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(54) Title: CONTAINERIZED SOFTWARE FOR VIRALLY COPYING FROM ONE ENDPOINT TO ANOTHER

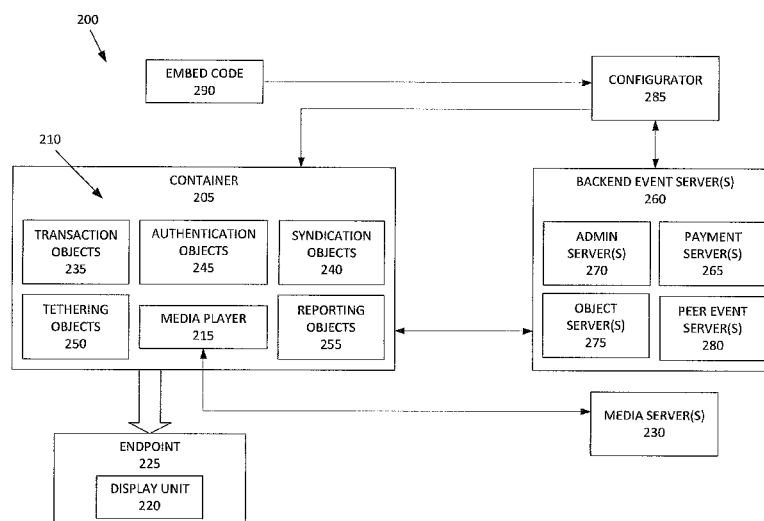


FIGURE 2

(57) Abstract: A method, system and computer readable medium include objects with media content. The method includes receiving, at one or more servers (102, 285), a request for the media content to be displayed at an endpoint (110, 120). The method includes identifying information about an environment associated with the endpoint. The method includes identifying a set of objects (210) to include in a container (205) for the media content based on the information identified about the environment. At least one of the objects (235) includes program code for completing a transaction during display of the media content. Additionally, the method includes sending, by one or more servers (102, 260, 285), the set of objects to the endpoint.

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CONTAINERIZED SOFTWARE FOR VIRALLY COPYING
FROM ONE ENDPOINT TO ANOTHER

TECHNICAL FIELD

5 [0001] The present disclosure is directed, in general, to containerized software, and more specifically, to systems and methods for distributing containerized software.

BACKGROUND

10 [0002] Online shopping has increased in recent years. Consumers use technology to simplify the shopping experience to shop from home without needing to travel to the store. Merchants have become increasingly competitive to market their products and services to consumers over the Internet. Traditionally, when a consumer sees an advertisement for a product or desires to purchase something online, the consumer needs to visit the website for the merchant in order to complete the transaction. This may be undesirable in certain
15 situations. For example, consumers may not wish to be distracted by advertisements or may not wish to leave the website that they are viewing in order to purchase something. As a result, online sales potential is diminished due to lack of convenience from the consumer perspective. Additionally, hosts of the website the consumer is viewing may not want consumers to leave their website to go transact business elsewhere.

20 [0003] Videos and other types of media are often popular among viewers. Websites, such as YouTube, allow users to post videos for others to view. Some videos gain popularity that can be tracked through number of views or "hits."

[0004] Monetization of media content can present challenges even despite the popularity of the video. For example, some websites provide advertising that is displayed
25 prior to the video or elsewhere on the webpage. Such advertisements may interfere with the video content and may annoy viewers. While website advertisement may generate some revenue, that revenue is often primarily retained by the website hosting the video content. This results in a dynamic where the website doing the hosting profits financially while the creators of the video content, although gaining notoriety, often struggle to see a return on
30 investment.

[0005] Accordingly, there is a need for methods, systems, devices and computer readable media that take into account one or more of these issues and possibly other issues as well. For example, there is a need to bring the store to the consumer.

SUMMARY

[0006] According to various embodiments of the present disclosure, methods, systems devices and computer readable media are disclosed for enabling containerized software.

5 [0007] In one embodiment, a method is provided for including objects with media content. The method includes receiving, at one or more servers, a request for the media content to be displayed at an endpoint. The method includes identifying information about an environment associated with the endpoint. The method includes identifying a set of objects to include in a container for the media content based on the information identified about the
10 environment. At least one of the objects includes program code for completing an electronic commerce transaction during display of the media content. Additionally, the method includes sending, by one or more servers, the set of objects to the endpoint.

[0008] Before undertaking the DETAILED DESCRIPTION below, it may be advantageous to set forth definitions of certain words and phrases used throughout this patent
15 document: the terms “include” and “comprise,” as well as derivatives thereof, mean inclusion without limitation; the term “or,” is inclusive, meaning and/or; the phrases “associated with” and “associated therewith,” as well as derivatives thereof, may mean to include, be included within, interconnect with, contain, be contained within, connect to or with, couple to or with, be communicable with, cooperate with, interleave, juxtapose, be proximate to, be bound to or
20 with, have, have a property of, or the like; and the term “controller” means any device, system or part thereof that controls at least one operation, such a device may be implemented in hardware, firmware or software, or some combination of at least two of the same. It should be noted that the functionality associated with any particular controller may be centralized or distributed, whether locally or remotely. Definitions for certain words and phrases are
25 provided throughout this patent document, those of ordinary skill in the art should understand that in many, if not most instances, such definitions apply to prior, as well as future uses of such defined words and phrases.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] For a more complete understanding of the present disclosure and its advantages, reference is now made to the following description taken in conjunction with the accompanying drawings, in which like reference numerals represent like parts:

5 [0011] FIGURE 1 illustrates a block diagram of a communication system that can be utilized to facilitate communication between endpoint(s) through a communication network in accordance with various embodiments of the disclosure;

[0012] FIGURE 2 illustrates a block diagram of a container management environment that may be utilized to virally syndicate and propagate a container across the Internet in
10 accordance with various embodiments of the present disclosure;

[0013] FIGURE 3 illustrates an example display of media content in a display unit for a container at an endpoint in accordance with one embodiment of the present disclosure;

[0014] FIGURE 4 illustrates an example display of a ribbon including for purchase within a video in accordance with one embodiment of the present disclosure;

15 [0015] FIGURE 5 illustrates an example display of information about a selected item in accordance with one embodiment of the present disclosure;

[0016] FIGURE 6 illustrates an example display of an interface for logging into an account in accordance with one embodiment of the present disclosure;

[0017] FIGURE 7 illustrates an example display of a checkout interface for an item in
20 the user's cart in accordance with one embodiment of the present disclosure;

[0018] FIGURE 8 illustrates an example display of a shipping address entry interface allowing a user to input shipping information in connection with a purchase transaction in accordance with one embodiment of the present disclosure;

[0019] FIGURE 9 illustrates an example sharing interface for sending a video clip
25 with a container in accordance with one embodiment of the present disclosure;

[0020] FIGURE 10 illustrates an example display of the video clip in FIGURE 3 displayed in a display unit for a container in a webpage in accordance with one embodiment of the present disclosure;

[0021] FIGURE 11 illustrates an example display of the shipping address entry
30 interface in FIGURE 8 displayed in the display unit for the container in a webpage in accordance with one embodiment of the present disclosure;

[0022] FIGURE 12 illustrates an example display of a container implemented within a social media website in accordance with one embodiment of the present disclosure;

[0023] FIGURE 13 illustrates an example display of a container implemented within a webpage on a tablet computer in accordance with one embodiment of the present disclosure;

5 [0024] FIGURE 14 illustrates an example display of a container implemented within a mobile device in accordance with one embodiment of the present disclosure;

[0025] FIGURE 15 depicts a flowchart of a process for including objects with media content in accordance with disclosed embodiments;

[0026] FIGURE 16 depicts a flowchart of a process for rendering a container at an endpoint in accordance with disclosed embodiments; and

10 [0027] FIGURE 17 illustrates a data processing system that may be used to implement various embodiments of the present disclosure.

DETAILED DESCRIPTION

[0029] FIGURES 1-17, discussed below, and the various embodiments used to describe the principles of the present disclosure in this patent document are by way of illustration only and should not be construed in any way to limit the scope of the disclosure.

5 Those skilled in the art will understand that the principles of the present disclosure may be implemented in any suitably arranged system.

[0030] FIGURE 1 illustrates a block diagram of a communication system 100 that can be utilized to facilitate communication between endpoint(s) 110 and endpoint(s) 120 through a communication network 130, according to particular embodiments of the disclosure. In various embodiments, server(s) 102 may be utilized to facilitate communication between endpoint(s) 110 and endpoint(s) 120. As used herein, "endpoint" may generally refer to any object, device, software, or any combination of the preceding that is generally operable to communicate with another endpoint. The endpoint(s) may represent a user, which in turn may refer to a user profile representing a person. The user profile may comprise, for example, an address for the user, a user name, a pass code, other user information, or any combination of the preceding. Additionally, the endpoint(s) may represent a device that comprises any hardware, software, firmware, or combination thereof operable to communicate through the communication network 130. The server(s) 102 are one or more computers or programs running on one or more computers that are capable of performing a request received from another computer or program. Examples of server(s) include applications servers, enterprise servers, and web servers.

[0031] Examples of an endpoint(s) include, but are not necessarily limited to, a computer or computers (including servers, applications servers, enterprise servers, desktop computers, laptops, net books, tablet computers (e.g., IPAD)), a switch, mobile phones (e.g., including IPHONE and Android-based phones), networked televisions, networked disc players, components in a cloud-computing network, or any other device or component of such device suitable for communicating information to and from the communication network 130. In various embodiments, the endpoint(s) 110 and 120 may be a website or email message. Endpoints may support Internet Protocol (IP) or other suitable communication protocols. Endpoints may additionally include a medium access control (MAC) and a physical layer (PHY) interface that conforms to IEEE 801.11. If the endpoint is a device, the device may have a device identifier, such as the MAC address, and may have a device profile that describes the device.

[0032] The communication network 130 and links 105, 115 and 125 to the communication network 130 may include, but is not limited to, a public or private data network; a local area network (LAN); a metropolitan area network (MAN); a wide area network (WAN); a wireline or wireless network (GSM, CDMA, LTE, WIMAX, or the like);
5 a local, regional, or global communication network; portions of a cloud-computing network; a communication bus for components in a system; an optical network; a satellite network; an enterprise intranet; other suitable communication links; or any combination of the preceding. In particular embodiments, portions of the links 115, 125 or communication network 130 may be on the Internet.

10 [0033] Although an endpoint generally appears as being in a single location, the endpoint(s) may be geographically dispersed, for example, in cloud computing scenarios. As used in this document, "each" may refer to each member of a set or each member of a subset of a set.

[0034] When the endpoints(s) 110 and 120 communicate with one another, any of a
15 variety of security schemes may be utilized. As an example, in particular embodiments, endpoint(s) 110 may represent a client and endpoint(s) 120 may represent a server in client-server architecture. The server and/or servers may host a website, and the website may have a registration process whereby the user establishes a username and password to authenticate or log into the website. The website may additionally utilize a web application for any particular
20 application or feature that may need to be served up to the website for use by the user.

[0035] Embodiments of the present disclosure provide innovative new methods for merchants to reach their customers online. In the traditional online sales model, merchants need to create search or display ads which show up when online consumers visit search engine sites or various web properties. If the consumer sees an interesting ad related to a
25 product or service, they need to leave their current activity and visit some other web destination to discover more information or make online purchases. Consumers have specific online behavior patterns. If they are actively shopping, then the traditional multistep model is workable. The traditional advertising sales model requires that the consumer stop what they are doing and visit some other online destination. However, if they are on a social site
30 interacting with friends, reading the news, playing games, or engaged in other online activities, they are much less likely to leave their current activity to visit some external Internet destination.

[0036] Various embodiments of the present disclosure bring the product information or store to the consumer. Various embodiments of the present disclosure utilize an innovative new Smart Container™ code/technology that virally syndicates across the web, for example, using components described with reference to FIGURE 1 or using other components. The Smart Container™ code/technology is ideal for those types of destinations that online consumers tend to frequent, such as social networks and blogs. Regardless, if the Smart Container™ code is located on a web page, a blog article, a social network page or wall, or a mobile device, a user can complete their transaction right there with no need to be diverted to some external destination.

[0037] FIGURE 2 illustrates a block diagram of a container management environment 200 that may be utilized to virally syndicate and propagate a container across the Internet in accordance with various embodiments of the present disclosure. The container 205 is program code that virally syndicates and propagates objects 210 across the web and other connected network and mobile devices. The container 205 is a new type of software entity that performs a task in a distributed fashion while adapting and configuring to the user's environment. The container 205 may not be created by a web site author, but an independent object that can perform in multiple different environments. The container 205 can be deployed by anyone, a blogger, email campaign, etc. The container 205 does not need to be purpose built into the website or program code to work.

[0038] Shopping and marketing experiences can be enhanced when interactive media is used. The container 205 serves up interactive media to users. For example, one of the objects 210 in the container 205 is a media player 215. The media player 215 includes instructions and parameters for rendering or otherwise displaying media content in a display unit 220 located at the endpoint 225. The media player 215 displays or streams media content from media server(s) 230 in the display unit 220 at the endpoint 225. For example, the media player 215 may reference a URL or other location to stream media content from the media server(s) 230. In some examples, the media player 215 may stream content from websites, such as YouTube™. Examples of media content that may be displayed include video data (such as video clips and animation), image data (e.g., still images from the video data, advertisements, pictures of goods or services, etc.) and audio data (e.g., narration or marketing content associated with the video data or the image data, music or songs). Various embodiments recognize that one of the most appealing forms of media for sales and shopping

is video. Video allows a much more lifelike representation than text or static pictures. Video also creates a rich product browsing or shopping experience.

[0039] In various embodiments of the present disclosure, the container 205 supports many different types of transactions. For example, the container 205 can be configured in a variety of ways to address an entire value chain of online marketing and shopping. The value chain of online marketing and shopping includes impressions, clicks (e.g., enticing a viewer to click on an object and be directed to a different website or to different content within the container 205), lead generation (e.g., submitting personal information with a request for offers of products or service), and performing electronic commerce transactions. Electronic commerce is the buying and selling of products or services over computer networks, such as the Internet. Electronic commerce transactions are transactions associated with electronic commerce. In non-limiting examples, electronic commerce transactions include the purchase or sale of goods and services and donation of items of value (e.g., money, goods or services) to an organization (e.g., a charity, campaign, cause, etc.). In other non-limiting examples, electronic commerce transactions may encompass activities (such as impressions, clicks or lead generation) that lead up to other electronic commerce transactions (such as the purchase or sale of goods and services).

[0040] The container 205 includes transaction objects 235 to support the different types of transactions. The transaction objects 235 include code for marketing and completing transactions within the container 205. For example, the transaction objects 235 may include images and information about a selection of products or services being offered, data for completing payment transactions, an electronic shopping cart and/or other data for completion of electronic commerce transactions. The media content, such as video clips, may be displayed by the media player 215 at one of the endpoints to allow a consumer to learn more about the products, services or transactions supported by the container 205. The consumer can select any of these offered items to get more details (e.g., using the transaction objects 235), all enclosed within the container 205.

[0041] The syndication objects 240 include code for allowing a user to share, embed or otherwise send a container to another endpoint. For example, the syndication objects 240 include code for allowing a user to share the media content (and consequently the objects accompanying the media content in the container 205) on a social website, embed within a webpage or send the container 205 (or at least a link (e.g., uniform resource locator (URL)) for the container) via an electronic message (e.g., email, text message, instant message).

[0042] The authentication objects 245 include program code for allowing a user of the endpoint 225 to authenticate or login to an account associated with the container 205. The authentication objects 245 may provide a user interface for a user to login or may automatically log a user in based on a combination of one or more of user settings, device recognition, and/or data stored in a cookie. The account may be a user account for the provider of the container or the merchant associated with the container. For example, the account may be used for easy payment processing of transactions or a distributed shopping cart, as will be described in greater detail below. If the user selects to share the container 205, the authentication objects 245 may include information about the user sharing the container 205 for data tracking analytics and/or indentifying information about which objects to include in the syndicated container.

[0043] The tethering objects 250 include program code for tethering the container 205 with another container at another endpoint. The tethering objects 250 enhance the shopping experience for different users. The tethering objects 250 enable a shared container experience between two or more different users. For example, the tethering objects 250 may synchronize the display of the media content, allow users to share purchases or a shopping cart, provide an interface for text, voice and/or video chat between the users.

[0044] The reporting objects 255 include program code for keeping track of information about the container 205. For example, the reporting objects 255 may report information on clicks, impressions, lead generation, product sales, donations, users, syndication paths, syndication locations, and/or any other reportable metrics for merchants and/or container providers to track and improve container performance. The description of the objects 210 included in the container 205 is not intended to be exhaustive or limiting. Any other suitable types of objects may be included in the container 205.

[0045] Because the code for the container 205 handles all the complexity, in some embodiments, the container 205 can turn a simple web site into an instant e-commerce store. The container 205 enables users to transact online without having to deal with the complexity of setting up an e-commerce site. For merchants with an e-commerce site, the container 205 readily enables a rich shopping experience with the interaction between the media content and transaction objects 235. In non-limiting examples of a creative hobbyist or local band, the container 205 allows the user to readily sell directly to interested consumers. In some embodiments, the transaction objects 235 may include offers in the container 205 for custom merchandise. For example, merchants can custom design a selection of apparel with their art

and graphics to be sold along with their own creations. Some embodiments may dynamically produce and ship the custom apparel for the merchant, eliminating the need to manage inventory, and providing online customers with a richer line of products. Because the e-commerce store uses the container 205, the e-commerce store can also propagate out onto all forms of viral syndication methods as well.

[0046] These offered items (products or services) may be items being advertised or sold. Depending on the type, the container 205 may allow the consumer to request to be contacted, or even purchase the object, within the container 205. The consumer need not leave their current activity or web page. The offered items could also include getting discounts or coupons. The offered items may even be an opportunity to donate to a charity or political campaign. In certain instances, it does make sense to visit another Internet designation, and if appropriate, the consumer can be linked there as well.

[0047] The objects 210 in the container 205 are supported by backend event server(s) 260. The objects 210 are individual applications (e.g., mini apps or applets) that provide the functionality for implementing the container 205. The objects 210 are intelligent and lightweight, which improves the transferability of the container 205 while allowing the container 205 to implement tasks in a dynamic and effective manner. The objects 210 may not include everything necessary for handling all the tasks required. The objects 210 may communicate with one or more servers in backend event server(s) 260 to complete tasks in the container 205.

[0048] For example, to process a transaction, the transaction objects 235 may securely send payment information to payment server(s) 265. In other examples, the transaction objects 235 or authentication objects 245 may send information about impressions, clicks, shares, and/or user login information to admin server(s) 270 for reporting and analytics. In other examples, all the objects needed for the container 205 may not be initially provisioned. For example, to keep the container initially lightweight, identifiers or locations for objects may be included in the container 205 initially with the objects later provisioned by the objects server(s) 275. In another example, certain objects may be provided in the container 205 based on initial information about the endpoint 225 (e.g., object selection based on assumed device type, website location, or programming language). Upon recognition that additional or different objects should be included in the container 205, the objects server(s) 275 may provision the additional or different objects for improved container experience at the endpoint 225. Peer event server(s) 280 may send and receive information

from objects to handle information related to sharing and purchases. For example, the peer event server(s) 280 support tethering events, such as notification of video clip views, purchases, and/or user messaging.

[0049] The container 205 can virally syndicate across the Internet following the more popular network paths. The container 205 can be hosted on traditional web pages, blogs, contained in emails, operate on mobile devices, or propagate social networks. Because the container 205 code is flexible, the container 205 can also be set up in the form factor of a display ad unit and distributed via ad servers on display advertising networks. When the code for the container 205 exists on social networks like FacebookTM, the container 205 can ride the wave of user "likes". For example, if a woman shopper likes some great shoes shown in a video in the container 205, the container 205 code can propagate directly to their "wall." Now all her friends see the video and products in the container, and can view or transact right there on their own wall. Of course, if any of their friends also "like" it, the container 205 code propagates and rides the wave further out into that branch of the social network yielding a potential exponential growth factor. In other examples, the container 205 objects may support a politician running for office. Their supporters may be passionate about the message and "like" it, again making it available to their network. Now, similarly minded political supporters can view those messages too, and if so moved may donate to the cause within the container 205. In another example, such as sports, a sports fan may wish to watch that content on their HD large screen TV. More and more have interconnected devices, such as a RokuTM, and a container 205 code could exist on such an IP TV box as well, enabling the sharing of a container 205 in a variety of Internet connected devices.

[0050] Another form of tracking relates to how the container 205 is propagated. A merchant may wish to use affiliates to help syndicate the container 205 and pay a percentage based on the transactions resulting from their work. The container 205 objects can be tagged with affiliate tracking identifiers allowing status reports and transactions from that container instance or its descendants to be properly filtered. Another tracking usage may be for a politician to assign affiliate codes to their supporters and be able to measure whose efforts result in the most new supporters.

[0051] The container 205 is a smart container in that the container 205 is capable of customizing automatically based on the environment to which the container 205 is propagated. For example, the objects 210 included in the container 205 may be configured or selected in real-time based on different criteria. The container 205 is generated by the

configurator 285 when the configurator 285 receives a request for the container 205, such as an embed code 290. The configurator 285 is a backend service or application that runs on a server (e.g., one or more of the server(s) 102 in FIGURE 1). The configurator 285 generates the container 205 by identifying the objects 210 to include in the container 205.

5 [0052] The environment associated with the endpoint 225 where the container is being propagated to is one example of criteria that may be used to select or otherwise configure the objects 210 included in the container 205. For example, the configurator 285 may identify this environment information from the embed code 290. The embed code 290 is a request for the container 205 that includes information, such as, for example, without
10 limitation, an identifier of the container 205 being propagated, an originating Internet Protocol (IP) address, a time the request was sent and/or received, reference codes, such as a requester identifier, merchant identifier, website (e.g., URL) where the embed code 290 was sent from and/or is requesting the container 205 be rendered at, and/or other information that may be identified about the environment where container 205 renders. From the IP address
15 and/or the website information, the configurator 285 may identify a location of the endpoint 225, a type of device (e.g., mobile device, computer, etc.) of the endpoint, the website (e.g., stand alone web page, embedded within a webpage, displayed on a social website) for the endpoint and/or other information about the environment.

[0053] In some examples, if the device is a traditional PC or laptop, the configurator
20 285 will include objects for the container 205 to render using the optimal technology or rendering parameters, which, for this purpose, may be flash video. On mobile devices, such as iPhones, iPads, or Android phones, the rendering parameters may be selected as HTML5 or a native interactive app. Based on the information about how the content should be rendered, configurator 285 includes the appropriate objects for the media player 215 to render
25 properly for the environment. Beyond device type, there are other dimensions of customization. Smaller devices and some environments, such as a social site, restrict window sizes, so the media player 215 in the container 205 adapts to properly render the media content.

[0054] In other examples, the configurator 285 may identify which products to
30 advertise or ways to customize the media content based on the location of the endpoint 225, which can be identified from the IP address. For example, the container 205 can provide different content customized based on geo-location. In one example, if the location of the endpoint is in a cold climate, objects in the transaction objects 235 may be selected to offer

appropriate seasonal products with the media content. In other examples, the media content may be customized based on the location. For example, text associated with the media content and the transaction objects 235 may be selected based on a language commonly spoken at the location. In other examples, the media content may be selected to appeal to location preferred sports teams, activities, etc.

[0055] As other examples of criteria that may be used to select or otherwise configure the objects 210 included in the container 205, the configurator 285 may communicate with backend event server(s) 260 to identify the objects to identify objects to include in the container 205. For example, the configurator 285 may identify products to market or video clips to send based on merchant information accessible via the admin server(s) 270. For example, the status of a marketing campaign may be used to select or otherwise configure the objects 210 and media content included in the container 205. The objects in the container 205 may be updated and/or selected based on real-time information about successes and failures based on information about the marketing campaign. For example, embodiments of the present disclosure track sales data and video propagation data, such as what video clips are popular, and/or a demographic of the viewers syndicating or viewing the media content. The server(s) 102 in FIGURE 1 may identify which products to advertise at what location and what video clips to select, based on the sales data or the video propagation data. Based on this, the server(s) dynamically select which objects to place within the container 205 that is sent to the endpoint.

[0056] The admin server(s) 270 can track data on how a merchant campaign is performing and when merchants launch and syndicate their container 205 code onto the Internet. For example, the reporting objects can report back the status on events and transactions of interest, (e.g., how many impressions, video views, clicks, leads, sales have occurred). All such statuses can be sent back as events occur, providing details on how they are doing. Because the containers 205 are smart, the server(s) can instruct the container 205 to change behavior, offer different clips, update products, or to stop the marketing or sales campaign.

[0057] The objects in the container 205 code know about each other in certain embodiments. When a video is playing, the container 205 can update the product and service objects being shown that correspond with the particular sequence in a video segment. The container 205 allows a shopping channel to be created and syndicated across the Internet.

[0058] The code for the container 205 is designed to be highly scalable in particular embodiments. Rather than burden a single website with massive traffic which would result from a traditional model of bringing all consumers to the store, the code for the container 205 operates in a distributed manner. In particular embodiments, the code for the container 205 executes at the endpoint 225, (e.g., on a blog, social network or mobile device). The container 205 can fetch the instructions when stated, and then gather product items and video streams from a worldwide distributed content delivery network (e.g., the network 130). This results in highly scalable architecture allowing millions of concurrent consumers.

[0059] Although the container 205 has been described with media content and objects 210, such media content and objects 210 may not all be sent to an endpoint at the same time or as a bundle. Rather, in particular embodiments, information concerning the container may initially be stored on, for example, a server accessed by the endpoint. Then, when the endpoint requests the information for the container, additional information can be dynamically pushed to the endpoint or pulled from the endpoint (e.g., by the server sending a pointer to the endpoint).

[0060] By utilizing such a dynamic push/pull scenario, a single container 205 can be modified over time. As a simple example, a price may be associated with an item for sale at a point in time; however, when that point in time changes, the price for that item may change. Although the price changes, the initial information for requesting the container 205 does not change. Further examples of dynamic content will be described below.

[0061] FIGURES 3-14 are screen shots illustrating various example embodiments of functionality of the container 205. FIGURES 3-14 are intended as examples of features of various embodiments of the present disclosure. FIGURE 3 illustrates an example display of media content in a display unit for a container at an endpoint in accordance with one embodiment of the present disclosure. For example, in FIGURE 3, a video clip 300 for a shoe is displayed within a frame for a container (such as container 205). The video clip 300 can be played by selection of the play button 305. A user can access a shopping cart via shopping cart button 310, find out information about the video via info button 315, and share the video via the share button 320. FIGURE 4 illustrates an example display of a ribbon 400 including items 405 for purchase within the video clip 300 in accordance with one embodiment of the present disclosure.

[0062] FIGURE 5 illustrates an example display of information about a selected item in accordance with one embodiment of the present disclosure. For example, while watching

the video clip 300, the viewer may wish to purchase or inquire about purchasing a shoe featured in the video clip 300. Upon selection of an image of the item 500 from the items 405 in the ribbon 400, the container 205 operating at the endpoint generates a display of information about the item 500 within the same display unit 220 for the video clip 300. For example, a user can view information about the item 500 with options to add to the user's cart (e.g., "add to cart" button 505) or to share the item (e.g., share button 510). The user is able to view information about the item 500, add to cart and share the item all within the container 205 while watching the video clip 300.

[0063] FIGURE 6 illustrates an example display of an interface 600 for logging into an account in accordance with one embodiment of the present disclosure. In this illustrative example, a user may log into an account to purchase items all within the container 205 while watching the video clip 300. For example, the login interface 600 in FIGURE 6 may be generated by the authentication objects 245 in FIGURE 2.

[0064] FIGURES 7 and 8 illustrate the purchase of an item within a display unit for a container. FIGURE 7 illustrates an example display of a checkout interface 700 for an item 705 in the user's cart in accordance with one embodiment of the present disclosure. The checkout interface 700 allows a user to purchase an item or items in the user's cart within the container 205 while watching the video clip 300. FIGURE 8 illustrates an example display of shipping address entry interface 800 allowing a user to input shipping information in connection with a purchase transaction in accordance with one embodiment of the present disclosure. The container 205 can generate and present similar interfaces for other stages of the purchase transaction (e.g., payment, authorization, login, etc.). The container 205 enables the user to complete an entire transaction within the container 205 while watching the video clip 300. In other embodiments, authentication objects 245 may authenticate a user and retrieve stored payment or shipping information of the user that can expedite the payment process. For example, the shipping address entry interface 800 is part of one example embodiment of the container 205 and may not be displayed in some embodiments.

[0065] FIGURE 9 illustrates an example sharing interface 900 for sending a video clip 905 with a container in accordance with one embodiment of the present disclosure. The sharing interface 900 illustrated in FIGURE 9 is a screen capture of a video clip 905 being played at one endpoint 110 with a display of options 910 for sending the video clip 905 (and consequently the container 205) to another endpoint 120. For example, a viewer watching the video clip 905 may select to share the video clip 905 on a website, such as a social network

website. In response to such a selection, the code for the container 205 (e.g., the syndication objects 240) may generate a display of sharing options 910 listing websites where the video clip 905 and container may be shared. In other examples, the code for the container 205 (e.g., the syndication objects 240) allows the viewer to embed within a webpage or send the container 205 via email. All of these options 910 for sending, propagating or otherwise virally syndicating the video clip 905 can be completed while watching the video clip 905 within the display unit 220 for the video clip 905 and without needing to be directed to another webpage.

[0066] The container 205 can be implemented in a variety of different environments.

FIGURES 10-14 provide exemplary screen shots of the container 205 implemented in different environments. The illustrations provided in FIGURES 10-14 are indented as illustrative examples and not intended to be exhaustive or imply any structural or physical limitation to the various embodiments of the present disclosure. FIGURE 10 illustrates an example display of the video clip 300 in FIGURE 3 displayed in a display unit for a container in a webpage 1000 in accordance with one embodiment of the present disclosure. As illustrated in FIGURE 10, the container 205 can be implemented in the web page 1000 in a browser on a computer, such as a desktop or laptop computer. FIGURE 11 illustrates an example display of the shipping address entry interface 800 in FIGURE 8 displayed in the display unit for the container in the webpage 1000 in accordance with one embodiment of the present disclosure. For example, as illustrated in FIGURE 11, the container 205 enables a user to complete an entire transaction within the display unit 220 for the container 205 while watching the video clip and without needing to be directed to another webpage.

[0067] FIGURE 12 illustrates an example display of a container implemented within a social media website 1200 in accordance with one embodiment of the present disclosure.

As depicted in FIGURE 12, the container 205 customizes itself to adapt to and render in the environment to which the container 205 is propagated. As illustrated, the container 205 has adapted to display a thumbnail image 1205 for a video clip within a wall 1210 on the social media website 1200. For example, a user may share a link to the video clip via the social media website 1200. The container 205 then customizes itself to display in line with the wall of the user. Upon selection of the video clip by another user, that other user is enabled to watch the video clip and complete transactions all within the container displayed in the social media website 1200 as described above. Also, as illustrated in this example, the container 205

streams the video content from another website (e.g., youtube.com) while providing the container functionality as described above.

[0068] FIGURE 13 illustrates an example display of a container implemented within a webpage on a tablet computer 1300 in accordance with one embodiment of the present disclosure. As depicted in FIGURE 12, the container 205 customizes itself to adapt to and render in a browser for the tablet computer 1300. FIGURE 14 illustrates an example display of a container implemented within a display 1400 of a mobile device in accordance with one embodiment of the present disclosure. As depicted in FIGURE 14, the container 205 customizes itself to adapt to and render in a user interface 1405 in the display 1400 of the mobile device. For example, the container 205 may be generated in a separate application for the container 205, an application for a social media website (e.g., Facebook™ app, Twitter™ app, etc.), or a web browser.

[0069] By bringing the store to the customer, the container 205 enables many new ways for merchants to connect with their consumers without disrupting the consumers' web activities. The end result is to connect the consumer directly with the merchant eliminating the intermediary and promoting a much more natural shopping experience.

[0070] According to an embodiment of the disclosure, an innovative new method for merchants to administer their virtual stores online is provided. To manage features with the container 205, an administrative feature may be provided via the admin server(s) 270 in what is referred to as an administration application. In an online administration model, merchants are typically required to have a fully featured computing device with persistent access to the World Wide Web. As an alternative to such a scenario and to enable on-the-go management, an embodiment of the disclosure provides merchants with a fully featured administration application – executable on mobile, handheld and smart devices – that is capable of creating and administering an entire virtual online store. In such embodiments, camera and video features may be utilized to capture digital assets for the container 205, whereas the mobile device's communication capabilities may be utilized to not only upload the digital assets, but also to issue commands and/or retrieve information for the management of an account that is used to create objects for the container 205.

[0071] The administration application for the mobile device is capable of running in both connected and disconnected modes. In a connected mode, the mobile administration application sends commands to the remote server instructing it to perform various actions related to store administration. Alternatively, in a disconnected mode, the mobile

administration application performs all of the commands locally, on the installed device, with periodic synchronization to the remote server.

[0072] Below are non-limiting features of administration applications for the mobile device:

- 5 • Onboarding Management Capability: allows merchants to take a step-by-step video tutorial designed to streamline an onboarding process.
- Store Management Capability: allows merchants to display, create, modify and remove Smart Stores™ that belong to them.
- 10 • Email Management Capability: allows merchants to display, create, modify and remove email templates.
- Tax Management Capability: allows merchants to display, create, modify, remove and
15 apply tax rules.
- Shipping Management Capability: allows merchants to display, create, modify and apply shipping rules.
- 20 • Display Unit Management Capability: allows merchants to display, create, modify, preview and remove video display units. In addition, this feature allows merchants to associate display units with stores that belong to the merchant.
- Display Management Capability: allows merchants to configure advance settings, such as
25 product purchase limit, user purchase limit, video play control, affiliate tracking, purchase instructions, thank you page content, end of video play content, as well as background images.
- Video Management Capability: allows merchants to capture, upload, display, modify,
30 preview, transcode, transcribe and remove videos. In addition, this feature allows merchants to associate videos with display units.

- Library Management Capability: allows merchants to capture, upload, display, modify, preview and remove digital assets in both 3-D and 2-D formats.
- 5 • Plan Management Capability: allows merchants to display, upgrade, downgrade and cancel subscriptions.
- Reporting Capability: allows merchants to generate desired reports based on the e-commerce, video and social sharing analytical measures and correlations.
- 10 • Customer Management Capability: allows merchants to display, create, modify, group and remove user information. In addition, this feature allows merchants to create notifications to users and/or groups.
- 15 • Product Management Capability: allows merchants to display, create, modify and remove products of various types offered inside of the object. Products include, but are not limited to, a) e-commerce products; b) e-commerce products with variances; c) linkout products; d) donation products; e) coupons; f) downloadable products; and g) lead generation products. In addition, this feature allows merchants to associate products with stores.
- 20 • Order Management Capability: allows merchants to display, create, modify, remove and disposition orders.
- 25 • Promotion Management Capability: allows merchants to display, create, modify, remove and apply promotions.

[0073] Given the above, in particular embodiments, a user may create objects for virally spreadable container(s) 205 directly from a mobile device. As a non-limiting example, a user may shoot a video from the mobile device, upload the video asset from the mobile device (e.g., using the wireless network described in FIGURE 1) to the server(s) 102, and then create and/or modify features of a new object from the mobile device using commands issued from the mobile device to the central server or servers. Thus, if the objects for the

container 205 include an e-commerce store, a user can obtain the assets and create a virally spreadable e-commerce store – all from a mobile device.

[0074] In particular embodiments, a traditional web interface for the administration application may largely be replicated to allow a mobile user the convenience of modifying and/or creating information for one's account on the go.

[0075] In various embodiments, the container 205 technology allows users to select products and services in context of their video or animation viewing experience in the confines of the display unit for the container 205. Upon product or service selection, a user is presented with details of the selected product or service without leaving the confines of the display unit or interrupting the animation or video viewing experience, as illustrated for example in FIGURE 5. Depending on the type, products or services in the display unit for the container 205 may be advertised or sold. Additionally, in particular configurations, the entire purchase or advertisement experience may be completely encompassed inside of the display unit for the container 205.

[0076] It is important to note that the container 205 retains all of the purchasing and advertising capabilities – substantially conducted in the same manner – when shared on social distribution channels, such as social networks or blogs. In particular configurations, the container 205 is fully capable to be distributed or virally syndicated upon any media that supports Adobe Flash™ and HTML5 technologies.

[0077] In addition to physical goods and services, the container 205 technology supports sale and redemption of digital goods, such as coupons and gift certificates. Digital products presented in the container 205 display units are available for purchase or as a reward for completing an action a merchant deems worthy of product redemption. Such actions may include purchase, submission of requested information, advertisement or video viewing or acknowledgement. Upon the sale of a digital product or as a result of the action deemed to be satisfactory to qualify a user for a digital product award, the digital product is available for redemption. A digital product can be redeemed using a variety of mechanisms, including, but not limited to: a) thanks for the purchase email; b) thanks for the purchase screen; c) end of play of a screen; or d) third party redemption web page.

[0078] In particular configurations, a “thanks for the purchase” email may constitute a digital mail delivered to the user upon performing a downloadable product redemption qualifying action. Digital mail provides instructions on how a downloadable product shall be redeemed. In other configurations, a “thanks for the purchase” screen is presented to the user

upon performing a downloadable product redemption qualifying action. In such configurations, the aforementioned screen may optionally contain instruction on how to redeem downloadable product or how to download the product itself.

[0079] In other configurations, an “end of play screen” may be presented to the user upon completing an animation or video viewing experience until the end. In such configurations, the aforementioned screen may optionally contain instructions on how to redeem the downloadable product or how to download the product itself. In other configurations, a third party redemption webpage served by a third party provider to the user may be provided upon performing a downloadable product redemption qualifying action. The presented webpage may optionally contain instructions of how to redeem a downloadable product or how to download the product itself.

[0080] Various embodiments of the present disclosure also provide companion products and up sell products with intelligent Internet objects. The container 205 technology supports companion products and services as well as up sell products and services. Companion products and services are presented to the user at the time of the product selection or post product sale. Upon product or service selection, a user may be presented with details of the selected product or service, in addition to a matching mechanism. The matching mechanism either may be predefined or dynamically selected additional products or services that complement an original selection. The user is given a choice to perform an action using original product or service selection or proceed with a suggested product or service bundle. In the context of the container 205, an action is defined as a purchase, a charitable contribution, a submission of requested information, advertisement or video viewing or acknowledgement. An identical mechanism may be utilized during the post purchase process where, upon completion of the purchase, a user is presented with up sell products or services suggesting additional actions.

[0081] Any suitable algorithm may be utilized with either mechanisms based, for example, on common linkage between products and services. Alternatively, the algorithm may be based, for example, on a statistical analysis that looks at users and linked products to yield what linked products or services are most often purchased with a particular product or service or grouping of products or services. Yet other techniques will become apparent to one of ordinary skill in the art.

[0082] Various embodiments of the present disclosure provide a distributed shopping cart with intelligent Internet objects. The container 205 technology supports a distributed

shopping cart (e.g., accessible via “add to cart” button 505 as illustrated in FIGURE 5). The distributed shopping cart allows the user to begin the shopping process in one or several display units for container(s) and to complete the transaction in another container that belongs to a merchant or a group of merchants combined into a merchant network. A merchant network consists of merchants that own or several merchants that agree to share user shopping information. By definition, the smallest merchant network consists of a single merchant that enables a shared shopping experience. A user may be identified by a tracking mechanism. Such a tracking mechanism may consist of a cookie, personal credentials, or other suitable tracking techniques, including, for example, an account that has a username and password. Upon recognition of a user that has one or several shopping carts, a user may be prompted for a choice to continue a shopping experience where he/she left off. If a user chooses to continue the shopping experience, the shopping flow resumes from the spot where the shopping flow was last persisted. Otherwise, a new shopping cart will be created and the shopping flow will resume from the beginning. A similar mechanism may be utilized for products and services involving charitable contributions or contact information collection. A last known persistence point allows a choice for workflow resumption.

[0083] As a brief recapitulation of the above and as an example, a user may be visiting a friend’s FacebookTM wall and see a display of a container with something of interest. The particular container display may become associated with the user upon the user’s interaction with the container using any suitable tracking mechanism. As a simple example, a user may log into a particular account directly within the display to associate the container and any items placed within a shopping cart with the user. The user may then visit another site or simply access a container display via an email. Upon the display being associated with the same user, the user may access the items previously placed within the cart and continue shopping, placing additional items within the cart. The above is a non-limiting example and is not intended to preclude other manners of accessing the distributed shopping cart.

[0084] Various embodiments of the present disclosure provide distributed retargeting of products with intelligent Internet objects. The container 205 supports distributed retargeting of products and services. Distributed retargeting of products and services allows merchants to display products or services that were viewed or similar to the products or services that were viewed by users that belong to a merchant or a group of merchants combined into the merchant network. Upon recognition of a user that has viewed one or

several products or services in the container 205 or a merchant website belonging to the same merchant network, the user may be presented with the products or services that were viewed or similar to the products and services that were viewed during previous visits. Any suitable algorithm may be used for the presentment of distributed retargeting, including collaborative
5 filtering and others. Such algorithms may avail from data from a group of merchants. Additionally, in the distributed retargeting, additional types of media may be shown with such media associated with the other products or services.

[0085] Various embodiments of the present disclosure provide dynamic configuration of intelligent internet objects. The container 205 technology supports dynamic configuration.

10 The dynamic configuration allows the container 205 to determine the number of screens, screen fields, field validation, business rules and user specific characteristics based on the configuration file that is passed to the container 205 technology during the runtime or assembly time. The configuration file contains configuration metadata. Upon receipt of the configuration file, the container 205 determines what screens, containing what fields,
15 requiring what validation should be presented to the user. Based on the user input, the container 205 interprets business rules passed to it using the configuration file, the logic and the flow of the screen execution. In addition to accepting metadata centric configuration files, the container 205 allows inclusion of third party dynamic flows. Such flows can be passed to the container 205 in the form of executable files during container 205 configuration or during
20 runtime. Just like dynamic configuration files, third party dynamic flows contain screens, screen fields, field validation, business rules and user-specific characteristics. Unlike dynamic configuration files, third party dynamic flows may not require separate interpretation steps and can be executed natively inside of the web browser.

[0086] FIGURE 15 depicts a flowchart of a process for including objects with media
25 content in accordance with disclosed embodiments. This process can be performed, for example, by one or more servers, such as, for example, the server(s) 102 in FIGURE 1, configured to perform acts described below, referred to in the singular as “the system.” The process may also be performed by the configurator 285 in the container management environment 200 in FIGURE 2. The process can be implemented by executable instructions
30 stored in a non-transitory computer-readable medium that cause one or more servers to perform such a process.

[0087] The process begins by the system receiving a request for the media content to be displayed at an endpoint at block 1505. For example, in block 1505, the system may

receive the request as a click to play a video or may receive the request from a second endpoint where the media content has been viewed and shared to the first endpoint.

[0088] Thereafter, the system identifies information about an environment associated with the endpoint at block 1510. For example, in block 1510, the system may identify a type of a device associated with the endpoint, a website where the media content is to be displayed, and a network speed between the endpoint and the system. In other examples, the system may identify information about a location of a device associated with the endpoint.

[0089] The system then identifies a set of objects to send with the requested media content based on the information identified about the environment at block 1515. For example, in block 1515, the system may include objects and the media content in a container (e.g., the container 205 in FIGURE 2). At least one of the objects in the set includes program code for completing an electronic commerce transaction during display of the media content. For example, the electronic commerce transaction may be purchasing a good or service, donating money, or submitting a sales lead.

[0090] In some examples, the system may identify information about a user associated with the second endpoint and identify objects to send with the requested media content based on the information about the user. For example, higher quality media content may be sent where the network bandwidth between an endpoint and the system is high. In other examples, the system may identify rendering parameters associated with the type of the device or the website and include objects designed to generate the display of the media content in the set of objects to send based on the rendering parameters. In other examples, the system may identify a product to advertize with the media content, a language for text associated with the media content and/or a type of video to send as the media content for display based on information about the location of the device and include appropriate objects in the container. In yet other examples, the system may identify information about a status of the marketing campaign associated with the media content and objects based on the information about the status of the marketing campaign.

[0091] In a variety of configurations, analytics may be utilized to determine what to send to a user based on their environment and/or profile information about the user. For example, based on a geographic location or determined profile, a shirt advertisement may be sent as opposed to a hat advertisement (which may also be shown in the video) because the analytics are showing the shirt to be more likely to sell than the hat.

[0092] Thereafter, the system sends the set of objects including the media content for display at the endpoint in block 1520. For example, in block 1520, the system sends the container to the endpoint for the media content to be displayed and the electronic transaction opportunities to occur. As referenced above, the objects and media may be sent separately or together.

[0093] FIGURE 16 depicts a flowchart of a process for rendering a container at an endpoint in accordance with disclosed embodiments. This process can be performed, for example, by the endpoint, such as, for example, the endpoint(s) 110 or 120 in FIGURE 1, configured to perform acts described below. The process can be implemented by executable instructions stored in a non-transitory computer-readable medium that cause one or more servers to perform such a process.

[0094] The process begins by receiving a request to render a container at an endpoint at block 1605. For example, in block 1605, the process may receive the request from a user requesting to view a video clip associated with the container. The process may also receive the request from a user sharing the container. The process then identifies a server supporting the container at block 1610. For example, in block 1610, the process may identify the server from the container. The server may be one or more of the server(s) 102 in FIGURE 1. In other examples, the server may be the configurator 285 or one of the backend event server(s) 260 in FIGURE 2.

[0095] Thereafter, the process provides information about the environment at the endpoint at block 1615. For example, in block 1615, the process may provide the identifier of the container information about the endpoint (e.g., website, device type, IP address), information about the user sharing or requesting to view the video, cookies, shopping cart information, container tethering information and/or any other type of information that may be useful in selecting objects to include in the container.

[0096] The process then receives container objects and location of media content at block 1620. For example, in block 1620, the process receives the container objects from the configurator 285 having configured or otherwise selected the objects to include in the container. The location of the media content may be a server that the media player in the container is to stream or otherwise receive the media content. Thereafter, the process receives and displays media content from the location at block 1625. For example, in block 1625, the process may stream the media content inside a display unit for the container from a media server specified in the container.

[0097] FIGURE 17 illustrates a data processing system 1700 that may be used to implement various embodiments of the present disclosure. For example, the data processing system 1700 that may be used in connection with other embodiments of the disclosure to carry out any of the above-referenced functions and/or serve as a computing device for server(s) 102 and/or endpoint(s) 110 and 120 of FIGURE 1. Data processing system 1700 may generally be adapted to execute any of the known OS2, UNIX, Mac-OS, Linux, Android and/or Windows Operating Systems or other operating systems. In this example, the data processing system 1700 includes a bus system 1702, which provides communications between a processor 1704, a memory 1706, a persistent storage 1708, a communications unit 1710, an input/output (I/O) unit 1712, and a display 1714.

[0098] The processor 1704 processes instructions for software that may be loaded into the memory 1706. The processor 1704 may be a number of processors, a multi-processor core or some other type of processor, depending on the particular implementation. Further, the processor 1704 may be implemented using a number of heterogeneous processor systems in which a main processor is present with secondary processors on a single chip. As another illustrative example, the processor 1704 may be a symmetric multi-processor system containing multiple processors of the same type.

[0099] The memory 1706 and the persistent storage 1708 are examples of storage devices 1717. A storage device is any piece of hardware that is capable of storing information, such as, for example, without limitation, data, program code in functional form and/or other suitable information either on a temporary basis and/or a permanent basis. The memory 1706, in these examples, may be, for example, a random access memory or any other suitable volatile or non-volatile storage device. For example, the persistent storage 1708 may contain one or more components or devices. For example, the persistent storage 1708 may be a hard drive, a flash memory, an optical disk, a rewritable magnetic tape or some combination of the above. The media used by the persistent storage 1708 also may be removable. For example, a removable hard drive may be used for the persistent storage 1708.

[00100] The communications unit 1710 provides for communications with other data processing systems or devices. For example, the communications unit 1710 may be connected to a computer network or a variety of other communicative platforms including, but not limited to, a public or private data network; a local area network (LAN); a metropolitan area network (MAN); a wide area network (WAN); a wireline or wireless network; a local, regional, or global communication network; an optical network; a satellite

network; an enterprise intranet; other suitable communication links; or any combination of the preceding. For example, the communications unit 1710 may include a network interface card. The communications unit 1710 may provide communications through the use of either or both physical and wireless communications links. The communications unit 1710 may also
5 include a radio frequency (RF) transceiver enabling wireless network communication (e.g., WiFi, cellular data connection, etc.). The communications unit 1710 may also include a GPS transceiver enabling positional location information.

[00101] The input/output unit 1712 allows for input and output of data with other devices that may be connected to the data processing system 1700. For example, the
10 input/output unit 1712 may provide a connection for user input through a keyboard, a mouse, a touch screen and/or some other suitable input device. Further, the input/output unit 1712 may send output to a printer. The input/output unit 1712 may also include or be connected to a camera, microphone, speaker, accelerometer and/or proximity sensor. The data processing system 1700 may utilize inputs and outputs from a camera, microphone, speaker,
15 accelerometer and/or proximity sensors in accordance with various communication and data transfer principles of the present disclosure. The display 1714 provides a mechanism to display information to a user. For example, the display 1714 may be a touch screen.

[00102] Program code for an operating system, applications or other programs may be located in the storage devices 1717, which are in communication with the processor 1704
20 through the bus system 1702. In some embodiments, the program code is in a functional form on the persistent storage 1708. These instructions may be loaded into the memory 1706 for processing by the processor 1704. The processes of the different embodiments may be performed by the processor 1704 using computer implemented instructions, which may be located in the memory 1706. For example, the processor 1704 may perform processes for one
25 or more of the modules and/or devices described above.

[00103] In some embodiments, various functions described above are implemented or supported by a computer program product that is formed from computer-readable program code and that is embodied in a computer-readable medium. Program code for the computer program product may be located in a functional form on a computer-readable storage device
30 that is selectively removable and may be loaded onto or transferred to the data processing system 1700 for processing by the processor 1704. In some illustrative embodiments, the program code may be downloaded over a network to the persistent storage 1708 from another device or data processing system for use within the data processing system 1700. For

instance, program code stored in a computer-readable storage medium in a server data processing system may be downloaded over a network from the server to the data processing system 1700. The data processing system providing program code may be a server computer, a client computer, or some other device capable of storing and transmitting program code.

5 [00104] As will be appreciated by one skilled in the art, aspects of the present disclosure may take the form of a computer program embodied in one or more computer-readable storage medium(s) having program code embodied thereon. A computer-readable storage medium may be, for example, without limitation, a portable computer diskette, a hard disk, a random access memory (RAM), a read-only memory (ROM), an erasable
10 programmable read-only memory (EPROM), flash memory, a portable compact disc read-only memory (CD-ROM), an optical storage device, a magnetic storage device or any suitable combination of the foregoing. The program code may also be loaded for execution by a processor to provide processes for implementing the functions or operations described in the present disclosure.

15 [00105] Although FIGURE 17 provides one embodiment of a data processing system that may be utilized with other embodiments of the disclosure, such other embodiments may additionally utilize computers other than general purpose computers as well as general purpose computers without conventional operating systems. Additionally, embodiments of the disclosure may also include data processing systems 1700 or other computers networked
20 together in a computer network. Most commonly, multiple data processing systems 1700 or other computers may be networked through the Internet and/or in a client server network. Embodiments of the disclosure may also be used with a combination of separate computer networks each linked together by a private or a public network.

[00106] Several embodiments of the disclosure may include logic contained within a
25 medium. In the embodiment of FIGURE 17, the logic includes computer software executable on the data processing system 1700. The medium may include the memory 1706, the persistent storage 1708 or other mediums. In other embodiments, the logic may be contained within hardware configuration or a combination of software and hardware configurations. The logic may also be embedded within any other suitable medium without departing from
30 the scope of the disclosure.

[00107] The functionality of the above description, once again may avail from any of the components described in FIGURES 1-17 or other suitable components. The code, itself,

may be written in any suitable format, including, but not limited to Java, C++, C-sharp, HTML, HTML5, and the like.

[00108] It will be understood that well known processes have not been described in detail and have been omitted for brevity. Although specific steps, structures and materials
5 may have been described, the present disclosure may not be limited to these specifics, and others may be substituted as it is well understood by those skilled in the art, and various steps may not necessarily be performed in the sequences shown.

[00109] While this disclosure has described certain embodiments and generally associated methods, alterations and permutations of these embodiments and methods will be
10 apparent to those skilled in the art. Accordingly, the above description of example embodiments does not define or constrain this disclosure. Other changes, substitutions, and alterations are also possible without departing from the spirit and scope of this disclosure, as defined by the following claims.

WHAT IS CLAIMED IS:

1. A method for including objects with media content, the method comprising:
receiving, at one or more servers, a request for the media content to be displayed at an
endpoint;

5 identifying information about an environment associated with the endpoint;
identifying a set of objects to include in a container for the media content based on the
information identified about the environment, at least one of the objects including program
code for completing a transaction during display of the media content; and
sending, by one or more servers, the set of objects to the endpoint.

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2. The method of Claim 1, wherein the endpoint is a first endpoint and wherein
receiving the request for the media content to be displayed at the first endpoint comprises:

receiving the request from a second endpoint where the media content has been
viewed, wherein the request is to one of share and embed the media content at the first
15 endpoint.

3. The method of Claim 2 further comprising:
identifying information about a user associated with the second endpoint,
wherein identifying the set of objects to send with the requested media content
20 comprises identifying the set of objects to send with the requested media content based on the
information about the user.

4. The method of Claim 1, wherein:
identifying the information about the environment comprises identifying at least one
25 of a type of a device associated with the endpoint and a website where the media content is to
be displayed; and

identifying the set of objects to send with the requested media content comprises:
identifying rendering parameters associated with the identified at least one of
the type of the device and the website; and
30 including objects designed to generate the display of the media content in the
set of objects to send based on the rendering parameters.

5. The method of Claim 1, wherein:

identifying the information about the environment comprises identifying information about a location of a device associated with the endpoint; and

identifying the set of objects send with the requested media content comprises:

5 identifying at least one of a product to advertize with the media content, a language for text associated with the media content and a type of video to send as the media content for display based on information about the location of the device; and

including objects in the set of objects to send based on the at least one identified product, language or type.

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6. The method of Claim 1, wherein identifying the set of objects to send with the requested media content comprises:

identifying information about a status of the marketing campaign associated with the media content; and

15 including objects in the set of objects to send based on the information about the status of the marketing campaign.

7. The method of Claim 1, wherein the endpoint is one of a website and a frame of an email, and wherein the electronic commerce transaction is at least one of purchasing a
20 good or service, donating money, and submitting a sales lead, and wherein the information about the environment associated with the endpoint comprises at least one of a type of device associated with the endpoint, a type of the website, location of the device.

8. A system for including objects with media content, the system comprising one
25 or more servers configures to:

receive a request for media content to be displayed at an endpoint;

identify information about an environment associated with the endpoint;

identify a set of objects to include in a container for the media content based on the information identified about the environment, at least one of the objects including program

30 code for completing a transaction during display of the media content; and

send the set of objects to the endpoint.

9. The system of Claim 8, wherein the endpoint is a first endpoint and to receive the request for the media content to be displayed at the first endpoint, the one or more servers are configured to receive the request from a second endpoint where the media content has been viewed, wherein the request is to one of share and embed the media content at the first endpoint.

10. The system of Claim 9, wherein the one or more servers are further configured to:
identify information about a user associated with the second endpoint,
wherein to identify the set of objects to send with the requested media content, the one or more servers are configured to identify the set of objects to send with the requested media content based on the information about the user.

11. The system of Claim 8, wherein:
to identify the information about the environment, the one or more servers are configured to identify at least one of a type of a device associated with the endpoint and a website where the media content is to be displayed; and
to identify the set of objects to send with the requested media content, the one or more servers are configured to:
identify rendering parameters associated with the identified at least one of the type of the device and the website; and
include objects designed to generate the display of the media content in the set of objects to send based on the rendering parameters.

12. The system of Claim 8, wherein:
to identify the information about the environment, the one or more servers are configured to identify information about a location of a device associated with the endpoint; and
to identify the set of objects send with the requested media content, the one or more servers are configured to:
identify at least one of a product to advertize with the media content, a language for text associated with the media content and a type of video to send as the media content for display based on information about the location of the device; and

include objects in the set of objects to send based on the at least one identified product, language or type.

13. The system of Claim 8, wherein to identify the set of objects to send with the requested media content, the one or more servers are configured to:

identify information about a status of the marketing campaign associated with the media content; and

include objects in the set of objects to send based on the information about the status of the marketing campaign.

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14. The system of Claim 8, wherein the endpoint is one of a website and a frame of an email, and wherein the electronic commerce transaction is at least one of purchasing a good or service, donating money, and submitting a sales lead, and wherein the information about the environment associated with the endpoint comprises at least one of a type of device associated with the endpoint, a type of the website, location of the device.

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15. A non-transitory computer-readable medium embodying program code that, when executed, causes one or more servers to:

receive a request for media content to be displayed at an endpoint;

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identify information about an environment associated with the endpoint;

identify a set of objects to include in a container for the media content based on the information identified about the environment, at least one of the objects including program code for completing a transaction during display of the media content; and

send the set of objects to the endpoint.

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16. The computer-readable medium of Claim 15, wherein the endpoint is a first endpoint and wherein the program code that causes the one or more servers to receive the request for the media content to be displayed at the first endpoint, comprises program code that causes the one or more servers to receive the request from a second endpoint where the media content has been viewed, wherein the request is to one of share and embed the media content at the first endpoint.

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17. The computer-readable medium of Claim 16 further comprising program code that causes the one or more servers to:

identify information about a user associated with the second endpoint,

wherein the program code that causes the one or more servers to identify the set of
5 objects to send with the requested media content, comprises program code that causes the one
or more servers to identify the set of objects to send with the requested media content based
on the information about the user.

18. The computer-readable medium of Claim 15, wherein:

10 the program code that causes the one or more servers to identify the information about
the environment, comprises program code that causes the one or more servers to identify at
least one of a type of a device associated with the endpoint and a website where the media
content is to be displayed; and

the program code that causes the one or more servers to identify the set of objects to
15 send with the requested media content comprises program code that causes the one or more
servers to:

identify rendering parameters associated with the identified at least one of the
type of the device and the website; and

include objects designed to generate the display of the media content in the set
20 of objects to send based on the rendering parameters.

19. The computer-readable medium of Claim 15, wherein:

the program code that causes the one or more servers to identify the information about
the environment comprises program code that causes the one or more servers to identify
25 information about a location of a device associated with the endpoint; and

the program code that causes the one or more servers to identify the set of objects
send with the requested media content comprises program code to cause the one or more
servers to:

identify at least one of a product to advertize with the media content, a
30 language for text associated with the media content and a type of video to send as the media
content for display based on information about the location of the device; and

include objects in the set of objects to send based on the at least one identified
product, language or type.

20. The computer-readable medium of Claim 15, wherein the program code that causes the one or more servers to identify the set of objects to send with the requested media content comprises program code to cause the one or more servers to:

5 identify information about a status of the marketing campaign associated with the media content; and

include objects in the set of objects to send based on the information about the status of the marketing campaign.

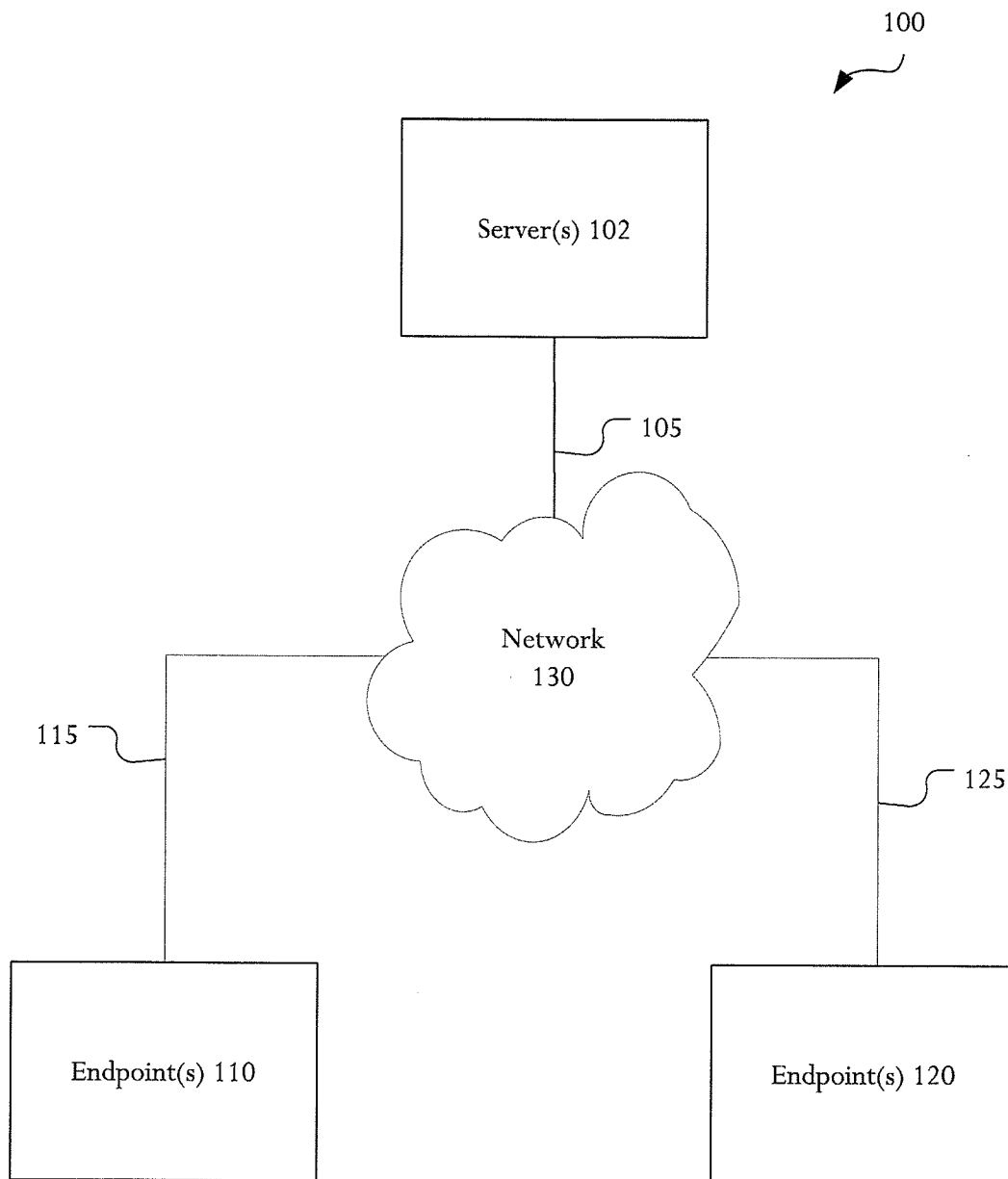


FIGURE 1

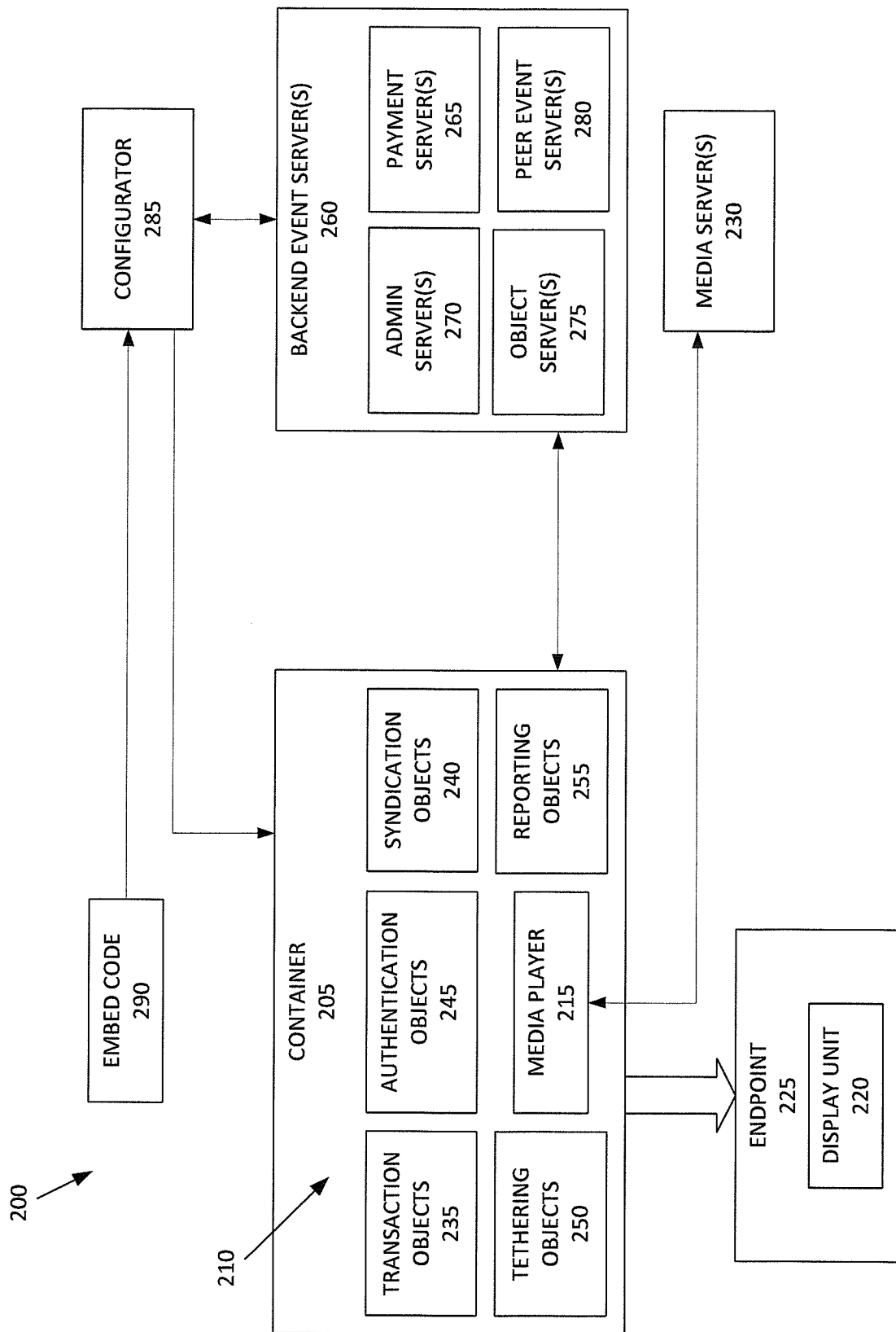


FIGURE 2

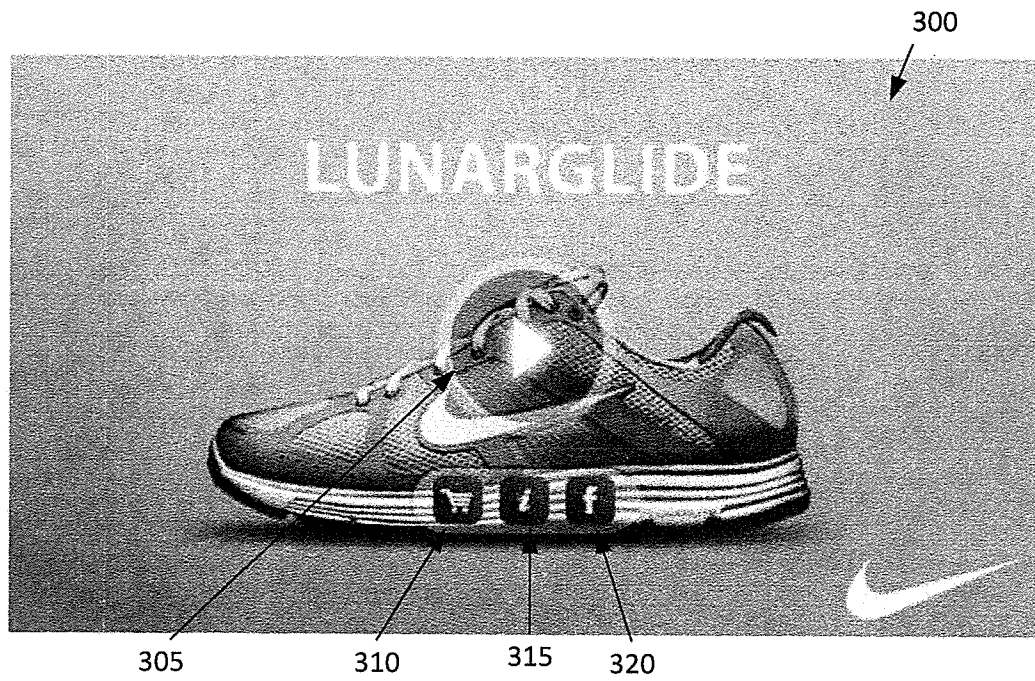


FIGURE 3

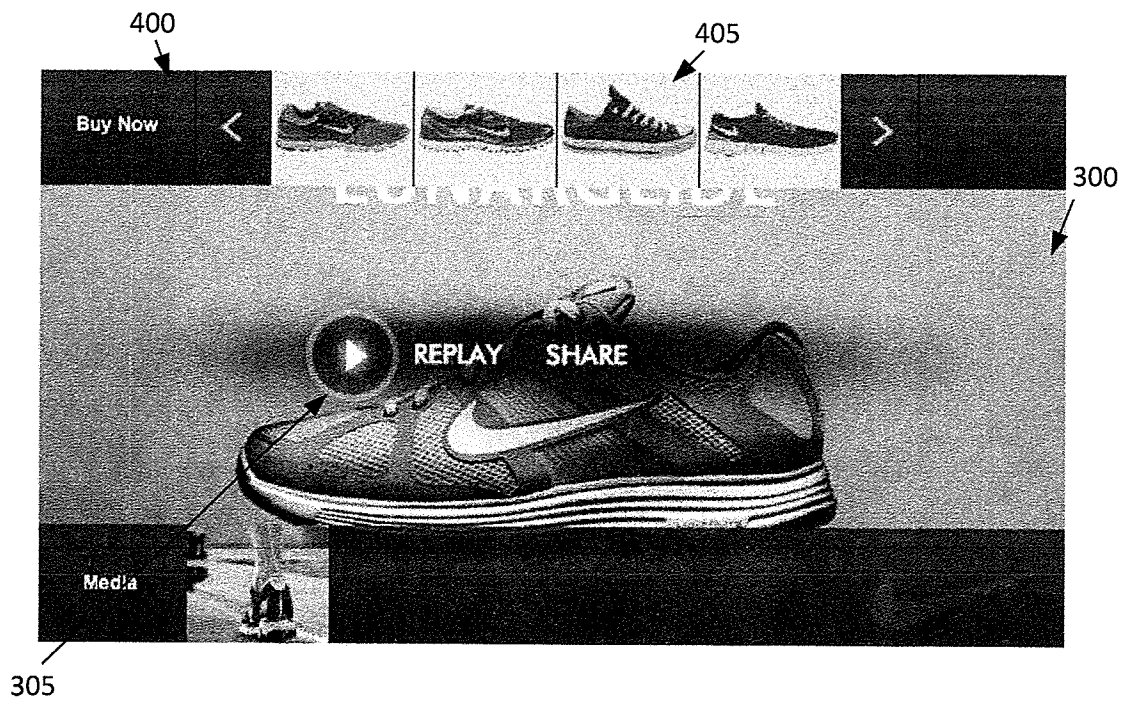


FIGURE 4

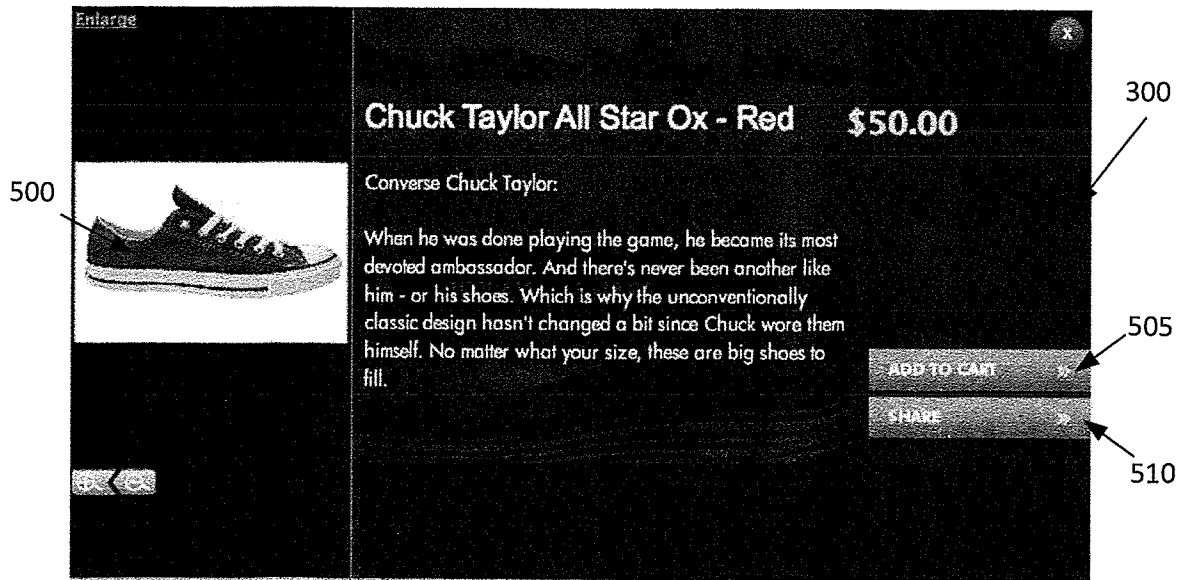


FIGURE 5

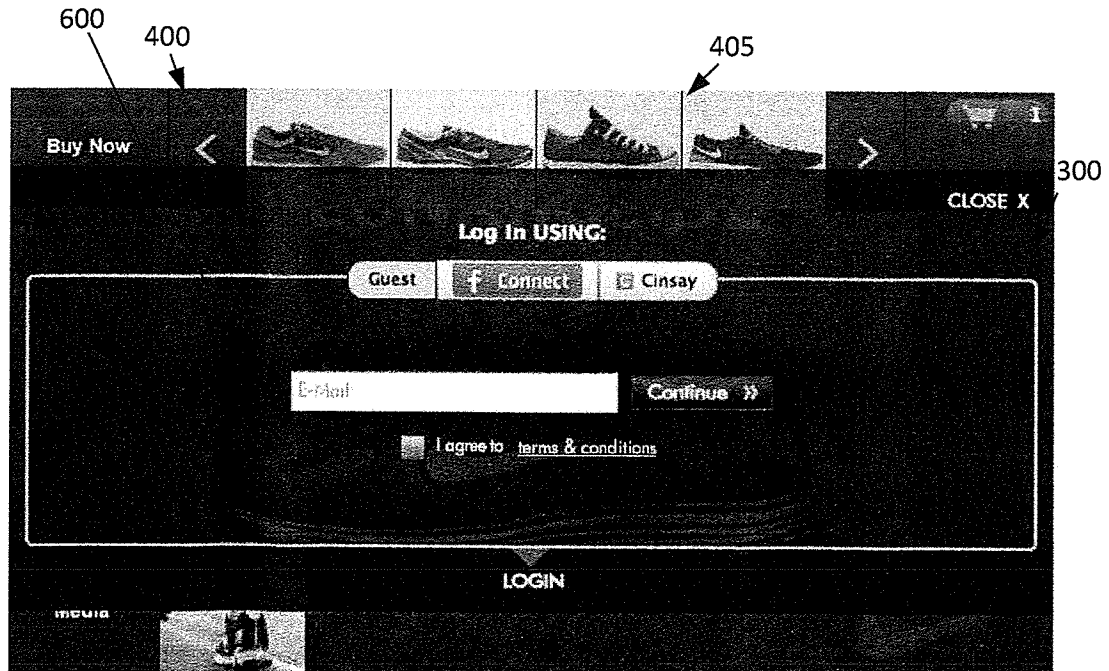


FIGURE 6

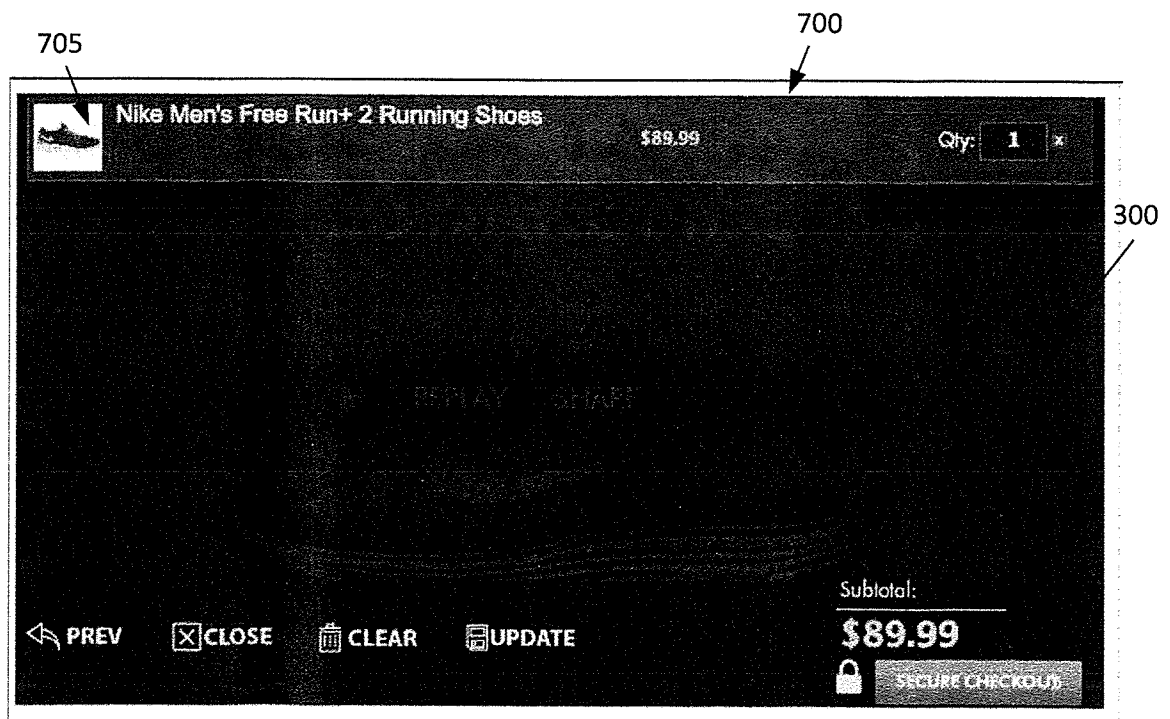


FIGURE 7

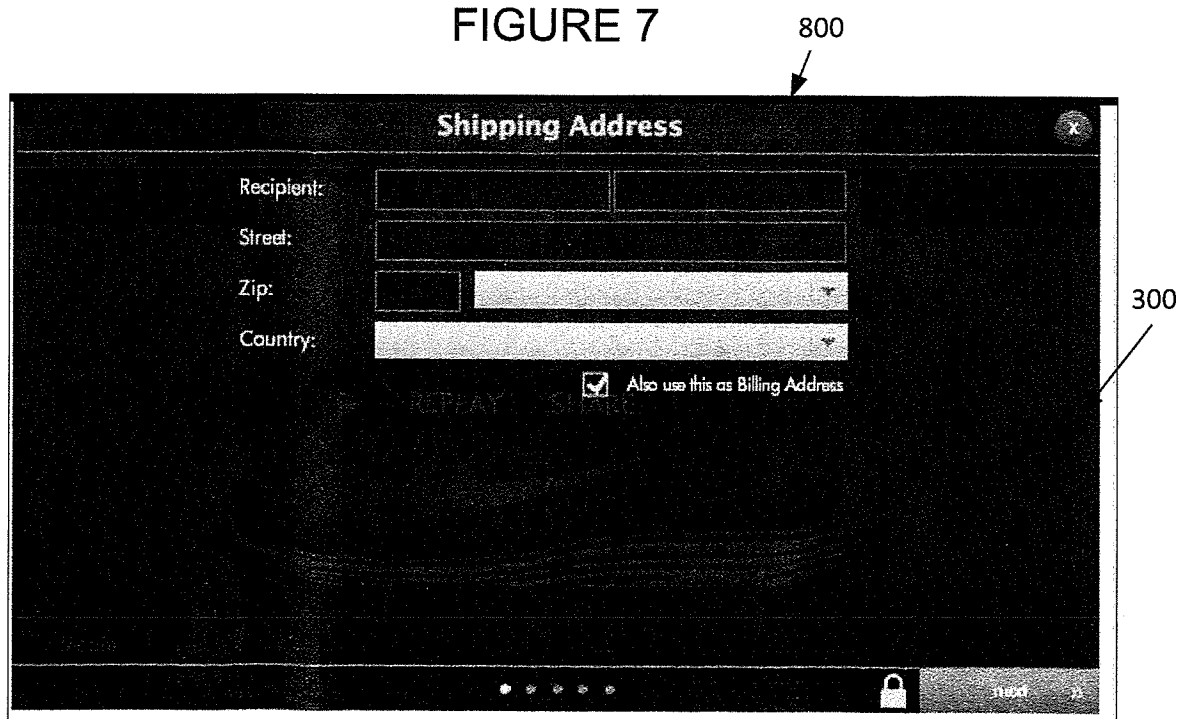


FIGURE 8

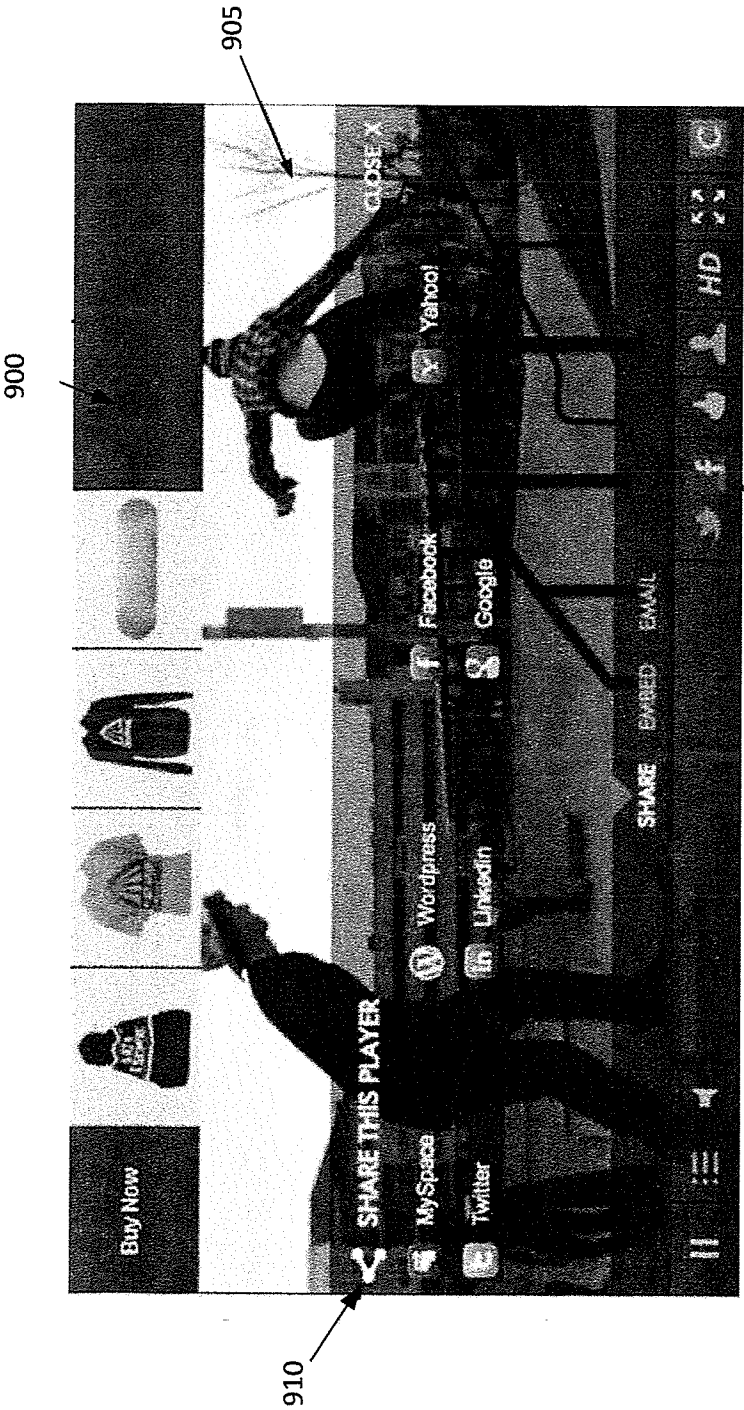


FIGURE 9

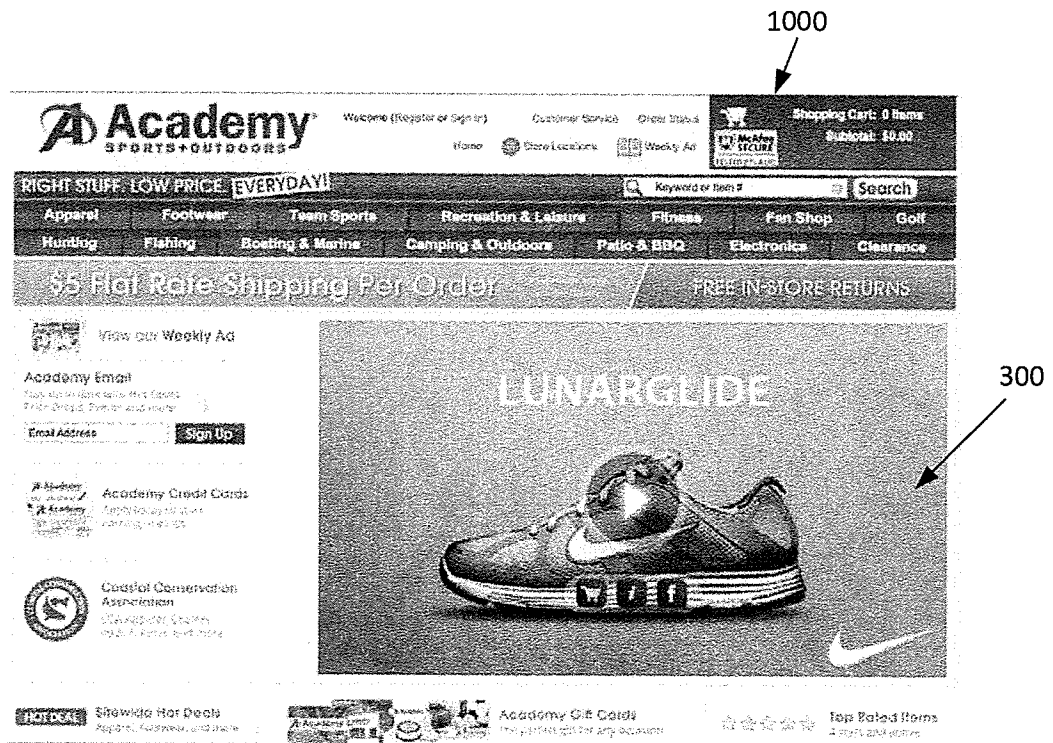


FIGURE 10

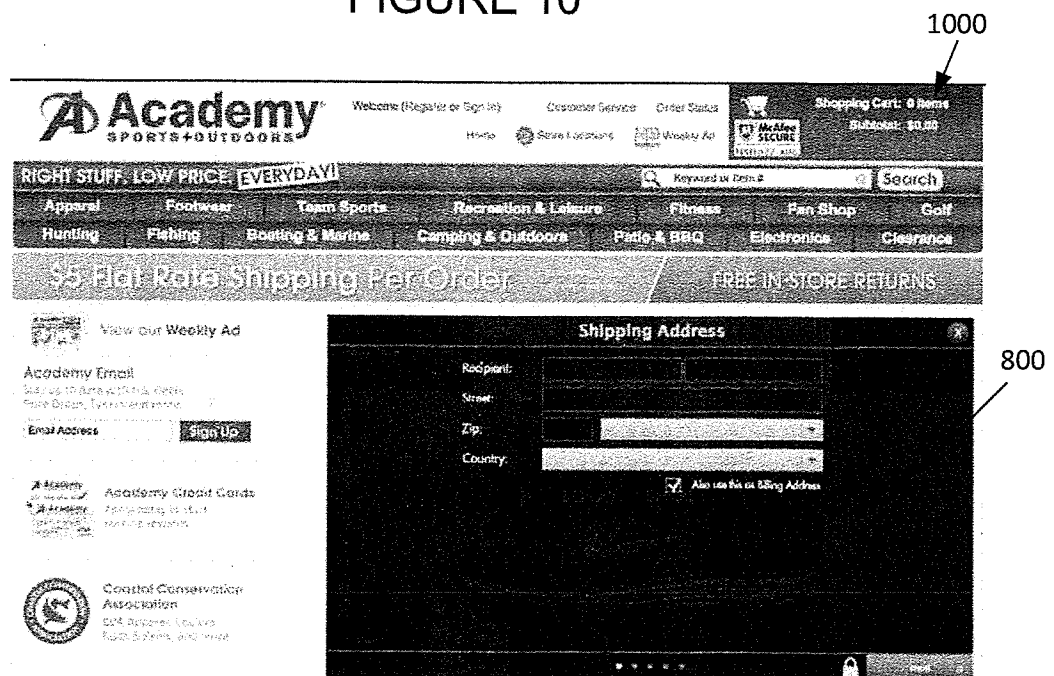


FIGURE 11

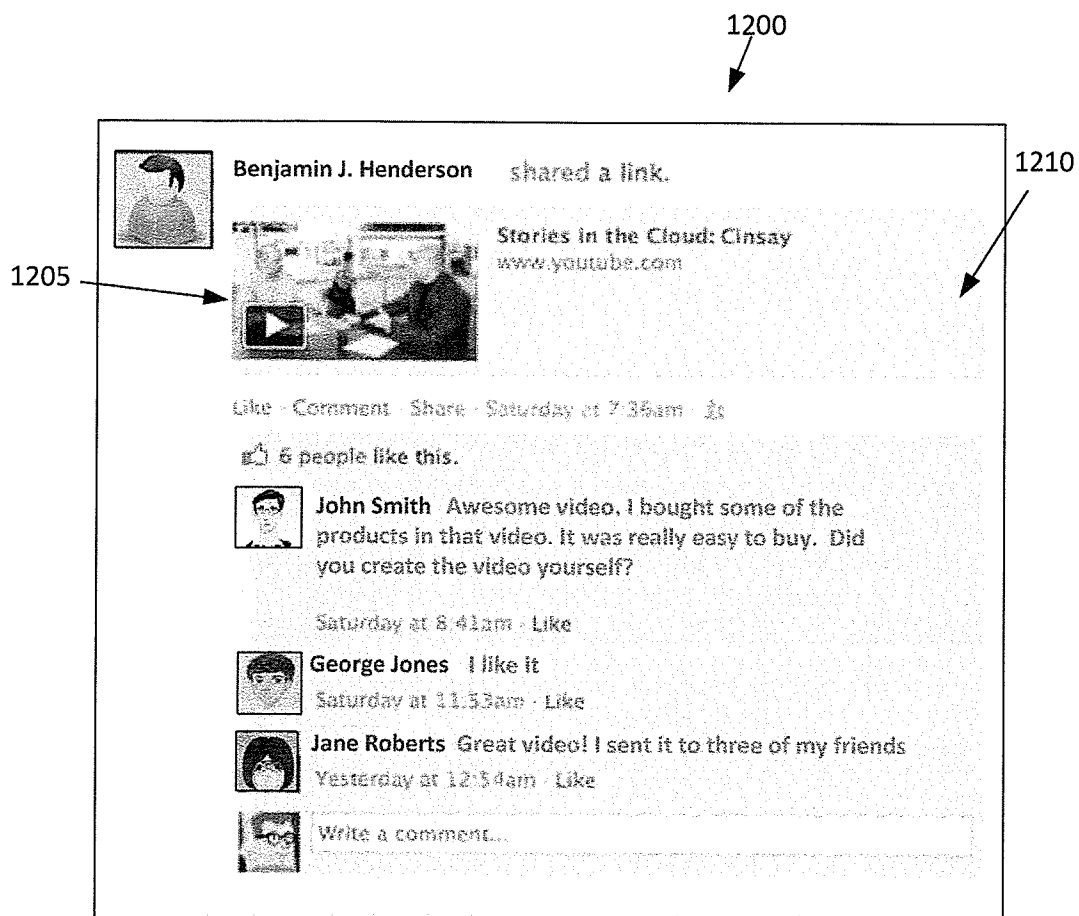


FIGURE 12

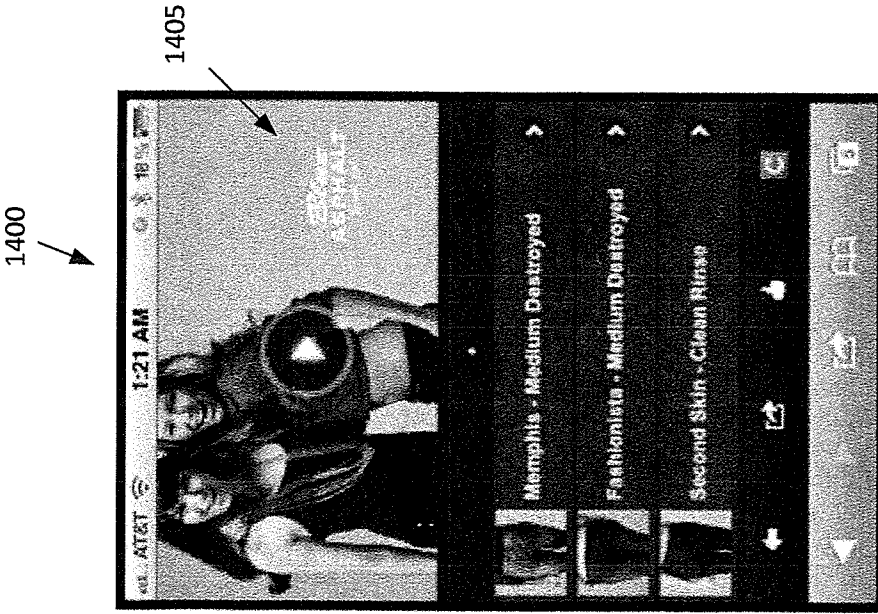


FIGURE 14

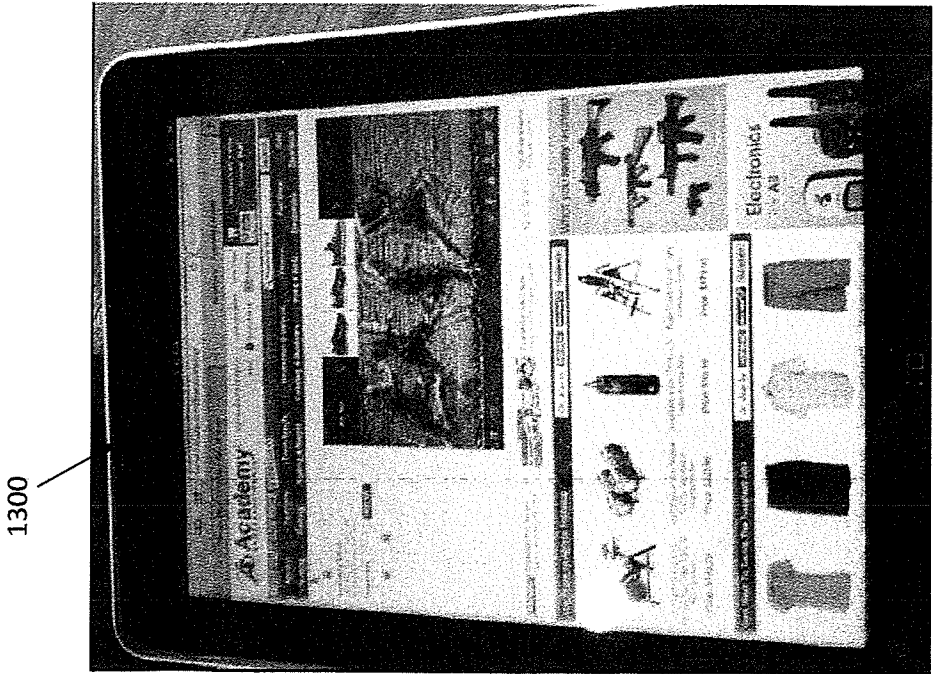


FIGURE 13

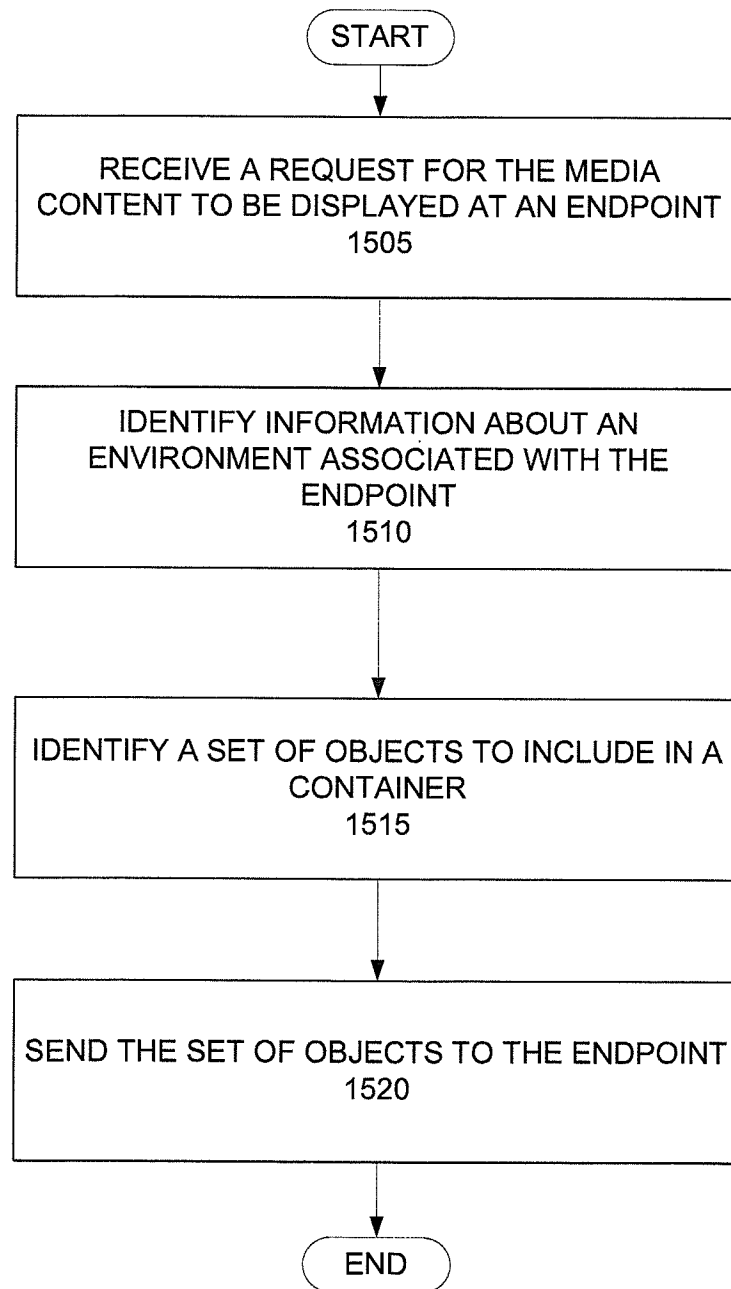


FIGURE 15

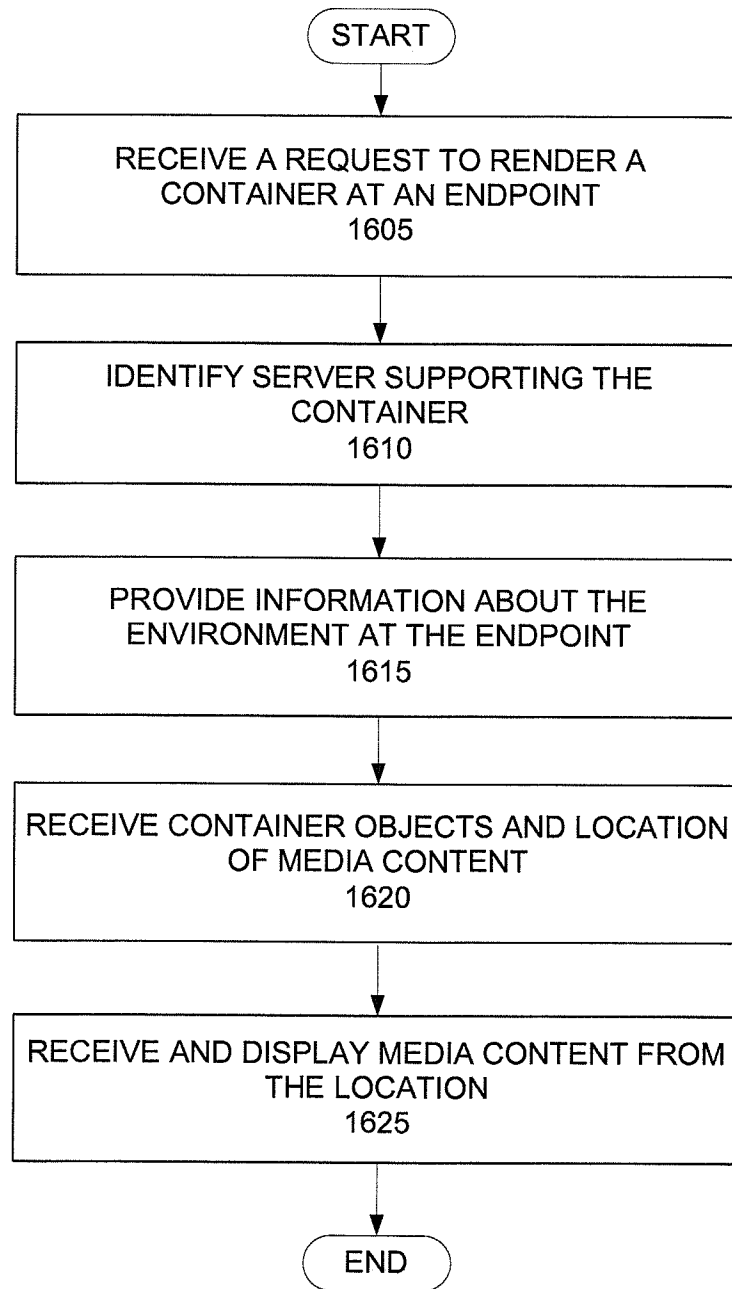


FIGURE 16

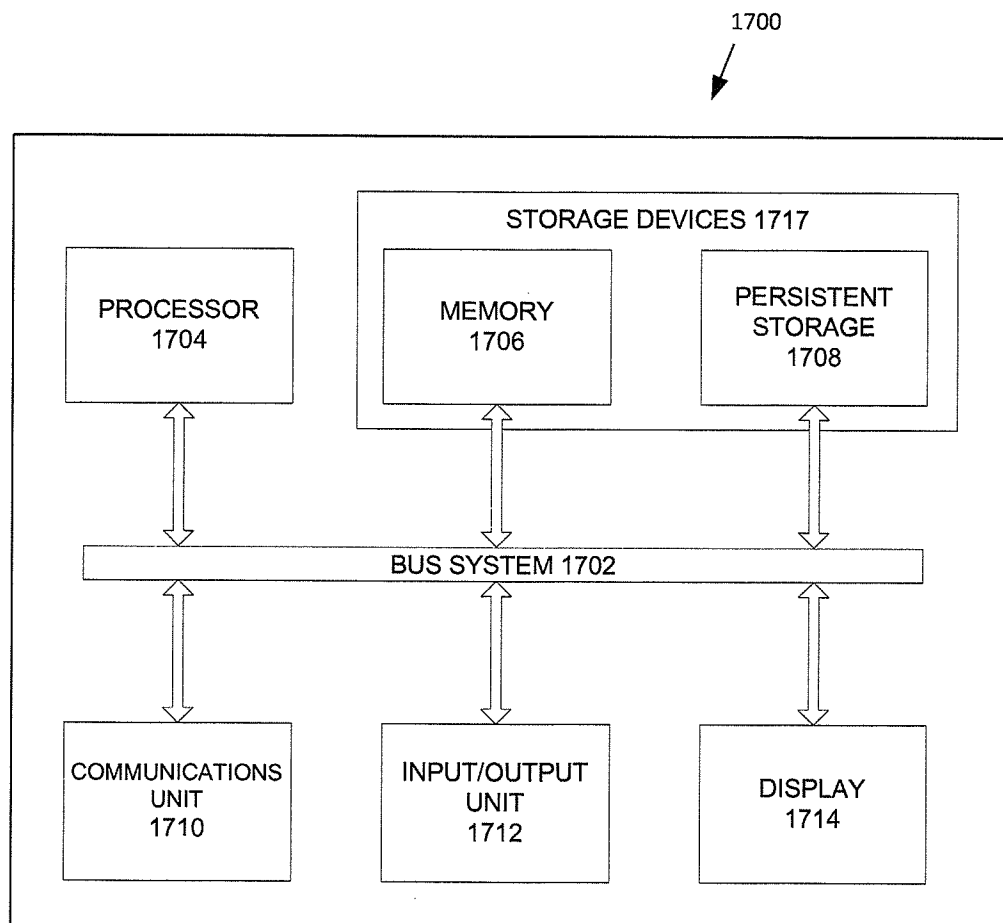


FIGURE 17