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Debois et al.

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(54) **SYSTEM AND METHOD OF AD DELIVERY**

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(52) **U.S. Cl.**

CPC **H04N 21/4755** (2013.01); **G06Q 30/02** (2013.01); **G06Q 30/0254** (2013.01); **G06Q 30/0273** (2013.01); **H04N 21/25891** (2013.01); **H04N 21/435** (2013.01); **H04N 21/4331** (2013.01); **H04N 21/44** (2013.01); **H04N 21/44016** (2013.01); **H04N 21/44222** (2013.01); **H04N 21/45** (2013.01); **H04N 21/4532** (2013.01); **H04N 21/6408** (2013.01); **H04N 21/812** (2013.01)

(58) **Field of Classification Search**

None
See application file for complete search history.

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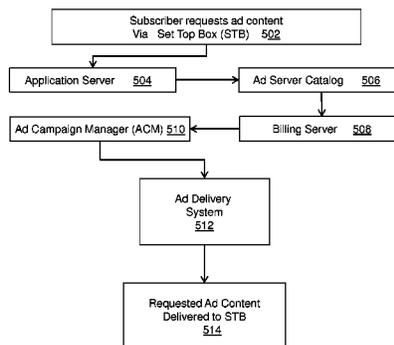
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(57) **ABSTRACT**

A system that incorporates teachings of the present disclosure may include, for example, a device having a controller programmed to store a subscriber selectable preference for advertisements used for selecting advertisements to send to a set top box and receive a signal from a broadcast stream indicating the location for insertion of an advertisement based on the subscriber selectable preference. Other embodiments are disclosed.

17 Claims, 6 Drawing Sheets



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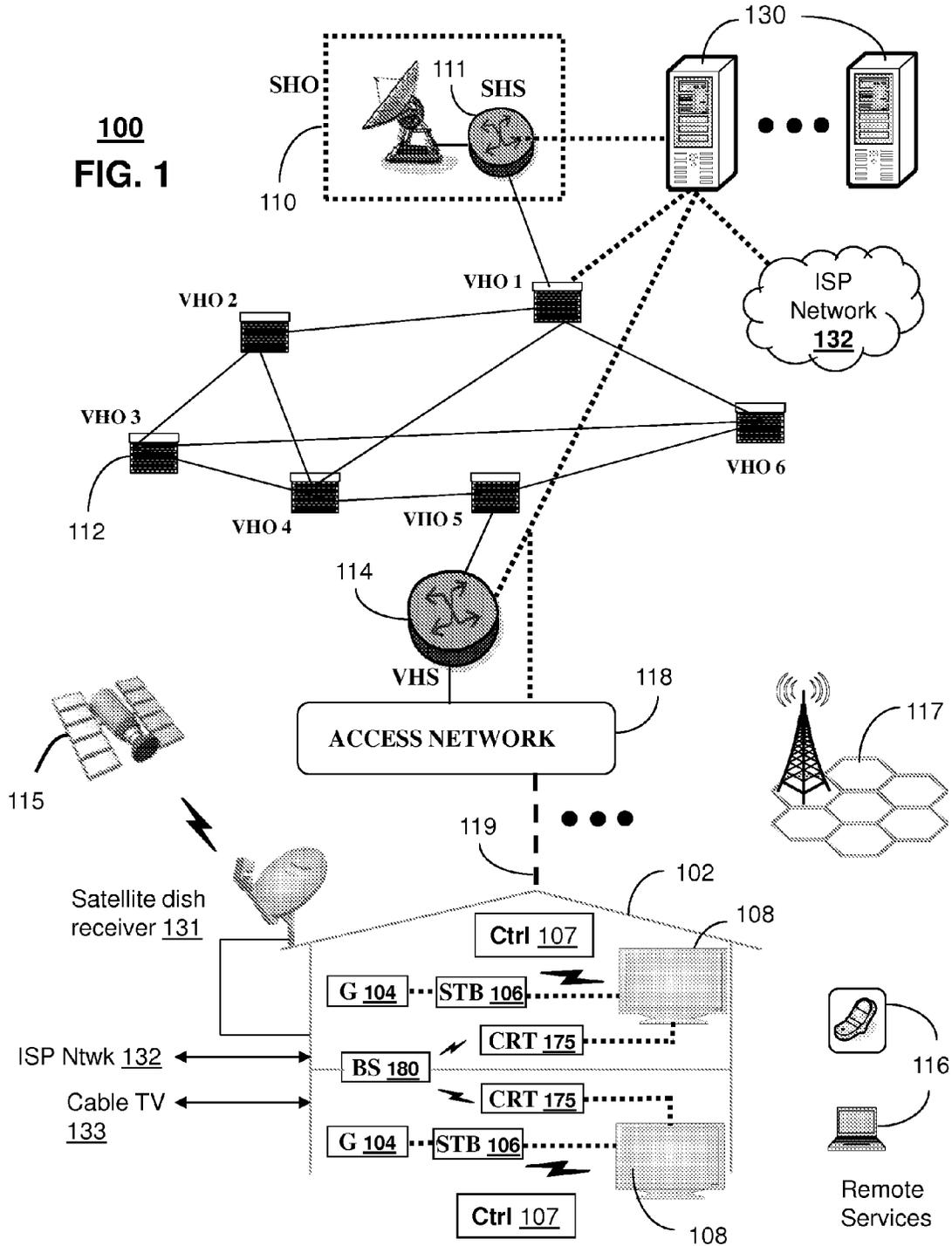
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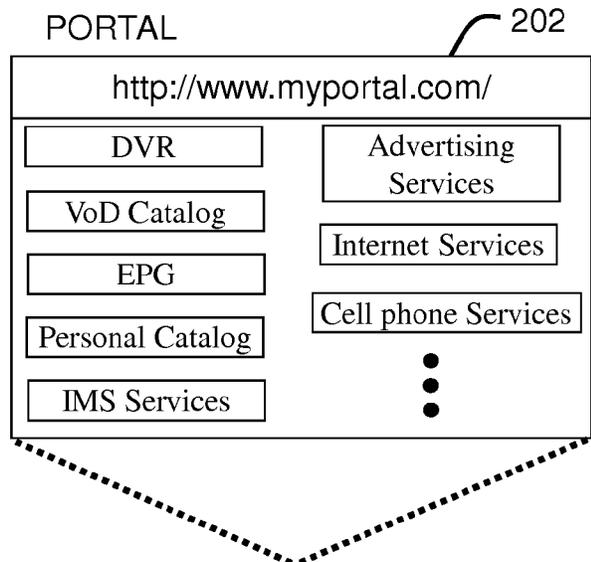
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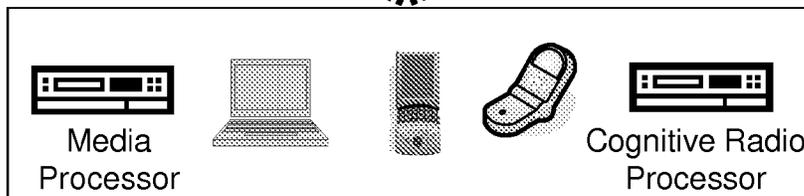
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100
FIG. 1

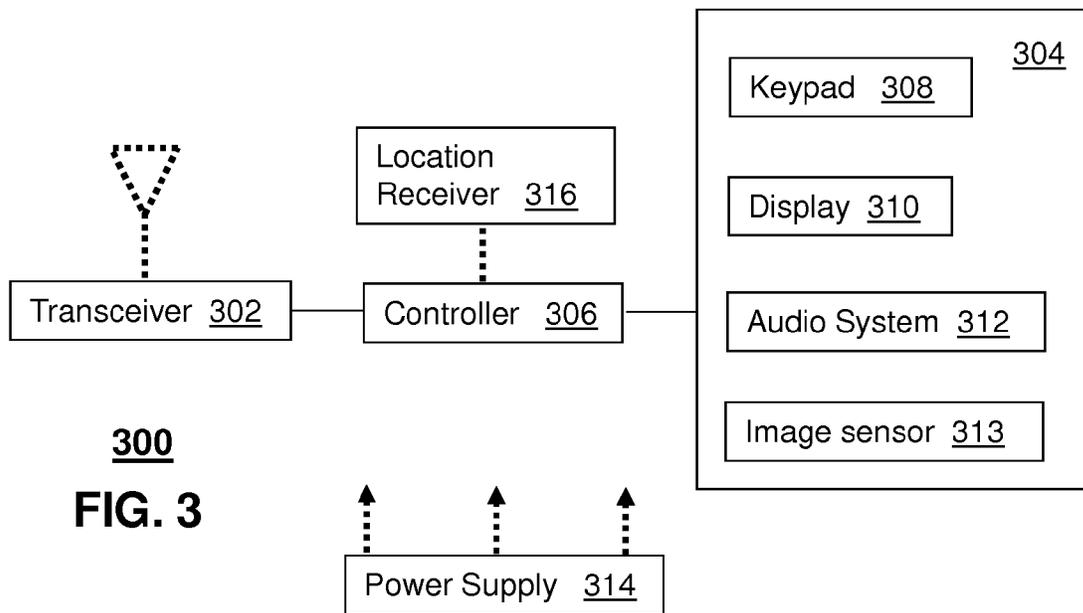




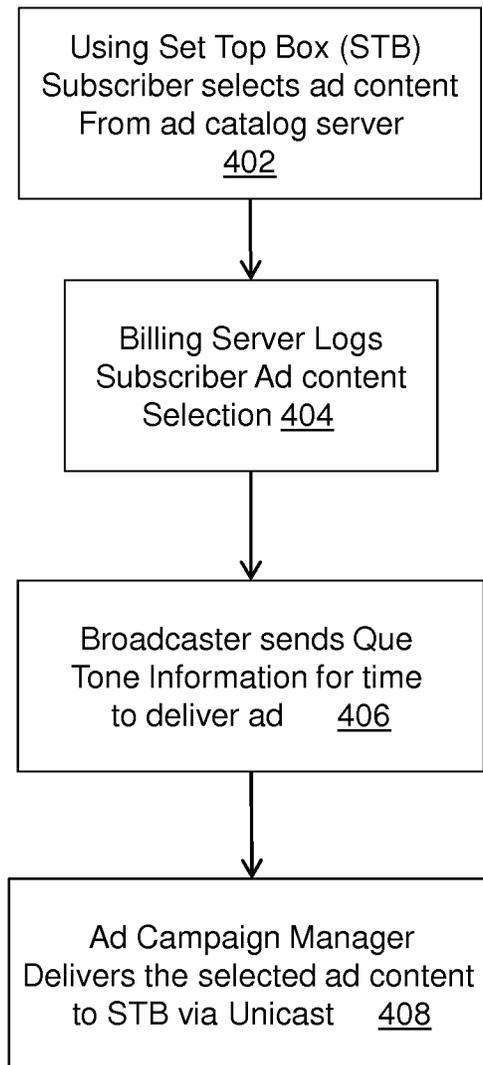
200
FIG. 2



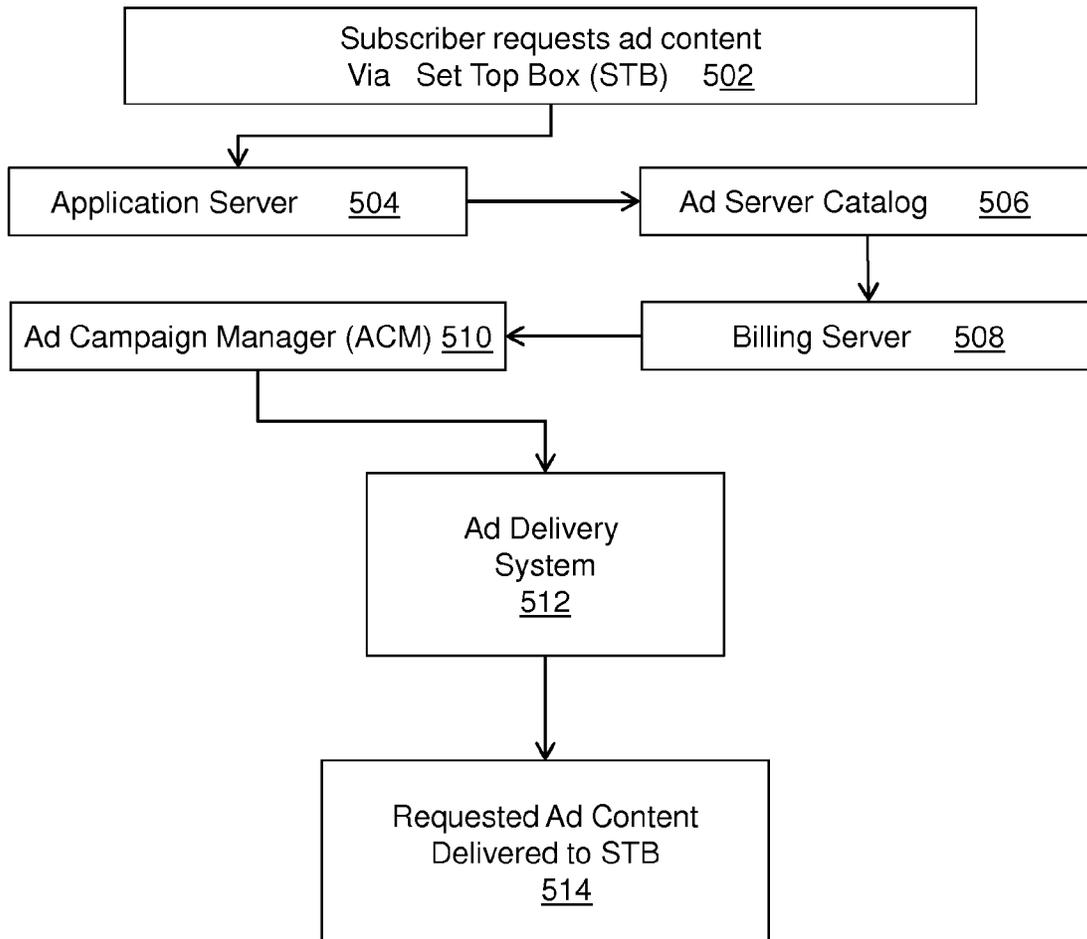
Communication Devices



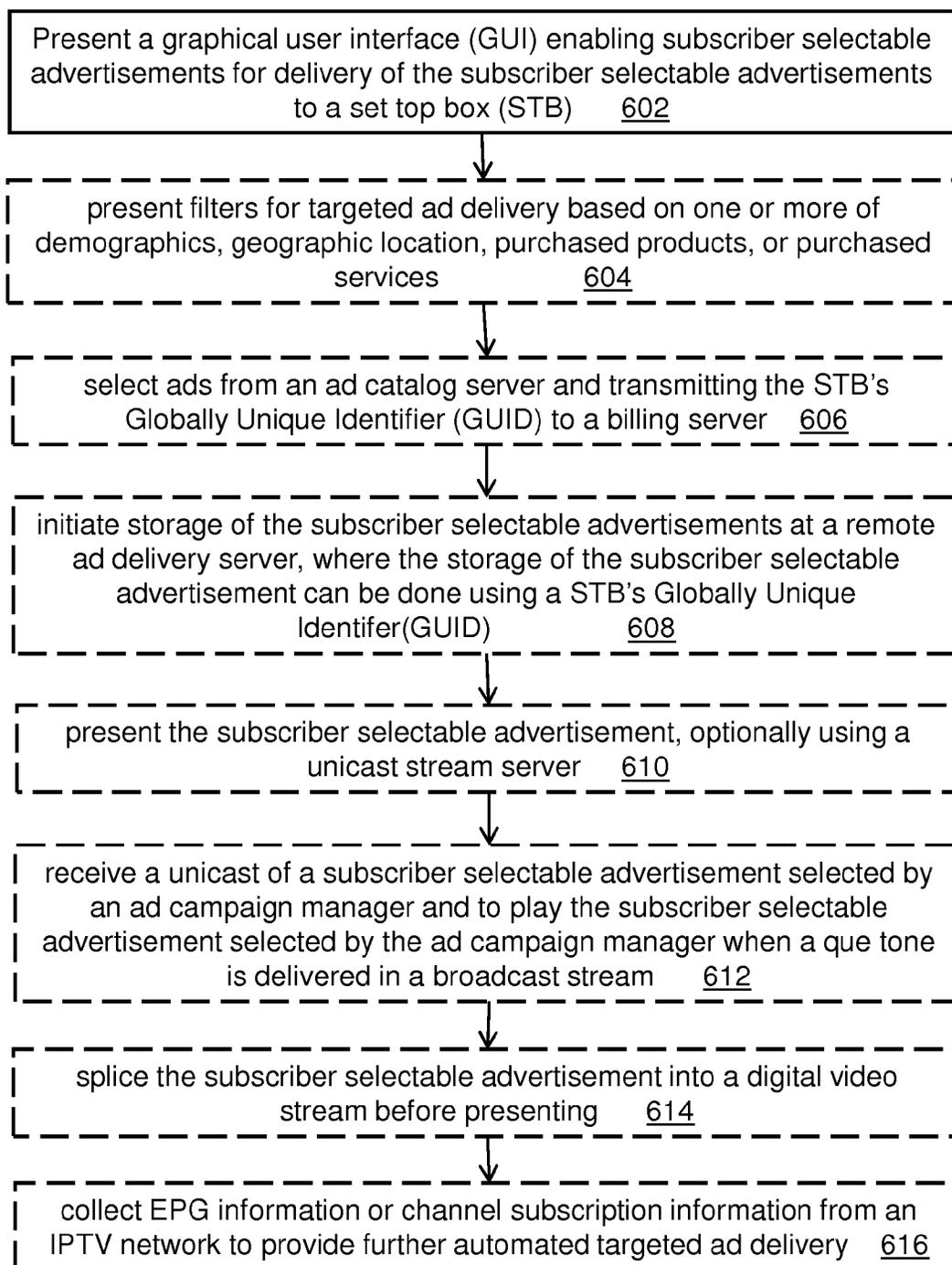
300
FIG. 3



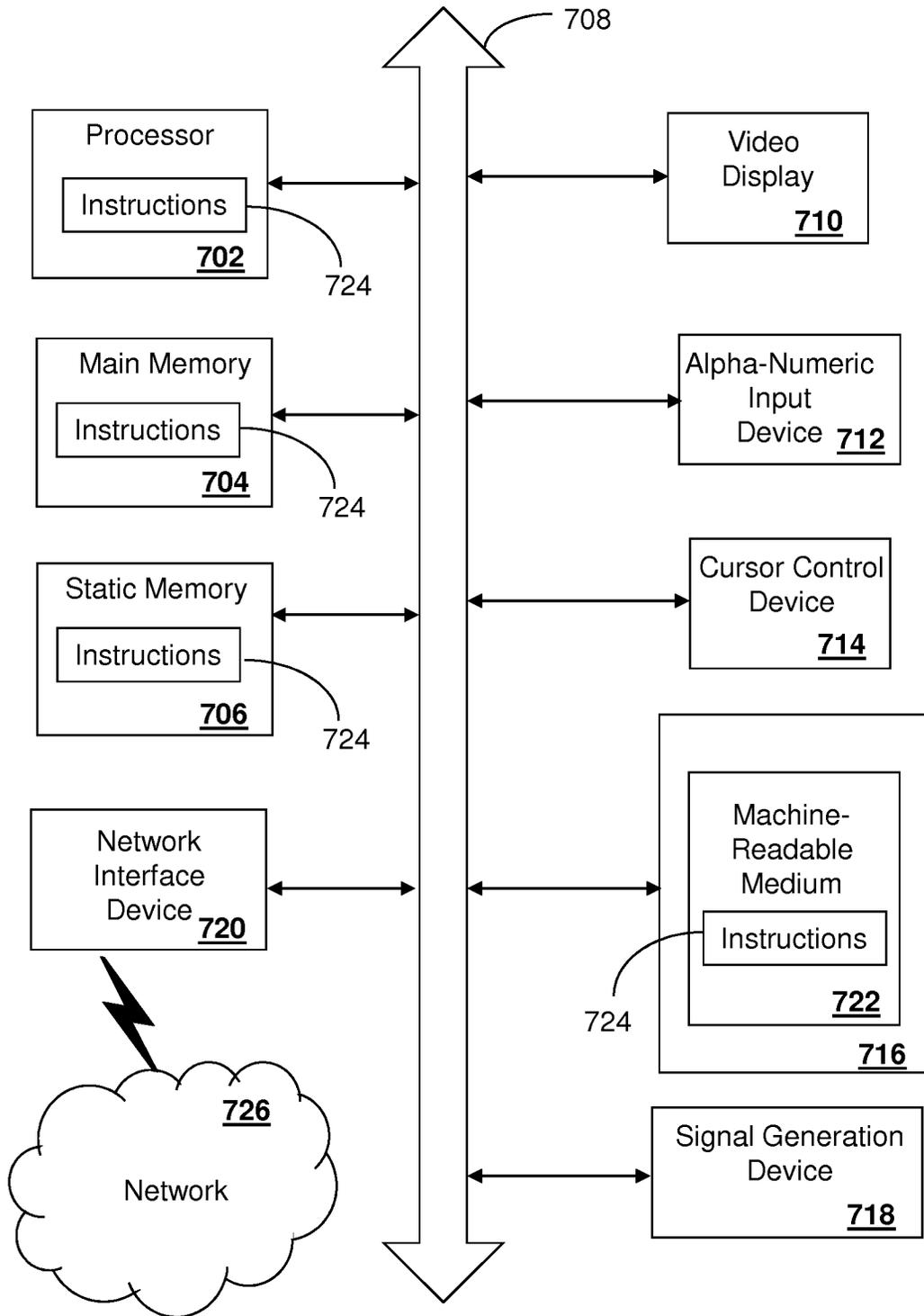
400 FIG. 4



500 FIG. 5



600
FIG. 6



700
FIG. 7

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SYSTEM AND METHOD OF AD DELIVERY**CROSS-REFERENCE TO RELATED APPLICATIONS**

This application is a continuation of and claims priority to U.S. patent application Ser. No. 13/771,200, filed Feb. 20, 2013, which is a continuation of U.S. patent application Ser. No. 12/822,108 filed Jun. 23, 2010 and issued as U.S. Pat. No. 8,402,486, the disclosures of all of which are incorporated herein by reference in their entirety.

FIELD OF THE DISCLOSURE

The present disclosure relates generally to communication systems and more specifically to a system and method of ad delivery.

BACKGROUND OF THE DISCLOSURE

Interactive TV networks provide a multitude of services including broadcast programming and video-on-demand. These networks reach out to users in various environments including single family residences, multi-dwelling apartments and commercial facilities. The types of service and the ability to provide those services are often dependent on the particular environment of the potential users. Quite often, the subscribers to these networks have limited choices in selecting the individual ads they can receive. Instead, ads are delivered without any targeting and end up being of little interest to viewers.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 depicts an illustrative embodiment a of communication system that provides program retrieval services;

FIG. 2 depicts an illustrative embodiment of a portal interacting with the communication system of FIG. 1;

FIG. 3 depicts an illustrative embodiment of a communication device utilized in the communication system of FIG. 1;

FIG. 4 depicts an illustrative embodiment of a communication system flow diagram utilized in the communication system of FIG. 1;

FIG. 5 depicts yet another illustrative embodiment of a communication system flow diagram in the communication system of FIG. 1;

FIG. 6 depicts an illustrative embodiment of a method operating in portions of the communications systems of FIG. 1;

FIG. 7 is a diagrammatic representation of a machine in the form of a computer system within which a set of instructions, when executed, may cause the machine to perform any one or more of the methodologies discussed herein.

DETAILED DESCRIPTION OF THE DRAWINGS

One embodiment of the present disclosure can entail a non-transitory computer readable storage medium comprising computer instructions to present a graphical user interface (GUI) enabling subscriber selectable advertisements for delivery of the subscriber selectable advertisements to a set top box (STB), initiate storage of the subscriber selectable advertisements at a remote ad delivery server, and present the subscriber selectable advertisement Another embodiment of the present disclosure can entail a set top box (STB) comprising a controller programmed to receive subscriber selectable preferences for advertisements for delivery of the advertise-

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ments to the set top box (STB), initiate storage of the advertisements based on the subscriber selectable preferences at a remote ad delivery server, and receive advertisements based on the subscriber selectable preferences

Yet another embodiment of the present disclosure can entail a network device comprising a controller programmed to store a subscriber selectable preference for advertisements used for selecting advertisements to send to a set top box (STB) and receive a signal from a broadcast stream indicating the location for insertion of an advertisement based on the subscriber selectable preference.

FIG. 1 depicts an illustrative embodiment of a first communication system 100 for delivering media content. The communication system 100 can represent an Internet Protocol Television (IPTV) broadcast media system. The IPTV media system can include a super head-end office (SHO) 110 with at least one super headend office server (SHS) 111 which receives media content from satellite and/or terrestrial communication systems. In the present context, media content can represent audio content, moving image content such as videos, still image content, or combinations thereof. The SHS server 111 can forward packets associated with the media content to video head-end servers (VHS) 114 via a network of video head-end offices (VHO) 112 according to a common multicast communication protocol.

The VHS 114 can distribute multimedia broadcast programs via an access network 118 to commercial and/or residential buildings 102 housing a gateway 104 (such as a common residential or commercial gateway). The building 102 can be various types including multi-dwelling units which house a plurality of different subscribers. The access network 118 can represent a group of digital subscriber line access multiplexers (DSLAMs) located in a central office or a service area interface that provide broadband services over optical links or copper twisted pairs 119 to buildings 102. The gateway 104 can use common communication technology to distribute broadcast signals to media processors 106 such as Set-Top Boxes (STBs) which in turn present broadcast channels to media devices 108 such as computers or television sets managed in some instances by a media controller 107 (such as an infrared or RF remote control).

The gateway 104, the media processors 106, and media devices 108 can utilize tethered interface technologies (such as coaxial or phone line wiring) or can operate over a common wireless access protocol. With these interfaces, unicast communications can be invoked between the media processors 106 and subsystems of the IPTV media system for services such as video-on-demand (VoD), browsing an electronic programming guide (EPG), or other infrastructure services.

Some of the network elements of the IPTV media system can be coupled to one or more computing devices 130 a portion of which can operate as a web server for providing portal services over an Internet Service Provider (ISP) network 132 to wireline media devices 108 or wireless communication devices 116 by way of a wireless access base station 117 operating according to common wireless access protocols such as Wireless Fidelity (WiFi), or cellular communication technologies (such as GSM, CDMA, UMTS, WiMAX, Software Defined Radio or SDR, and so on).

Another distinct portion of the computing devices 130 can function as a server (herein referred to as server 130). The server 130 can use common computing and communication technology to perform the function of relaying and/or receiving media content to ISP network 132 or to other networks.

It will be appreciated by an artisan of ordinary skill in the art that a satellite broadcast television system can be used in place of the IPTV media system. In this embodiment, signals

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transmitted by a satellite **115** supplying media content can be intercepted by a common satellite dish receiver **131** coupled to the building **102**. Modulated signals intercepted by the satellite dish receiver **131** can be submitted to the media processors **106** for generating broadcast channels which can be presented at the media devices **108**. The media processors **106** can be equipped with a broadband port to the ISP network **132** to enable infrastructure services such as VoD and EPG described above.

In yet another embodiment, an analog or digital broadcast distribution system such as cable TV system **133** can be used in place of the IPTV media system described above. In this embodiment the cable TV system **133** can provide Internet, telephony, and interactive media services.

In one embodiment, the building **102** can have a surveillance system **150** including various security devices such as security cameras, motion detectors, automated door locks, intercoms, processors and so forth. Each of the units and/or subscribers within the building **102** can have a cognitive radio transceiver (CRT) **175** that can wirelessly receive signals from the surveillance system **150**. The signals can be video media captured by security cameras throughout the building (such as at the front door, the pool, and so forth).

FIG. 2 depicts an illustrative embodiment of a portal **202** which can operate from the computing devices **130** described earlier of communication system **100** illustrated in FIG. 1. The portal **202** can be used for managing services of communication system **100**. The portal **202** can be accessed by a Uniform Resource Locator (URL) with a common Internet browser such as Microsoft's Internet Explorer™ using an Internet-capable communication device such as those described for FIG. 1. The portal **202** can be configured, for example, to access a media processor **106** and services managed thereby such as a Digital Video Recorder (DVR), a VoD catalog, an EPG, a personal catalog (such as personal videos, pictures, audio recordings, etc.) stored in the media processor, provisioning IMS services, provisioning Internet services, provisioning cellular phone services, provisioning services such as security services or advertising services and so on. For example, a user can utilize the portal to configure the cognitive radio processor for receiving video security footage as it is captured by security cameras in the building. In another embodiment, the captured video can be forwarded to other communication devices and/or entities, such as a mobile telephone of the user or the police. In yet another embodiment, the services can enable the insertion of targeted advertising as set up by the subscriber or other entity.

FIG. 3 depicts an exemplary embodiment of a communication device **300**. Communication device **300** can serve in whole or in part as an illustrative embodiment of the communication devices of FIG. 1. The communication device **300** can comprise a wireline and/or wireless transceiver **302** (herein transceiver **302**), a user interface (UI) **304**, a power supply **314**, a location receiver **316**, and a controller **306** for managing operations thereof. The transceiver **302** can support short-range or long-range wireless access technologies such as Bluetooth, WiFi, Digital Enhanced Cordless Telecommunications (DECT), or cellular communication technologies, just to mention a few. Cellular technologies can include, for example, CDMA-1X, UMTS/HSDPA, GSM/GPRS, TDMA/EDGE, EV/DO, WiMAX, SDR, and next generation cellular wireless communication technologies as they arise. The transceiver **302** can also be adapted to support circuit-switched wireline access technologies (such as PSTN), packet-switched wireline access technologies (such as TCP/IP, VoIP, etc.), and combinations thereof.

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The UI **304** can include a depressible or touch-sensitive keypad **308** with a navigation mechanism such as a roller ball, joystick, mouse, or navigation disk for manipulating operations of the communication device **300**. The keypad **308** can be an integral part of a housing assembly of the communication device **300** or an independent device operably coupled thereto by a tethered wireline interface (such as a USB cable) or a wireless interface supporting for example Bluetooth. The keypad **308** can represent a numeric dialing keypad commonly used by phones, and/or a Qwerty keypad with alphanumeric keys. The UI **304** can further include a display **310** such as monochrome or color LCD (Liquid Crystal Display), OLED (Organic Light Emitting Diode) or other suitable display technology for conveying images to an end user of the communication device **300**. In an embodiment where the display **310** is touch-sensitive, a portion or all of the keypad **308** can be presented by way of the display.

The UI **304** can also include an audio system **312** that utilizes common audio technology for conveying low volume audio (such as audio heard only in the proximity of a human ear) and high volume audio (such as speakerphone for hands free operation). The audio system **312** can further include a microphone for receiving audible signals of an end user. The audio system **312** can also be used for voice recognition applications. The UI **304** can further include an image sensor **313** such as a charged coupled device (CCD) camera for capturing still or moving images.

The power supply **314** can utilize common power management technologies such as replaceable and rechargeable batteries, supply regulation technologies, and charging system technologies for supplying energy to the components of the communication device **300** to facilitate long-range or short-range portable applications. The location receiver **316** can utilize common location technology such as a global positioning system (GPS) receiver for identifying a location of the communication device **300** based on signals generated by a constellation of GPS satellites, thereby facilitating common location services such as navigation.

The communication device **300** can use the transceiver **302** to also determine a proximity to a cellular, WiFi or Bluetooth access point by common power sensing techniques such as utilizing a received signal strength indicator (RSSI) and/or a signal time of arrival (TOA) or time of flight (TOF). The controller **306** can utilize computing technologies such as a microprocessor, a digital signal processor (DSP), and/or a video processor with associated storage memory such as Flash, ROM, RAM, SRAM, DRAM or other storage technologies.

The communication device **300** can be adapted to perform the functions of the media processor **106**, the media devices **108**, or the portable communication devices **116** of FIG. 1. It will be appreciated that the communication device **300** can also represent other common devices that can operate in communication system **100** of FIG. 1 such as a gaming console and a media player.

FIGS. 4 and 5 depict illustrative embodiments of a system or flow **400** and another system or flow **500** for enabling a subscriber to select and receive subscriber selectable advertising. In this regard, a subscriber can select preferences or even actual individual ad content that can be streamed to the user in a targeted fashion in a digital television system such as an IPTV system. The systems **400** or **500** can provide la carte IPTV Advertising that enable system subscribers to choose advertisements that fit their interests from a Set top Box (STB). The viewer or subscriber can select specific advertising content via GUI (Graphical User Interface) which will in turn store their choices on an Ad Delivery Server. The Ad

Delivery Server can then present the subscriber's preferred advertising content during a next available ad break as further detailed below.

Referring again to FIG. 4, the system or flow 400 in one embodiment can enable a subscriber to select ad content from a catalog server using a STB at 402. A billing server can optionally log the subscriber ad content selection at 404. The system can use broadcaster que tone information to determine a location or time (or time slot) for delivery of the ad to a particular subscriber or STB at 406. In one particular embodiment, an Ad Campaign Manager can deliver the subscriber selected ad content (or content in accordance with a selected subscriber preference) to the STB via a unicast transmission at 408.

Such a system can resolve several issues that allegedly disturb advertisers and subscribers. Advertisers would obviously want to discourage channel flipping away from the specific broadcasted content and subscribers are more likely to stay on a particular channel if they had the ability to insert advertisement into the Setup Top Box that pique the specific subscriber's interests. For example as a 40 year old male consumer would not necessarily want to receive product information or services that are only designed for females or receive product information for specific age groups when it is not applicable to them. In this regard, advertising that is not related to the viewer or subscriber's interest may not be as effective as subscriber selected advertising. The consumer will be able to select content from a GUI that is specific to content that personally interests them. For example, sports, sporting events, local events, medical, personal care, environment, travel, automobiles, racing, gaming, fashion or any other particular interest. Other techniques or inputs can be used in addition to the subscriber selectable preference to further refine the particular ads that can be delivered to the subscriber. Other inputs can include, but are not limited to demographics, geographic location, purchase histories and the like. These techniques bring e-commerce to a next level by allowing consumers to be more interactive when purchasing products and services through such a system.

In yet another embodiment, a system or flow 500 can enable a subscriber to request ad content (or ad preferences) via an STB at 502 from an ad server catalog 506 via an application server 504. As discussed in the example above a billing server at 508 can optionally log the subscriber ad content selection and an Ad Campaign Manager at 510 can be used to deliver the subscriber selected ad content (or content in accordance with a selected subscriber preference) to the STB via an ad delivery system 512. The ad delivery system can include a unicast transmission system, but can utilize other transmission system where specific ad content can be inserted or splice into a video stream for delivery to the STB at 514.

From an STB, a subscriber can be presented with a screen or GUI that allows them to choose specific advertising content from an Advertisement Content Storage via an integrated IPTV Application Server. Once the subscriber has selected the advertisement content that piques his or her interests, this information will then be stored on the Ad Delivery Server using for example the STB's GUID (Globally Unique Identifier). Then once the broadcasted content calls for an advertisement to be inserted, the specific advertisement content that the subscriber specified will be spliced into the viewed video stream. If the subscriber does not select any content, then default ad insertion policies can be applied. The other service providers simply broadcast advertising content during specific time slots to all viewers.

FIG. 6 depicts an illustrative method 600 that operates in portions of the communication systems of FIG. 1. Method 600 can begin with step 602 in which the method at 602 presents a graphical user interface (GUI) enabling subscriber selectable advertisements for delivery of the subscriber selectable advertisements to a set top box (STB). At 604, the method 600 can present filters for targeted ad delivery based on one or more of demographics, geographic location, purchased products, or purchased services. At 606, the system (or subscriber) can select ads from an ad catalog server (based on subscriber selected preferences or subscriber selections) and transmit the STB's Globally Unique Identifier (GUID) to a billing server. At 608, such selection can initiate storage of the subscriber selectable advertisements at a remote ad delivery server, where the storage of the subscriber selectable advertisement can be done using a STB's GUID. At 610, the method can present the present the subscriber selectable advertisement, optionally using a unicast stream server. In one embodiment, the method at 612 can receive a unicast of a subscriber selectable advertisement selected by an ad campaign manager and play the subscriber selectable advertisement selected by the ad campaign manager when a que tone is delivered in a broadcast stream. Transmission of the ad can involve splicing the subscriber selectable ad at 614 into a digital video stream before the presentation (610). In yet another option, the method at 616 can collect EPG information or channel subscription information from an IPTV network to provide further automated targeted ad delivery. It should be understood that the order or inclusion of the steps should not be implied from the specific order described herein.

Upon reviewing the aforementioned embodiments, it would be evident to an artisan with ordinary skill in the art that said embodiments can be modified, reduced, or enhanced without departing from the scope and spirit of the claims described below. For example, such a system and method can entail in a particular embodiment an STB or server which can ultimately insert ads in a similar fashion as discussed above where the IPTV system is further coupled to a wireless network and remote devices as illustrated in FIG. 1. Such remote device can also be treated as an STB in the context of the embodiments herein.

Other suitable modifications can be applied to the present disclosure without departing from the scope of the claims below. Accordingly, the reader is directed to the claims section for a fuller understanding of the breadth and scope of the present disclosure.

FIG. 7 depicts an exemplary diagrammatic representation of a machine in the form of a computer system 700 within which a set of instructions, when executed, may cause the machine to perform any one or more of the methodologies discussed above. In some embodiments, the machine operates as a standalone device. In some embodiments, the machine may be connected (e.g., using a network) to other machines. In a networked deployment, the machine may operate in the capacity of a server or a client user machine in server-client user network environment, or as a peer machine in a peer-to-peer (or distributed) network environment.

The machine may comprise a server computer, a client user computer, a personal computer (PC), a tablet PC, a laptop computer, a desktop computer, a control system, a network router, switch or bridge, or any machine capable of executing a set of instructions (sequential or otherwise) that specify actions to be taken by that machine. It will be understood that a device of the present disclosure includes broadly any electronic device that provides voice, video or data communication. Further, while a single machine is illustrated, the term

“machine” shall also be taken to include any collection of machines that individually or jointly execute a set (or multiple sets) of instructions to perform any one or more of the methodologies discussed herein.

The computer system **700** may include a processor **702** (e.g., a central processing unit (CPU), a graphics processing unit (GPU, or both), a main memory **704** and a static memory **706**, which communicate with each other via a bus **708**. The computer system **700** may further include a video display unit **710** (e.g., a liquid crystal display (LCD), a flat panel, a solid state display, or a cathode ray tube (CRT)). The computer system **700** may include an input device **712** (e.g., a keyboard), a cursor control device **714** (e.g., a mouse), a disk drive unit **716**, a signal generation device **718** (e.g., a speaker or remote control) and a network interface device **720**.

The disk drive unit **716** may include a machine-readable medium **722** on which is stored one or more sets of instructions (e.g., software **724**) embodying any one or more of the methodologies or functions described herein, including those methods illustrated above. The instructions **724** may also reside, completely or at least partially, within the main memory **704**, the static memory **706**, and/or within the processor **702** during execution thereof by the computer system **700**. The main memory **704** and the processor **702** also may constitute machine-readable media.

Dedicated hardware implementations including, but not limited to, application specific integrated circuits, programmable logic arrays and other hardware devices can likewise be constructed to implement the methods described herein. Applications that may include the apparatus and systems of various embodiments broadly include a variety of electronic and computer systems. Some embodiments implement functions in two or more specific interconnected hardware modules or devices with related control and data signals communicated between and through the modules, or as portions of an application-specific integrated circuit. Thus, the example system is applicable to software, firmware, and hardware implementations.

In accordance with various embodiments of the present disclosure, the methods described herein are intended for operation as software programs running on a computer processor. Furthermore, software implementations can include, but not limited to, distributed processing or component/object distributed processing, parallel processing, or virtual machine processing can also be constructed to implement the methods described herein.

The present disclosure contemplates a machine readable medium containing instructions **724**, or that which receives and executes instructions **724** from a propagated signal so that a device connected to a network environment **726** can send or receive voice, video or data, and to communicate over the network **726** using the instructions **724**. The instructions **724** may further be transmitted or received over a network **726** via the network interface device **720**.

While the machine-readable medium **722** is shown in an example embodiment to be a single medium, the term “machine-readable medium” should be taken to include a single medium or multiple media (e.g., a centralized or distributed database, and/or associated caches and servers) that store the one or more sets of instructions. The term “machine-readable medium” shall also be taken to include any medium that is capable of storing, encoding or carrying a set of instructions for execution by the machine and that cause the machine to perform any one or more of the methodologies of the present disclosure.

The term “machine-readable medium” shall accordingly be taken to include, but not be limited to: solid-state memories

such as a memory card or other package that houses one or more read-only (non-volatile) memories, random access memories, or other re-writable (volatile) memories; magneto-optical or optical medium such as a disk or tape; and/or a digital file attachment to e-mail or other self-contained information archive or set of archives is considered a distribution medium equivalent to a tangible storage medium. Accordingly, the disclosure is considered to include any one or more of a machine-readable medium or a distribution medium, as listed herein and including art-recognized equivalents and successor media, in which the software implementations herein are stored.

Although the present specification describes components and functions implemented in the embodiments with reference to particular standards and protocols, the disclosure is not limited to such standards and protocols. Each of the standards for Internet and other packet switched network transmission (e.g., TCP/IP, UDP/IP, HTML, HTTP) represent examples of the state of the art. Such standards are periodically superseded by faster or more efficient equivalents having essentially the same functions. Accordingly, replacement standards and protocols having the same functions are considered equivalents.

The illustrations of embodiments described herein are intended to provide a general understanding of the structure of various embodiments, and they are not intended to serve as a complete description of all the elements and features of apparatus and systems that might make use of the structures described herein. Many other embodiments will be apparent to those of skill in the art upon reviewing the above description. Other embodiments may be utilized and derived therefrom, such that structural and logical substitutions and changes may be made without departing from the scope of this disclosure. Figures are also merely representational and may not be drawn to scale. Certain proportions thereof may be exaggerated, while others may be minimized. Accordingly, the specification and drawings are to be regarded in an illustrative rather than a restrictive sense.

Such embodiments of the inventive subject matter may be referred to herein, individually and/or collectively, by the term “invention” merely for convenience and without intending to voluntarily limit the scope of this application to any single invention or inventive concept if more than one is in fact disclosed. Thus, although specific embodiments have been illustrated and described herein, it should be appreciated that any arrangement calculated to achieve the same purpose may be substituted for the specific embodiments shown. This disclosure is intended to cover any and all adaptations or variations of various embodiments. Combinations of the above embodiments, and other embodiments not specifically described herein, will be apparent to those of skill in the art upon reviewing the above description.

The Abstract of the Disclosure is provided to allow the reader to quickly ascertain the nature of the technical disclosure. It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims. In addition, in the foregoing Detailed Description, it can be seen that various features are grouped together in a single embodiment for the purpose of streamlining the disclosure. This method of disclosure is not to be interpreted as reflecting an intention that the claimed embodiments require more features than are expressly recited in each claim. Rather, as the following claims reflect, inventive subject matter lies in less than all features of a single disclosed embodiment. Thus the following claims are hereby incorporated into the Detailed Description, with each claim standing on its own as a separately claimed subject matter.

What is claimed is:

1. A method, comprising:

providing, by a system including a processor, a graphical user interface for identifying advertisements for delivery to a communication device, wherein the graphical user interface enables the advertisements to be selected according to user preferences, and wherein the user preferences are determined according to user input received via the graphical user interface;

splicing, by the system, the advertisements into a digital video stream comprising video content, wherein the digital video stream comprises a unicast stream directed to the communication device;

transmitting, by the system, a globally unique identifier of the communication device to a billing server responsive to an initiation of storage of the advertisements, wherein the advertisements are stored via indexing to the globally unique identifier; and

providing, by the system, automated targeted advertisement delivery using the advertisements, the automated targeted advertisement delivery being based on electronic programming guide information obtained from a network server of a service provider that provides communication services to the communication device.

2. The method of claim 1, wherein a subset of advertisements are filtered out of the advertisements identified by the graphical user interface based on purchased products or purchased services, and wherein the communication device is a set top box.

3. The method of claim 1, wherein the initiation of the storage of the advertisements is responsive to a selection of the advertisements from an advertisement catalog server.

4. The method of claim 3, wherein the billing server logs the selection of the advertisements.

5. The method of claim 1, wherein a subset of advertisements are filtered out of the advertisements identified by the graphical user interface based on demographics associated with a user of the communication device.

6. The method of claim 1, further comprising providing the advertisements to the communication device using a unicast stream server.

7. The method of claim 1, comprising providing the advertisements to the communication device in the unicast stream via an advertisement campaign manager device, wherein the providing of the advertisements in the unicast stream is responsive to the transmitting of the globally unique identifier to the billing server.

8. The method of claim 1, further comprising providing a broadcast stream including cue tones to the communication device, wherein the advertisements are presented by the communication device responsive to the cue tones.

9. A media device comprising:

a processor; and

a memory that stores executable instructions that, when executed by the processor, cause performance of operations, comprising:

presenting a graphical user interface that describes a group of advertisements accessible via an advertisement catalog server;

receiving user input indicating a selection of an advertisement preference;

initiating storage of a subset of advertisements at a remote advertisement delivery server, wherein the subset of advertisements is selected from the group of advertisements according to the selection of the advertisement preference, and wherein identification information for the media device is transmitted to a

billing server responsive to the initiating of the storage of the subset of advertisements to enable the storage of the subset of advertisements indexed based on the identification information;

receiving a digital content stream via unicasting from an advertising campaign manager device, wherein the digital content stream comprises advertising segments spliced into the digital content stream;

extracting the advertising segments from the digital content stream; and

presenting the subset of advertisements at a display device according to the advertisement segments that are extracted by utilizing advertisement insertion points that are selected based on a target advertisement delivery policy and electronic programming guide information, wherein the electronic programming guide information is obtained from a network server of a service provider that provides communication services to the media device.

10. The media device of claim 9, wherein the identification information comprises a globally unique identifier, and wherein the group of advertisements accessible via the advertisement catalog server is filtered according to purchased products or purchased services.

11. The media device of claim 9, wherein the operations further comprise identifying cue tones in a broadcast stream, wherein the presenting of the subset of advertisements at the display device is according to the cue tones.

12. The media device of claim 9, wherein the identification information comprises a globally unique identifier of the media device, and wherein the receiving of the subset of advertisements is responsive to the globally unique identifier of the media device being transmitted to the billing server.

13. The media device of claim 9, wherein the advertising segments are spliced into the digital content stream by a remote server.

14. A wireless communication device, comprising:

a processor; and

a memory that stores executable instructions that, when executed by the processor, cause performance of operations, comprising:

presenting a graphical user interface that enables selection of advertisements for delivery with content based on user selectable preferences, wherein the graphical user interface presents filters for a targeted advertisement delivery policy, and wherein the filters are associated with demographics;

initiating storage of the advertisements at a remote server;

transmitting a globally unique identifier of the wireless communication device to a billing server responsive to the initiating of the storage of the advertisements at the remote server;

receiving a digital content stream via unicasting, wherein the digital content stream comprises advertising segments based on the advertisements that are spliced into the digital content stream;

extracting the advertising segments from the digital content stream;

receiving electronic programming guide information from a network server of a service provider that provides communication services to the wireless communication device; and

presenting the advertising segments at a display at selected advertisement insertion points in the content

in accordance with the targeted advertisement policy according to the electronic programming guide information.

15. The wireless communication device of claim 14, wherein the storage of the advertisements is performed using a globally unique identifier associated with the processor. 5

16. The wireless communication device of claim 14, wherein the operations further comprise enabling voice communications.

17. The wireless communication device of claim 14, 10 wherein a globally unique identifier associated with the processor is transmitted to a billing server responsive to the initiating of the storage of the advertisements.

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