, wherein

the set-top-box is operable to:

(1) receive the media channel via the distribution network,

(2) reproduce the stream of audio data included in the received media channel for a user of the client system to hear,

(3) display video corresponding to the stream of video data included in the received media channel on a display device for the user to see,

(4) receive via the distribution network video identifier information comprising an identifier for identifying an available on-demand video while displaying on the display device the video corresponding to the stream of video data included in the received media channel,

(5) display a user selectable element for requesting the available on-demand video on the display device so that the user selectable element is displayed on the display device together with at least a portion of the video corresponding to the stream of video data as a result of receiving the video identifier information transmitted to the set-top-box using the distribution network, the user selectable element being associated with the available on-demand video, and

(6) in response to the user of the set-top-box selecting the user selectable element, causing an on-demand video system to transmit to the set-top-box the available on-demand video by transmitting to the on-demand video system an on-demand request message.

2. The system of claim **1**, wherein the on-demand request message includes information identifying the on-demand video.

3. The system of claim **1**, wherein the audio data is associated with an artist and music format, and the meta information comprises information for identifying the artist and/or music format.

4. The system of claim **1**, wherein the user selectable element is a distinct button.

5. The system of claim **1**, wherein the on-demand system is configured such that, in response to receiving the on-demand request message, the on-demand system transmits not only the on-demand video, but also transmits another video to the set-top-box.

6. A method for providing an on-demand service to a user of a set-top-box, comprising:

receiving at the set-top-box via a cable connected to a network a media channel comprising a stream of audio and video data;

the set-top-box displaying on a display device video corresponding to the video data stream;

while displaying said video, the set-top-box receiving video identifier information transmitted via the cable

connected to the network, said video identifier information comprising an identifier for identifying an available on-demand video;

the set top box displaying on the display device, as a result of receiving said video identifier information, a user selectable element for requesting the available on-demand video while also displaying video corresponding to the video data stream so that the user can see the user selectable element while also seeing the displayed video corresponding to the video data stream, the user selectable element being associated with the available on-demand video;

the set-top-box detecting that the user has selected the selectable element for requesting the available on-demand video; and

in response detecting that the user has selected the selectable element, the set-top-box causing an on-demand video system to transmit to the set-top-box the available on-demand video, wherein causing the on-demand video system to transmit to the set-top-box the available on-demand video comprises the set-top-box transmitting to the on-demand video system an on-demand request message configured to cause the on-demand video system to transmit to the set-top-box the available on-demand video.

7. The method of claim **6**, wherein the media channel is a digital music channel.

8. The method of claim **6**, wherein the audio data is associated with an artist and music format, and the meta information comprises information for identifying the artist and/or music format.

9. The method of claim **6**, further comprising:

selecting another video; and

transmitting the another video to the client system as part of the on-demand session in response to receiving the message transmitted from the client system, wherein

the step of selecting the another video comprises interpreting one or more scripts, and

the another selected video is selected based, at least in part, on a profile associated with the user.

10. The method of claim **6**, further comprising:

causing the client system to display a second selectable element;

providing information to the client system that causes the client system to transmit to the on-demand system information indicating that the second element was selected in response to the user selecting the second element; and

after the on-demand system receives the information indicating that the second element was selected, transmitting from the on-demand system to the client system information identifying a set of videos, wherein

each video in said set is associated with a format associated with the broadcast media channel isolated by the client system when the user selected the second element.

11. The method of claim **6**, further comprising:

causing the client system to display a second selectable element;

providing information to the client system that causes the client system to transmit to the on-demand system information indicating that the second element was selected in response to the user selecting the second element; and

after the on-demand system receives the information indicating that the second element was selected, transmitting from the on-demand system to the client system information identifying a set of popular music videos within an area in which the client system is located.

12. The method of claim **6**, further comprising:

causing the client system to display a second selectable element;

providing information to the client system that causes the client system to transmit to the on-demand system information indicating that the second element was selected in response to the user selecting the second element; and

after the on-demand system receives the information indicating that the second element was selected, transmitting from the on-demand system to the client system information identifying a set of sub-categories associated with a format associated with the broadcast media channel isolated by the client system when the user selected the second element.

13. The method of claim **6**, further comprising the steps of:

providing information to the client system that causes the client system to transmit to the on-demand system information identifying the user and/or the client system in response to the user selecting the user selectable element; and

after receiving the information identifying the user and/or the client system, determining whether there is included in a set of channel profiles one or more channel profiles associated with the user and/or the client system.

14. A method for providing an on-demand service to a user of a set-top-box, comprising:

receiving at the set-top-box via a cable connected to a network a media channel comprising a stream of audio and video data;

the set-top-box displaying on a display device video corresponding to the video data stream;

while displaying said video, the set-top-box receiving on-demand video information transmitted via the cable connected to the network;

the set top box displaying on the display device, as a result of receiving the on-demand video information, a user selectable element for requesting information identifying a set of available on-demand videos while also displaying the video corresponding to the video data stream so that the user can see the user selectable element while also seeing the displayed video corresponding to the video data stream, the user selectable element being associated with the set of available on-demand videos;

in response to the user of the client system selecting the user selectable element, the set-top-box transmitting to an on-demand system an on-demand request message for causing the on-demand system to transmit to the set-top-box the information identifying the set of available on-demand videos;

the set-top-box receiving displaying a menu of the available on-demand videos as a result of receiving the information.

15. The method of claim **14**, further comprising:

in response to the user selecting one of the available on-demand videos identified in the menu, the set-top-box transmitting to an on-demand video system a second on-demand request message for causing the on-demand video system to transmit to the set-top-box the selected available on-demand video.

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