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(54) Title: ACCESSING CONTENT VIA A MATRIX CODE

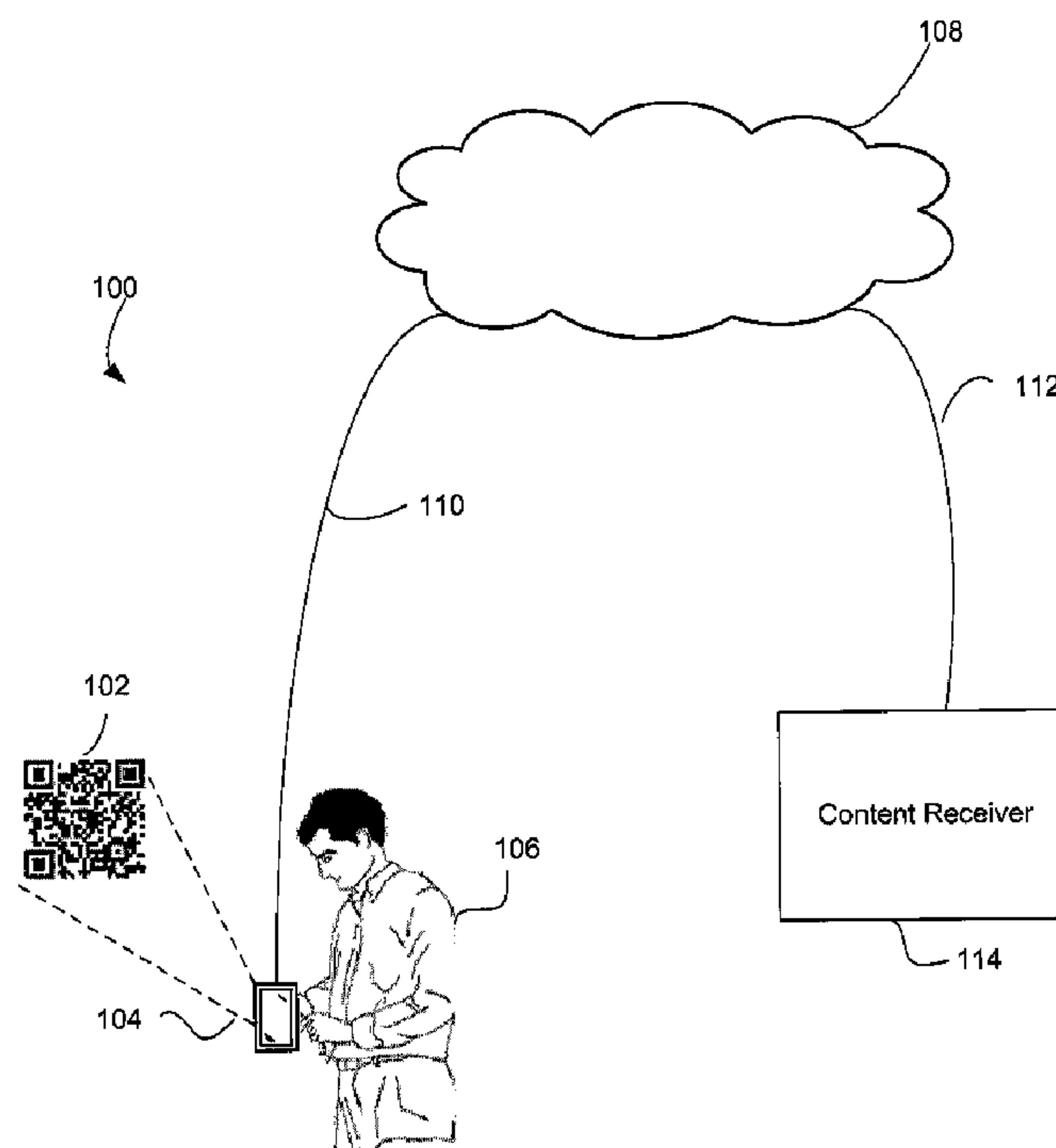
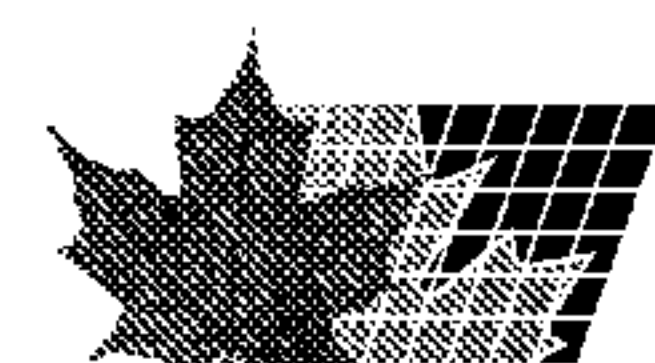


FIG. 1

(57) **Abrégé/Abstract:**

A system for accessing content corresponding to a matrix barcode, such as a video and/or audio content. The system may include a mobile computing device in communication with a content receiver. The mobile computing device may be configured to capture



(57) **Abrégé(suite)/Abstract(continued):**

the matrix barcode, for example, via using an optical component and/or barcode scanner to record and/or scan the matrix barcode. The mobile computing device may also include a network interface component configured to transmit the matrix barcode to the content receiver. The content receiver may then receive the matrix barcode from the mobile computing device. The content receiver may include a processor to determine and/or access the content corresponding to the matrix barcode. The content receiver may then transmit the content to a display device.

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(54) Title: ACCESSING CONTENT VIA A MATRIX CODE

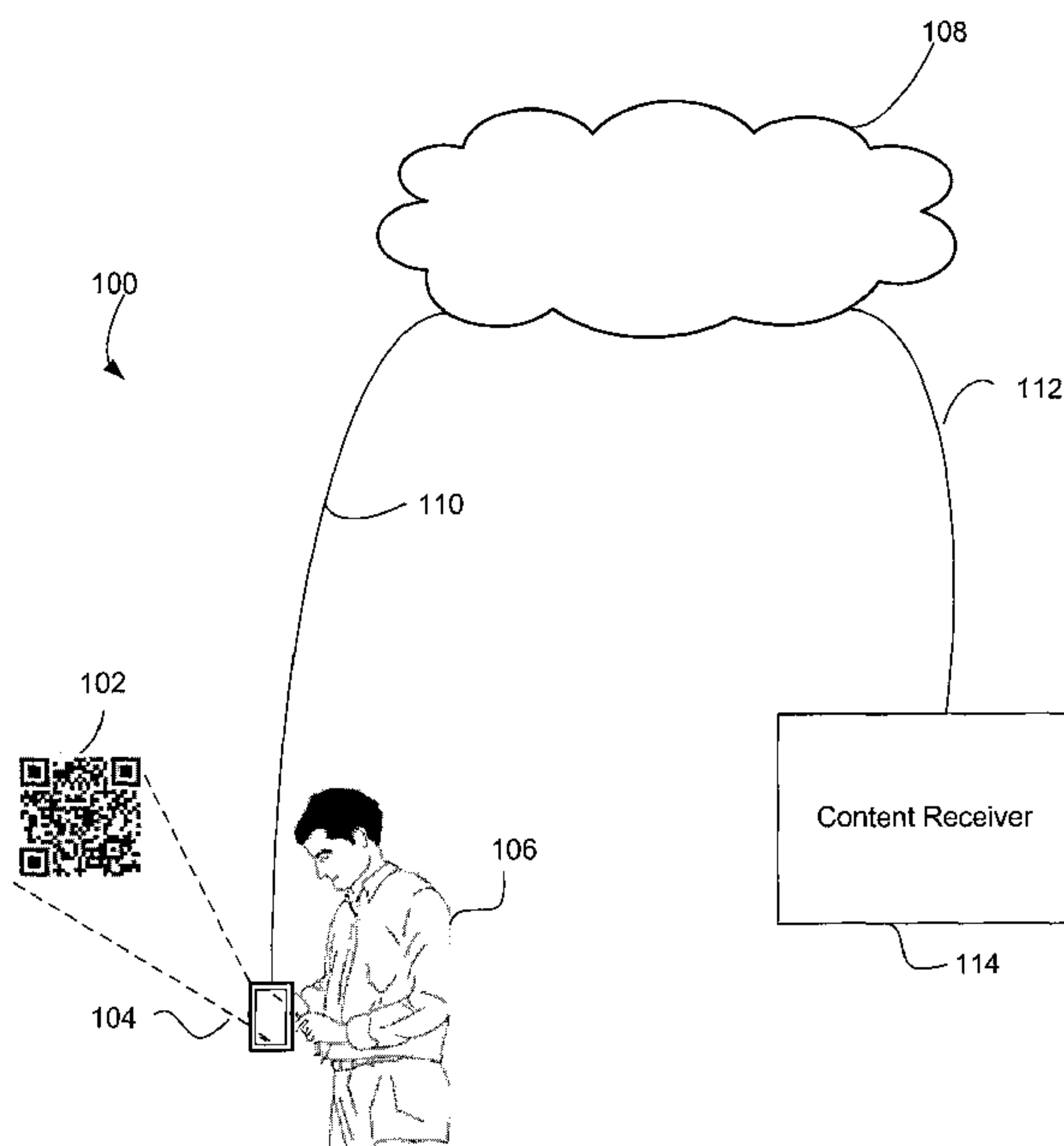


FIG. 1

(57) Abstract: A system for accessing content corresponding to a matrix barcode, such as a video and/or audio content. The system may include a mobile computing device in communication with a content receiver. The mobile computing device may be configured to capture the matrix barcode, for example, via using an optical component and/or barcode scanner to record and/or scan the matrix barcode. The mobile computing device may also include a network interface component configured to transmit the matrix barcode to the content receiver. The content receiver may then receive the matrix barcode from the mobile computing device. The content receiver may include a processor to determine and/or access the content corresponding to the matrix barcode. The content receiver may then transmit the content to a display device.

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ACCESSING CONTENT VIA A MATRIX CODE

CROSS-REFERENCE TO RELATED APPLICATIONS

This Patent Cooperation Treaty patent application claims priority to United States application no. 12/971,349, filed December 17, 2010, entitled "Accessing Content Via A
5 Matrix Code," the contents of which are incorporated herein by reference, in their entirety.

FIELD

The present disclosure relates generally to content receivers, and more specifically to accessing content on a content receiver utilizing matrix barcodes.

BACKGROUND

10 People may view a particular content such as a television show, movie or the like at one location (e.g., movie theater) and wish to eventually view that same content or a related content at another location and/or at another time. For example, while at a movie theater a person may see a trailer for a movie coming out in the future and want to remember to see that movie when it is released. It may be hard for a person to remember the details of the
15 content and/or when the content is available (e.g., when a movie is released onto digital video disc). Also, there may be instances where a person is in another location (for example an airport) and a particular content is being displayed on a television (or other display device) nearby. The person may want to record/view this content on their own display device and/or at another time/location. However, as the person may be in a remote location,
20 this may not be possible. Furthermore, a person may forget or not know the name/details of the particular content.

SUMMARY

An embodiment of the present disclosure includes a method for accessing and viewing content. The method may include capturing, via an optical component, a matrix
25 barcode that corresponds to the content. After the matrix barcode has been captured, the matrix barcode may be transmitted from the mobile device to a content receiver. The content receiver may then access the content corresponding to the matrix barcode. Once the content receiver has accessed the content, the content receiver may then transmit the content to a display device and/or the mobile computing device.

30 Still other embodiments of the disclosure may include a method of viewing content. The method may include capturing a matrix barcode corresponding to the content via an optical component in a mobile computing device. Once the matrix barcode is captured, the

mobile computing device may then transmit the matrix barcode to a content receiver. After receiving the matrix barcode, the content receiver may request the content corresponding to the matrix barcode. After the content receiver requests the content, it may then access the content, e.g., from a broadcast center and/or content source. Once the content has been
5 accessed, the content receiver may transmit the content a computing device. The computing device may be similar or the same as the mobile computing device and/or may be a display device.

Still other embodiments of the disclosure may include a system for accessing content (such as video/audio content) corresponding to a matrix barcode. The system may include a
10 mobile computing device in communication with a content receiver. The mobile computing device may be configured to capture the matrix barcode, for example, via using an optical component and/or barcode scanner to record and/or scan the matrix barcode. The mobile computing device may also include a network interface component configured to transmit the matrix barcode to the content receiver. The content receiver may then receive the matrix
15 barcode from the mobile computing device. The content receiver may include a processor to determine and/or access the content corresponding to the matrix barcode. The content receiver may then transmit, via a network/communication component, the content to a display device.

BRIEF DESCRIPTION OF THE DRAWINGS

20 Fig. 1 is an embodiment of a user capturing a matrix barcode with a mobile computing device and communicating the matrix barcode to a content receiver.

Fig. 2 is a block diagram of the first computing device communicating with the content receiver.

Fig. 3 is a block diagram illustrating a matrix barcode being communicated between
25 the content receiver, a display device and/or the first computing device.

Fig. 4 is a screenshot illustrating an exemplary communication between the content receiver and the mobile computing device.

Fig. 5A illustrates a sample display device displaying video content including the matrix barcode.

30 Fig. 5B illustrates a sample theater display device displaying the video content including the matrix barcode.

Fig. 5C illustrates a sample poster displaying print content including the matrix barcode.

Fig. 5D illustrates a sample print material displaying the print content including the matrix barcode.

5 Fig. 6 is a flow chart illustrating a method for receiving and recording/displaying content.

DETAILED DESCRIPTION

Described herein are various examples of a system and/or method to record/display or otherwise access a particular content. A matrix barcode corresponding or relating to a
10 specific content may be displayed on that specific content or other content. The matrix barcode may be displayed on almost any type of content; for example, the matrix barcode may be displayed on a video content (e.g., television show, movie, and the like), a print content (e.g., magazine, billboard, poster, and the like), an internet content (e.g., web page, electronic mail, and the like). The matrix barcode may be a graphical display that may
15 include imbedded data relating to the specific content or another content. For example, the matrix barcode may include data such as the content's title, release date/time, price, and the like.

A person may record/capture the matrix barcode (such as QR code) via a mobile computing device (e.g., smart phone, digital camera, laptop computer). In these
20 embodiments, the user may snap a photograph (using the mobile computing device) of a particular screen shot (for video content) or image (for print content) including the matrix barcode. The user may then transmit the matrix barcode and/or the data included in the matrix barcode to a content receiver. The matrix barcode and/or data may be transmitted via the mobile computing device or other computing device. However, in one embodiment
25 the mobile computing device may communicate via a network to the content receiver.

Once the content receiver receives the matrix barcode and/or the data corresponding to the matrix barcode, the content receiver may then access the content and/or determine whether the content is available. For example, in some instances the content may not be available at that select time. However, if the content is available, the
30 content receiver may record and/or display the content or may set a reminder to view/access/record the content. The content receiver may also be in communication with a display device and may transmit the content to the display device.

In other embodiments, the content may be transmitted to the mobile computing device. The content may then be displayed immediately or at another time via the mobile computing device. Additionally or alternatively, the content receiver may also communicate with the mobile computing device regarding the status of the content (e.g., whether to
5 record/display, transmit the content, availability of the content, and so on). These embodiments may allow a user to either record, display and/or set a reminder to record/display content without requiring the user to remember the content's details, such as the name, time it is available, length, and the like. This may be helpful as often people may forget when/where a particular content may be displayed. For instance, when a particular
10 movie is available on digital video disc (DVD), when a particular television show is broadcast, and the like.

Additionally, embodiments disclosed herein may allow a user to quickly and/or remotely record a particular content. For example, if a user is in a remote location and views on a display device a particular show or sporting event that he wishes to view another time.
15 The user may record/capture a matrix barcode associated with the particular content and then transmit the matrix barcode to the content receiver. The content receiver may then download/record the content. Further, the content receiver may additionally or alternatively transmit the content to the mobile computing device.

Fig. 1 is an embodiment of a mobile content accessing system 100. The mobile
20 content accessing system 100 may include a user 106, a mobile computing device 104, a matrix barcode 102, a network 108, a content receiver 114 and communication paths 110, 112. The user 106 may capture the matrix barcode 102 via the mobile computing device 104 and then transmit the matrix barcode 102 to a content receiver 114 via the network 108 and communications paths 110, 112.

25 The user 106 may encounter a particular content displaying the matrix barcode 102. The user may use the mobile computing device 104 to capture the matrix barcode 102. For example, the mobile computing device 104 may include a digital camera, barcode scanner or some other optical component. The mobile computing device 104 then may transmit either data stored within the matrix barcode 102 and/or the matrix barcode 102 to the
30 network 108 via the first communication path 110. The content receiver 114 may then communicate with the network 108 via the second communication path 112 and receive the matrix barcode 102 and/or data.

The matrix barcode 102 may be a two-dimensional barcode (such as a QR code) with data included in both the horizontal and vertical directions. The matrix barcode 102
35 may include practically any type of data and/or other information. For example, the matrix

barcode 102 may include numeric, alphanumeric, binary, symbols and the like. In one embodiment, the data in the matrix barcode 102 may include details corresponding or relating to a specific content. For example, the details may include the name of the content, the time/date the content is accessible/available, the length of the content, the price of the content, actors/products in the content, and so on.

The network 108 provides the communication paths 110, 112 between the mobile computing device 104 and the content receiver 114 and may be wireless (e.g., satellite, microwave and other radio frequencies) or wired (e.g., fiber optic wire, coaxial cable). In some embodiments, the network 108 may further include satellites, receivers and/or transmitters to further transmit and receive content to and from mobile computing device 104 and/or the content receiver 114. Similarly, the communication paths 110, 112 may be wireless or wired, or any other type of electronic communication mechanism. For example, in one embodiment, the communication paths 110, 112 are wireless and receive/transmit radio signals to and from radio towers and/or satellites. In other embodiments, the network 108 (including the communication paths 110, 112) may include a combination of wired and wireless communications. For example, one or both of the communication paths 110, 112 may be a direct wired connection between the mobile computing device 104 and the content receiver 114.

Fig. 2 is a block diagram of the mobile computing device 104 in communication with the content receiver 114 via the network 108. The mobile computing device 104 may be virtually any type of computing device. In some embodiments, the mobile computing device 104 may be a smart phone, personal digital assistant, a digital camera, and the like. The mobile computing device 104 may be used to capture an image/data of the matrix barcode 102 and/or transmit the data and/or the matrix barcode 102 to the content receiver 114. The mobile computing device 104 may include an optical component 118, a processing unit 120, storage 124, a network/communication interface 126, and an input/output component 130. Further, some or all of the components of the mobile computing device 104 may be in electronic communication with all or some of the other components via a system bus 128. The system bus 128 may provide a communication path to and from different components.

The optical component 118 may be used to capture and/or scan the matrix barcode 102. The optical component 118 may be virtually any type of device that may be used to optically read and/or capture images and/or data. In some embodiments, the optical component 118 may be a lens, barcode scanner, camera, and the like.

The network/communication interface 126 may transmit data and/or the matrix barcode 102 to the content receiver 114 (via the communication paths 110, 112 and/or

network 108). As the network 108 may include a variety of electronic communication mediums, the network/communication interface 126 may send and receive almost any type of electronic communication.

5 The storage 124 may store electronic data that may be utilized by the mobile computing device 104. For example, the storage 124 may store the matrix barcode 102, data from the matrix barcode 102, as well as any other desired data. The storage 124 may be any type of memory that can store electronic data. For example, the storage 124 may be one or more non-transitory storage media (which may take the form of, but is not limited to, a magnetic storage medium; optical storage medium; magneto-optical storage medium; read
10 only memory; random access memory; erasable programmable memory; flash memory; and so on).

The processor 120 may control operation of the mobile computing device 102. The processor 120 may be any electronic device cable of processing, receiving and/or transmitting instructions. For example, the processor 120 may be a microprocessor, a
15 microcomputer and the like.

The input/output component 130 provides a communication mechanism between the user 106 and/or the processor 120. For example, the input/output component 130 may receive data entered by a user via a capacitive touch screen, keyboard, trackball, mouse, button or the like. Additionally, there may be multiple input/output components 130, allowing
20 the mobile computing device 104 to receive information/data from any number of components or via any number of inputs by the user 106. Further, in some embodiments, the mobile computing device 104 may also include a screen or other display mechanism. For example, the display may be a liquid crystal display, plasma display and the like.

Fig. 3 is a block diagram of the content receiver 114 receiving the matrix barcode 102
25 and illustrating the content receiver 114 in communication with the display device 116 and the mobile computing device 104. The matrix barcode 102 (in the form of an electronic signal 130) may be transmitted to the content receiver 114 from the mobile communication device 104 (via the network 108). The content receiver 114 may then receive the electronic signal 130. The content receiver 114 may then transmit content related to the matrix
30 barcode 102 to the display device 116, the mobile computing device 114 and/or one or more additional/alternative computing devices (not shown).

The content receiver 114 receives data from the mobile computing device 104 as well as content from a broadcast center (not shown) or other content provider via the network 108. The content receiver 114 outputs the content to the display device 116.

Additionally, the content receiver 114 may communicate to and from the broadcast center to retrieve a specific content. For example, if the matrix barcode 102 provides the title of a particular television show, the content receiver 114 may retrieve information from the broadcast center regarding the time, length, and the like of the particular television show.

5 Also, the content receiver 114 may receive the actual content (i.e., video and audio signals) corresponding/related to the matrix barcode 102. Similarly, the content receiver 114 may transmit information, content and/or data to the mobile computing device 104. Furthermore, the content receiver 114 may also record or otherwise store particular content.

10 The content receiver 114 may be practically any type of computing device able to receive, transmit and/or process audio, visual and/or data signals. For example, the content receiver 114 may be a set top box, a television receiver, a digital video recorder, a computer, and the like. The content receiver 114 may receive practically any form/type of content from almost any number of sources, this may include the electronic signal 130 from the mobile computing device 104, as well as television programming, recorded audio/video, electronic
15 programming guide data, subtitles, and so on.

In some embodiments, the content receiver 114 may include a network/communication interface 136, storage 134, a processor 140 and an input/output interface 150 all tied together (or select components) via a system bus 130. Additionally, the content receiver 114 may also include an optical drive (e.g., digital video disk player,
20 compact disk player, high definition digital video disc player, or the like), a universal serial bus drive and/or the like.

The network/communication interface 136 may be substantially similar to the network communication/interface 126 in the mobile computing device 104. However, in addition to data, the network/communication interface 136 may also receive a broadcast signal 142
25 from a content source center (not shown) via the communication paths 110, 112, network 108 and/or other communication mechanisms. This is because addition to receiving the electronic data signal 130, the network/communication interface 136 may also receive an over-the-air broadcast signal, a direct broadcast satellite signal, a cable television signal, an internet protocol television signal, and/or any other type of electronic communication signals.

30 The storage 134 may be similar to the storage 124 in the mobile computing device 104. The storage 134 may store electronic data that may be utilized by the content receiver 114. For example, the storage 134 may store content (e.g., video/audio signals, and the like), an electronic programming guide, user preference data (e.g., language, time zone and the like), settings data and the like.

The processor 140 may control operation of the content receiver 114. The processor 140 may be similar to the processor 120 in the mobile computing device 104. For example, the processor 140 may be any type of electronic device capable of processing, receiving and/or transmitting instructions (e.g., a microprocessor, a microcomputer and the like).

5 The input/output interface 150 provides communication to and from the content receiver 114 to and from a variety of devices/sources. For example, the input/output interface 150 may receive data from the mobile computing device 104, a remote control, control buttons located on the content receiver 114, other computing devices, and the like. Additionally, the input/output interface 150 may also receive/transmit data to and from an
10 optical disc drive (e.g., digital video disc drive), universal serial bus drive, other video/audio/data signals (e.g., signals from a video game console), and the like. The input/output interface 150 may also provide an output signal 146 to the display device 116. The output signal 116 may be substantially similar to the broadcast signal 142 but may include additional information, such subtitles, user specific data, and the like.

15 The display device 116 may be in electronic communication with the content receiver 114. The display device 116 may be configured to display/output the content and/or data. For example, the display device 116 may display audio, video and data signals on a television display and/or computer monitor. The display device 116 may be any kind of electronic display such as a cathode ray tube display, a liquid crystal display, a plasma
20 display and the like. Further, the display device 116 may also include an audio output mechanism in addition to or instead of a video display screen. For example, the display device 116 may include speakers (either external or internal) to a liquid crystal display screen (or any other suitable display).

The broadcast signal 142 may include content from a broadcasting center or content
25 provider. The broadcast signal 142 may include audio, visual, and other data associated with a video broadcast stream. Similarly, the output signal 146 may be substantially the same or a slightly modified version of the broadcast signal 146. For example, the output signal 146 may be a select group of signals within the broadcast signal 142, i.e., signals corresponding to a particular channel. However, in other embodiments, the output signal
30 146 may be a signal other than the broadcast signal 142 (e.g., a digital video disc signal, signal from the network 108, and the like).

Fig. 4 is a screenshot illustrating an example of communication between the content receiver 114 and the mobile computing device 104. Referring to Figs. 1-4, the mobile computing device 104 may transmit the electronic signal 130 to the content receiver 114.
35 The content receiver 114 may additionally transmit data, content and the like to the mobile

computing device 104. For example, the mobile computing device 104 may transmit the matrix barcode 102 (or simply the data within the matrix barcode 102) to the content receiver 114. If the matrix barcode 102 provides information regarding a particular content, the content receiver 114 may then determine if the content is available. If the content is available (either instantaneously or at some point in the future), the content receiver 114 may transmit an option 148 to the mobile computing device 104. The option 148 may be displayed on a screen of the mobile computing device 104. The user 106 may transmit data in response to the option 148 back to the content receiver 114 via the network 108. The option 148 may allow the user 106 to remotely operate, select or otherwise control the content receiver 114. For example, the option 148 may display on the mobile computing device 104 whether the user wants to record, display, purchase, transmit, access and/or the like a particular content or portion of content.

The option 148 and communication between the mobile computing device 104 and the content receiver 114 allows a user 106 to access, record, transmit, purchase and so on, content on the go. This may be helpful because the matrix barcode 102 may be displayed on almost any type of content and/or media. Additionally, this may allow a user 106 to forget information corresponding to a particular content and still access it in the future. Further, it may allow the user 106 the ability to remotely record/display content on the content receiver 114.

The matrix barcode 102 corresponding to selected content may be displayed on any number of media, locations, and the like. Fig. 5A is a sample display device 216 displaying video content 224 including the matrix barcode 102 and Fig. 5B is a sample theater display device 222 displaying the video content 224 and the matrix barcode 102. In one embodiment, the matrix barcode 102 may be displayed on the display device 216. The display device 216 may be any type of electronic display device 216 (e.g., plasma display, liquid crystal display, projection screen, and so on) and the content 224 may be a video content (e.g., television video stream). In other embodiments, the matrix barcode 102 may be displayed on a theater display device 222. The theater display device 222 may be substantially similar to the display device 216, however it may be a larger device, e.g., movie theater. In either embodiment, the matrix barcode 102 may appear with the content 224. For example, the matrix barcode 102 may be overlaid on top of the content 224 and/or illustrated as a part of the content 224. The content 224 may be a television show, movie, commercial and/or any other type of content 224 including a video/image display.

Fig. 5C is a sample poster 218 displaying print content 226 and the matrix barcode 102 and Fig. 5D is a sample print material 220 displaying the print content 226 and the

matrix barcode 102. The poster 218 may be a billboard, sign, and so on. The print material 220 may be a substantially any type of print communication device, e.g., newspaper, book, magazine, electronic book reader, and the like. The print content 226 may be an image and/or text. For example, the print content 266 may be an advertisement for a broadcast content (e.g., television content, movie content, and the like). The matrix barcode 102 may then be displayed as part or separate from the print content 226 (which may include images and/or text). It should be noted that there are numerous other locations, media, and/or communication mechanisms that may be used to display and/or transmit the matrix barcode 102 and that Figs. 5A-5D are simply exemplary embodiments.

Fig. 6 is an embodiment of a method 300 for accessing content via the matrix barcode 102. The method 300 begins at an operation 302 where the matrix barcode 102 is captured. This operation 302 may be performed by the optical component 118 on the mobile computing device 104. The optical component 118 may capture an image of the matrix barcode 102, scan the matrix barcode 102 or the like. After the matrix barcode 102 has been captured, the method 300 proceeds to operation 304. In this operation 304, data corresponding to the matrix barcode 102 is retrieved. The data may be details regarding a particular content, e.g., the content name/title, length, show time, availability, price, and/or any other type of information desired. Then the method 300 proceeds to operation 306, where the data is transmitted to the content receiver 114. This operation 306 may be performed via the network 108 and communication paths 110, 112. It should be noted that in some embodiments, the method 300 may proceed from operation 302 directly to operation 306. This is because the content receiver 114 in some embodiments may retrieve the data from the matrix barcode 102 instead of the mobile computing device 102.

In operation 308, once the data has been transmitted to the content receiver 114, the content receiver 114 determines if the content (corresponding to the data from the matrix barcode 102) is available. The matrix barcode 102 may be tied, related to or otherwise correspond to a selected content or set of contents. Operation 308 may be performed by analyzing the broadcast signal 142 and/or querying the broadcast center regarding the content.

In some instances the content may not be available. For example, if the content is a movie it may not be released to the public yet, if the content is a sports game it may not have been played/recorded, and the like. However, if the content is available, the method 300 proceeds to operation 312. In operation 312, the content receiver 114 may present the option 148 whether to record/display the content. The option 148 may be presented on the mobile computing device 104 (see e.g., Fig. 4), the display device 116, and so on.

Additionally, the option 148 may be to either record the content, display the content, do neither and/or do both. If the user 106 selects to display and/or record the content, the method 300 proceeds to operation 314. In operation 314, the content receiver 114 displays and/or records the content. For example, the content receiver 114 may transmit the content to the display device 116 and/or may store the content in the storage 134.

In operation 312 if the user selects to not either record and/or display the content, then the method 300 proceeds to operation 310. In this operation 312, a second option is presented to the user 106. The second option may be whether a reminder should be set; the reminder may either be to record, display and/or access the content at a future time. The second option may be displayed on the display device 116, the mobile computing device 104 and/or other computing devices.

Operation 312 may also be accessed directly after option 308. For example, if the content receiver 114 determines that the content is not currently available, the user 106 may wish to set a reminder to have the content receiver 114 check the content availability in the future. If the user 106 selects the second option and sets a reminder for recording/accessing/displaying the content in the future, the method 300 then proceeds to operation 316. In operation 316, the first option 148 may be presented again, when the content is available. Thus, operation 316 may be substantially similar to operation 312, however it may occur only after the content has been unavailable at least once.

One skilled in the art will understand that the following description has broad application. For example, while embodiments disclosed herein may focus on a mobile computing device, it should be appreciated that the concepts disclosed herein equally any other computing device and/or optical device with a network interface. Also, for the sake of discussion, the embodiments disclosed herein may tend to focus on content receivers such as set top boxes; however, these concepts apply to computing devices that may analyze/process electronic signals. Accordingly, the discussion of any embodiment is meant only to be exemplary and is not intended to suggest that the scope of the disclosure, including the claims, is limited to these embodiments.

In methodologies directly or indirectly set forth herein, various steps and operations are described in one possible order of operation but those skilled in the art will recognize the steps and operation may be rearranged, replaced or eliminated without necessarily departing from the spirit and scope of the present invention. It is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative only and not limiting. Changes in detail or structure may be made without departing from the spirit of the invention as defined in the appended claims.

The described disclosure may be provided as a computer program product, or software, that may include a non-transitory machine-readable medium having stored thereon instructions, which may be used to program a computer system (or other electronic devices) to perform a process according to the present disclosure. A non-transitory machine-

5 readable medium includes any mechanism for storing information in a form (e.g., software, processing application) readable by a machine (e.g., a computer). The non-transitory machine-readable medium may take the form of, but is not limited to, a magnetic storage medium (e.g., floppy diskette, video cassette, and so on); optical storage medium (e.g., CD-ROM); magneto-optical storage medium; read only memory (ROM); random access memory

10 (RAM); erasable programmable memory (e.g., EPROM and EEPROM); flash memory; and so on.

CLAIMS

What we claim is:

1. A method for accessing content on a content receiver comprising the steps of:
 - receiving on the content receiver a matrix barcode;
 - determining if a content corresponding to the matrix barcode is available;
 - if the content is available, accessing on the content receiver the content; and
 - 5 if the content is not available, setting a reminder on the content receiver to check if the content is available at another time.
2. The method of accessing content of claim 1, further comprising the steps of
 - capturing the matrix barcode via an optical component on a mobile computing device; and
 - transmitting the matrix barcode to the content receiver from the mobile computing
 - 5 device.
3. The method of accessing content of claim 1, further comprising displaying on a display device the content after the content has been accessed.
4. The method of accessing content of claim 1, further comprising recording the content on the content receiver after the content has been accessed.
5. The method of accessing content of claim 1, wherein the content receiver is a set top box.
6. The method of accessing content of claim 1, wherein the content is a video content.
7. The method of accessing content of claim 1, further comprising the step, if the content is available, transmitting from the content receiver an option to record or display the content on the content receiver to a mobile computing device.
8. The method of accessing content of claim 1, further comprising the step of, if the content is available, transmitting the content via the content receiver to a mobile computing device.
9. The method of accessing content of claim 8, further comprising the step of, displaying the content on a display screen of the mobile computing device.
10. A method of displaying content comprising the steps of:
 - transmitting from a mobile computing device a matrix barcode to a content receiver,
 - wherein the matrix barcode corresponds to a specific content;
 - determining via the content receiver, data corresponding to the specific content from
 - 5 the matrix barcode;
 - verifying whether the specific content is available;
 - if the specific content is available, transmitting from the content receiver the specific content to a display device; and

- 10 if the selected content is not available, transmitting from the content receiver a first message to a computing device.
11. The method of displaying content of claim 10, wherein the mobile computing device is a smart phone.
12. The method of displaying content of claim 10, wherein the first message presents an option to set a reminder on the content receiver to access the specific content in the future.
13. The method of displaying content of claim 10, wherein the content receiver transmits the specific content to a display device on the mobile computing device.
14. A system for accessing content comprising:
a mobile computing device comprising:
an optical component configured to capture a matrix barcode;
a processor in communication with the optical component; and
5 a network interface component in communication with the processor; and
a content receiver in communication with the mobile computing device, comprising
a content receiver network interface component; and
a content receiver processor in communication with the content receiver
network interface component, wherein the content receiver
10 receives via the content receiver network interface component, the matrix barcode from the mobile computing device;
accesses via a network, a content corresponding to the matrix barcode; and
transmits via the content receiver network interface the content.
15. The system of claim 14, further comprising a display device in communication with content receiver, wherein the display device is configured to receive the content from the content receiver.
16. The system of claim 14, wherein the mobile computing device is further configured to receive the content from content receiver.
17. The system of claim 14, wherein the content receiver is a set top box.
18. The system of claim 14, wherein the content receiver is further configured to determine whether the content is available from a content source.
19. The system of claim 18, wherein if the content is not available, the content receiver is configured to set a reminder to determine if the content is available in the future.
20. The system of claim 14, wherein the content is a video content.

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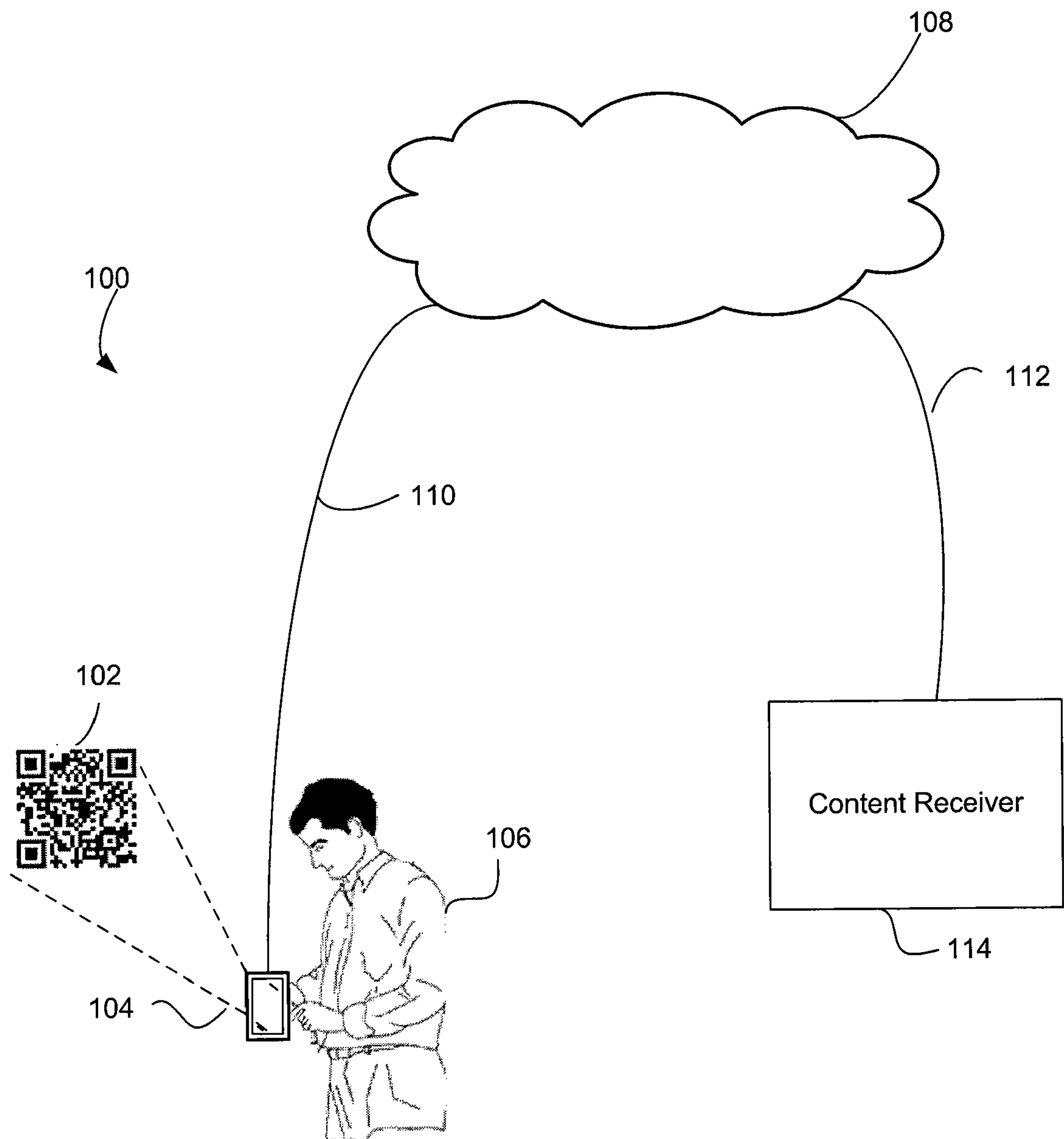
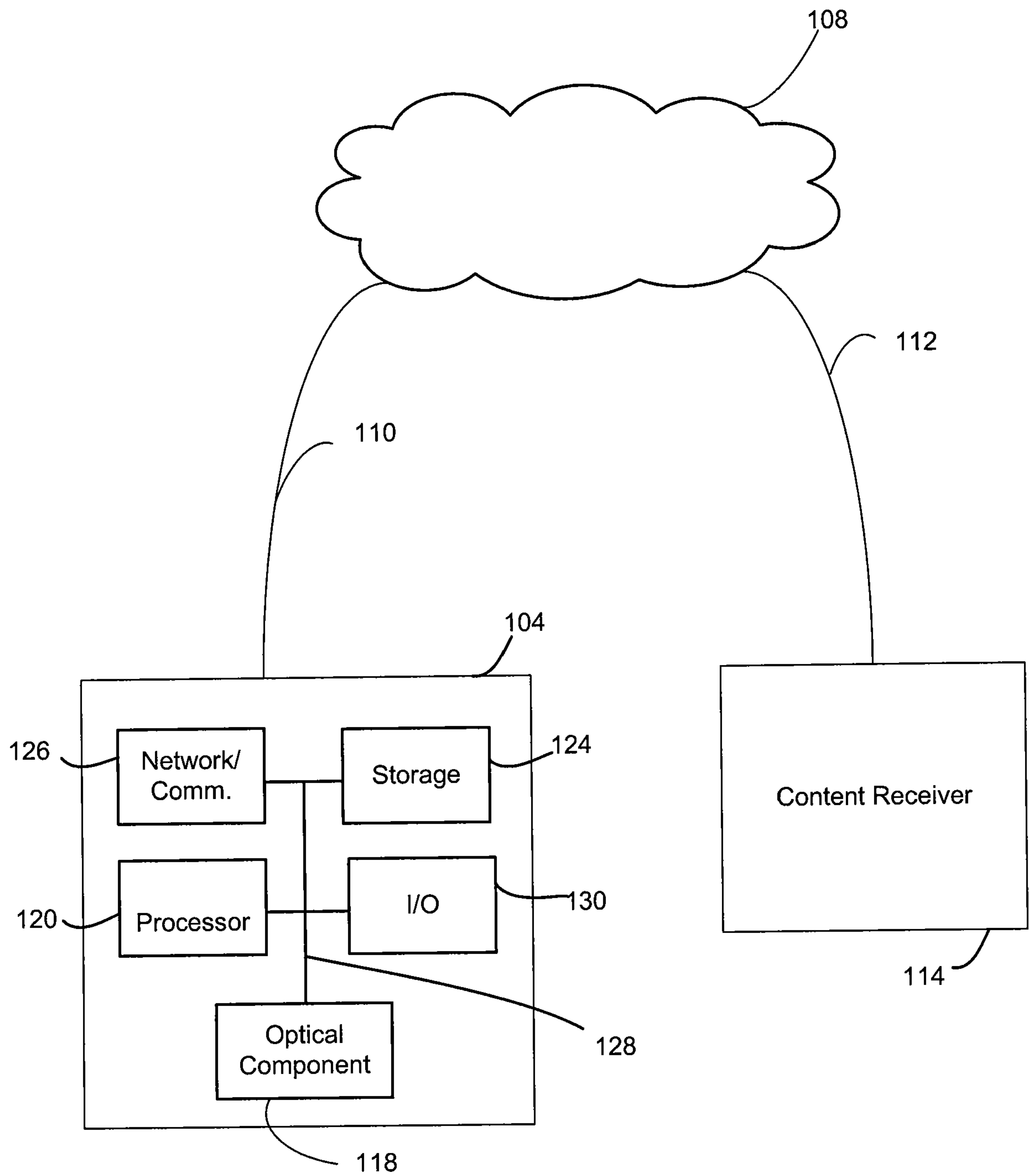
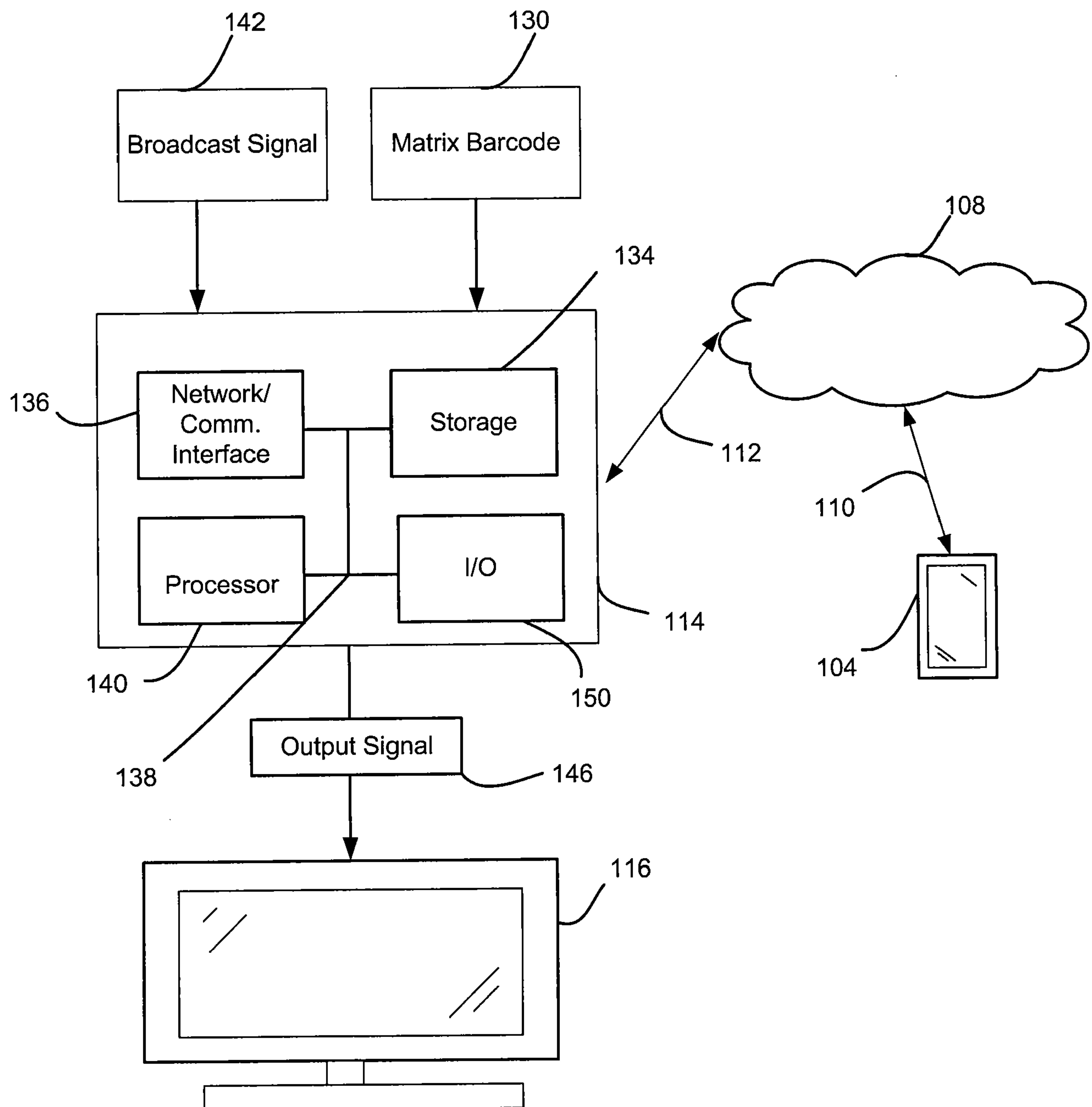
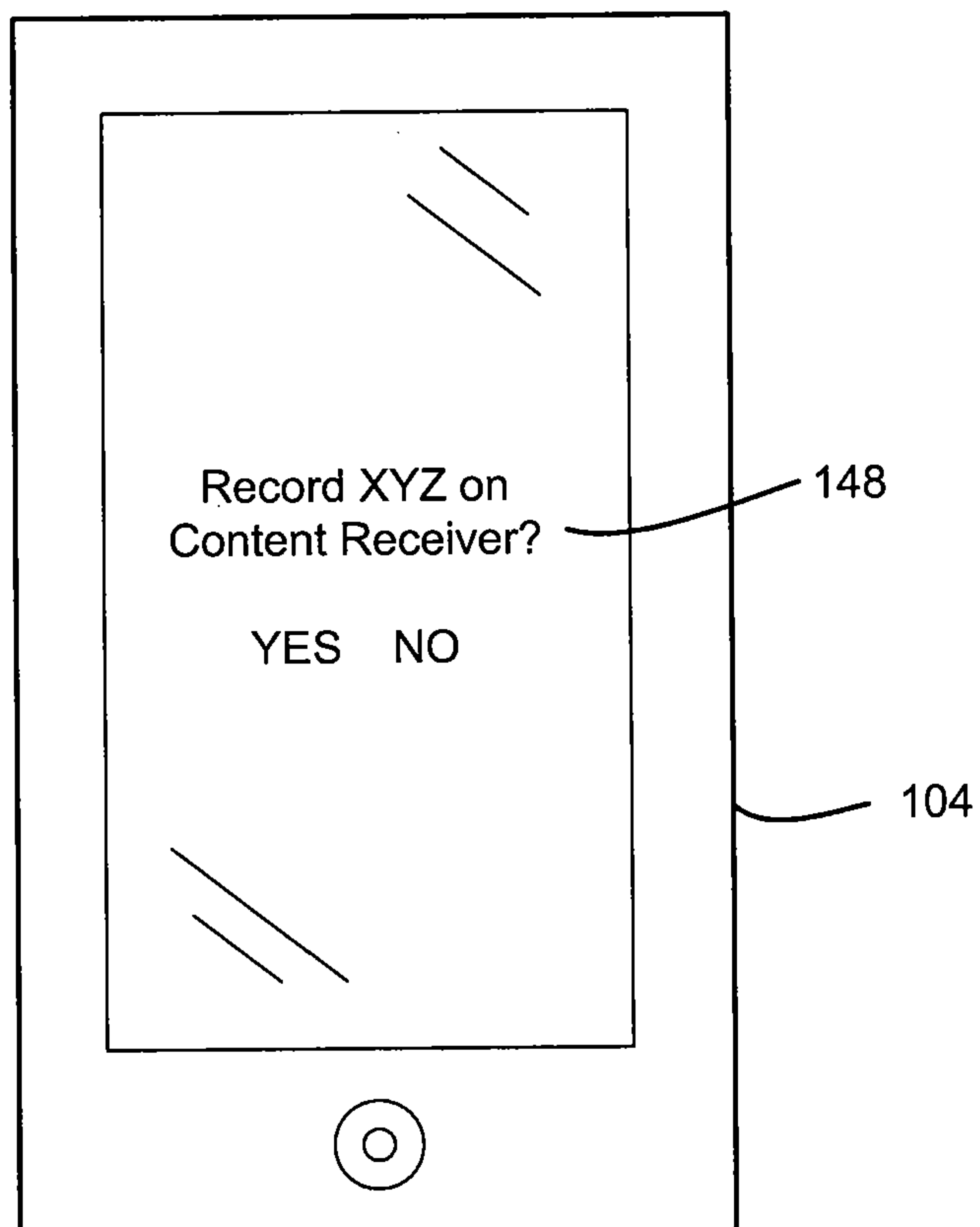


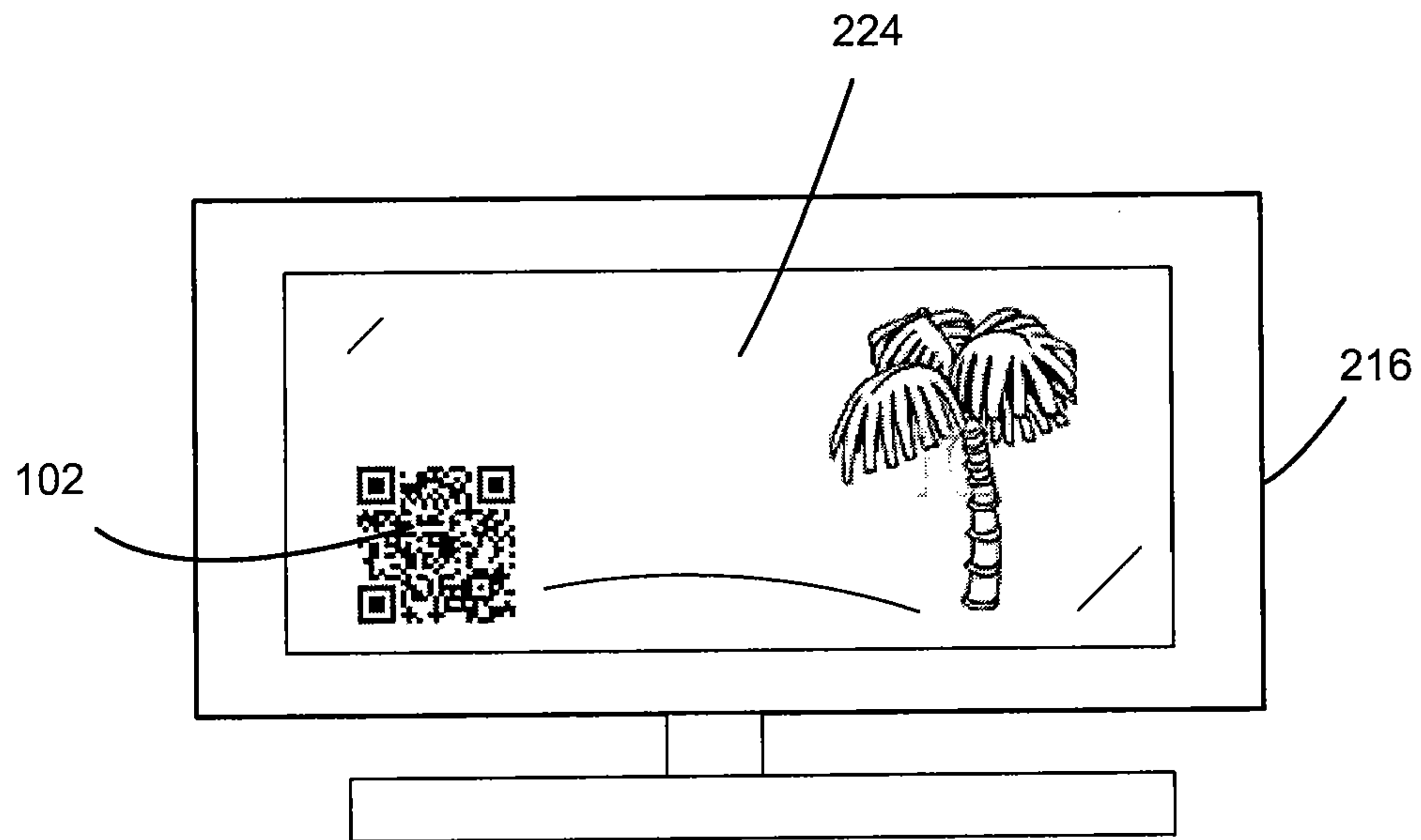
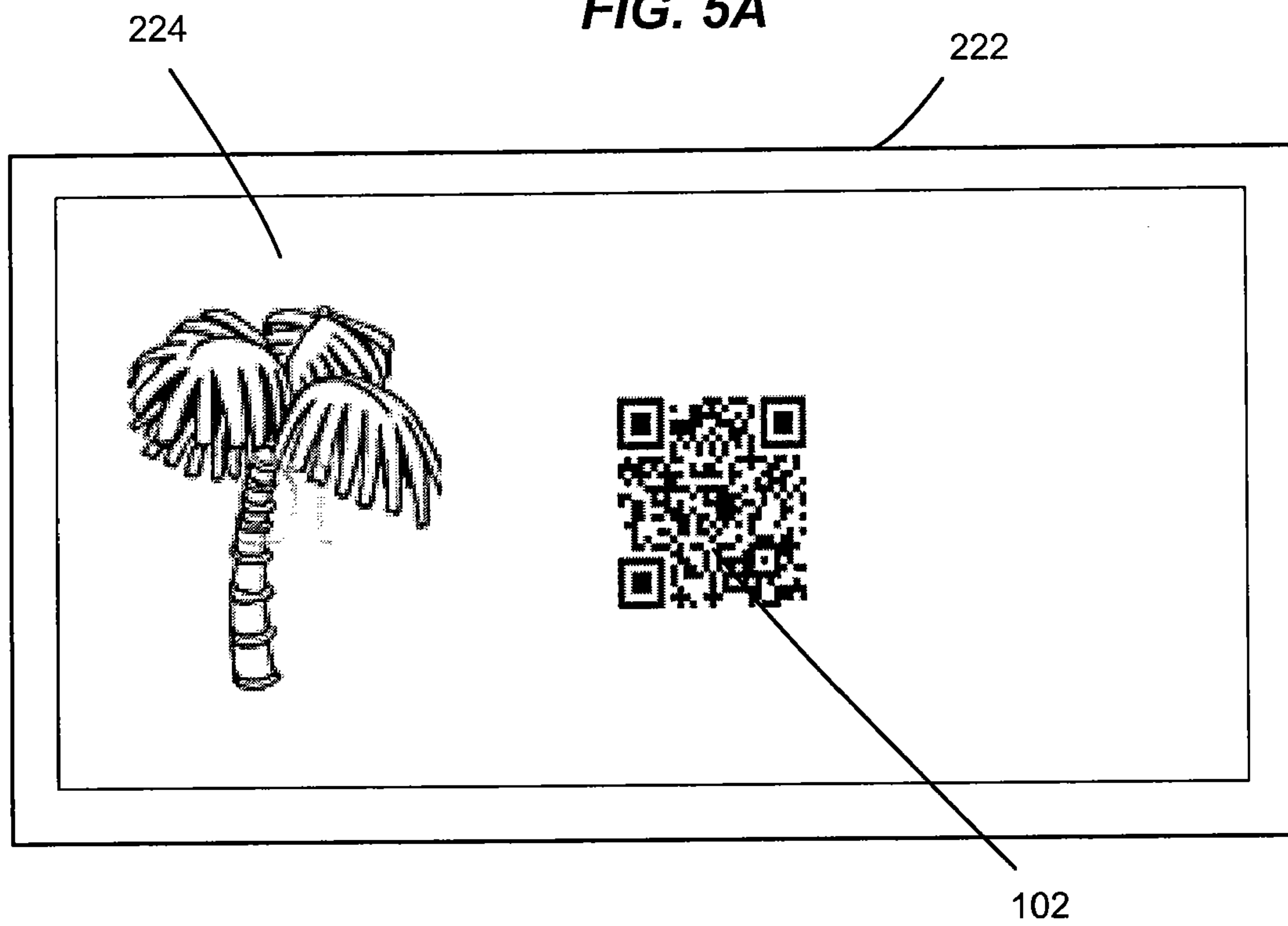
FIG. 1

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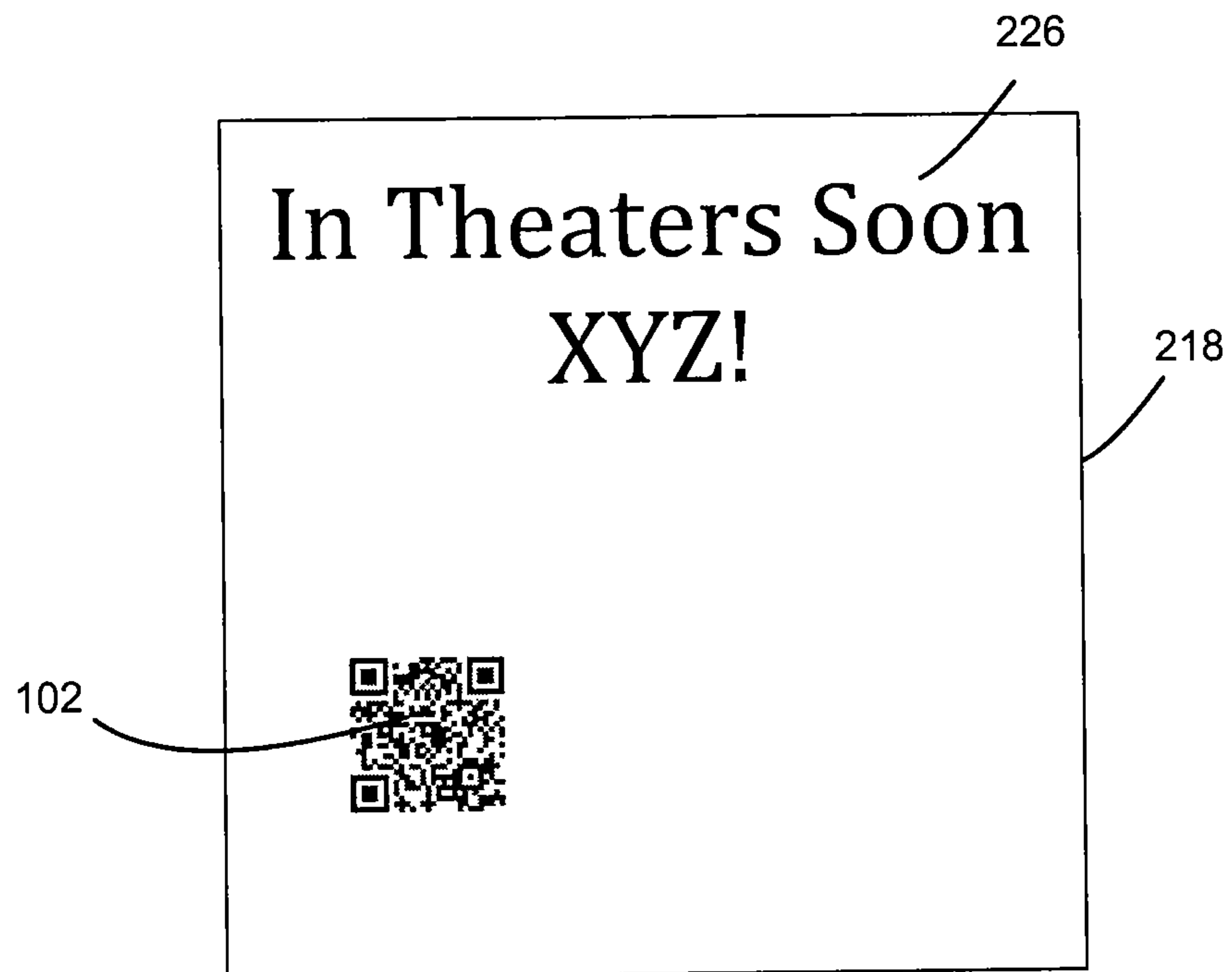
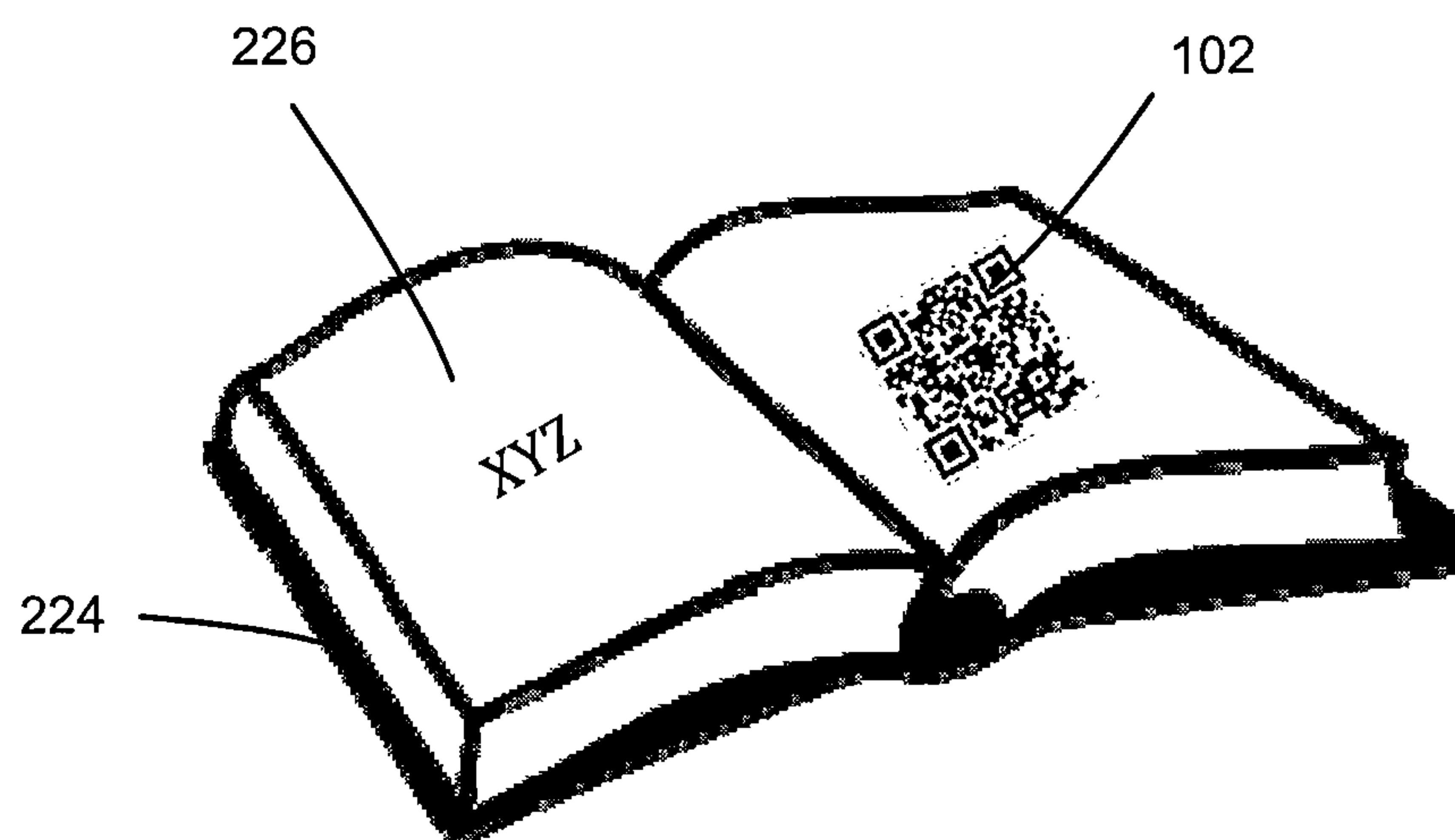
**FIG. 2**

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5/7**FIG. 5A****FIG. 5B**

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**FIG. 5C****FIG. 5D**

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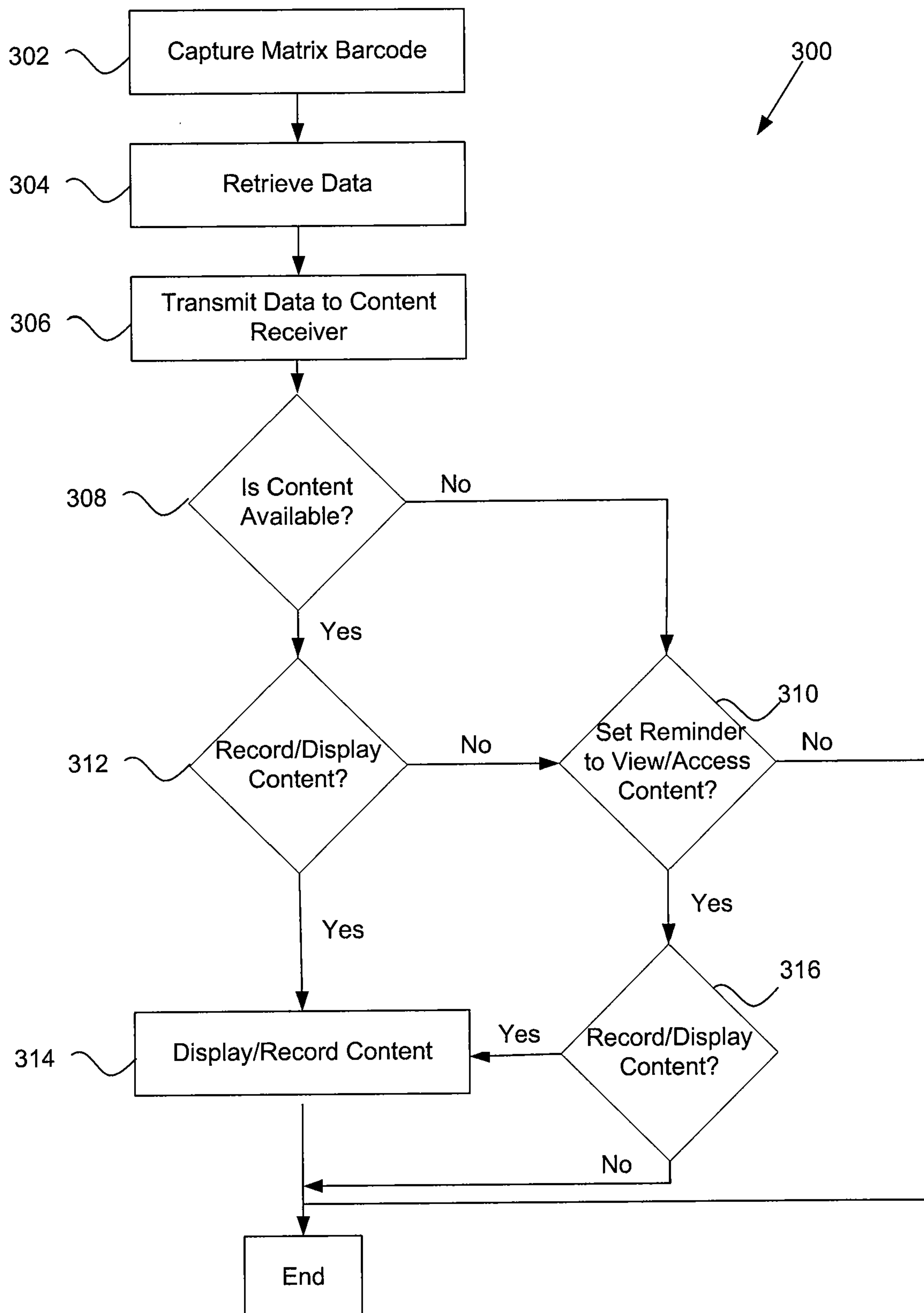


FIG. 6

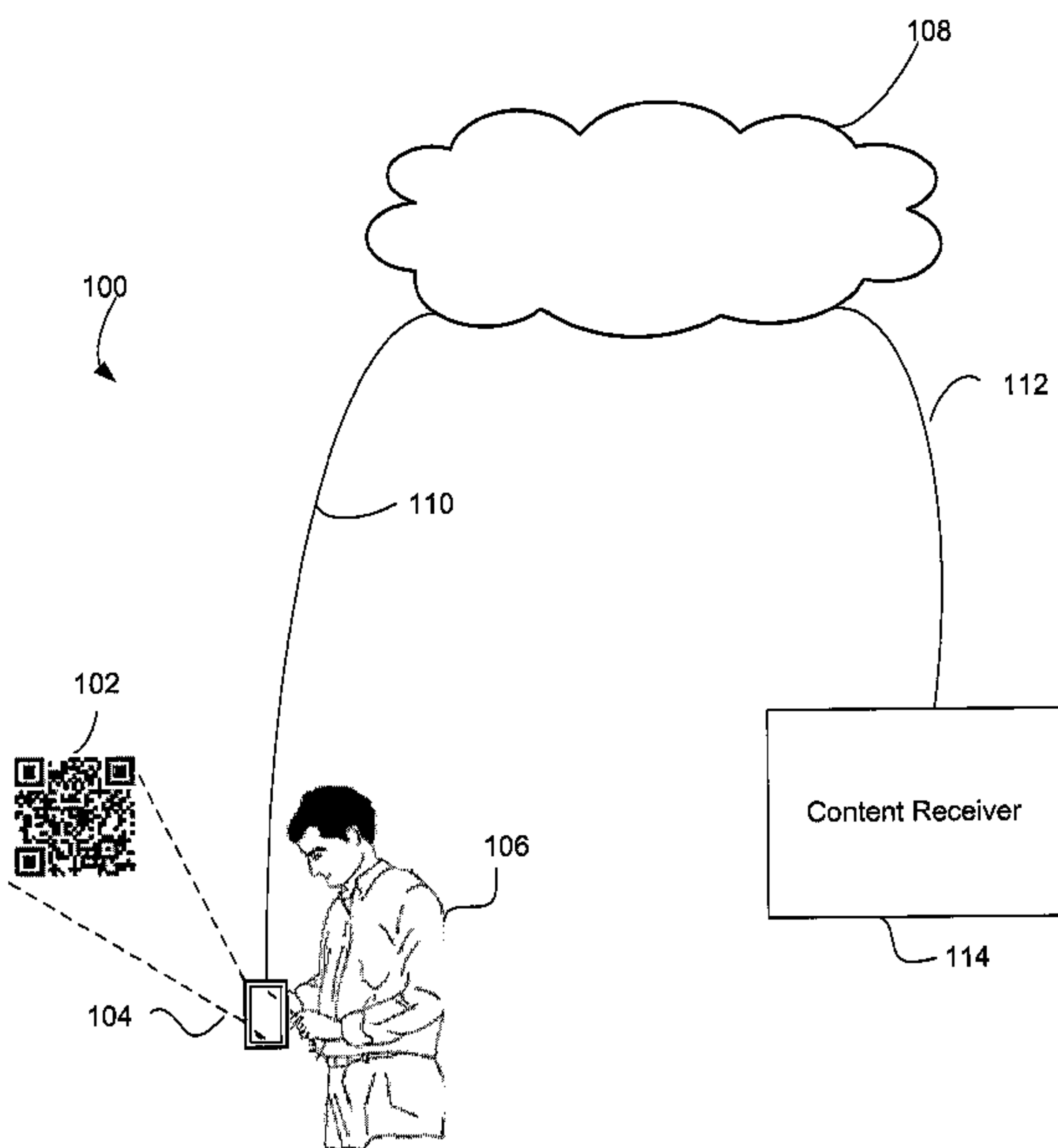


FIG. 1