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(54) **ENHANCED CONTENT INTERFACE**

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(57) **ABSTRACT**

Systems and methods for presenting content are disclosed. One method can comprise presenting an interface such as a content guide comprising a field relating to content. A selection of one or more of a plurality of filters can be received. A first indicator representing first information can be presented if a first one of the filters is selected, wherein the first information relates to the field. A second indicator representing second information can be presented if a second one of the filters selected, wherein the second information relates to the field.

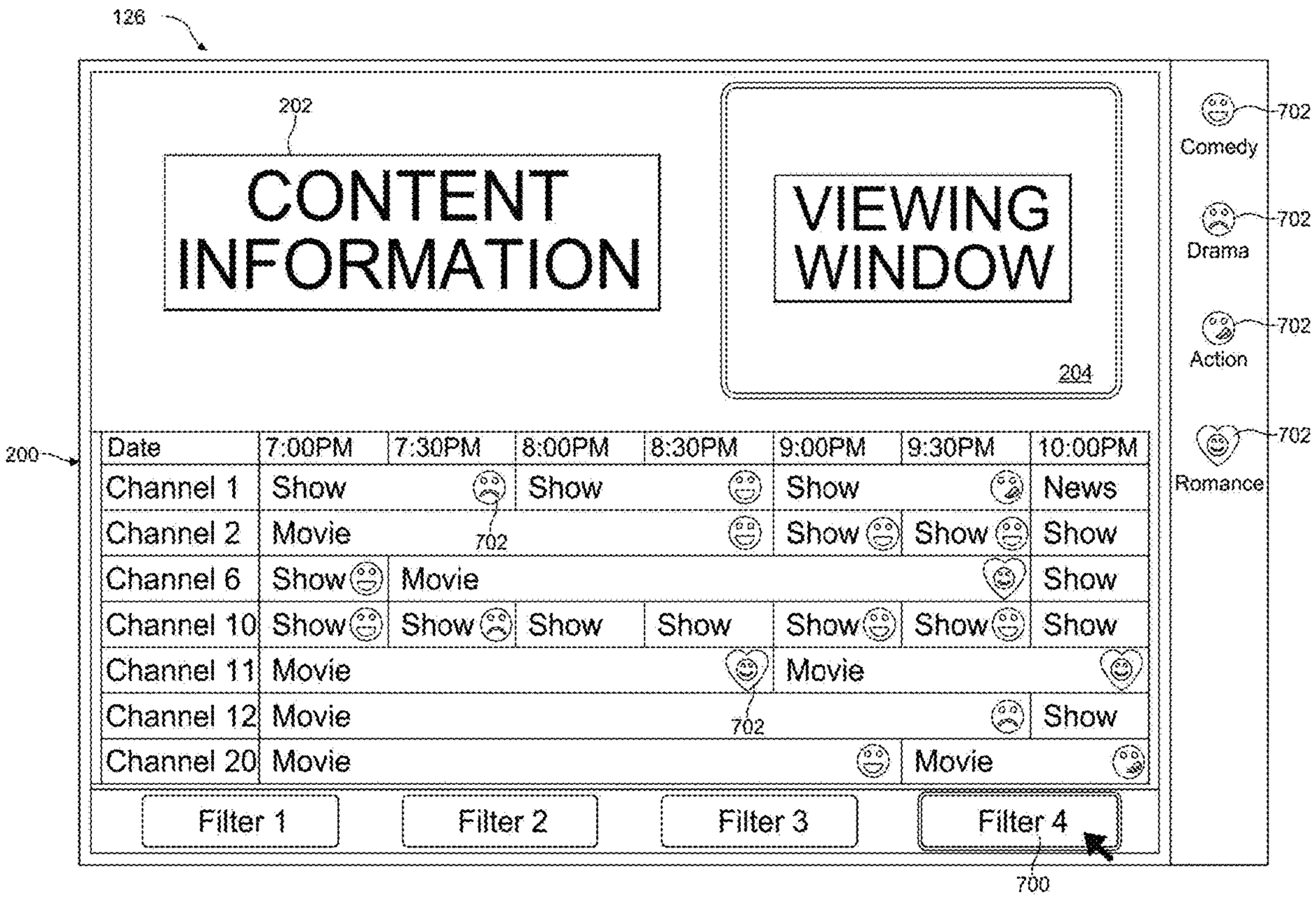
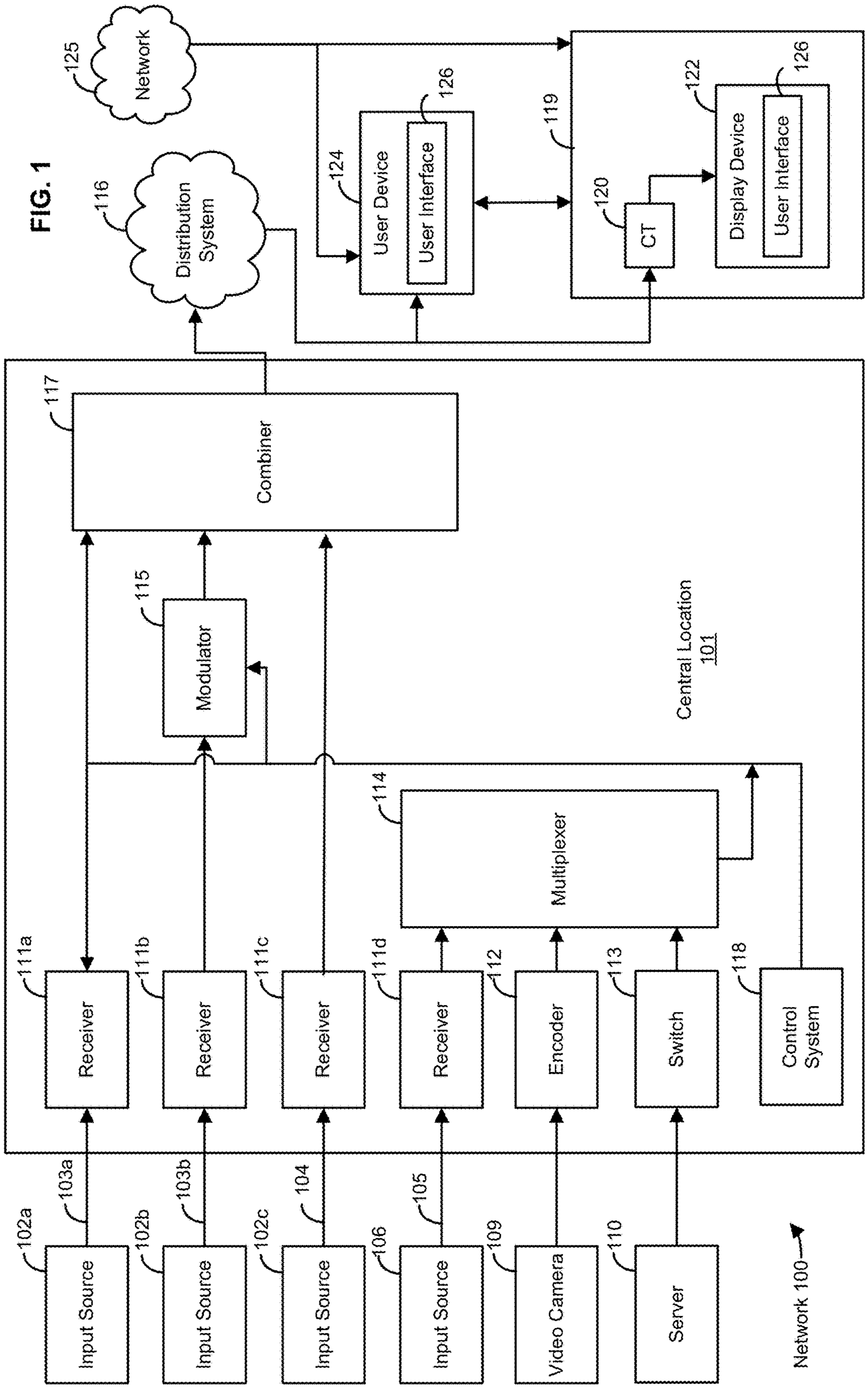


FIG. 1


Network
125
Distribution System
116
User Device
124
User Interface
126
119
CT
120
Display Device
122
User Interface
126
Combiner
117
Modulator
115
Central Location
101
Multiplexer
114
Receiver
111a
Receiver
111b
Receiver
111c
Receiver
111d
Encoder
112
Switch
113
Control System
118
Input Source
102a
Input Source
102b
Input Source
102c
Input Source
106
Video Camera
109
Server
110
103a
103b
104
105
Network 100

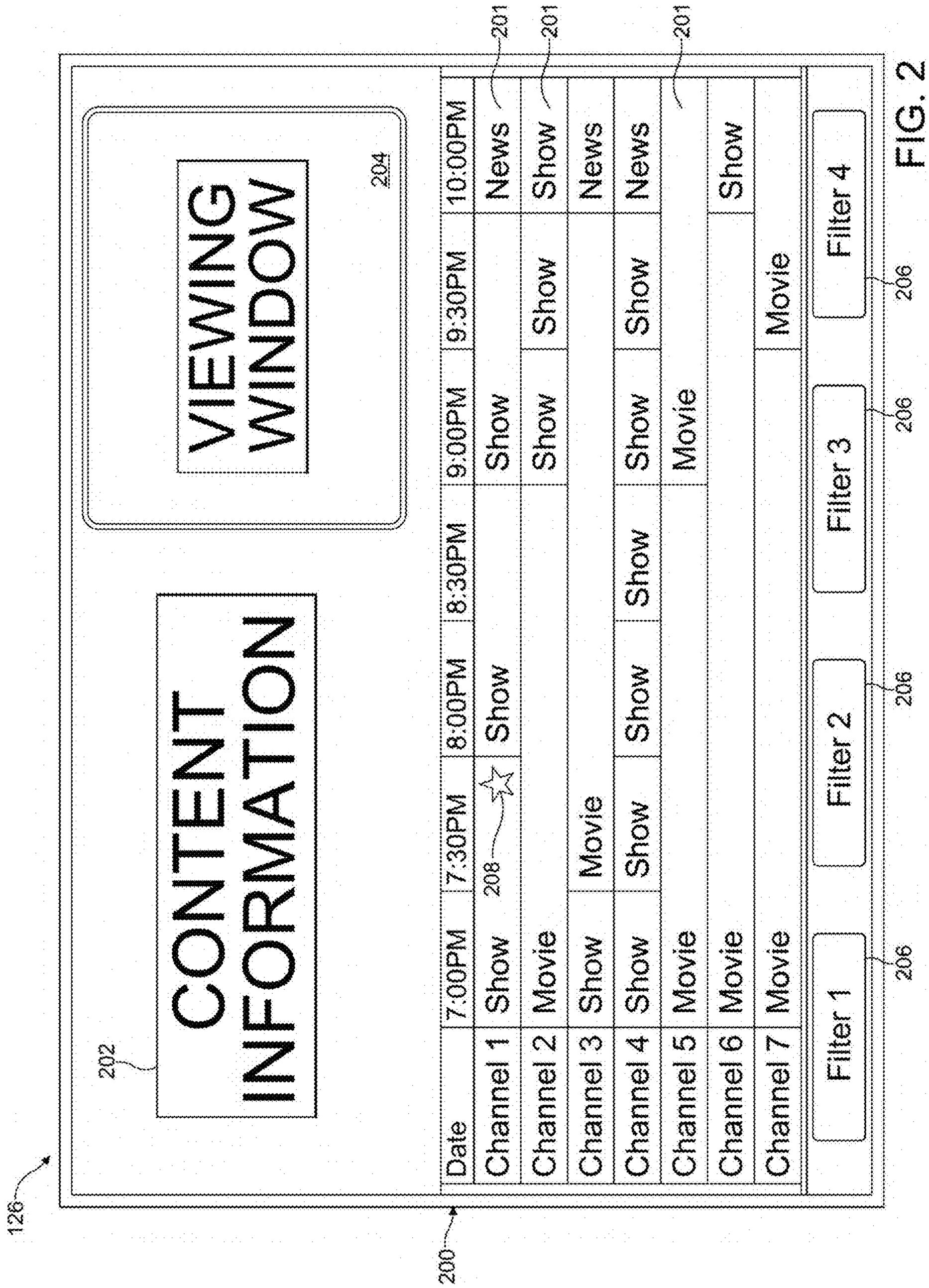

126
200
202
CONTENT INFORMATION
204
VIEWING WINDOW
Date
7:00PM
7:30PM
8:00PM
8:30PM
9:00PM
9:30PM
10:00PM
Channel 1 Show Show News
Channel 2 Movie Show Show News
Channel 3 Show Show News
Channel 4 Show Movie Show Show Show
Channel 5 Movie Movie Show Show Show
Channel 6 Movie Show Show
Channel 7 Movie Movie Show
208
201
206
Filter 1
Filter 2
Filter 3
Filter 4

FIG. 2

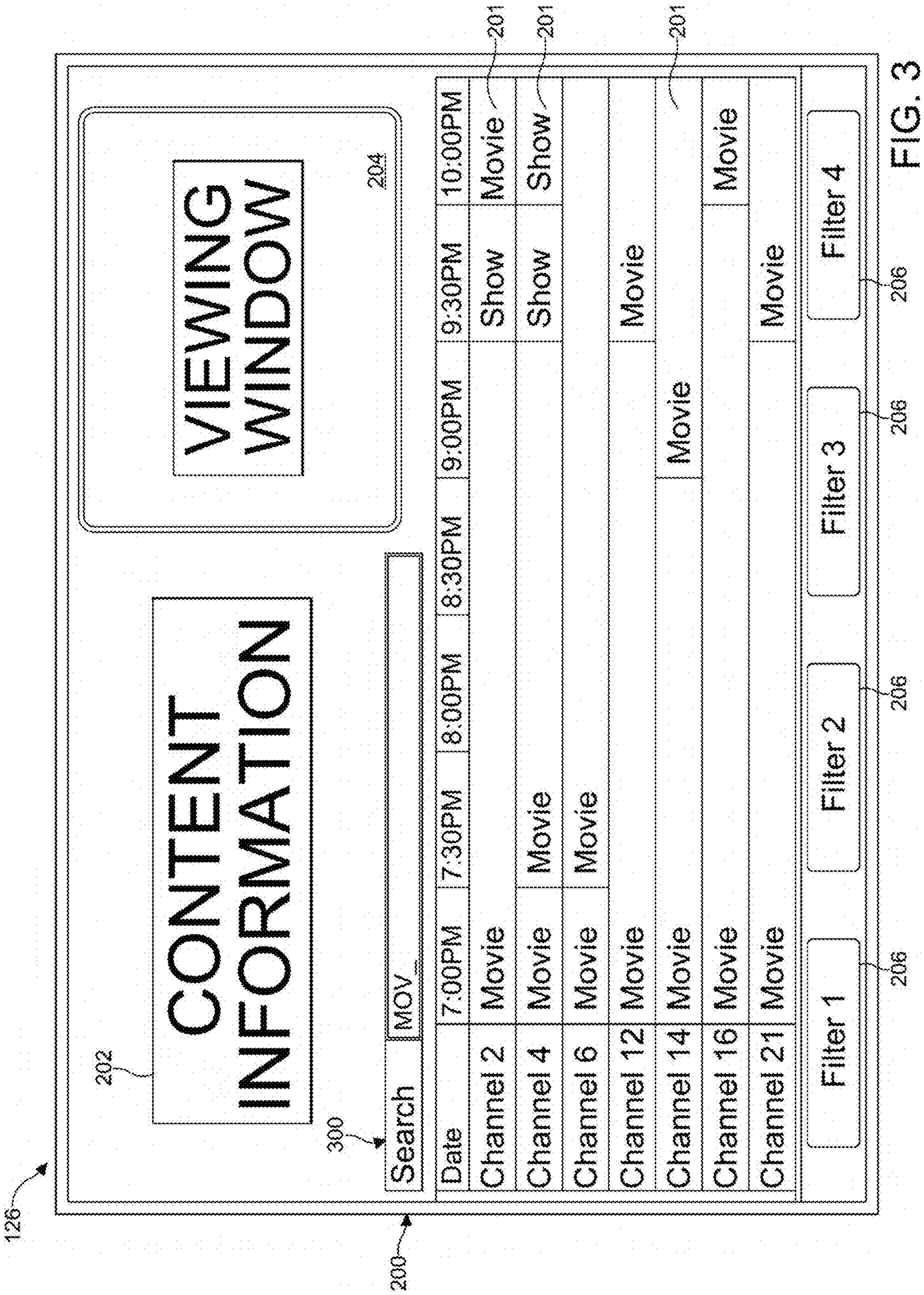

126
200
202
CONTENT INFORMATION
204
VIEWING WINDOW
300
Search
MOV_
Date
7:00PM
7:30PM
8:00PM
8:30PM
9:00PM
9:30PM
10:00PM
Channel 2
Channel 4
Channel 6
Channel 12
Channel 14
Channel 16
Channel 21
Movie
Show
201
206
Filter 1
Filter 2
Filter 3
Filter 4

FIG. 3

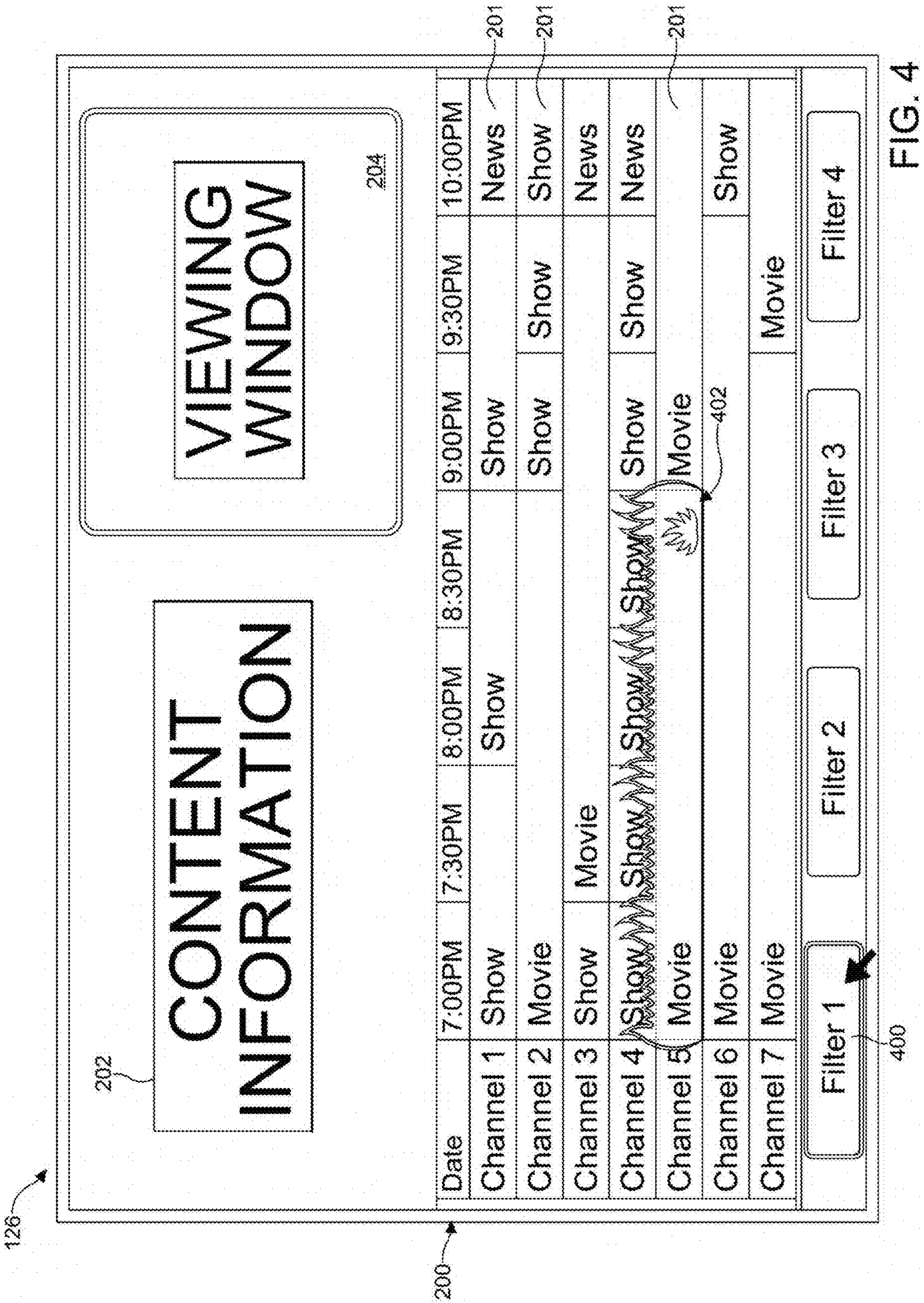

126
200
202
CONTENT INFORMATION
204
VIEWING WINDOW
Date
7:00PM
7:30PM
8:00PM
8:30PM
9:00PM
9:30PM
10:00PM
Channel 1 Show Show Show Show Show News News
Channel 2 Movie Show Show Show Show Show Show
Channel 3 Show Movie Show Show News News
Channel 4 Show Show Show Show Show Movie
Channel 5 Movie Movie
Channel 6 Movie Movie
Channel 7 Movie Movie
201
201
201
402
Filter 1
Filter 2
Filter 3
Filter 4
400

FIG. 4

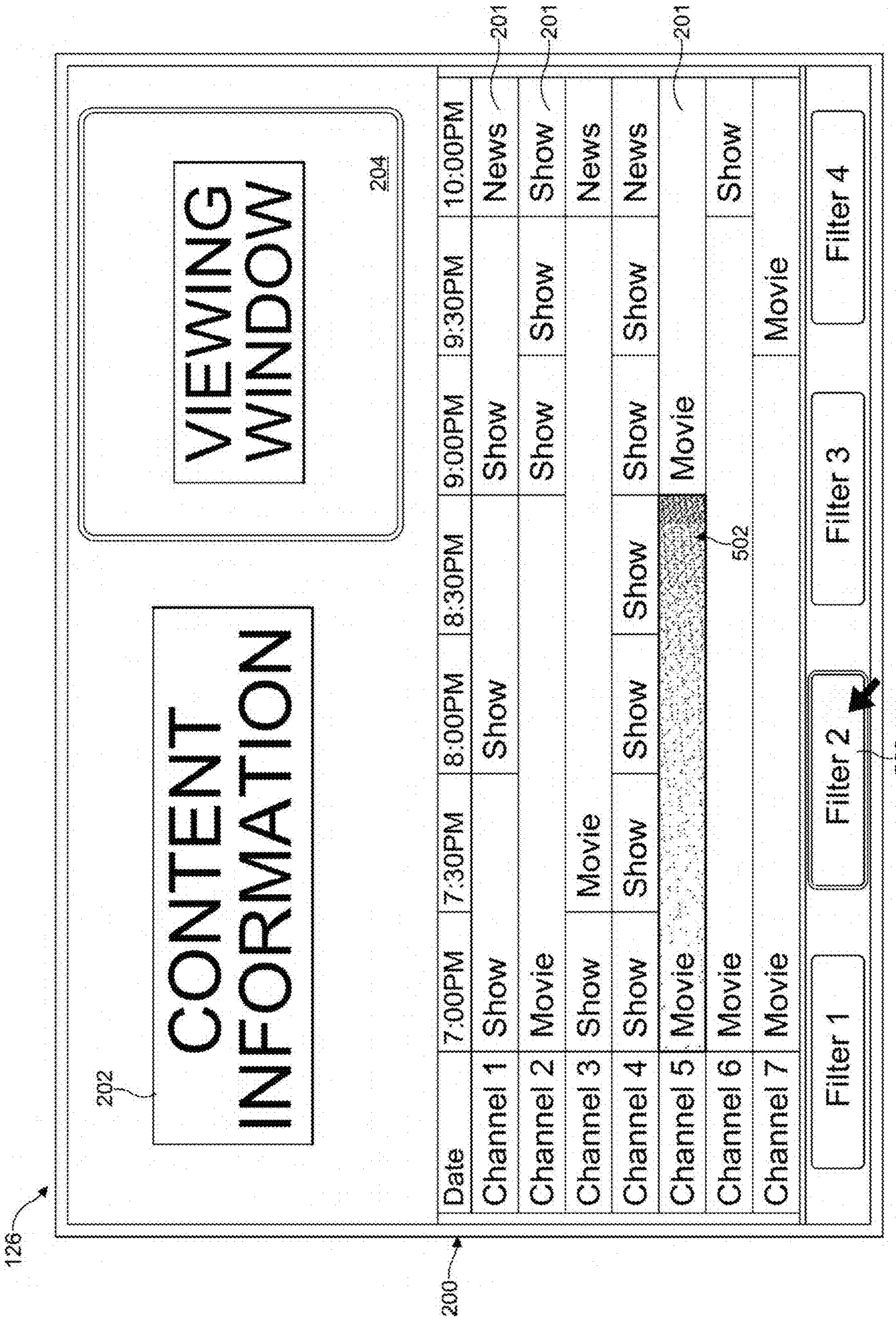

126
200
202
CONTENT INFORMATION
204
VIEWING WINDOW
Date
7:00PM
7:30PM
8:00PM
8:30PM
9:00PM
9:30PM
10:00PM
Channel 1 Show
Channel 2 Movie
Channel 3 Show
Channel 4 Show
Channel 5 Movie
Channel 6 Movie
Channel 7 Movie
Show
Movie
News
Filter 1
Filter 2
Filter 3
Filter 4
500
502
201
201
201

FIG. 5A

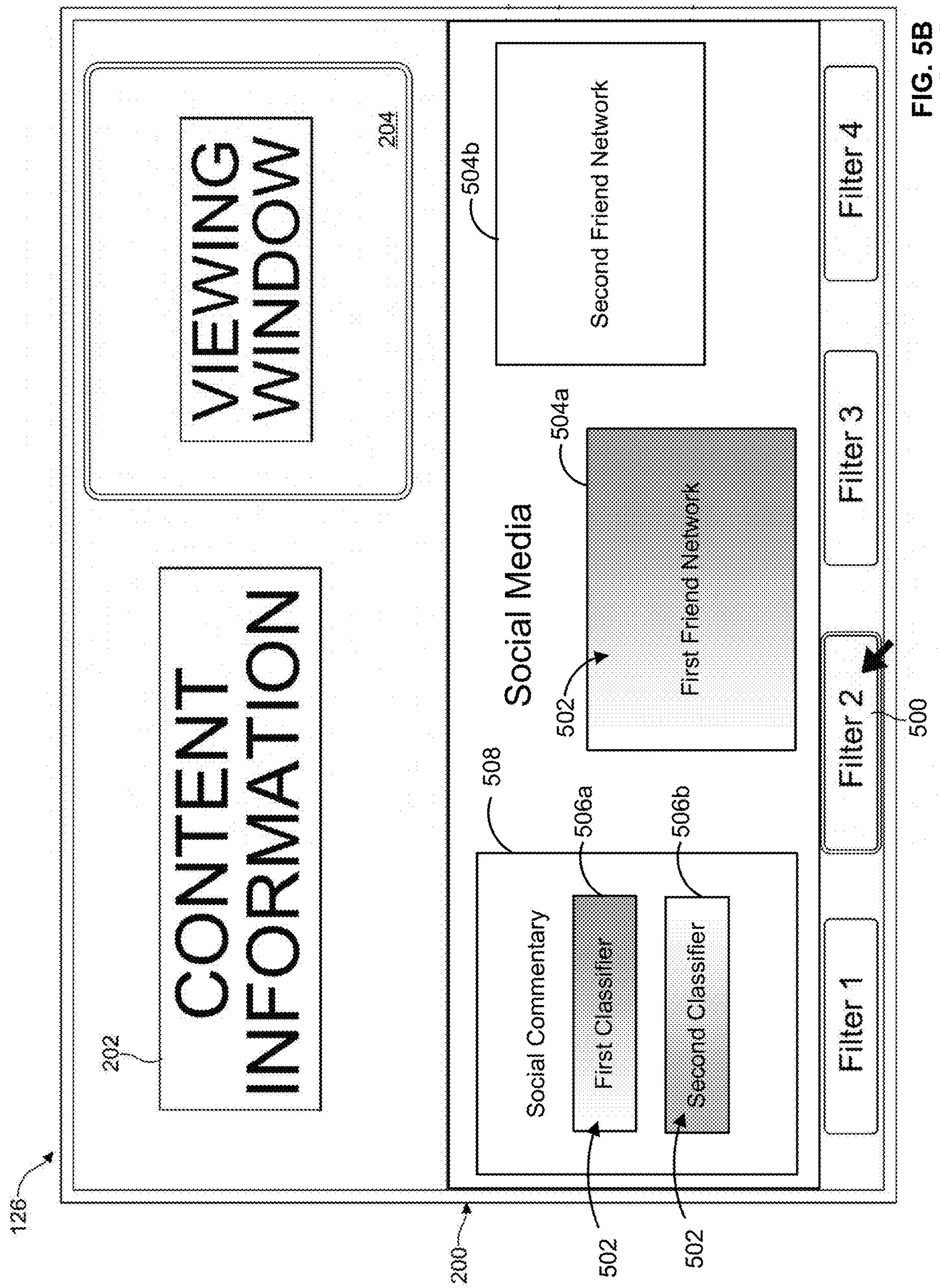

126
200
202
CONTENT INFORMATION
204
VIEWING WINDOW
Social Media
Social Commentary
508
506a
506b
502
First Friend Network
504a
First Classifier
Second Classifier
502
502
Second Friend Network
504b
Filter 1
Filter 2
Filter 3
Filter 4
500

FIG. 5B

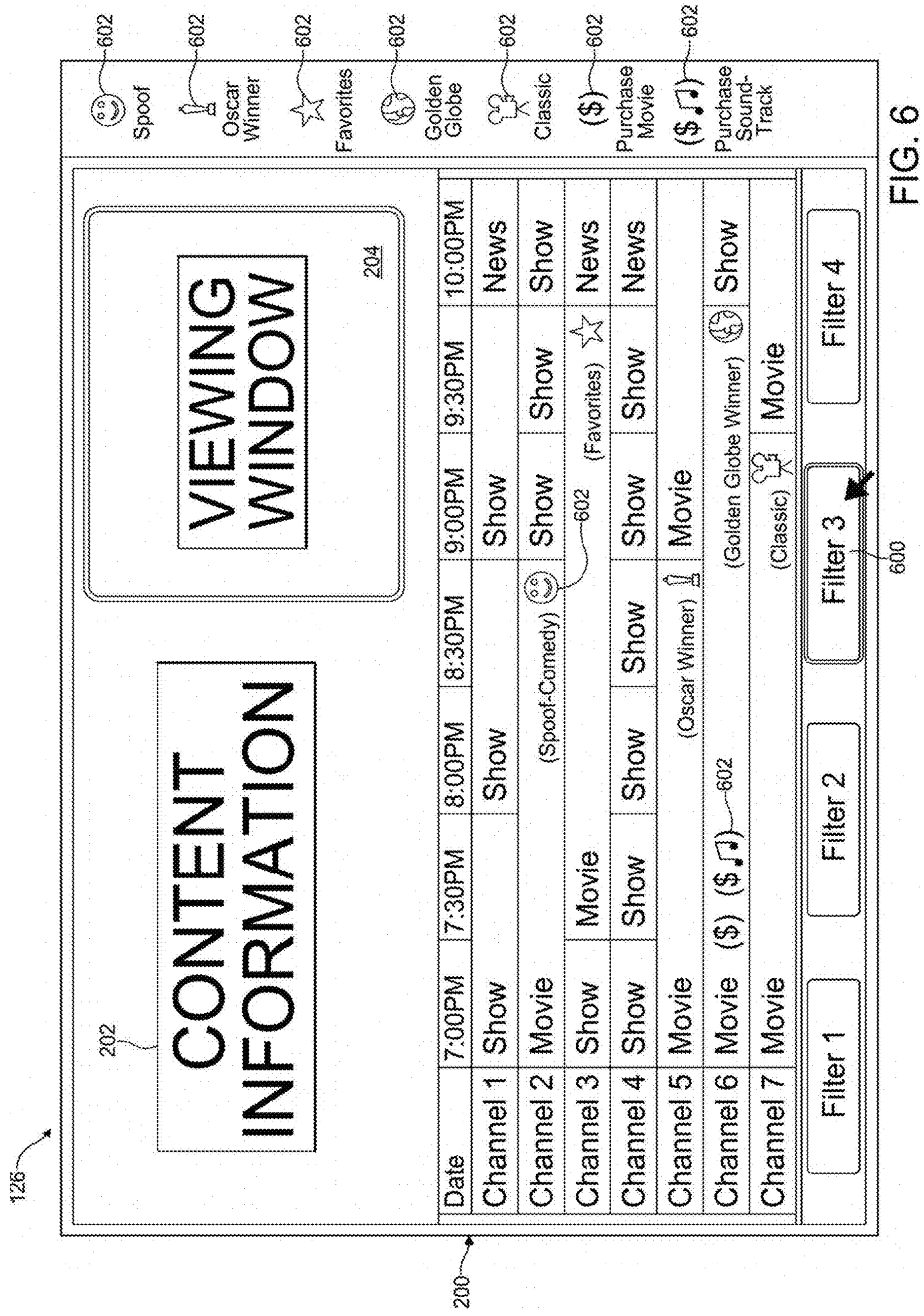

602 Spoof
602 Oscar Winner
602 Favorites
602 Golden Globe
602 Classic
602 ($) Purchase Movie
602 ($.) Purchase Sound-Track
126
202
CONTENT INFORMATION
204
VIEWING WINDOW
200
Date
7:00PM
7:30PM
8:00PM
8:30PM
9:00PM
9:30PM
10:00PM
Channel 1 Show
Channel 2 Movie
Channel 3 Show
Channel 4 Show
Channel 5 Movie
Channel 6 Movie ($) ($.)
Channel 7 Movie
Show
News
(Spoof-Comedy)
(Favorites)
(Oscar Winner)
Movie
(Golden Globe Winner)
(Classic)
Filter 1
Filter 2
Filter 3
Filter 4
600

FIG. 6

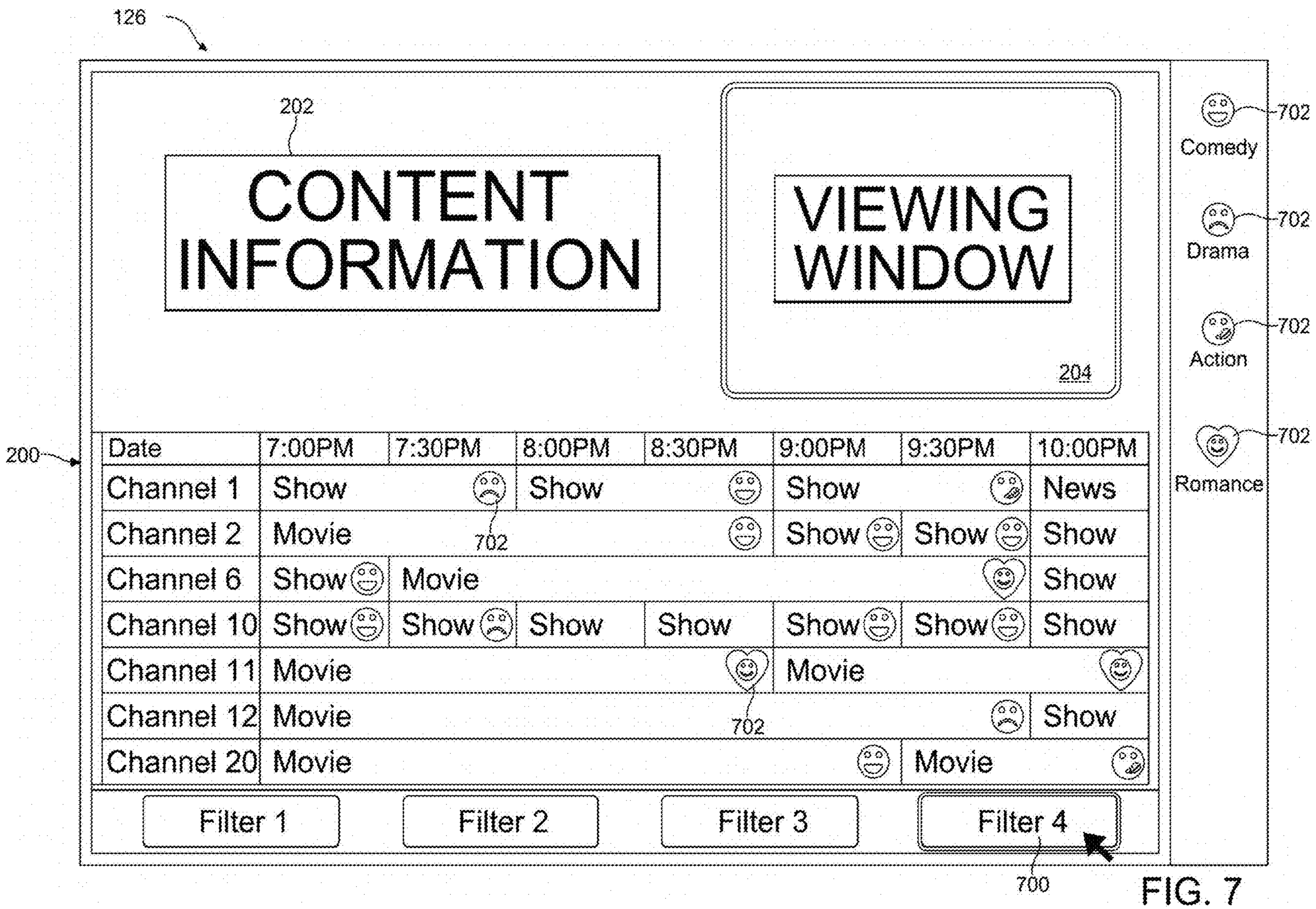

126
202
CONTENT INFORMATION
VIEWING WINDOW
204
Comedy
Drama
Action
Romance
702
200
Date
7:00PM
7:30PM
8:00PM
8:30PM
9:00PM
9:30PM
10:00PM
Channel 1
Show
Show
Show
News
Channel 2
Movie
Show
Show
Show
Channel 6
Show
Movie
Show
Channel 10
Show
Show
Show
Show
Show
Show
Show
Channel 11
Movie
Movie
Channel 12
Movie
Show
Channel 20
Movie
Movie
Filter 1
Filter 2
Filter 3
Filter 4
700

FIG. 7

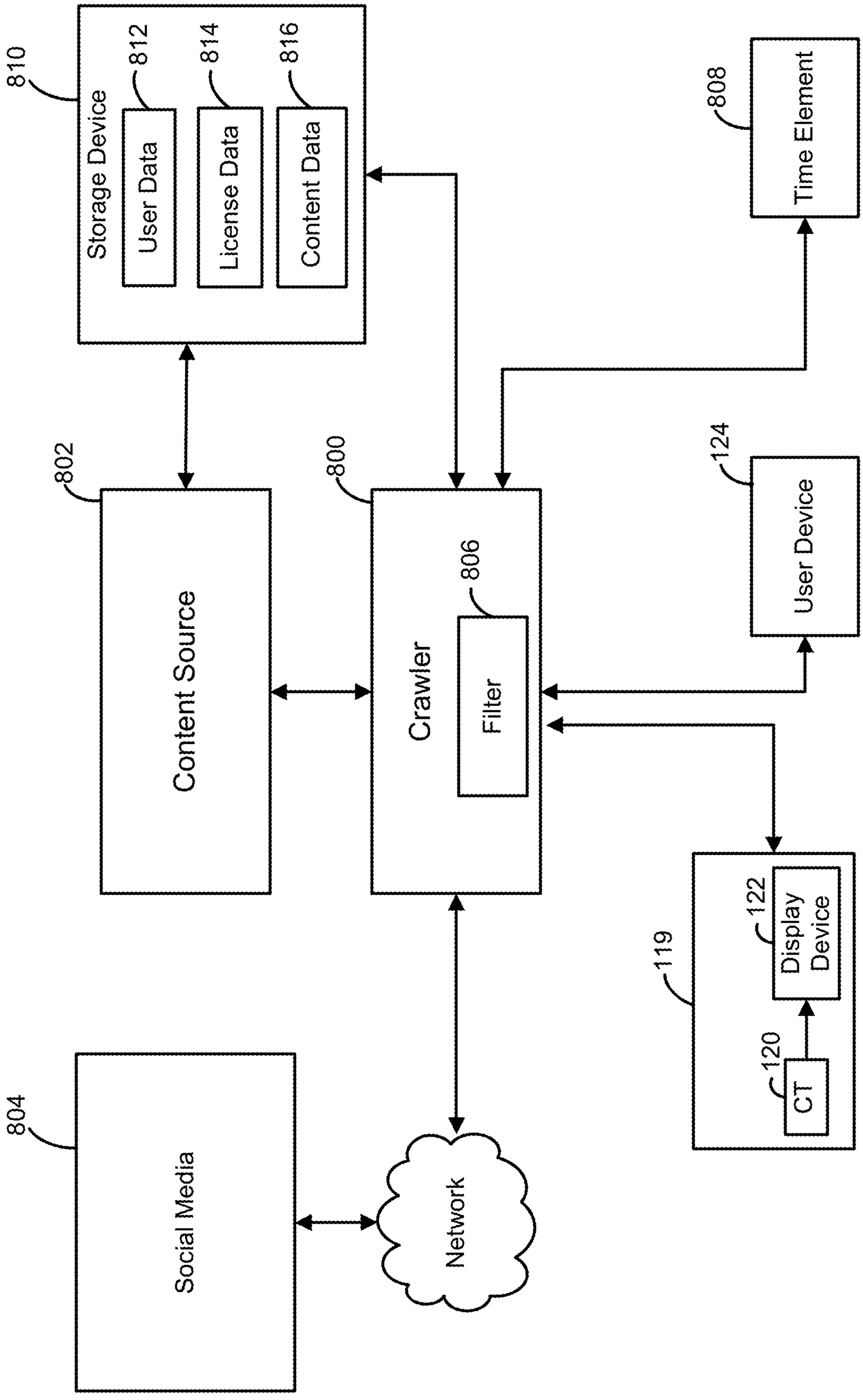

Storage Device
810
User Data
812
License Data
814
Content Data
816
Time Element
808
Content Source
802
Crawler
800
Filter
806
User Device
124
Display Device
122
119
CT
120
Social Media
804
Network

FIG. 8

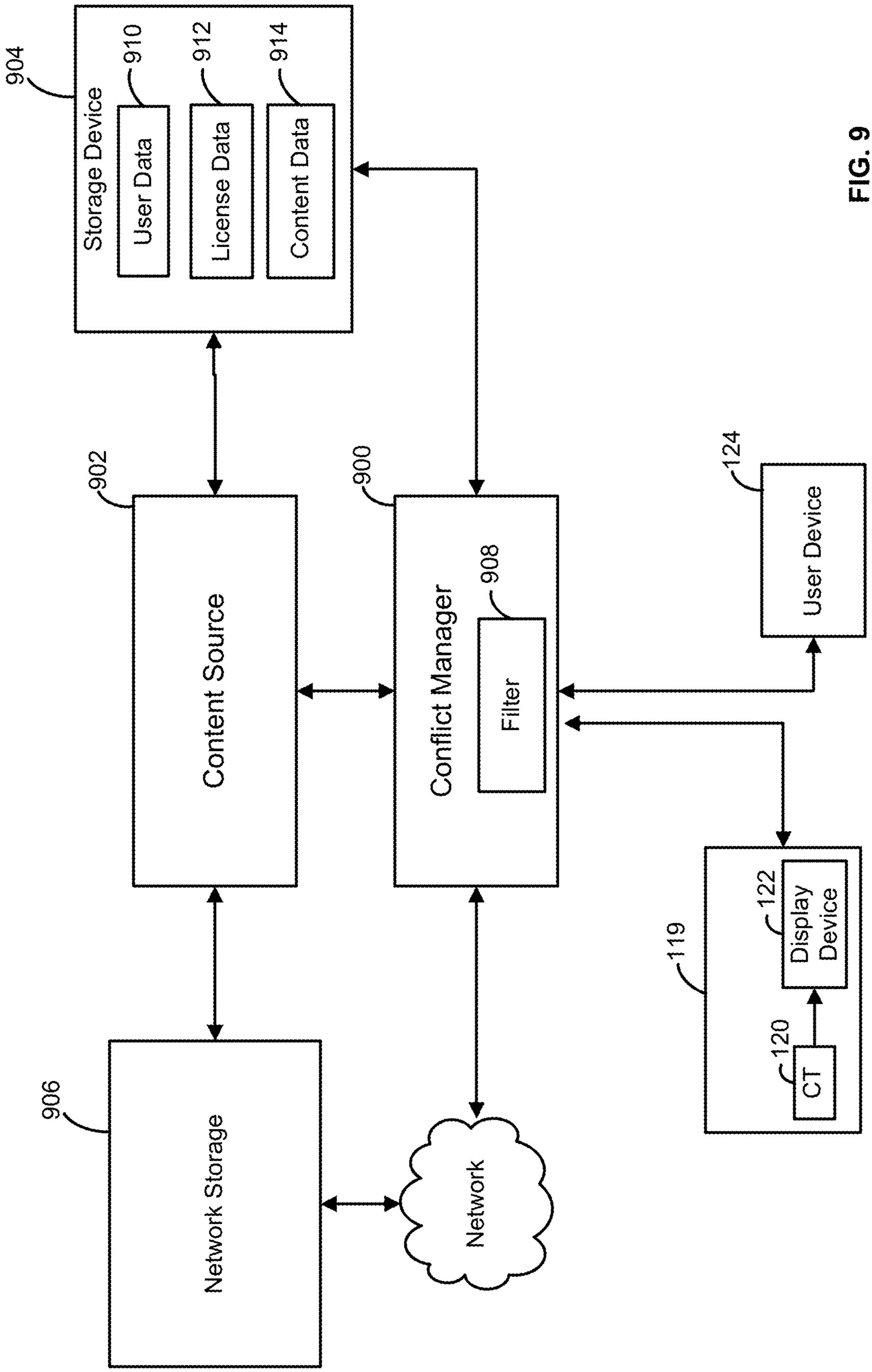

904
Storage Device
910
User Data
912
License Data
914
Content Data
902
Content Source
900
Conflict Manager
908
Filter
124
User Device
119
122
Display Device
120
CT
906
Network Storage
Network

FIG. 9

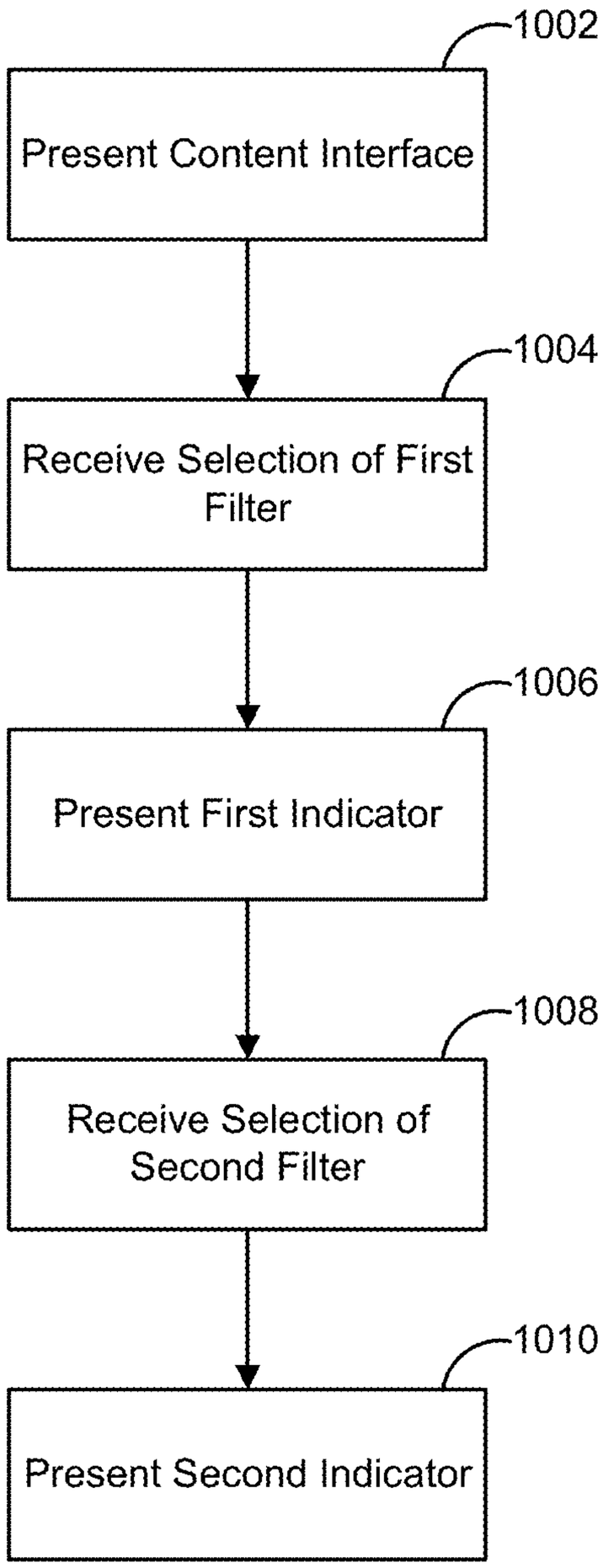

1002
Present Content Interface
1004
Receive Selection of First Filter
1006
Present First Indicator
1008
Receive Selection of Second Filter
1010
Present Second Indicator

FIG. 10A

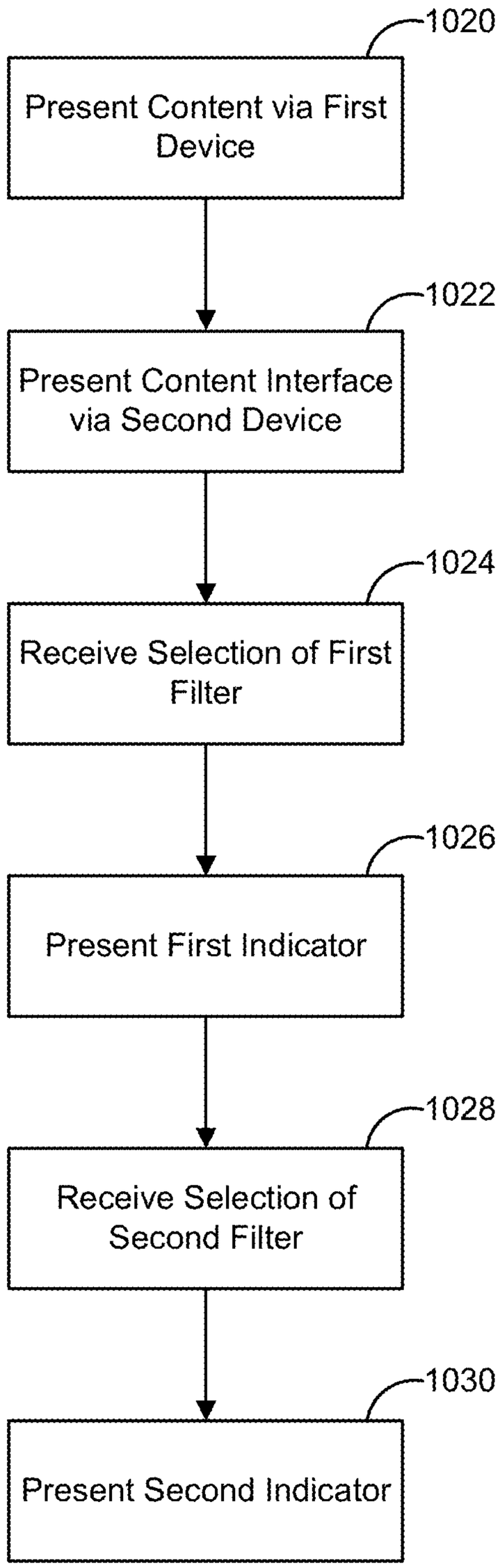

1020
Present Content via First Device
1022
Present Content Interface via Second Device
1024
Receive Selection of First Filter
1026
Present First Indicator
1028
Receive Selection of Second Filter
1030
Present Second Indicator

FIG. 10B

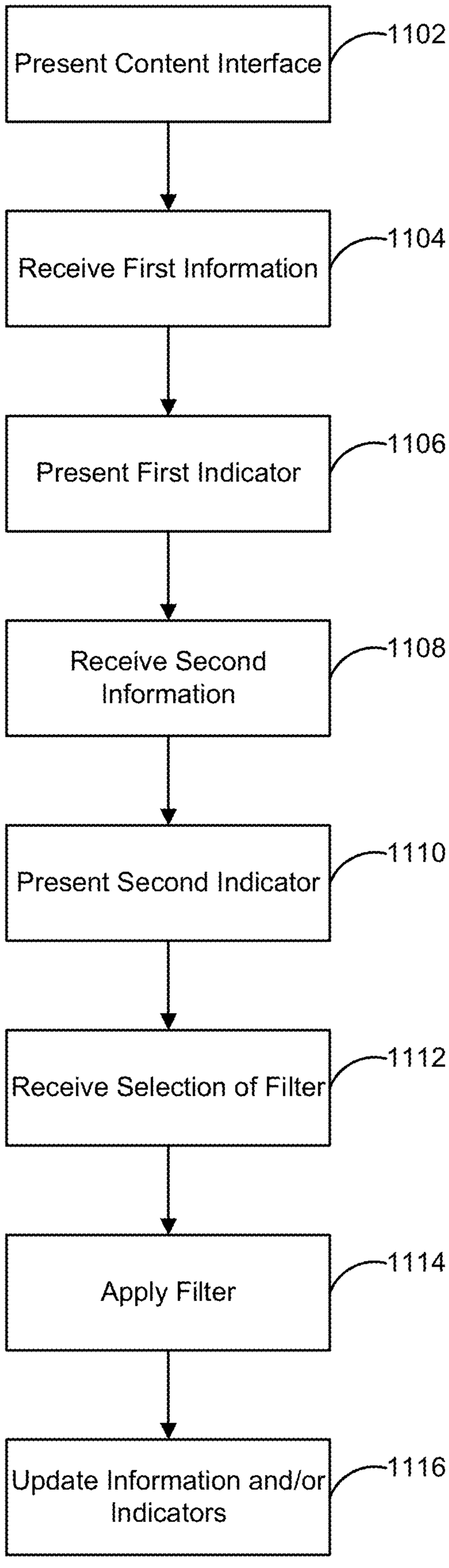

Present Content Interface
1102
Receive First Information
1104
Present First Indicator
1106
Receive Second Information
1108
Present Second Indicator
1110
Receive Selection of Filter
1112
Apply Filter
1114
Update Information and/or Indicators
1116

FIG. 11

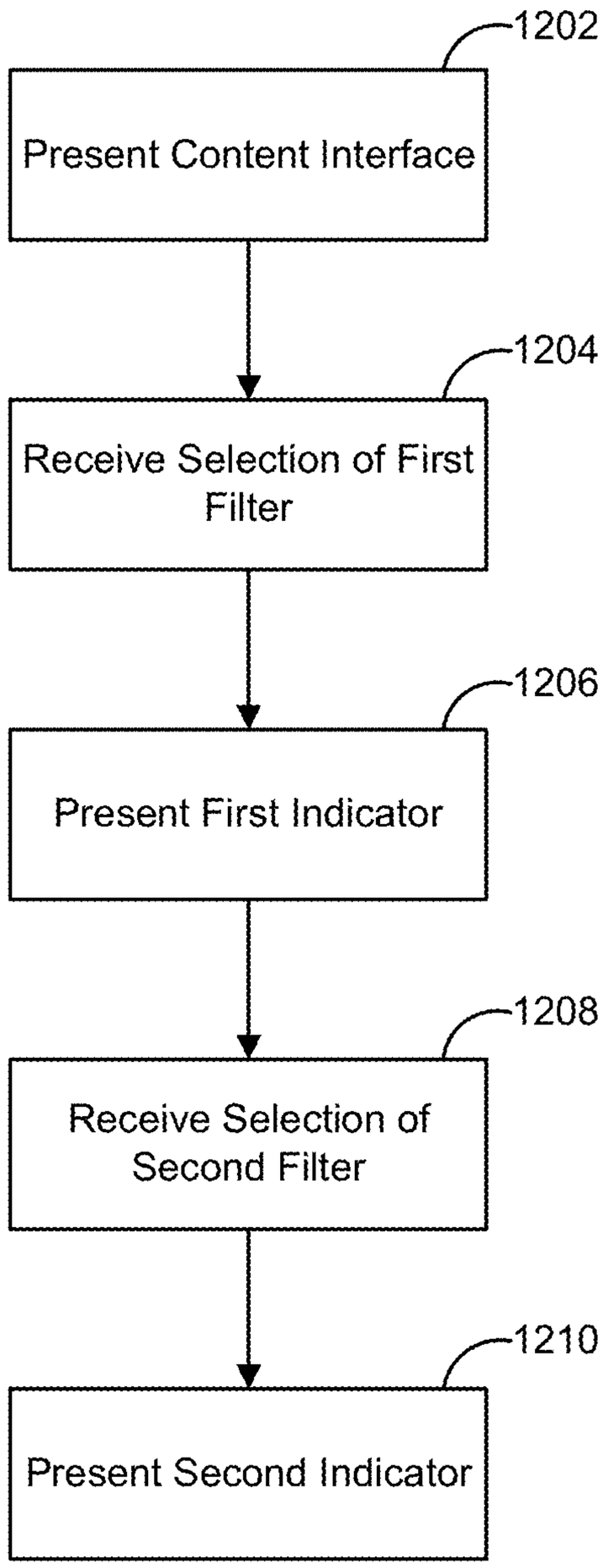

1202
Present Content Interface
1204
Receive Selection of First Filter
1206
Present First Indicator
1208
Receive Selection of Second Filter
1210
Present Second Indicator

FIG. 12

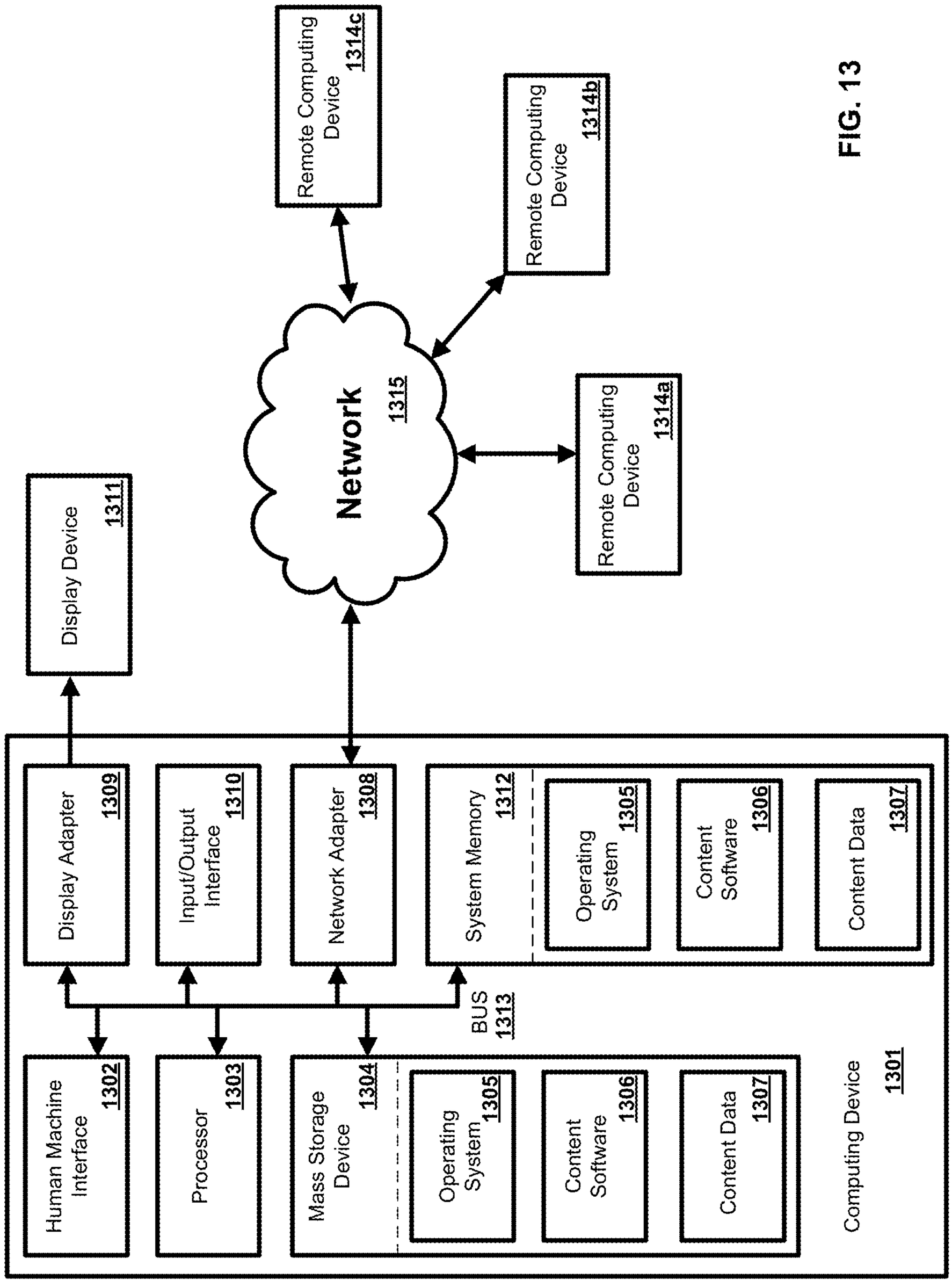

Remote Computing Device 1314c
Remote Computing Device 1314b
Network 1315
Remote Computing Device 1314a
Display Device 1311
Display Adapter 1309
Input/Output Interface 1310
Network Adapter 1308
System Memory 1312
Operating System 1305
Content Software 1306
Content Data 1307
BUS 1313
Human Machine Interface 1302
Processor 1303
Mass Storage Device 1304
Operating System 1305
Content Software 1306
Content Data 1307
Computing Device 1301

FIG. 13

ENHANCED CONTENT INTERFACE

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. application Ser. No. 15/721,282, filed Sep. 29, 2017, which is a continuation of U.S. application Ser. No. 13/779,085, filed Feb. 27, 2013, and issued as U.S. Pat. No. 9,826,275, both of which are herein incorporated by reference in their entirety.

BACKGROUND

[0002] As the amount of communication increases, users of media networks are provided with an increasing number of options for content programming. For example, while users were once provided with only a few television channels, now hundreds of program channels are available, as well as interactive applications. Because of the large number of options now available, users often utilize a program guide. The program guide can be configured with a graphical user interface for navigating the plurality of program channels and/or services provided in the media network. In addition, the program guide can include logic for arranging the program options in one or more configurations, including arranging the program options by title, channel, and/or theme. As an example, the program guide can allow a viewer to use a remote control device to scroll through content as desired, both horizontally across time and vertically through the channel grid.

[0003] However, current content devices and program guides do not provide a sufficient means to present increasing viewing options such as supplemental content information, while providing a unique user experience. These and other shortcomings are addressed by the present disclosure.

SUMMARY

[0004] It is to be understood that both the following general description and the following detailed description are exemplary and explanatory only and are not restrictive. Provided are methods and systems for presenting content.

[0005] In an aspect, methods can comprise presenting an interface comprising a field relating to content. A selection of one or more of a plurality of filters can be received. A first indicator can be presented, the first indicator representing first information if a first one of the plurality of filters is selected. The first information can relate to the field. A second indicator can be presented, the second indicator representing second information if a second one of the plurality of filters is selected. The second information can relate to the field.

[0006] In another aspect, methods can comprise presenting an interface (e.g., content guide) comprising a field relating to content. First information can be received relating to the content. Second information can be received relating to the content. A first indicator can be presented representing the first information. A second indicator can be presented representing the second information. A selection of a filter can be received. One or more of the first information and the second information can be filtered based upon the selected filter. One or more of the first indicator and the second indicator can be updated based on one or more of the filtered first information and the filtered second information.

[0007] In a further aspect, methods can comprise presenting an interface, such as a content guide, comprising a field relating to content. First information relating to the content can be received from a first source. Second information relating to the content can be received from a second source. The first source and the second source can be the same or different. A selection of one or more of a plurality of filters can be received. A first indicator representing the first information can be presented if a first one of the plurality of filters is selected. The first indicator can be presented adjacent the field. A second indicator representing the second information can be presented if a second one of the plurality of filters is selected. The second indicator can be presented adjacent the field.

[0008] Additional advantages will be set forth in part in the description which follows or may be learned by practice. The advantages will be realized and attained by means of the elements and combinations particularly pointed out in the appended claims. It is to be understood that both the foregoing general description and the following detailed description are exemplary and explanatory only and are not restrictive, as claimed.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate embodiments and together with the description, serve to explain the principles of the methods and systems:

[0010] FIG. **1** is a block diagram of an exemplary network;

[0011] FIG. **2** is a graphical representation of an exemplary user interface;

[0012] FIG. **3** is a graphical representation of an exemplary user interface;

[0013] FIG. **4** is a graphical representation of an exemplary user interface;

[0014] FIG. **5**A is a graphical representation of an exemplary user interface;

[0015] FIG. **5**B is a graphical representation of an exemplary user interface;

[0016] FIG. **6** is a graphical representation of an exemplary user interface;

[0017] FIG. **7** is a graphical representation of an exemplary user interface;

[0018] FIG. **8** is a block diagram of an exemplary system and network;

[0019] FIG. **9** is a block diagram of an exemplary system and network;

[0020] FIG. **10**A is a flow chart of an exemplary method;

[0021] FIG. **10**B is a flow chart of an exemplary method;

[0022] FIG. **11** is a flow chart of an exemplary method;

[0023] FIG. **12** is a flow chart of an exemplary method; and

[0024] FIG. **13** is a block diagram of an exemplary computing device.

DETAILED DESCRIPTION

[0025] Before the present methods and systems are disclosed and described, it is to be understood that the methods and systems are not limited to specific methods, specific components, or to particular implementations. It is also to be understood that the terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting.

[0026] As used in the specification and the appended claims, the singular forms "a," "an," and "the" include plural referents unless the context clearly dictates otherwise. Ranges may be expressed herein as from "about" one particular value, and/or to "about" another particular value. When such a range is expressed, another embodiment includes from the one particular value and/or to the other particular value. Similarly, when values are expressed as approximations, by use of the antecedent "about," it will be understood that the particular value forms another embodiment. It will be further understood that the endpoints of each of the ranges are significant both in relation to the other endpoint, and independently of the other endpoint.

[0027] "Optional" or "optionally" means that the subsequently described event or circumstance may or may not occur, and that the description includes instances where said event or circumstance occurs and instances where it does not.

[0028] Throughout the description and claims of this specification, the word "comprise" and variations of the word, such as "comprising" and "comprises," means "including but not limited to," and is not intended to exclude, for example, other components, integers or steps. "Exemplary" means "an example of" and is not intended to convey an indication of a preferred or ideal embodiment. "Such as" is not used in a restrictive sense, but for explanatory purposes.

[0029] Disclosed are components that can be used to perform the disclosed methods and systems. These and other components are disclosed herein, and it is understood that when combinations, subsets, interactions, groups, etc. of these components are disclosed that while specific reference of each various individual and collective combinations and permutation of these may not be explicitly disclosed, each is specifically contemplated and described herein, for all methods and systems. This applies to all aspects of this application including, but not limited to, steps in disclosed methods. Thus, if there are a variety of additional steps that can be performed it is understood that each of these additional steps can be performed with any specific embodiment or combination of embodiments of the disclosed methods.

[0030] The present methods and systems may be understood more readily by reference to the following detailed description of preferred embodiments and the examples included therein and to the Figures and their previous and following description.

[0031] As will be appreciated by one skilled in the art, the methods and systems may take the form of an entirely hardware embodiment, an entirely software embodiment, or an embodiment combining software and hardware aspects. Furthermore, the methods and systems may take the form of a computer program product on a computer-readable storage medium having computer-readable program instructions (e.g., computer software) embodied in the storage medium. More particularly, the present methods and systems may take the form of web-implemented computer software. Any suitable computer-readable storage medium may be utilized including hard disks, CD-ROMs, optical storage devices, or magnetic storage devices.

[0032] Embodiments of the methods and systems are described below with reference to block diagrams and flowchart illustrations of methods, systems, apparatuses and computer program products. It will be understood that each block of the block diagrams and flowchart illustrations, and combinations of blocks in the block diagrams and flowchart illustrations, respectively, can be implemented by computer program instructions. These computer program instructions may be loaded onto a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the instructions which execute on the computer or other programmable data processing apparatus create a means for implementing the functions specified in the flowchart block or blocks.

[0033] These computer program instructions may also be stored in a computer-readable memory that can direct a computer or other programmable data processing apparatus to function in a particular manner, such that the instructions stored in the computer-readable memory produce an article of manufacture including computer-readable instructions for implementing the function specified in the flowchart block or blocks. The computer program instructions may also be loaded onto a computer or other programmable data processing apparatus to cause a series of operational steps to be performed on the computer or other programmable apparatus to produce a computer-implemented process such that the instructions that execute on the computer or other programmable apparatus provide steps for implementing the functions specified in the flowchart block or blocks.

[0034] Accordingly, blocks of the block diagrams and flowchart illustrations support combinations of means for performing the specified functions, combinations of steps for performing the specified functions and program instruction means for performing the specified functions. It will also be understood that each block of the block diagrams and flowchart illustrations, and combinations of blocks in the block diagrams and flowchart illustrations, can be implemented by special purpose hardware-based computer systems that perform the specified functions or steps, or combinations of special purpose hardware and computer instructions.

[0035] FIG. **1** illustrates various aspects of an exemplary network in which the present methods and systems can operate. The present disclosure relates to systems and methods for presenting data such as content. Those skilled in the art will appreciate that present methods may be used in systems that employ both digital and analog equipment. One skilled in the art will appreciate that provided herein is a functional description and that the respective functions can be performed by software, hardware, or a combination of software and hardware.

[0036] In an aspect, network **100** can comprise a central location **101** (e.g., a control or processing facility in a fiber optic network, wireless network or satellite network, a hybrid-fiber coaxial (HFC) content distribution center, a processing center, headend, etc.), which can receive content (e.g., data, input programming, and the like) from multiple sources. The central location **101** can combine the content from the various sources and can distribute the content to user (e.g., subscriber) locations (e.g., location **119**) via distribution system **116**.

[0037] In an aspect, the central location **101** can create content or receive content from a variety of sources **102***a*, **102***b*, **102***c*. The content can be transmitted from the source to the central location **101** via a variety of transmission paths, including wireless (e.g. satellite paths **103***a*, **103***b*) and terrestrial path **104**. The central location **101** can also receive content from a direct feed source **106** via a direct line **105**. Other input sources can comprise capture devices such

as a video camera **109** or a server **110**. The signals provided by the content sources can include, for example, a single content item or a multiplex that includes several content items. In an aspect, the central location **101** can create and/or receive applications, such as interactive applications. Such applications can be related to particular content.

[0038] The central location **101** can comprise one or a plurality of receivers **111***a*, **111***b*, **111***c*, **111***d* that are each associated with an input source. For example, MPEG encoders, such as encoder **112**, are included for encoding local content or a video camera **109** feed. A switch **113** can provide access to server **110**, which can be a Pay-Per-View server, a data server, an internet router, a network system, a phone system, and the like. Some signals may require additional processing, such as signal multiplexing, prior to being modulated. Such multiplexing can be performed by multiplexer (mux) **114**.

[0039] The central location **101** can comprise one or a plurality of modulators **115** for interfacing to the distribution system **116**. The modulators can convert the received content into a modulated output signal suitable for transmission over the distribution system **116**. The output signals from the modulators can be combined, using equipment such as a combiner **117**, for input into the distribution system **116**.

[0040] A control system **118** can permit a system operator to control and monitor the functions and performance of network **100**. The control system **118** can interface, monitor, and/or control a variety of functions, including, but not limited to, the channel lineup for the television system, billing for each user, conditional access for content distributed to users, and the like. Control system **118** can provide input to the modulators for setting operating parameters, such as system specific MPEG table packet organization or conditional access information. The control system **118** can be located at central location **101** or at a remote location.

[0041] The distribution system **116** can distribute signals from the central location **101** to user locations, such as user location **119**. The distribution system **116** can be an optical fiber network, a coaxial cable network, a hybrid fiber-coaxial network, a wireless network, a satellite system, a direct broadcast system, or any combination thereof. There can be a multitude of user locations connected to distribution system **116**. At user location **119**, there may be an interface comprising a decoder **120**, such as a gateway or communications terminal (CT) can decode, if needed, the signals for display on a display device **121**, such as on a television set (TV) or a computer monitor. Various wireless devices may also be connected to the network at, or proximate, user location **119**. Those skilled in the art will appreciate that the signal can be decoded in a variety of equipment, including a CT, a computer, a TV, a monitor, or satellite dish. In an exemplary aspect, the methods and systems disclosed can be located within, or performed on, one or more CT's **120**, display devices **121**, central locations **101**, DVR's, home theater PC's, and the like. As an example, a storage device **122** can be in communication with one or more of the CT **120**, the display device **121**, and the central location **101** to send/receive content therebetween. As a further example, the storage device **122** can be located remotely from the user location **119**, such as network storage. In an aspect, a software such as operating software, control software, or application software can be stored on the storage device **122**.

[0042] In an aspect, user location **119** is not fixed. By way of example, a user can receive content from the distribution system **116** on a mobile device such as a laptop computer, PDA, smartphone, GPS, vehicle entertainment system, portable media player, and the like.

[0043] In an aspect, a user device **124** can receive signals from the distribution system **116** for rendering content on the user device **124**. As an example, rendering content can comprise providing audio and/or video, displaying images, facilitating an audio or visual feedback, tactile feedback, and the like. However, other content can be rendered via the user device **124**. In an aspect, the user device **124** can be an CT, a set-top box, a television, a computer, a smartphone, a laptop, a tablet, a multimedia playback device, a portable electronic device, and the like. As an example, the user device **124** can be an Internet Protocol compatible device for receiving signals via a network **125** such as the Internet or some other communications network for providing content to the user. As another example, the user device **124** can be configured as a second screen device. As a further example, the user device **124** can be configured to supplement content presented via the display **121**. It is understood that other display devices and networks can be used. It is further understood that the user device **124** can be a widget or a virtual device for displaying content in a picture-in-picture environment such as on the display device **121**, for example.

[0044] In an aspect, one or more of the CT **120** and the user device **124** can comprise a user interface **126**. As an example, the user interface **124** can user facilitate interaction between a user and one or more of the CT **120** and the user device **124**. As a further example, the user interface **126** can provide feedback to the user. In an aspect, the user interface **126** can receive an input, allowing the users to manipulate control functions associated with the one or more of the CT **120** and the user device **124**. As an example, the user interface **126** can provide an output, allowing the one or more of the CT **120** and the user device **124** to indicate the effects of the received input. As a further example, the user interface **126** can present content such as program guide listings and related information.

[0045] In an aspect, the user interface **126** can obtain program guide listings from an electronic program listing database **128** and display the program guide listings. The user interface **126** can display program guide information for programs that are available for viewing on the mobile terminal at that time. The user interface **126** can display program guide information listings for multiple programs one after another and may display each program guide listing for a predetermined time range. A user may specify and store personal interest rules for the user interface **126** to alert the user when the user interface **126** is displaying information for a certain program, or for a certain genre of program.

[0046] In an aspect, the methods and systems can provide an integrated presentation of content with program guide information. As an example, the methods and systems can provide an enhanced content guide, e.g., via the user interface **126**, comprising supplemental content information relating to content such as media programs. As a further example, the methods and systems provide supplemental content information such as program description, reviews, social commentary, and/or content statistics. In an aspect, the methods and systems can provide a unique user experience by presenting icons, images, audio, colorization, and/or visual effects to represent the supplemental information.

[0047] FIG. **2** illustrates an example of the user interface **126**. In an aspect, the user interface **126** can comprise an interface such as content guide **200**. As an example, the content guide **200** can present program guide information to a user. As another example, portions of the content guide **200** can be presented in a grid configuration. As a further example, the content guide **200** can present the program guide information and/or other content in a grid-like configuration. In an aspect, the grid-like configuration of the content guide **200** can comprise selectable and/or searchable entries **201** or listings. A user can interact with the content guide **200** to search the available content, such as one or more of the entries **201** for presentation. As an example, a user can use a controller (not shown) to select and/or highlight a particular available programming, such as a television show, movie, music, or other content or entries **201**, for presentation.

[0048] In an aspect, the user interface **126** can present content information **202** to a user. As an example, the content information **202** can comprise commentary, supplemental information, popularity information, statistical information, and/or classifiers relating to content such as images, audio, video, text, user contacts, user profiles, buddy lists, playlists, social networks, commentary, and the like. As a further example, the content information **202** can be contextually related to content displayed via the content guide **200**. In an aspect, the user interface **126** can be presented via a second device (e.g., second screen device), wherein the user interface **126** can present information relating to content presented via a first device.

[0049] The content information **202** can comprise a social media feed displayed on the user interface **126** and/or in conjunction with the content guide **200**. For example, the social media feed can be displayed as a closed caption streaming banner, while related content is being displayed via the content guide **200**. Accordingly, members of a particular social media group can comment among themselves about the content. As a further example, the social media feed can be presented on the user device **124** while related content is being presented via the display **122**.

[0050] In an aspect, the social media feed can be filtered to prevent certain content from being presented. As an example, parental control locks can be configured to filter the content presented via the social media feed. As a further example, content presented via the social media feed can be configured based upon pre-defined parameters. In an aspect, the parameters for configuring the social media feed can comprise classifying content. As an example, content presented via the social media feed can be classified by related actors, genre, mood, social commentary, and the like.

[0051] In an aspect, the user interface **126** can comprise a viewing window **204**. As an example, the viewing window **204** can display information such as video content, text, images, and the like relating to content displayed via the content guide **200**. As a further example, the viewing window **204** can present a preview of content to a user when a user selects and/or highlights a particular one of the listings **201** of the content guide **204**.

[0052] In an aspect, the user interface **126** can comprise one or more filters **206**. As an example, the filters can block or allow certain content information **202**, content, and/or indicators. As a further example, an indicator **208** can be presented or hidden based upon the selection of one or more of the filters **206**. In an aspect, a first one of the filters **206** can be associated with commentary from members of a particular social network. Accordingly, when the first one of the filters is selected, the commentary such as user comments, posts, feedback, communications, and the like, can be presented via the user interface **126**. However, when the first one of the filters **206** is not selected, the commentary may not be presented. In an aspect, a second one of the filters **206** can be associated with statistics such as a number of current viewers (e.g., Nielsen rating) of a particular content program. Accordingly, when the second one of the filters **206** is selected, the statistics can be presented via the user interface **126**. However, when the second one of the filters **206** is not selected, the statistics may not be presented.

[0053] FIG. **3** illustrates an example of the user interface **126**. The user interface **126** illustrated in FIG. **3** will be discussed, for example, in reference to FIGS. **1-2**. In an aspect, the user interface **126** can comprise a search element **300**. The search element **300** can be configured to receive a search term such as by typing the search term in a dialog box associated with the search element **300**. In an aspect, the search element **300** can be a type of filter element, such as filter elements **206** (FIG. **2**) for allowing and/or blocking content. As an example, the search element **300** can be presented in conjunction with an interface such as the content guide **200**. As a further example, the content guide **200** can be presented as a grid. In an aspect, when a search term is provided to the search element **300**, the content guide **200** can be automatically filtered by the search term. For example, as a user types the word "MOVIE" into the search element **200**, the content guide **200** would automatically limit content presented via the content guide **200** to programs that are classified as "movies," as shown in FIG. **3**. As another example, as a user types the word "STAR" into the search element **200**, the content guide **200** would automatically limit content presented via the content guide **200** to programs that begin with "STAR" (e.g., Star Trek, Star Wars, etc). As a further example, as a user types the time "9:00" into the search element **200**, the content guide **200** would automatically limit content presented via the content guide **200** to programs that are available at 9:00 pm and 9:00 am. Any number of free form search terms can be provided to the search element **300**.

[0054] FIG. **4** illustrates an example of the user interface **126**. The user interface **126** illustrated in FIG. **4** will be discussed, for example, in reference to FIGS. **1-2**. In an aspect, the user interface **126** can comprise a filter element **400**. Filter element **400** can be one of the filter elements **206** (FIG. **2**) or similar thereto. As an example, the filter element **400** can be associated with statistics such as a number of current viewers (e.g., Nielsen rating) of a particular content program. Accordingly, when the filter element **400** is selected, the statistics can be presented via the user interface **126**. However, when the filter element **400** is not selected, the statistics may not be presented.

[0055] In an aspect, when the filter element **400** is selected, an indicator **402** can be presented. As an example, the indicator **402** can be a visual effect or image. As a further example, the indicator **402** can comprise a heat map. In an aspect, the indicator **402** can comprise colors such as red and/or icons such as flames to indicate extremely popular or hot shows, as shown in FIG. **4**. As an example, any visual effect, icons, and/or images can be presented to represent any supplemental information such as content statistics, popularity, and the like. As a further example, information

relating to the number of user tuning into a particular program can be collected and/or aggregated to represent a popularity trend. Such a trend can be represented by the indicator **402** to provide a unique user experience, as well as, supplemental information (e.g., popularity) relating to content such as images, audio, video, social commentary, media, and the like.

[0056] FIGS. **5**A-**5**B illustrate examples of the user interface **126**. The user interface **126** illustrated in FIGS. **5**A-**5**B will be discussed, for example, in reference to FIGS. **1**-**2**. In an aspect, the user interface **126** can comprise a filter element **500**. Filter element **500** can be one of the filter elements **206** (FIG. **2**) or similar thereto. As an example, the filter element **500** can be associated with information collected from a pre-defined group of users such as a social network, buddy list, or contacts database. Accordingly, when the filter element **500** is selected, the information collected from a pre-defined group of users can be presented via the user interface **126**. However, when the filter element **500** is not selected, the information collected from a pre-defined group of users may not be presented.

[0057] In an aspect, when the filter element **500** is selected, an indicator **502** can be presented. As an example, the indicator **502** can be a visual effect or image. As a further example, the indicator **502** can comprise a color gradient to indicate trends. As an example, any visual effect, icons, and/or images can be presented to represent any supplemental information such as content statistics, popularity, and the like. As a further example, information relating to the reviews provided by members of a particular group can be collected and/or aggregated to represent a likeability or trend relating to content. Such a trend can be represented by the indicator **502** to provide a unique user experience, as well as, supplemental information (e.g., trend data, likeability, user reviews) relating to content. In an aspect, the indicator **502** can represent a temporal trend in the supplemental information. For example, when a particular content program is gaining likeability, a density of a color gradient can increase. Other visual effects, colors, and images can be used to represent supplemental content information. In an aspect, audio effects can be used to represent supplemental content information and to provide a unique user experience. As an example, an audio effect such as a tone, voice, sound, or sequence of sounds, or the like, can be used when a user highlights certain content, the audio effect indicating supplemental information (e.g., trend data, likeability, popularity, etc.).

[0058] As more clearly shown in FIG. **5**B, the indicator **502** can indicate information relating to social networking. As an example, trending information for one or more friend networks **504***a*, **504***b* can be represented by the indicator **502**. As another example, the popularity of one or more classifiers **506***a*, **506***b* of social commentary **508** can be represented by the indicator **502**. As a further example, the classifiers **506***a*, **506***b* can comprise topics, threads, location, groups of users/devices, and the like. Other filters and indicators can be applied to social networking information.

[0059] FIG. **6** illustrates an example of the user interface **126**. The user interface **126** illustrated in FIG. **6** will be discussed, for example, in reference to FIGS. **1**-**2**. In an aspect, the user interface **126** can comprise a filter element **600**. Filter element **600** can be one of the filter elements **206** (FIG. **2**) or similar thereto. As an example, the filter element **600** can be associated with supplemental information such as content classifiers, historical information, awards, commentary, mood, and the like. Accordingly, when the filter element **600** is selected, the supplemental information can be presented via the user interface **126**. However, when the filter element **600** is not selected, the supplemental information may not be presented.

[0060] In an aspect, when the filter element **600** is selected, one or more indicators **602** can be presented. As an example, the indicators **602** can be a visual effect or images. As a further example, the indicators **602** can comprise one or more visual icons, as shown in FIG. **6**. In an aspect, any visual effect, icons, and/or images can be presented to represent any supplemental information such as content classifiers, historical information, awards, commentary, mood, and the like. As an example, the indicators **602** can represent a number of times a particular content program has been watched and the watch rates by one or more users. As a further example, the indicators **602** can represent a content classifier such as classic content, cult status, viral status, Oscar nominated, Oscar winner, Golden Globe Nominated, Golden Globe winner, Emmy nominated, Emmy winner, and the like. In an aspect, the indicators **602** can represent whether a parody, remake, and/or spoof of a particular content program has been created and/or is available (e.g., on another channel, on-demand, or stored recording).

[0061] In an aspect, the indicators **602** can represent recommendations, favorite content, shared content, or the like. As an example, one or more of the indicators **602** can highlight in a particular color, content entries that have been watched and can highlight other content entries that have not been watched. As a further example, one or more of the indicators **602** can represent recommendations from various sources such as user groups, social networks, and the like. In an aspect, the one or more of the indicators **602** can be password protected such that the presentation of the one or more of the indicators **602** is controlled by authentication of a password. As an example, the indicators **602** can be distinguished, such as by color, based upon the source of the supplemental information. As a further example, the indicators **602** can be distinguished, such as by color, based upon the device presenting the user interface **126**. As such, a device located in a child's room can present different personal recommendations than a device located in the parents' bedroom.

[0062] In an aspect, one or more of the indicators **602** can represent supplemental information available for presentation, purchase, and/or rental. For example, one or more of the indicators **602** can represent a soundtrack relating to one or more entries **201** presented via the content guide **200**. As a further example, when a user is watching a movie and hears a particular song, the user may engage one or more of the indicators **602**. Accordingly, the user can be directed to a service for purchasing the soundtrack associated with the movie. In an aspect, one or more of the indicators **602** can represent the ability to purchase and gift video on-demand (VOD) content to another person (e.g., a friend, family, and/or someone in the user's social media network). Content purchase and/or gifting, for example, can be accomplished by transmitting a token and/or other suitable indication to the user or recipient of the gift.

[0063] FIG. **7** illustrates an example of the user interface **126**. The user interface **126** illustrated in FIG. **7** will be discussed, for example, in reference to FIGS. **1**-**2**. In an aspect, the user interface **126** can comprise a filter element

700. Filter element **700** can be one of the filter elements **206** (FIG. **2**) or similar thereto. As an example, the filter element **700** can be associated with supplemental information such as mood relating to a particular content program or programs. Accordingly, when the filter element **700** is selected, the supplemental information can be presented via the user interface **126**. However, when the filter element **700** is not selected, the supplemental information may not be presented.

[0064] In an aspect, when the filter element **700** is selected, one or more indicators **702** can be presented. As an example, the indicators **702** can be a visual effect or image. As a further example, the indicators **702** can comprise one or more visual icons. In an aspect, any visual effect, icons, and/or images can be presented to represent any supplemental information such as content classifiers, historical information, awards, commentary, and the like. As an example, the indicators **702** can represent a mood classifier relating to a particular content program.

[0065] In an aspect, one or more of the indicators **702** (e.g., mood classifiers), can be used to classify one or more entries **201** presented via the user interface **200**. For example, one or more of the indicators **702** can relate to a user's mood such as happy, sad, nostalgic, angry, depressed, romantic, and the like. As a further example, one or more of the indicators **702** can relate to a user environment such as date night, first date, slumber party, holiday, and the like. In an aspect, one or more of the indicators **702** can be filtered based on time of day, device in use, device location, past consumption, and the like.

[0066] FIG. **8** illustrates an exemplary system and network. In an aspect, a crawler **800** can be in communication with one or more of the CT **120**, the user device **124**, the Internet, and/or a communication network to receive information relating to content being delivered to a particular user. As an example, the crawler **800** can comprise a web crawler, such as a computer program that browses a network (e.g., Internet) in a methodical, automated manner to retrieve such supplemental content information. In an aspect, the crawler **800** can be in communication with one or more content sources **802** and/or networks, such as a social network **804** to transmit and/or receive content and supplemental content information. As an example, the crawler **800** can comprise a filter element **806** to classify, block, and/or allow content and/or supplemental content information to be transmitted through the crawler **800**. As a further example, the crawler **800** can comprise an ant, automatic indexer, bot, Web spider, Web robot, and the like.

[0067] In an aspect, a time element **808** can be in communication with one or more of the crawler **800** to provide a timing reference thereto. As an example, the time element **808** can be a clock. As a further example, the time element **808** can transmit information to the crawler **800** for associating a time stamp with a particular event received by the crawler **800**. In an aspect, the crawler **800** can cooperate with the time element **808** to associate a time stamp with events having an effect on the content delivered to the CT **120** and/or the user device **124**, such as, for example, license request, license grant, subscription life-cycle, license denial, a channel tune, a remote tune, remote control events, playpoint audits, playback events, program events including a program start time and/or end time and/or a commercial/intermission time, and/or playlist timing events, and the like.

[0068] In an aspect, a storage device **810** can be in communication with the crawler **800** to store and/or retrieve data to/from the storage device **810**. As an example, the storage device **810** can store data relating to user data **812**, license data **814**, and/or content data **816** relating to content transmitted or scheduled to be transmitted to the CT **120** and/or the user device **124**.

[0069] In an aspect, the user data **812** can comprise information relating to relating to users, user preferences, and user devices and configurations, permissions and/or entitlements associated with a particular user and/or device. As an example, the user data **812** can comprise information, such as pre-configured settings, subscription information, identification information, location information, and/or timing information relating to a particular user or user device. In an aspect, the user data **812** can be associated with one or more content sources **802**, **804**. As a further example, the user data **812** can have time stamps or markers associated therewith.

[0070] In an aspect, the license data **814** can comprise information relating to the permissions and/or entitlements associated with a particular user and/or device. As an example, the license data **814** can comprise information relating to the access control management for a particular device and/or formatted system or software. In an aspect, the license data **814** can be associated with one or more content sources **802**, **804** and/or a content consumer (e.g., content player, encoder, rendering system, etc.). As a further example, the license data **814** can have time stamps or markers associated therewith. The storage device **810** can store information relating to users, user preferences, and user devices and configurations.

[0071] In an aspect, the content data **816** can comprise information relating to the content and/or supplemental content information available to be presented to a user. As an example, the content data **816** can comprise information, such as subscription information, identification information, statistical information, commentary, reviews, location information, timing information, and/or supplemental content information relating to a particular content, media, and/or programming. In an aspect, the content data **816** can be associated with one or more content sources **802**, **804**. As a further example, the content data **816** can have time stamps or markers associated therewith. The storage device **810** can store information relating to content, entitlement, users, devices and configurations relating to the same.

[0072] In an aspect, the crawler **800** can search various sources of content and related information and can provide such information to the user interface **126**. For example, when a user engages one or more filter elements **206**, the content guide **200** can present supplemental information retrieved by the crawler **800**. The supplemental information can be filtered such that the more relevant information is presented.

[0073] In an aspect, before, during, and/or after content presentation, the user can be presented with an opportunity to comment on and provide a review for the content presented. As an example, the crawler **800** can provide a link to services for storing and/or transmitting the collected comments and/or reviews. As a further example, the crawler **800** can search multiple information sources across the Internet and other networks to locate content purchasing information that may be available from different sources.

[0074] In an aspect, as one or more users can manage, exchange, distribute and/or view content at various locations, from various sources, with various access rights, the user interface **126** can integrate one or more indicators **208** (FIG. **2**) representing particular actions taken at any location and/or on any device across. For example, if a user watches a program, that program is marked as being watched by that user but not as being watched by other members of the user's social network. As a further example, information relating to actions taken by any member of a user group or social network can be tracked and presented via the user interface **126**.

[0075] FIG. **9** illustrates an exemplary system and network. In an aspect, a conflict manager **900** can be in communication with one or more of the CT **120**, the user device **124**, the Internet, and/or a communication network to receive information relating to content being delivered to a particular user. As an example, the conflict manager **900** can comprise a computing device and/or computer program configured to monitor one or more devices and to provide conflict information on data stored on the one or more devices. In an aspect, the conflict manager **900** can be in communication with one or more content sources **902** and/or storage, such as a storage device **904** and network storage **906** to transmit and/or receive content and supplemental content information. As an example, the conflict manager **900** can comprise a filter element **908** to classify, block, and/or allow content to be transmitted through the conflict manager **900**.

[0076] In an aspect, a storage device **904** can be in communication with the conflict manager **900** to store and/or retrieve data to/from the storage device **904**. As an example, the storage device **904** can store data relating to user data **910**, license data **912**, and or content data **914** relating to content transmitted or scheduled to be transmitted to the CT **120** and/or the user device **124**.

[0077] In an aspect, the user data **910** can comprise information relating to users, user preferences, and user devices and configurations, permissions and/or entitlements associated with a particular user and/or device. As an example, the user data **910** can comprise information, such as pre-configured settings, subscription information, identification information, location information, and/or timing information relating to a particular user or user device. In an aspect, the user data **910** can be associated with one or more content sources **902** and/or storage **904**, **906**. As a further example, the user data **910** can have time stamps or markers associated therewith.

[0078] In an aspect, the license data **912** can comprise information relating to the permissions and/or entitlements associated with a particular user and/or device. As an example, the license data **912** can comprise information relating to the access control management for a particular device and/or formatted system or software. In an aspect, the license data **912** can be associated with one or more content sources **902**, **906** and/or a content consumer (e.g., content player, encoder, rendering system, etc.). As a further example, the license data **912** can have time stamps or markers associated therewith. The storage device **904** can store information relating to users, user preferences, and user devices and configurations.

[0079] In an aspect, the content data **914** can comprise information relating to the content and/or supplemental content information available to be presented to a user. As an example, the content data **914** can comprise information, such as video data, audio data, subscription information, identification information, statistical information, commentary, reviews, location information, timing information, and/or supplemental content information relating to a particular content, media, and/or programming. In an aspect, the content data **914** can be associated with one or more content sources **902**, **906**. As a further example, the content data **914** can have time stamps or markers associated therewith. The storage device **904** can store information relating to content, entitlement, users, devices and configurations relating to the same.

[0080] In an aspect, conflict manager **900** can be configured to resolve content recording conflicts. For example, when a user selects a content program field to record and the content program relating to the field is not available, because the device has no available tuners, no data flow capacity, the program is not yet available/released, or the like, a recommendation can be generated by the conflict manager **900**. As a further example, the conflict manager can provide an alternate timeslot, media, and/or mechanism to record/purchase the program or alternate programs (e.g., related programs).

[0081] In an aspect, conflict manager **900** can be configured to monitor one or more devices to determine whether particular content is recorded on a device by the same and/or a different user and/or whether the content is dynamically available for download from an Internet source subscribed to by the user. As an example, conflict manager **900** can track viewing habits for one or more users on one or more devices. In an aspect, when content is selected to be recorded on a first user device, the conflict manager **900** can determine if the selected content is already stored on another user device. As an example, the conflict manager **900** can authenticate one or more users. As a further example, sensors, such as a finger print scanner, thumbprint reader, or other identification device, can be used on a remote control or user device to identify a particular user. As such, information relating to an identified and/or authenticated user can be collected and classified.

[0082] FIG. **10**A illustrates an exemplary method for presenting content. In step **1002**, an interface such as a content guide can be presented. In an aspect, the content guide can comprise one or more listings relating to content such as television show, movies, news, sports, video, images, music, and other media. As an example, one or more filters can be presented with the content guide. As a further example, the content guide can comprise the filters. However, the filters can be presented adjacent the content guide or on a second screen device remote from the presentation of the content guide, for example.

[0083] In step **1004**, a selection of one or more of the filters, or parameters represented by the filters, can be received. In an aspect, a user can select one or more of the filters. As an example, selection of one or more of the filters can be facilitated by a controller. As a further example, selection of one or more of the filters can be received by a computing device such as CT **120** and/or the user device **124**.

[0084] In step **1006**, a first indicator can be presented. The first indicator can be an image, text, colorization, icon, video, audio, and the like. In an aspect, the first indicator can represent first information such as content information. As an example, the first indicator can be presented in response

to a selection of a first one of the filters. As a further example, the first information relates to one or more entries presented in the content guide.

[0085] In an aspect, the first information can comprise content commentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the first information can relate to popularity of particular content. As an example, the first information can comprise current viewing statistics of particular content. As a further example, the first information can relate to a mood of a user. In an aspect, the first information can comprise supplemental information relating to particular content. As an example, the supplemental information can contextually relate to the particular content.

[0086] In step **1008**, a selection of one or more of the filters, or parameters represented by the filters, can be received. In an aspect, a user can select one or more of the filters. As an example, selection of one or more of the filters can be facilitated by a controller. As a further example, selection of one or more of the filters can be received by a computing device such as CT **120** and/or the user device **124**.

[0087] In step **1010**, a second indicator can be presented. The second indicator can be an image, text, colorization, icon, video, audio, and the like. In an aspect, the second indicator can represent second information such as content information. As an example, the second indicator can be presented in response to a selection of a second one of the filters. As a further example, the second information relates to one or more entries presented in the content guide.

[0088] In an aspect, the second information can comprise content commentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the second information can relate to popularity of particular content. As an example, the second information can comprise current viewing statistics of particular content. As a further example, the second information can relate to a mood of a user. In an aspect, the second information can comprise supplemental information relating to particular content. As an example, the supplemental information can contextually relate to the particular content.

[0089] FIG. **10**B illustrates an exemplary method for presenting content. In step **1020**, content such as television show, social media, movies, news, sports, video, images, music, and other media can be presented via a first device such as a decoder, a display, a user device, and the like. In step **1022**, an interface such as a content guide can be presented via a second device (e.g., a second screen device). In an aspect, the content guide can comprise one or more fields relating to content presented via the first device. As an example, one or more filters can be presented with the content guide. As a further example, the content guide can comprise the filters. However, the filters can be presented adjacent the content guide or on a second screen device remote from the presentation of the content guide, for example.

[0090] In step **1024**, a selection of one or more of the filters, or parameters represented by the filters, can be received. In an aspect, a user can select one or more of the filters. As an example, selection of one or more of the filters can be facilitated by a controller. As a further example, selection of one or more of the filters can be received by a computing device such as CT **120** and/or the user device **124**.

[0091] In step **1026**, a first indicator can be presented. The first indicator can be an image, text, colorization, icon, video, audio, and the like. In an aspect, the first indicator can represent first information such as content information. As an example, the first indicator can be presented in response to a selection of a first one of the filters. As a further example, the first information relates to one or more entries presented in the content guide.

[0092] In an aspect, the first information can comprise content commentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the first information can relate to popularity of particular content. As an example, the first information can comprise current viewing statistics of particular content. As a further example, the first information can relate to a mood of a user. In an aspect, the first information can comprise supplemental information relating to particular content. As an example, the supplemental information can contextually relate to the particular content.

[0093] In step **1028**, a selection of one or more of the filters, or parameters represented by the filters, can be received. In an aspect, a user can select one or more of the filters. As an example, selection of one or more of the filters can be facilitated by a controller. As a further example, selection of one or more of the filters can be received by a computing device such as CT **120** and/or the user device **124**.

[0094] In step **1030**, a second indicator can be presented. The second indicator can be an image, text, colorization, icon, video, audio, and the like. In an aspect, the second indicator can represent second information such as content information. As an example, the second indicator can be presented in response to a selection of a second one of the filters. As a further example, the second information relates to one or more entries presented in the content guide.

[0095] In an aspect, the second information can comprise content commentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the second information can relate to popularity of particular content. As an example, the second information can comprise current viewing statistics of particular content. As a further example, the second information can relate to a mood of a user. In an aspect, the second information can comprise supplemental information relating to particular content. As an example, the supplemental information can contextually relate to the particular content.

[0096] FIG. **11** illustrates an exemplary method for presenting content. In step **1102**, an interface such as a content guide can be presented. In an aspect, the content guide can comprise one or more listings relating to content such as television show, movies, news, sports, video, images, music, and other media. As an example, one or more filters can be presented with the content guide. As a further example, the content guide can comprise the filters. However, the filters can be presented adjacent the content guide or on a second screen device remote from the presentation of the content guide, for example.

[0097] In step **1104**, first information can be received. In an aspect, the first information can comprise content com-

mentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the first information can relate to popularity of particular content. As an example, the first information can comprise current viewing statistics of particular content. As a further example, the first information can relate to a mood of a user. In an aspect, the first information can comprise supplemental content information relating to particular content. As an example, the supplemental content information can contextually relate to the particular content.

[0098] In step **1106**, a first indicator can be presented. The first indicator can be an image, text, colorization, icon, video, audio, and the like. In an aspect, the first indicator can represent the first information received. As an example, the first indicator can be presented in response to a selection of a first one of the filters. As a further example, the first information relates to one or more entries presented in the content guide.

[0099] In step **1108**, second information can be received. In an aspect, the second information can comprise content commentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the second information can relate to popularity of particular content. As an example, the second information can comprise current viewing statistics of particular content. As a further example, the second information can relate to a mood of a user. In an aspect, the second information can comprise supplemental content information relating to particular content. As an example, the supplemental content information can contextually relate to the particular content.

[0100] In step **1110**, a second indicator can be presented. The second indicator can be an image, text, colorization, icon, video, audio, and the like. In an aspect, the second indicator can represent the second information received. As an example, the second indicator can be presented in response to a selection of a second one of the filters. As a further example, the second information relates to one or more entries presented in the content guide.

[0101] rise co **1112**, a selection of one or more of the filters, or parameters represented by the filters, can be received. In an aspect, a user can select one or more of the filters. As an example, selection of one or more of the filters can be facilitated by a controller. As a further example, selection of one or more of the filters can be received by a computing device such as CT **120** and/or the user device **124**.

[0102] In step **1114**, one or more of the first information and the second information can be filtered. In an aspect, one or more of the first information and the second information can be filtered based upon the selected filter and/or filtering parameters associated with the selected filter.

[0103] In step **1116**, one or more of the first indicator and the second indicator can be updated. In an aspect, one or more of the first indicator and the second indicator can be updated based on one or more of the filtered first information and the filtered second information.

[0104] FIG. **12** illustrates an exemplary method for presenting content. In step **1202**, an interface such as a content guide can be presented. In an aspect, the content guide can comprise one or more listings relating to content such as television show, movies, news, sports, video, images, music, and other media. As an example, one or more filters can be presented with the content guide. As a further example, the content guide can comprise the filters. However, the filters can be presented adjacent the content guide or on a second screen device remote from the presentation of the content guide, for example.

[0105] In step **1204**, a selection of a first filter can be received. In an aspect, a user can select one or more of the filters. As an example, selection of one or more of the filters can be facilitated by a controller. As a further example, selection of one or more of the filters can be received by a computing device such as CT **120** and/or the user device **124**. In another aspect, the first filter can relate content commentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the first filter can relate to popularity of particular content. As an example, the first filter can relate to current viewing statistics of particular content. As a further example, the first filter can relate to a mood of a user.

[0106] In step **1206**, a first indicator can be presented. The first indicator can be an image, text, colorization, icon, video, audio, and the like. As an example, the first indicator can be presented in response to a selection of the first filter. As a further example, the first indicator can relate to one or more entries presented in the content guide. The first indicator can be presented adjacent the field. The first indicator can be presented in any position.

[0107] In step **1208**, a selection of a second filter can be received. In an aspect, a user can select one or more of the filters. As an example, selection of one or more of the filters can be facilitated by a controller. As a further example, selection of one or more of the filters can be received by a computing device such as CT **120** and/or the user device **124**. In another aspect, the second filter can relate to content commentary. As an example, the content commentary can be classified based upon a source of the commentary or a source identifier relating to the source of the commentary. In an aspect, the second filter can relate to popularity of particular content. As an example, the second filter can relate to current viewing statistics of particular content. As a further example, the second filter can relate to a mood of a user.

[0108] In step **1210**, a second indicator can be presented. The second indicator can be an image, text, colorization, icon, video, audio, and the like. As an example, the second indicator can be presented in response to the selection of the second filter. As a further example, the second indicator can relate to one or more entries presented in the content guide. The second indicator can be presented adjacent the field. The second indicator can be presented in any position.

[0109] In an exemplary aspect, the methods and systems can be implemented on a computing system such as computing device **1301** as illustrated in FIG. **13** and described below. By way of example, one or more of the CT **120** and the user device **124** can comprise a computing device as illustrated in FIG. **13**. Similarly, the methods and systems disclosed can utilize one or more computers to perform one or more functions in one or more locations. FIG. **13** is a block diagram illustrating an exemplary operating environment for performing the disclosed methods. One skilled in the art will appreciate that provided herein is a functional description and that the respective functions can be performed by software, hardware, or a combination of software and hardware. This exemplary operating environment is only an example of an operating environment and is not

intended to suggest any limitation as to the scope of use or functionality of operating environment architecture. Neither should the operating environment be interpreted as having any dependency or requirement relating to any one or combination of components illustrated in the exemplary operating environment.

[0110] The present methods and systems can be operational with numerous other general purpose or special purpose computing system environments or configurations. Examples of well known computing systems, environments, and/or configurations that can be suitable for use with the systems and methods comprise, but are not limited to, personal computers, server computers, laptop devices, and multiprocessor systems. Additional examples comprise set top boxes, programmable consumer electronics, network PCs, minicomputers, mainframe computers, distributed computing environments that comprise any of the above systems or devices, and the like.

[0111] The processing of the disclosed methods and systems can be performed by software components. The disclosed systems and methods can be described in the general context of computer-executable instructions, such as program modules, being executed by one or more computers or other devices. Generally, program modules comprise computer code, routines, programs, objects, components, data structures, etc. that perform particular tasks or implement particular abstract data types. The disclosed methods can also be practiced in grid-based and distributed computing environments where tasks are performed by remote processing devices that are linked through a communications network. In a distributed computing environment, program modules can be located in both local and remote computer storage media including memory storage devices.

[0112] Further, one skilled in the art will appreciate that the systems and methods disclosed herein can be implemented via a general-purpose computing device in the form of a computer **1301**. The components of the computer **1301** can comprise, but are not limited to, one or more processors or processing units **1303**, a system memory **1312**, and a system bus **1313** that couples various system components including the processor **1303** to the system memory **1312**. In the case of multiple processing units **1303**, the system can utilize parallel computing.

[0113] The system bus **1313** represents one or more of several possible types of bus structures, including a memory bus or memory controller, a peripheral bus, an accelerated graphics port, and a processor or local bus using any of a variety of bus architectures. By way of example, such architectures can comprise an Industry Standard Architecture (ISA) bus, a Micro Channel Architecture (MCA) bus, an Enhanced ISA (EISA) bus, a Video Electronics Standards Association (VESA) local bus, an Accelerated Graphics Port (AGP) bus, and a Peripheral Component Interconnects (PCI), a PCI-Express bus, a Personal Computer Memory Card Industry Association (PCMCIA), Universal Serial Bus (USB) and the like. The bus **1313**, and all buses specified in this description can also be implemented over a wired or wireless network connection and each of the subsystems, including the processor **1303**, a mass storage device **1304**, an operating system **1305**, content software **1306**, content data **1307**, a network adapter **1308**, system memory **1312**, an Input/Output Interface **1310**, a display adapter **1309**, a display device **1311**, and a human machine interface **1302**, can be contained within one or more remote computing devices **1314***a,b,c* at physically separate locations, connected through buses of this form, in effect implementing a fully distributed system.

[0114] The computing device **1301** typically comprises a variety of computer readable media. Exemplary readable media can be any available media that is accessible by the computing device **1301** and comprises, for example and not meant to be limiting, both volatile and non-volatile media, removable and non-removable media. The system memory **1312** comprises computer readable media in the form of volatile memory, such as random access memory (RAM), and/or non-volatile memory, such as read only memory (ROM). The system memory **1312** typically contains data such as content data **1307** and/or program modules such as operating system **1305** and content software **1306** that are immediately accessible to and/or are presently operated on by the processing unit **1303**.

[0115] In another aspect, the computing device **1301** can also comprise other removable/non-removable, volatile/non-volatile computer storage media. By way of example, FIG. **13** illustrates a mass storage device **1304** which can provide non-volatile storage of computer code, computer readable instructions, data structures, program modules, and other data for the computing device **1301**. For example and not meant to be limiting, a mass storage device **1304** can be a hard disk, a removable magnetic disk, a removable optical disk, magnetic cassettes or other magnetic storage devices, flash memory cards, CD-ROM, digital versatile disks (DVD) or other optical storage, random access memories (RAM), read only memories (ROM), electrically erasable programmable read-only memory (EEPROM), and the like.

[0116] Optionally, any number of program modules can be stored on the mass storage device **1304**, including by way of example, an operating system **1305** and content software **1306**. Each of the operating system **1305** and content software **1306** (or some combination thereof) can comprise elements of the programming and the content software **1306**. Content data **1307** can also be stored on the mass storage device **1304**. Content data **1307** can be stored in any of one or more databases known in the art. Examples of such databases comprise, DB2®, Microsoft® Access, Microsoft® SQL Server, Oracle®, mySQL, PostgreSQL, and the like. The databases can be centralized or distributed across multiple systems.

[0117] In another aspect, the user can enter commands and information into the computing device **1301** via an input device (not shown). Examples of such input devices comprise, but are not limited to, a keyboard, pointing device (e.g., a "mouse"), a microphone, a joystick, a scanner, visual systems such as Microsoft's Kinect, audio systems that process sound such as music or speech, a traditional silver remote control, tactile input devices such as gloves, touch-responsive screen, body coverings, and the like These and other input devices can be connected to the processing unit **1303** via a human machine interface **1302** that is coupled to the system bus **1313**, but can be connected by other interface and bus structures, such as a parallel port, game port, an IEEE 1394 Port (also known as a Firewire port), a serial port, or a universal serial bus (USB).

[0118] In yet another aspect, a display device **1311** can also be connected to the system bus **1313** via an interface, such as a display adapter **1309**. It is contemplated that the computer **1301** can have more than one display adapter **1309** and the computing device **1301** can have more than one

display device **1311**. For example, a display device can be a monitor, an LCD (Liquid Crystal Display), or a projector. In addition to the display device **1311**, other output peripheral devices can comprise components such as speakers (not shown) and a printer (not shown) which can be connected to the computing device **1301** via Input/Output Interface **1310**. Any step and/or result of the methods can be output in any form to an output device. Such output can be any form of visual representation, including, but not limited to, textual, graphical, animation, audio, tactile, and the like. The display **1311** and computing device **1301** can be part of one device, or separate devices.

[0119] The computing device **1301** can operate in a networked environment using logical connections to one or more remote computing devices **1314***a,b,c*. By way of example, a remote computing device can be a personal computer, portable computer, a smartphone, a server, a router, a network computer, a peer device or other common network node, and so on. Logical connections between the computing device **1301** and a remote computing device **1314***a,b,c* can be made via a network **1315**, such as a local area network (LAN) and a general wide area network (WAN). Such network connections can be through a network adapter **1308**. A network adapter **1308** can be implemented in both wired and wireless environments. Such networking environments are conventional and commonplace in dwellings, offices, enterprise-wide computer networks, intranets, and the Internet. Furthermore, the computing device **1301** can communicate information to one or more of the remote computing devices **1314***a,b,c* for data analysis, pattern recognition, and content navigation and/or control, for example.

[0120] For purposes of illustration, application programs and other executable program components such as the operating system **1305** are illustrated herein as discrete blocks, although it is recognized that such programs and components reside at various times in different storage components of the computing device **1301**, and are executed by the data processor(s) of the computer. An implementation of content software **1306** can be stored on or transmitted across some form of computer readable media. Any of the disclosed methods can be performed by computer readable instructions embodied on computer readable media. Computer readable media can be any available media that can be accessed by a computer. By way of example and not meant to be limiting, computer readable media can comprise "computer storage media" and "communications media." "Computer storage media" comprise volatile and non-volatile, removable and non-removable media implemented in any methods or technology for storage of information such as computer readable instructions, data structures, program modules, or other data. Exemplary computer storage media comprises, but is not limited to, RAM, ROM, EEPROM, flash memory or other memory technology, CD-ROM, digital versatile disks (DVD) or other optical storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to store the desired information and which can be accessed by a computer.

[0121] In an aspect, the systems and methods of the present disclosure can minimize time to market for on screen applications and maximize the breadth of devices that can implement certain applications having navigation components.

[0122] The methods and systems can employ artificial intelligence (AI) techniques such as machine learning and iterative learning. Examples of such techniques include, but are not limited to, expert systems, case based reasoning, Bayesian networks, behavior based AI, neural networks, fuzzy systems, evolutionary computation (e.g. genetic algorithms), swarm intelligence (e.g. ant algorithms), and hybrid intelligent systems (e.g. expert inference rules generated through a neural network or production rules from statistical learning).

[0123] While the methods and systems have been described in connection with preferred embodiments and specific examples, it is not intended that the scope be limited to the particular embodiments set forth, as the embodiments herein are intended in all respects to be illustrative rather than restrictive.

[0124] Unless otherwise expressly stated, it is in no way intended that any method set forth herein be construed as requiring that its steps be performed in a specific order. Accordingly, where a method claim does not actually recite an order to be followed by its steps or it is not otherwise specifically stated in the claims or descriptions that the steps are to be limited to a specific order, it is no way intended that an order be inferred, in any respect. This holds for any possible non-express basis for interpretation, including: matters of logic with respect to arrangement of steps or operational flow; plain meaning derived from grammatical organization or punctuation; the number or type of embodiments described in the specification.

[0125] It will be apparent to those skilled in the art that various modifications and variations can be made without departing from the scope or spirit. Other embodiments will be apparent to those skilled in the art from consideration of the specification and practice disclosed herein. It is intended that the specification and examples be considered as exemplary only, with a true scope and spirit being indicated by the following claims.

1. A method comprising:

causing output of an interface comprising a plurality of fields, wherein each field of the plurality of fields relates to a content item of a plurality of content items;

determining at least one viewing statistic and social media information associated with each content item of the plurality of content items;

causing output of a first indicator associated with the at least one viewing statistic associated with the content item; and

causing output of a second indicator associated with social media information associated with the content item.

2. The method of claim **1**, wherein at least one of the first indicator or the second indicator comprise at least one of an image, a colorization of a field, or an icon.

3. The method of claim **1**, wherein the first indicator represents a trend associated with the at least one viewing statistic and wherein the first indicator displays color information having an intensity indicative of the trend.

4. The method of claim **1**, wherein causing output of the first indicator is based on a selection of a first filter and wherein causing output of the second indicator is based on a selection of a second filter.

5. The method of claim **1**, wherein at least one of the first indicator or the second indicator are configured to permit purchase of access to the content item.

6. An apparatus comprising:
one or more processors; and
memory storing processor executable instructions that, when executed by the one or more processors, cause the apparatus to:
cause output of an interface comprising a plurality of fields, wherein each field of the plurality of fields relates to a content item of a plurality of content items;
determine at least one viewing statistic and social media information associated with each content item of the plurality of content items;
cause output of a first indicator associated with the at least one viewing statistic associated with the content item; and
cause output of a second indicator associated with social media information associated with the content item.

7. The apparatus of claim **6**, wherein at least one of the first indicator or the second indicator comprise at least one of an image, a colorization of a field, or an icon.

8. The apparatus of claim **6**, wherein the first indicator represents a trend associated with the at least one viewing statistic and wherein the first indicator displays color information having an intensity indicative of the trend.

9. The apparatus of claim **6**, wherein the processor executable instructions that, when executed by the one or more processors cause output of the first indicator, cause output of the first indicator based on a selection of a first filter and wherein the processor executable instructions that, when executed by the one or more processors cause output of the second indicator, cause output of the second indicator based on a selection of a second filter.

10. The apparatus of claim **6**, wherein at least one of the first indicator or the second indicator are configured to permit purchase of access to the content item.

11. A non-transitory computer readable medium storing processor-executable instructions that, when executed by at least one processor, cause the at least one processor to:
cause output of an interface comprising a plurality of fields, wherein each field of the plurality of fields relates to a content item of a plurality of content items;
determine at least one viewing statistic and social media information associated with each content item of the plurality of content items;
cause output of a first indicator associated with the at least one viewing statistic associated with the content item; and
cause output of a second indicator associated with social media information associated with the content item.

12. The non-transitory computer readable medium of claim **11**, wherein at least one of the first indicator or the second indicator comprise at least one of an image, a colorization of a field, or an icon.

13. The non-transitory computer readable medium of claim **11**, wherein at least one of the first indicator or the second indicator are configured to permit purchase of access to the content item.

14. The non-transitory computer readable medium of claim **11**, wherein the processor-executable instructions that, when executed by the at least one processor, cause the non-transitory computer readable medium to cause output of the first indicator, cause the non-transitory computer readable medium to output the first indicator based on a selection of a first filter and wherein the processor-executable instructions that, when executed by the at least one processor, cause the non-transitory computer readable medium to cause output of the second indicator, cause the non-transitory computer readable medium to output the second indicator based on a selection of a second filter.

15. The non-transitory computer readable medium of claim **11**, wherein at least one of the first indicator or the second indicator are configured to permit purchase of access to the content item.

16. A system comprising:
a computing device configured to:
cause output of an interface comprising a plurality of fields, wherein each field of the plurality of fields relates to a content item of a plurality of content items;
determine at least one viewing statistic and social media information associated with each content item of the plurality of content items;
cause output of a first indicator associated with the at least one viewing statistic associated with the content item; and
cause output of a second indicator associated with social media information associated with the content item; and
an output device configured to:
output the interface; and
output the first indicator and the second indicator.

17. The system of claim **16**, wherein at least one of the first indicator or the second indicator comprise at least one of an image, a colorization of a field, or an icon.

18. The system of claim **16**, wherein the first indicator represents a trend associated with the at least one viewing statistic and wherein the first indicator displays color information having an intensity indicative of the trend.

19. The system of claim **16**, wherein the computing device is configured to cause output of the first indicator based on a selection of a first filter and wherein the computing device configured to cause output of the second indicator based on a selection of a second filter.

20. The system of claim **16**, wherein at least one of the first indicator or the second indicator are configured to permit purchase of access to the content item.

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