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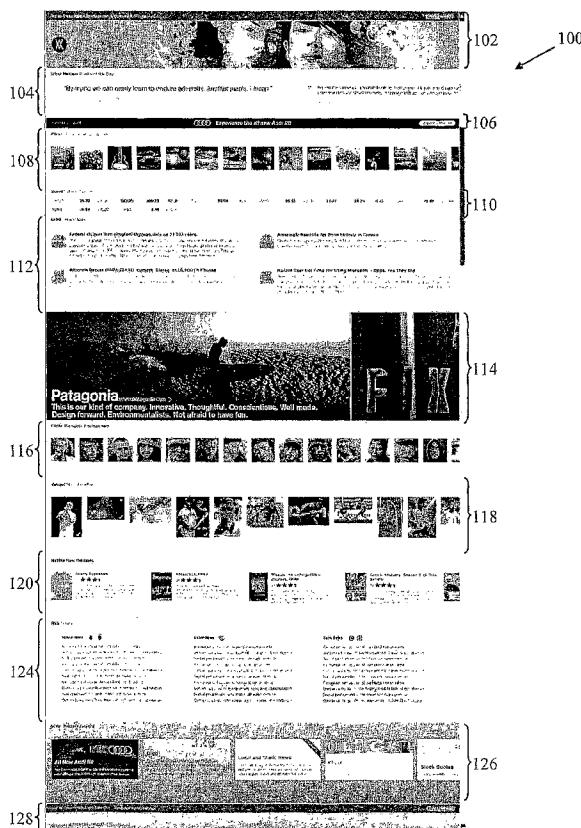
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(54) Title: PAGE MODULES AND STATES



(57) Abstract: A system, a method, and a user interface for providing content by using several modules for displaying the content within a single page. Each module includes several different states, and each state has particular features and/or advantages. A first module within the page is for presenting content from a first source and a second module is for presenting content from a second source. The first module is stacked on top of the second module within a window for presenting the page. The content in the first module is independent of the content in the second module such that a user interacts with the content of each module independently and without the need for navigation to a location external to the single page.

Figure 1



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PAGE MODULES AND STATES

FIELD OF THE INVENTION

The present invention is related to the field of online content, and is more specifically directed to page modules and states.

BACKGROUND

Computer and computing device usage increases each year. Much of the increase in usage is spurred by internetworking of devices such as by using the Internet. With each new user and/or site coming online, the amount of information that is stored and accessible by computer systems around the world further increases. At the same time, the number, variation, and sophistication of computer users escalates, and user expectations also rise, regarding the functionality of tools, interfaces, and the user experience.

The Internet and other networks interconnect computers and computing devices to allow for transport of data over network connections. Computers and computing devices are often organized into client-server relationships. One type of server is a web server and an example of a client is a web client such as a personal computer running a web browser program. Some web servers provide portal services that collect information from various sources and upon request generate a portal page for the web client. An example of such a portal page is at the web site www.yahoo.com provided by Yahoo Inc. This web site also has facilities that support personalized pages. See, for example, my.yahoo.com.

Web servers typically service requests from web clients, by using a system of protocols. In response to requests received, the web server returns data responses. The hyper text transfer protocol (HTTP) is an example of a conventionally used protocol. One or more web clients issue requests directed at a particular web server address for a page represented by a universal resource locator (URL) in the request. A server responsive to the particular address responds with data such as a web page that is displayed, or with another type of data set.

Conventional technology used for the web has limitations. Presently, the web client typically employs a browser application that is capable of presenting to a user all or part of a web page in a user interface. The browser application further accepts user input to interact with the web page and/or web site. Web browsers are commonly used by users to navigate within a single web page and across several web pages. Web browsers often provide functionality in addition to presenting web pages and accepting user input related to web pages. For example, web pages often include executable program elements that are executed by a web browser upon receipt of a web page. These elements include a number of variations of application program interfaces (API).

Browser applications provide an interface for users to receive and/or interact with content via the Internet or the web. A browser application generally resides on a user's computer. The browser application includes a window for displaying content retrieved from web sites via the web or Internet. The browser application may also include one or more application toolbars. Web browsers provide information in the form of a web page, which is produced by interpreting a text document encoded by using hyper text markup language (HTML). Modern web page user interfaces typically employ sophisticated application programming interfaces, variations of JAVA, Flash, and other scripts and means of performing increasingly complex functions for a user and a user interface.

As mentioned above, current application and/or interface technologies have certain limitations. Moreover, despite the availability of vast amounts of information from numerous sources, not all information on the Internet, or even regarding a single topic, is relevant, useful, and/or meaningful to every user, all the time. When users are barraged with too much information, too many choices, irrelevant and/or disorganized content, humans and machine systems become overloaded, thereby diminishing the usefulness of otherwise powerful information tools.

SUMMARY

User Interface

A user interface for providing content includes several modules for displaying the content within a single page. A first module within the page is for presenting content from a first source and a second module is for presenting content from a second source. The first module is stacked on top of the second module within a window for presenting the page. The content presented by the first module is independent of the content presented by the second module such that a user interacts with the content of each module independently and without the need for navigation to a location external to the single page.

The user interface preferably includes a horizontal scroll bar for the first module, and additional content is presented through the first module by using the horizontal scroll bar. The first module has a variety of shapes or sizes during the user interaction with the first module, and the second module automatically adjusts to accommodate the shape and/or size of the first module. In a particular implementation, the dimensions of the first module resize to maximize the edge to edge horizontal view within a browser window. When the scroll bar reaches an edge of the content presented in the module, the content wraps to allow the user to continue scrolling, or alternatively, when the scroll bar reaches an edge of the content presented in the module, an option for more content is presented such that the user is

including the horizontal scroll bar, and/or selections for edit and remove. This format is referred to as just in time and/or on demand content. Moreover, the content that is presented on the page and within each module is based on the specification of the user.

The collapsed rolled state is for presenting to a user a set of tools that appears when a cursor is positioned over a module in the unrolled state. The expanded unrolled state is for presenting additional content to the user such as images, video and/or audio multimedia clips, text in the form of captions, and the like. Preferably, the additional content is presented within the stacked module page format without drastic or unsightly changes to the interface, such as without pop ups, frames, and/or new windows, for example.

The expanded rolled state is for presenting a set of tools that are typically previously hidden in the unrolled state. As indicated above, the expanded rolled state comprises a detailed view that increases depth of presented information. The set of tools optionally includes multimedia tools in addition to the navigational tools such as, for example, an autoplay feature and/or a button for returning to a collapsed state. Another state is the announcement bar state that requires minimal space for presenting content within the page. Preferably, the modules are removable as part of the user customizability feature. However, some modules include a temporary remove state, such that modules in this state reappear within the user interface at a predetermined time. For instance, an advertisement module is advantageously placed in a temporary remove state by a user such that the user is allowed to control content, while permitting unobtrusive advertising to coexist with user customized content.

The configuration state is typically reached via a user selection in a rolled state for transitioning to the configuration state. When a module is selected for configuration, the selected module appears to flip in place on the page such that the user is presented with an edit mode for the module without altering the appearance of the other modules within the page of modules. In one implementation, the configuration state appears to be located on the back of a module selected for editing and/or user customization. The configuration state usually has a specific color to indicate the state of the module. The configuration state includes an option to save changes and an option to exit the configuration state. When the option to exit is selected, the configuration state of some embodiments appears to rotate in place to return to the state from which the configuration state was selected. Then, the changes made for the module are presented, in place where the module lies on the page.

A method of providing content includes using a browser to connect to a server and performing a check. The check includes a system check for a specific component and/or a

user identification check for a specific user profile. Based on the check, the method provides a set of modules that form a page of modules. The method customizes a first module in the set of modules and saves the customization. The method executes a function provided by the module.

Sometimes, the set of modules includes a default set of modules, such as for a new user and/or a new browser connection. Alternatively, the provided set includes a saved set of modules that is provided based on a user of the browser, by using a login ID, a cookie, or another identifier. The method edits the customization at various times. The method provides, by using the first module in the set of modules, content located external to a storage location for the page of modules. Preferably, when the externally located content is updated, the content provided by one or more of the modules is automatically updated. The method reorders a module in the set of modules to alter the appearance of the page. The method selectively adds additional modules such as a second module, removes modules such as the first module, and/or temporarily hides or removes modules, then later presents the temporarily removed module within the page at a later time. Similarly, content, navigation, and/or other tools are hidden at various times.

The method vertically scrolls along a y-axis of the page to view particular modules within the page of modules particularly when the number of modules extends beyond a single page view. The method horizontally scrolls along an x-axis within a module, such as for navigation within the module. Preferably, the other modules within the page are unaffected by the horizontal scrolling within the module being horizontally scrolled. The method optionally adds content to the first module thereby increasing the available amount of horizontal scrolling. The method wraps the content within a module, or alternatively, provides an option for additional content when a limitation of the horizontal scrolling is reached.

The modules typically each have several states. The states include one or more of a collapsed unrolled state, a collapsed rolled state, an expanded unrolled state, an expanded rolled state, a customization state, an announcement bar state, and/or a temporary remove state. The modules selectively include various types such as a header module, a daily quote module, an advertisement module, a photo module, a stock module, a social content module, a spotlight type module, a popularity type module, a movie module, a news module, a gallery module, a suggestion or targeting module, and a footer module. Each type of module typically includes specific details and features based on the content for the module. For instance, when the module comprises a news module, the executing typically involves requesting a response from an RSS feed, when the module comprises a social bookmarking module, the executing further

involves javascript object notation, or when the module comprises a photographic module, the executing further involves a REST type API. Additional modules are contemplated in embodiments of the invention. Additional examples include modules for movies, instant messaging, and email. In a specific implementation, performing the check comprises checking for a Flash component, and the executing step involves a Flash script.

A method of configuring a page positions a cursor over a particular location within the page and thereby reveals a set of tools for configuring the page. The method selects a tool and transitions to one or more modes for customization. One mode includes a reordering mode. When this mode is selected, the method zooms out the page to present a full page view of the page. From the full page view, the method selects a first module and moves the selected first module by using the cursor. Preferably, using the cursor comprises a drag-and-drop operation.

When a first module is selected within the full page view, the method preferably provides a visual cue that illustrates the possible directions of movement of the selected first module for reordering. When the first module is moved, the method automatically adjusts a second module that is near to where the first module is moved.

System and Granular Events

A system for providing content includes a client device, a server, a browser application, a user interface, a page, several modules, and a first module among the several modules. The first module includes several states. The client device typically includes the browser application which is used to couple to the server. The server provides the page and the modules to a user. The user advantageously uses and customizes the page, modules, and states for greater relevance and/or greater usability to the user, as described above. Preferably, the modules are presented within a single page, and each user interaction within the single page comprises a granular event. Accordingly, some embodiments include systems and methods of recording, for the single page, the granular events. For instance, users are advantageously profiled and/or behaviorally targeted based on the granular event recording. The granular events include a mouse over event and/or a click within the page.

BRIEF DESCRIPTION OF THE DRAWINGS

The novel features of the invention are set forth in the appended claims. However, for purpose of explanation, several embodiments of the invention are set forth in the following figures.

Figure 1 illustrates a page and several modules according to some embodiments of the invention.

Figure 2 illustrates a page with expanded modules.

Figure 3 illustrates customization in further detail.

Figure 4 illustrates modules reordered.

Figure 5 illustrates modules removed.

Figure 6 illustrates an added module.

Figure 7 illustrates an announcement bar.

Figure 8 illustrates an advertisement module.

Figure 9A illustrates a social content module in collapsed unrolled and rolled states.

Figure 9B illustrates a social content module in expanded unrolled and rolled states.

Figure 9C illustrates a social content module in customization states.

Figure 10 illustrates reordering of modules.

Figure 11 illustrates a spotlight type module.

Figure 12 illustrates a photo module.

Figure 13 illustrates a movie module.

Figure 14 illustrates an advertisement module related to a movie.

Figure 15 illustrates a news module.

Figure 16 illustrates a daily quote module.

Figure 17 illustrates an advertising module with targeted ads.

Figure 18 illustrates a stock module.

Figure 19 illustrates a popularity type module.

Figure 20 illustrates a header module.

Figure 21 illustrates a gallery module.

Figure 22 illustrates adding a module from the header.

Figure 23 illustrates adding a module from the footer.

Figure 24 illustrates a process in accordance with embodiments of the invention.

Figure 25 illustrates a reordering process according to some embodiments.

Figure 26 illustrates a system according to some embodiments.

DETAILED DESCRIPTION

In the following description, numerous details are set forth for purpose of explanation. However, one of ordinary skill in the art will realize that the invention may be practiced without the use of these specific details. In other instances, well-known structures and devices are shown in block diagram form in order not to obscure the description of the invention with

unnecessary detail.

Embodiments of the invention include architectures for presenting information, including web pages. The web pages preferably include aggregate and/or full page views for presenting breadth of information, while reducing irrelevant or untimely information. These embodiments are referred to herein as collapsed views or states. Further embodiments include expanded views or states that provide additional depth of information. The views and information are provided through a user customizable interface. Preferably, the interface is segmented into discrete modules. The modules are conveniently added, edited or customized, reordered, hidden, and/or removed. Moreover, the interface has advantageous features for the selective presentation of content. The content of these embodiments, and the tools for obtaining and/or customizing the content, is said to be just in time and/or on demand.

For instance, within each of the expanded and collapsed states, some implementations include a roll over state. This state is achieved by positioning a cursor over a selected module by using a pointing device such as a mouse, track ball, track pad, or other device. When the roll over state is achieved, certain previously hidden information and/or navigation tools appear for use by the user. Some examples of the information and/or tools that optionally appear include click buttons and/or sliding mechanisms for scrolling. Particular implementations include a horizontal scrolling means for the selective display of a variable amount of content. The content is optionally user configured and/or automatically configured. For instance, the content often includes data that is crawled from several sources by using application programming interfaces (API's) and/or really simple syndication (RSS) feeds.

Due to the structure of some of these embodiments, certain advantages are implemented regarding on page analytics. For instance, granular event counting and/or recording is advantageously achieved for data collection, behavioral profiling, and/or targeting. These page analytics are optionally collected and/or processed in conjunction with conventional click stream data.

Personalization or Customization of Exemplary Modules, Configurations, and States

As mentioned above, embodiments of the invention include a framework that houses each content type systematically as modules. The modules are edited, added, removed, rearranged, reordered, and/or closed to create a nearly unlimited number of combinations. Moreover, as mentioned above, each module typically includes a plurality of states. The foregoing and additional features are further described in relation to particular examples.

Figure 1 illustrates a page 100 and several modules in accordance with embodiments of the invention. As shown in this figure, the modules include a header module

102, a daily quote module 104, an advertisement module 106, two photo modules 106 and 116, a stock module 110, a social content module 112, a spotlight type module 114, a popularity type module 118, a movie module 120, a news module 124, a gallery module 126, and a footer 128.

Preferably, the content provided by each module has particular relevance for a specific user. Further, the content is generally stored at an external location to the page 100. In these cases, the content is advantageously retrieved and/or presented in an aggregated fashion, and has additional advantageous features, such as automatic updating, and/or organization by a desirable characteristic, such as by relevance, popularity, and/or recency, for example. For instance, the social content module 112 includes articles that are community determined by voting or another means. Preferably the content is obtained in an automated manner from an external site. The web site digg.com is an example of a social content web site.

One of ordinary skill recognizes that the illustrated modules are exemplary in both variety and number, and further recognizes additional modules and combinations of modules. For instance, some implementations include a social bookmarking module for presenting to a user a set of most recent and/or most used bookmarks. Preferably, the information regarding the bookmarks is stored at a location and/or web site that are external to the social bookmarking module. The web site del.icio.us is an example of such a site. Advantageously, the social bookmarking module provides and/or stores a set of bookmarks that are of interest to the user. Regardless, of the particular content presented, the module provides a customizable interface for the client, without the need for navigation to or at an external site, and without the need for additional customization at another location through a different interface.

Additional examples of the various possible modules are further described herein, and by reference to the accompanying figures. For instance, a discussion of the quote of the day module follows in relation to Figure 18, the stock module by reference to Figure 20, the spotlight type module in relation to Figure 11, the photo module is described by reference to Figure 12, the movie module in conjunction with Figure 15, the news module in relation to Figure 17, and the popularity type module is of various types such as, for example, a news photos module, which is illustrated in Figure 21.

Figure 2 illustrates a page 200 that has modules in an expanded state. More specifically, the ad module 206, photo module 216, and movie module 220 are illustrated in an expanded state. In the expanded state, the module presents more detailed information

regarding the content presented by the module. In some embodiments, the dimensions of the module expand slightly to accommodate the more detailed content and/or a more detailed format for the content.

Preferably, certain modules within the page 200 have a user selectable customization state. Figure 2 further illustrates a module configuration and/or customization state 222. Most modules in the page 200 are user configurable, however, the ad module 206 is preferably not user configurable. In an embodiment, the user selects the module for configuration by using a button within the user interface for the module. When the button of some embodiments is clicked, the selected module transitions to another state by using an animated sequence, within the user interface.

For instance, when a user selects a particular module for customization, the selected module of a particular implementation transforms in place. In some implementations, the module appears to rotate in place without affecting the adjacent modules. To a user, the customization state intuitively appears to be present on the back of the module selected for customization. Further, some implementations display the customization state in a particular color such as green. These implementations provide a more fluid and contextual experience to a user who is customizing a single module within a page, or multiple modules on the page.

Figure 3 shows a page 300 with a module in the customization state 322 in further detail:

The particular customization state is for the news module 224 of Figure 2. As shown in this figure, the customization state 322 for the news module includes guided settings for source feeds, and for display preferences. The source feeds illustrated include World News, Local News, Tech News, and a selection to include additional types of news. One of ordinary skill will recognize additional news source feeds that are alternatively included or excluded from the module. In Figure 3, the ad module 206, and movie module 220 of Figure 2 are removed, or alternatively, hidden from view. As shown in Figure 3, the remaining modules automatically adjust to reshape, resize, and/or provide additional content to the available space.

RSS Feeds

Web content syndication is an increasingly popular way for content providers to draw attention and visitors to web pages or sites. Using content syndication technologies such as really simple syndication (RSS), a content provider advantageously creates an XML summary of the site's content. The summary, which typically includes a number of headlines having various segments such as a title, a link to the content, and a brief description, is stored on the originating site's web server as an RSS feed. The RSS feed is manually created and updated

such as by editing the XML, for example, or automatically, such as by using various scripts to periodically scan the site and update the XML. Operators of web sites, or individual users, conventionally subscribe a page to the RSS feed by including a reference to the desired RSS feed in the HTML or other source code for the subscribed page. Some embodiments provide an intuitive user interface for potentially many and varied such subscriptions, all on a single page, without the need for navigation to additional pages.

When the subscribed content is displayed such as through one or more modules, the RSS feed, which is maintained on the originating site's server, is accessed, and the title of each item in the summary is displayed on the subscribed page as a link. Conventionally, a viewer of the subscribing page clicks on any of these links to view the item at the originating site. According to embodiments of the invention, a user preferably aggregates those RSS feeds from all of the websites the user wishes, onto a single master page that the user controls and views in a consolidated format without the need for additional navigation, tools, and/or programming effort. By viewing the user's customized master page, the user conveniently sees new content as it is added and/or updated to any of the sites.

The interface to the externally located content is based on the nature of the content and/or the module type. For instance, the social bookmarking module optionally uses javascript object notation (JSON) to request and receive content from an external site such as the site del.icio.us, while a module that obtains content from a photograph site such as flickr.com uses the REST API. Additional protocols and/or application programming interfaces are contemplated for additional content modules such as movie and ad modules having video content, map, email, and instant messaging modules, for example.

Figure 4 illustrates a customized version of a page 400 of modules. For instance, a stock module 410 has been reordered to appear between the header module 402, and a daily quote module 404. Similarly, a spotlight module 414 has been reordered between the daily quote module 404, and a social bookmarking module 412, followed in top to bottom sequence by a photo module 416, a popularity module 418, a news module 424, and a footer 428. Also, shown in Figure 4, ad modules are removed and/or temporarily hidden from view.

Figure 5 illustrates another customization for a page 500 of modules. In this figure, a news module 524 appears at the top of the page 500, between a header 502 and a daily quote module 504. The daily quote module 504 is followed by a stock module 510, a spotlight type module 514, a social content module 512, a photo module 516, a popularity type module 518, and a footer 528.

Figure 6 illustrates an alternative configuration for a page 600 of modules. As

shown in this figure, a photo module 616 appears between a header module 602, and a suggestion, ad and/or targeting module 630. This module 630 in some embodiments pushes content to the particular user based on the user's profile or other information known about the user.

Figures 7 and 8 illustrate that the modules 706 and 806 of some embodiments have an announcement bar state. In Figure 7, the announcement bar 706 includes brief information that may have interest to a user. However, the slim nature of the announcement bar 706 is advantageous and requires little space. Should the user have an interest in additional information, the announcement bar state is easily expanded to another state to provide greater detail. Further, should the user prefer, the announcement bar is optionally removed and/or hidden from view. As shown in this figure, once removed, some modules will reappear at a later time. Also optionally, some embodiments will present the user with a brief instruction regarding retrieving the module and/or announcement bar, once removed or hidden.

Figure 8 illustrates an ad module 806 in the announcement bar state 801, and in an expanded state 809. Figure 8 further illustrates a user instruction regarding the removal of the ad module 806.

States

As mentioned above, embodiments of the invention employ on demand and/or just in time mechanisms for providing content, navigation, and/or other information and tools. Accordingly, each module typically includes a plurality of states such as, for example: (1) a collapsed view unrolled state, (2) a collapsed view rolled state, (3) an expanded view unrolled state, and (4) an expanded view rolled state. Some modules further optionally include (5) a customization state, (6) an announcement bar state, and/or (7) a temporary remove state. Each of these states is discussed further in relation to Figure 9.

Figures 9A, 9B, and 9C illustrate a social content module 912 in various states. As shown in these figures, the states include a collapsed unrolled state 903, a collapsed rolled state 905, an expanded unrolled state 907, an expanded rolled state 909, and configuration states 911 and 913. When in the collapsed state 903, the social content module 912 presents only one-line headlines for each article presented by the module 912. The module 912 preferably draws its content from a website that presents socially determined content. Hence, the social content module includes articles that are community determined by voting or another means. Preferably the content is obtained in an automated manner from an external site. The web site digg.com is an example of a social content web site.

In this figure, the social content module 912 is configured for receiving content

from the digg.com web site. At digg.com, the content is chosen by the users of the site, such as by using each article's number of "diggs." Hence, the illustrated embodiment further presents each article's number of diggs, or votes on digg.com's voting system. When in the collapsed rolled state 905, each article's headline and number of diggs is further accompanied by a brief abstract of the article. In this manner, some embodiments present just in time and/or on demand content. Moreover, since the module 912 employs a feed from an external site, where the content is updated based on the site's users, the content preferably updates automatically within the module 912, as it updates on the external site, or within a predetermined time.

Also shown in Figure 9, the collapsed rolled state 905 presents tools for adjusting the content and/or obtaining additional content such as the horizontal slider 921 and the more and fewer buttons 927. Some embodiments further include additional tools such as an edit button 923, and a remove button 925 for customizing or removing the module 902. The expanded states 907 and 909 include additional content in the form of a brief text caption relating to each headline. The customization states 911 and 913 allow user customization for the module 912, and are further described below.

Figure 10 illustrates the reordering of modules in additional detail. As shown in this figure, the header 1002 and footer 1028 modules are usually fixed. Accordingly, adjacent these modules 1002 and 1028 are icons indicating that these modules 1002 and 1028 are preferably not reordered. In some embodiments, the icon only appears when the module is selected for reordering. Further, the daily quote module 1004 immediately adjacent to the header 1002 is only reordered to a downward position, as indicated by the direction of the arrow icon adjacent this module 1004. Similarly, the module 1024 that is immediately adjacent the footer 1028 is only reordered to an upward position. The modules 1006, 1008, 1010, 1012, 1016, and 1018, that are not immediately adjacent the header 1002 or footer 1028, are reordered in either upward or downward directions, as indicated by the bidirectional arrows.

Figure 11 illustrates a spotlight type module 1114 in further detail. As shown in this figure, the module 1114 focuses on several items of content including, for instance, Group 94, Patagonia, William Eggleston, Adrian Frutiger, and Sol Lewitt. One of ordinary skill recognizes the variety and depth of content that this module 1114 is capable of presenting. For instance, the module 1114 is shown in a collapsed state, however, additional depth for each content item is readily available in the expanded state and/or rolled over state for the module 1114. Moreover, when coupled with the horizontal scrolling of some embodiments, the content presented by the module 1114 is only limited by the amount of content that is desired

to be provided, which is potentially infinite. In one implementation, an option to include or search for additional content is located at the right and/or left edges of the module when the ends of the presented content are reached.

Figure 12 illustrates a photo module 1216 in various states including a collapsed unrolled state 1203, a collapsed rolled state 1205, an expanded unrolled state 1207, an expanded rolled state 1209, and a customization state 1211. The collapsed states 1203 and 1205, present a thumbnail or preview image for quick scanning of a potentially large data set. The expanded states 1207 and 1209 present a selected photograph in greater detail such as, for example, by enlarging the image and/or by including a description of the image. The rolled states 1205 and 1209 include a horizontal scrolling bar 1221 for previewing and presenting a small or large amount of content. The collapsed rolled state 1205 includes buttons for edit 1223 and remove 1225 of the module 1216. The expanded rolled state 1209 further includes additional tool buttons for auto play, hide captions, and/or collapse of the content and/or state.

In particular embodiments, when the edit button is clicked 1223, the module 1216 transitions to the customization state 1211. The transition preferably occurs by an aesthetic rotation in place that makes the customization state 1211 appear on the back of the module 1216. Some customization states 1211 have a distinct color such as green. The customization state 1211 allows adjustments to the source and display preferences of the content within the photo module 1216. Preferably, the customization of the module 1216 is performed on the page of modules, with the other modules intact such that the page layout is retained, and without the need for external tools and/or navigation. The photo module 1216 obtains content from an external site such as flickr.com, and in this figure, is more specifically configured to receive Stoneth's photo stream. However, one of ordinary skill recognizes a number of photo streams and/or external sites for photographic and other content.

Figure 13 illustrates a movie module 1320 in several states. The states include a collapsed unrolled state 1303, a collapsed rolled state 1305, an expanded unrolled state 1307, an expanded rolled state 1309, and a customization state 1311. As described above, the collapsed rolled state 1305 reveals additional content and/or tools. In this figure, the collapsed rolled state 1305 reveals a button 1329 for performing a search for desired content. When clicked, a search bar 1331 appears for identifying and presenting the desired content, and the button 1329 transitions to allow hiding the search bar 1331. As shown in the figure, the search bar 1331 includes an organization by year and/or month, and a field for entering search terms and/or other criteria.

The expanded states 1307 and 1309 preferably show a preview image from a

selected movie, and/or a description of the movie. Alternatively, the expanded states 1307 and 1309 show a brief teaser or trailer from the movie. Regardless of the particular type and format of content, the presentation of content and/or execution of each module preferably does not affect the other modules on the page of modules. The customization state 1311 allows the user to adjust the source and/or display preferences for the movie module 1320.

Some embodiments direct advertisement modules toward a user that are based on a particular module and/or the user's interaction with the module. Optionally, specific advertisements are targeted toward a user based on information regarding the user. For instance, some embodiments target ad modules toward a user based on the user's interaction with the movie module 1320. In these embodiments, when a user has an affinity for a movie, an ad module is advantageously delivered to the user. An example of an indicator of affinity is when the user expands a module regarding a movie such as Nacho Libre. One of ordinary skill recognizes additional indicators of affinity.

Accordingly, Figure 14 illustrates an ad module 1406 in various states for the movie Nacho Libre. In the announcement bar state 1401, the user is presented with an invitation to obtain more detail regarding the movie. Clicking the announcement bar 1401 presents the user with a collapsed unrolled state 1403 that presents more information to the user. If the user has still further interest, in the presented content, then the module 1406 transitions to the collapsed rolled state 1405, by positioning a cursor over the module 1406. As described above, the rolled state reveals additional content and/or tools such as a slider 1421. Also mentioned above, a large amount of information is advantageously presented by using horizontal scrolling. For instance, some embodiments include image previews, teaser trailer clips, and/or other information to entice or appease the user's interest.

Moreover, by selecting and/or clicking an item of content in the collapsed state 1405, embodiments of the invention preferably switch to an expanded state 1407 and 1409 to present even further information to the user. Preferably, the ad module 1406 is temporarily removable and/or hidden by the user, but is not otherwise modified by the user.

Figure 15 illustrates a news module 1524 in a collapsed unrolled state 1503, a collapsed rolled state 1505, and in a customization state 1511. Conventionally, news sites are not customizable. However, particular embodiments repurpose content from one or more news sources, and enable customization features for the user. Accordingly, when a user clicks an edit button 1523, the user is presented with the customization state 1511. In the customization state 1511, the user is enabled to select from a variety of news feeds including world, local, tech, and other news feeds. Moreover, the user is presented with a variety of tools for

adjusting the display preferences for the selected news feeds.

Figure 16 illustrates a daily quote module 1604 in various states, including a collapsed unrolled state 1603, a collapsed rolled state 1605, an expanded rolled state 1609, and customization states 1611 and 1613. When the quote is very long, a portion of the long quote is preferably displayed in the collapsed states 1603 and 1605. Then, when the user indicates a desire to view the full quote, the module 1604 transitions to an expanded state 1609, where the full quote is displayed. Further, the rolled states 1605 and 1609 provide tool buttons such as edit 1623 for customizing the module, remove 1625 for removing the module, and find 1627 for finding specific content, and a slider 1621 navigation tool for viewing additional content. When the find button 1627 is clicked, a search bar 1631 appears. In the illustrated implementation, the search bar 1631 is organized by year and month, and includes a field for entering search criteria. The edit button 1623 transitions the module 1604 to the customization states 1611 and 1613, where a user specifies source and/or display preferences.

Figure 17 illustrates a text advertising module 1730 with targeted ads in a collapsed unrolled state 1703 and a collapsed rolled state 1705. As shown in this figure, the rolled state 1705 further presents a slider 1721, an edit button 1723, and a remove button 1725 to the user. In the illustrated embodiment, the module 1730 suggests content in the form of advertising for which the user might have an interest. Some embodiments market to the user in this less obtrusive and suggestive manner, so that the user is not burdened and/or repulsed.

Figure 18 illustrates a stock module 1810 in a collapsed unrolled state 1803, a collapsed rolled state 1805, and configuration states 1811 and 1813. The stock module 1810 presents stocks, prices, and updates at periodic intervals. The module 1810 presents the information for any number of stocks, without the need for navigation to additional pages. An edit button 1823 of the rolled over state 1805, invokes the customization state 1811. The customization state 1811 is for editing the source and display preferences of the module 1810 such as the stocks presented and the refresh rate, for example. As shown in the state 1813, some embodiments assist the user in finding stock exchange symbols when adding new stocks to the module 1810.

Figure 19 illustrates a popularity type module 1918 in various states including a collapsed unrolled state 1903, a collapsed rolled state 1905, an expanded unrolled state 1907, an expanded rolled state 1909, and customization states 1911 and 1913. As described above, each state transitions to the next based on user behavior and/or interest. In the illustrated embodiment, the popularity module 1918 presents news items based on a popularity or user interest score. For instance, the collapsed states 1903 and 1905 present thumbnails, while the

discretely presented content that is sourced infinitely. The option for more content includes a click to reload button, a search function, or another suitable means for obtaining and presenting additional content.

Editing of Modules and Changing the Feed

The sources for the modules typically include feeds from a variety of sources. Preferably, a second feed for the second module is from a different source than a first feed. The modules include a state for a user of the interface to change a feed to one or more modules in the page. Embodiments of the invention include a zoom mode for reordering the modules. The zoom mode presents a full page view to the user. In the full page view, the layout of the page and modules is more readily ascertained by a user. The full page view has icons for indicating the direction of motion for reordering the modules, and the user advantageously reorders the modules in the page by using a drag and drop motion based on the indicators provided by the icons. In this manner, the location of each module is determined by the user.

Modules are optionally added or removed, and the presence of each module is determined by the user. Moreover, the content, feeds, and other features of each module are customizable such that the configuration of each module is determined by the user.

Example Module Types

Example module types include an advertisement module, a quotes module for presenting quotes that are important to the user, a stock tracking module, a photo module configured for retrieving content from a photograph site such as flickr.com. A social content module is configured for retrieving content from a site where the content on the site is socially determined by a ranking system such as digg.com, for example. Another type of module is the gallery module that includes different templates that are configured for addition or removal to or from a page. For instance, in one embodiment, if a template in the gallery is clicked, the modules within the page slide upward and a new module based on the template is inserted onto the page of modules. These and additional modules are further described below.

States

Each module preferably includes several states such as, for example, a collapsed unrolled state, a collapsed rolled state, an expanded unrolled state, an expanded rolled state, a customization state, an announcement bar state, and a hidden or temporary remove state. The collapsed unrolled state increases the user's breadth of view of the modules on the page, and reduces the amount of detailed information for the user such that the content presented on the page and in this state does not overwhelm the user. In this unrolled state, a set of tools is preferably hidden from the user. The set of tools provides for in-module navigation such as by

expanded states 1907 and 1909 present detailed images and/or captions. The customization states 1911 are activated by using a tool button within the rolled over states 1905 and 1909. In the customization state 1911, a user specifies preferences for source and/or display. The customization state 1913 indicates that the sources of an embodiment include editors picks, most viewed, highest rated, most emailed, top stories, Iraq, entertainment, sports, lifestyle, politics, business, technology, science, health, odd news, and/or AFP top photos. One of ordinary skill recognizes additional sources, and/or alternative items of content based on a scoring system.

Header

Figure 20 illustrates a header module 2002 according to an implementation. As shown in this figure the header 2002 has a collapsed state 2003, a collapsed rolled over state 2005, an expanded state 2009, and a customization state 2011.

The collapsed state 2003 advantageously has a slim footprint and reduced information such as reduced content, prompts, buttons, sliders, and/or other navigation tools. Preferably, certain additional content and/or tools are revealed in the rolled over state. As mentioned above, the rolled over state 2005 is achieved when a cursor, which is represented by the pointing hand, is positioned over an unrolled state. In the collapsed rolled state 2005, additional information is presented to the user such as a credit for the art work of the module 2002, and an option to edit the header module 2002.

When clicked, the edit button 2023 opens a customization mode for the header 2002. In one implementation, a tray drops down that provides a variety of templates and/or art work for selection by the user. The tray includes a slider 2001 for the horizontal access of additional templates. In this figure, the templates are organized such as by the month and year of the most selected headers during that time period. However, one of ordinary skill recognizes alternative organizational schemes such as by month and year of submission or creation, for example. The expanded state 2009 shows the content, such as the artwork, in additional detail. In the illustrated state 2009, the module 2002 and image content is shown in a larger format.

Some embodiments provide a default header for new users and/or users who do not select a particular header. For instance, some of these embodiments use as the default the most popular header from the community for the current month and year. In contrast to conventional pages that limit the user to rigid headers for particular brand advertising, some embodiments permit more customizable headers that are more pertinent to the user. In some of these embodiments, the user is able to submit new and/or original templates and artwork by

using a submit button 2027. Optionally, the submit button 2027 reveals additional content in the form of a message to the user. Submitted headers are stored in the drop down tray for use by the user and other users. Some headers are sorted and/or stored in particular ways, such as by a rating or voting system as further described below.

Gallery

Particular embodiments include additional modules in a gallery module 2126. The gallery module 2126 stores different types of modules or templates that are selectable by a user for inclusion or addition to the page. The module templates in the gallery 2126 are provided by a host for the customizable web pages such as Yahoo Inc., for example. Alternatively, module templates are submitted and/or vetted by the community for inclusion in the gallery 2126. For instance, the more aesthetic and/or relevant modules preferably receive the most promotion within the gallery module 2126. Some implementations use a rating system. Moreover, developers and designers are able to locate each other through the gallery module 2126. For instance, those users interested in the World of Warcraft game, can create a chat module for chatting with other Warcraft gamers, and submit the module to the gallery module 2126. Such a community based system is contemplated for the headers and artwork of the header tray described above in relation to Figure 20.

Adding Modules

Figure 22 illustrates a variety of ways in which modules are added. As shown in this figure, the header 2202 preferably includes a button for adding a module to a page. When the add module button is clicked, the gallery module 2226 appears to allow the user to select a module from a variety of module templates stored in the gallery. The gallery module 2226 appears in a variety of advantageous ways such as by drop down. Alternatively, the user is transitioned to the gallery within the page. When the user selects a module template from the gallery 2226, the modules in the page preferably slide down to make room for the added module, which appears in a variety of ways in the newly created space on the page. In a particular implementation, the user clicks on the desired module template in the gallery 2226 and/or drags the desired template out of the gallery 2226. In this implementation, the newly added module appears in the desired position by defaulting to a customization state 2211.

Figure 23 illustrates an alternative method of adding a module. As shown in this figure, the cursor is near the footer 2328 of the page, and the user enters the gallery module 2326 directly to add a module to the page based on a template stored in the gallery 2326. In this embodiment, the modules in the page slide upward to allow space for the new module, which preferably appears above the gallery module 2326, and in a state 2311 ready for user

customization.

Additional Modules and States

As mentioned above, one of ordinary skill recognizes a variety of advantageous module implementations and features. In particular, advertising and other modules include four states for increasing and/or reducing the presentation of the content and/or tools to the user. These four states includes rolled and unrolled over states for each of a collapsed state and an expanded state. Moreover, some embodiments include two additional states for improving usability and customization. The announcement bar state further provides content and/or options for additional content in a space saving and unobtrusive manner. The temporary hide or remove state similarly allows for customization and unobtrusiveness. These and additional features are discussed in relation to the advertising implementations of Figures 7-8, 13-14 and 15. Some embodiments include a search feature as part of a module, or alternatively, as a separate search module. The search feature of these embodiments optionally includes an autocomplete function and advantageously provides results in-page and/or inline with the user's interaction with the various content and the various modules on the page. This and other features are provided fluidly without the need for additional navigation or window switching. Further, the search feature preferably provides a set of sponsored results that are optionally implemented with the provision of related content and/or advertising.

As mentioned above, additional modules are implemented in alternative embodiments. For instance, a "my newest" module includes content compiled from a variety of sources, based on novelty, while an answers and/or information module includes statistics and/or newly posted answers to a question that is relevant to the user. Alternatively a traffic module presents information in the form of traffic conditions that are user customized such as the traffic for the user's home to work and vice versa. Similarly, a weather module presents a customized user interface that includes a variety of media including maps, audio, video, charts, tables, and other information within the module. Embodiments of the invention include content retrieved from partner site locations, such as watched items provided by eBay Inc., a desktop or schedule provided TiVo Inc., or a short message service (SMS) module for sending and/or receiving messages.

Some embodiments emphasize a community aspect. For instance, an astrology module provides periodic information regarding events and predictions related to astrological signs, and also provides for contributions and sharing among users of the module. Additional modules are recognized by one of ordinary skill in the art. Moreover, despite the quantity and variation of content and modules, the modules present an easy to perceive format on a single

self updating page, without the need for additional external navigation.

Additional module possibilities include a map module, an instant messaging module; and an email module. Within each module, content preferences are designated by the user. Also, content is alternatively pushed based on user behavior and/or patterns.

Figure 2400 illustrates a process 2400 for using the modules of some embodiments. As shown in this figure, the process 2400 begins at the step 2410, where a browser is used to connect to a server. Some embodiments check for specific components such as, for example, one or more cookies, plugins, controls, and/or players. For instance, some embodiments check for a Flash player that is provided by Macromedia Inc. Particular implementations further register an identity for the user and/or for the machine used to connect to the server. The identity includes a user login, and/or a cookie, for example.

Then, at the step 2420 one or more default modules are provided to a new user. The default modules are typically part of a theme. The theme is optionally selected a variety of ways such as by using the user's profile, by user selection, randomly, and/or by another method. Alternatively, if the user and/or the machine is recognized and has previously saved modules, then the saved modules are retrieved and provided to user's browser. After the modules are provided at the step 2420, the process 2400 transitions to the step 2430, where the modules provided at the step 2420 are customized. In some embodiments, the modules are customized by using the editing functions described above. New or unsophisticated users may forego significant or any customization and proceed with one or more default settings and/or default modules.

After zero, one or more modules and/or themes are customized at the step 2430, the process 2400 transitions to the step 2440, where an option to save is presented. If the customizations should be saved, then the process 2400 transitions to the step 2450, where the changes are written to a storage location. Some embodiments save the customization as part of a user profile. The profile is identified by using a unique identifier such as a login ID or by using a cookie for a browser application on a certain machine. Thus, when the user or machine logs in, the saved customizations are retrieved from the storage location for presentation. After the step 2440, the process 2400 transitions to the step 2460.

If the customizations should not be saved at the step 2450, then the process 2400 transitions to the step 2460, where the modules execute a variety of predefined functions. If the modules are customized, some of the execution is based on the customization.

For instance, news modules typically request a response from one or more RSS feeds. Social bookmarking modules might execute javascript object notation (JSON), such as,

for example, to interface with an external site dedicated to such bookmarking such as del.icio.us, for example. Photo modules preferably interface with an external site for photographs by using the REST API. The web site flickr.com is an example of such an external photo site. Additional modules, such as movie modules and/or instant messaging modules, for example, optionally use another API and/or protocol to obtain and/or update content for these various different modules.

Regardless of the particular modules and/or execution, at the step 2470 the process 2400 determines whether to edit the default and/or customized modules. For instance, embodiments of the invention alter the parameters of one or more modules. The editing is typically in response to a user request, or alternatively, a system request. If editing should occur at the step 2470, then the process 2400 returns to the step 2430. Otherwise, the process 2400 concludes.

Figure 25 illustrates a reordering process 2500. The reordering process 2500 is optionally used to reorder one or more modules within a page, such as the reordering illustrated by Figure 10, for example. As shown in this figure, the process 2500 begins at the step 2510, where a cursor is positioned or is rolled over a module among a page of modules. Preferably, at the step 2510, one or more buttons are revealed that are for editing, adding, removing, and/or reordering the page. Then, the process 2510 transitions to the step 2520, where a selection for editing and/or customization is made. Once the selection for editing is made, the page zooms out to present a full page view, at the step 2530. From the full page view, one or more modules are selected and/or reordered. In some embodiments, the reordering is performed by using the cursor in a drag-and-drop operation. Further, some embodiments provide visual cues in the form of icons that illustrate the possible directions of movement of each module for reordering. At the step 2550, it is determined whether the process 2500 should continue such as for multiple modules of a page, for example. If the process 2500 should continue at the step 2550, then the process 2500 returns to the step 2540. Otherwise, the reordering process 2500 concludes.

Figure 26 illustrates a system 2600 for presenting content including user customizable modules to users through a network. As shown in this figure, the system 2600 includes a plurality of users 2602 and 2604 who interact with a network 2606. The network includes local area networks, wide area networks, and networks of networks such as the Internet, for example. The network 2606 typically includes several sites comprising a number of web pages having content. One or more particular web pages include modules as described above. The modules are for the presentation of content to the users 2602 and 2604. Accordingly, the

network 2606 is coupled to an exemplary site or page 2608 that includes several exemplary modules 2610, 2612 and 2614. As represented by the dashed lines, the page 2608 includes a variable number of modules, and one of ordinary skill recognizes that the modules 2610, 2612, and 2614 are merely exemplary in number. The site 2608 is coupled to a server 2616 for providing configuration, storage, retrieval, data collection and/or processing. The server 2616 receives data from a variety of sources, including directly from the users 2602 and 2604, from the network 2606, from the site or page 2608, and/or from another source 2607. Typically, the page 2608 and the server 2616 are provided by one or more of a publisher, a network portal and/or an Internet portal. Further, as the users 2602 and 2604 interact with the network 2606, and the page 2608, content selected and/or configured for the modules of the page 2608, is presented to the users 2602 and 2604.

Advantages

As a user interface, embodiments of the invention include a personalized home page that has advantages over the art. Some implementations repackage content and data types from one or more locations, including external websites, to create a highly relevant and quality default experience with genuinely useful customization and content options. For instance, implementations of the user interface provide several functionalities over the art. One such functionality includes customizable modules, while another functionality includes horizontal scrolling within a module. Moreover, the length of vertical and/or horizontal scrolling is adjustable, and hence, the amount of content presented is readily and/or automatically customized and updated.

As a system level implementation, embodiments of the invention operate as a traffic driver for audiences that may not otherwise use a web portal and/or certain content nested therein. These embodiments serve as a vehicle for product awareness without overt heavy handed preaching and selling tactics. In this manner, the number of products consumed by users of a content provider and/or a portal are increased.

Embodiments of the invention have advantageous features for those interested in design and technology, among others. Such users tend to already use individual sites for some of the content described above such as, for example, users of social content, social bookmarking, and/or photo web sites, or more specifically, users of digg.com, del.icio.us, and/or flickr.com. Some embodiments include a home page for a group of users that is preferably visited very often for obtaining highly relevant and/or updated content. These embodiments are advantageously designed with default content that is both aggregated and editorial. The default content is often good enough that it does not require elaborate

customization. Hence, the content of some embodiments includes items that are appropriate at various times during a user interaction session, particularly when the user or a group of users opens a browser. Some embodiments segment audiences to provide more targeted content and interaction models as well as appropriate advertisers.

By repurposing and/or repackaging existing content via RSS and APIs in more compelling user interface modules, embodiments of the invention surface content to a user who is otherwise unaware of such interesting content. Preferably, these users are launched into novel parts of a site that the users have not experienced. Moreover, the user interface of some embodiments allows users to experience an Internet portal, such as the portal site provided by Yahoo Inc., as a content source in an environment with which the user is more comfortable, without the need for external navigation. Moreover, a variety of content types and quantities is delivered to the user in a single simple and intuitive user interface.

Conventional systems undesirably require users to close and move portions of and within a user interface. To counter the limitations of traditional online advertising models, embodiments employ one or more of the following monetization means, on a highly customizable and user friendly page.

Some implementations, in addition to the advertising, targeting, and marketing implementations described above, perform product promotion by using a specific module entitled "Things We Like" that preferably contains cool, fun, and/or design-oriented products. These products are preferably available through the portal, such as through Yahoo Shopping, for example. Thus, clicking the products presented by this module passes the user through Yahoo Shopping, and carries a purchase referral.

Some implementations include custom advertising, tools, and/or modules developed for specific advertisers that have relevant content to showcase. For instance, an automobile manufacturer such as Audi chooses this module implementation to present a design process. As another example, a movie studio customizes a module by using a CGI process. The custom module relates to a particular movie that is being released. Advantageously, new modules are created to showcase content based on an existing module template, such as a Flickr photo module template, for example, or a completely new module that is similar to the Spotlight framework, as another example.

Some implementations include tools for developing and/or customizing a module and/or template. For instance, an advertiser has product information or services that are appropriate for presentation to a user in a module format. Hence, some embodiments include tools for developing sponsored modules. For example, a Netflix movie module

advantageously contains new release movie information and trailers. Figure 13 illustrates an example of a Netflix module 1320.

Community

Some embodiments foster a community aspect. For instance, the inclusion of new modules and types of modules is optionally community driven. In these embodiments, users generate modules and submit the generated modules to the community. Only those modules approved or voted for inclusion by the community are added to the gallery of available modules. The headers of some embodiments are similarly included by using such a rating, voting, or other community oriented system. The spotlight module of particular implementations is another example of a community oriented approach.

While the invention has been described with reference to numerous specific details, one of ordinary skill in the art will recognize that the invention can be embodied in other specific forms without departing from the spirit of the invention. For instance, the examples given above often relate to news, photo, movie, and/or online media, however, additional and/or multiple media types are contemplated as well. Thus, one of ordinary skill in the art would understand that the invention is not to be limited by the foregoing illustrative details, but rather is to be defined by the appended claims.

CLAIMS

What is claimed is:

1. A user interface for providing content to a user, the user interface comprising:
 - a plurality of modules for displaying the content within a single page, each module comprising a plurality of states;
 - a first module within the page, the first module for presenting content from a first source; and
 - a second module for presenting content from a second source, wherein the first module is stacked on top of the second module within a window for presenting the page;

wherein the content presented by the first module is independent of the content presented by the second module such that a user interacts with the content of each module without the need for navigation to a location external to the single page.
2. The user interface of claim 1, the first module comprising a collapsed unrolled state that increases the user's breadth of view of the modules on the page, and reduces the amount of detailed information for the user, wherein the presented content does not overwhelm the user.
3. The user interface of claim 1, wherein a set of tools is hidden from the user, wherein the first and second modules are stacked such that a horizontal dimension of the first and second modules spans the width of the window.
4. The user interface of claim 3, wherein the set of tools provides for in-module navigation.
5. The user interface of claim 3, wherein the set of tools includes selections for edit and remove.
6. The user interface of claim 1, further comprising just in time content, wherein the content presented by the first module automatically adjusts to maximize a field of view of the content for the user.
7. The user interface of claim 1, further comprising content that is presented on demand.
8. The user interface of claim 1, further comprising content that is presented based on the specification of a user.
9. The user interface of claim 1, the first module further comprising a collapsed rolled state for presenting to a user a set of tools that appears when a cursor is positioned over the first module.

10. The user interface of claim 1, the first module further comprising an expanded unrolled state for presenting additional content to the user.

11. The user interface of claim 10, wherein the additional content comprises multimedia.

12. The user interface of claim 10, wherein the additional content comprises text.

13. The user interface of claim 1, further comprising an expanded rolled state for presenting a set of tools, wherein the expanded rolled state comprises a detailed view that increases depth of presented information.

14. The user interface of claim 13, the set of tools further comprising an autoplay feature.

15. The user interface of claim 13, the set of tools further comprising a button for returning to a collapsed state.

16. The user interface of claim 1, the first module comprising an announcement bar state that requires minimal space.

17. The user interface of claim 1, wherein the first module is removable such that the removed first module does not appear within the user interface.

18. The user interface of claim 1, the first module further comprising a temporary remove state, wherein in the temporary removed state, the first module reappears within the user interface at a predetermined time.

19. The user interface of claim 18, further comprising an advertisement module in a temporary remove state such that the user is allowed to control content, while permitting unobtrusive advertising to coexist with user customized content.

20. A user interface for providing content, the user interface comprising:
a plurality of modules for displaying the content within a single page,
each module comprising a plurality of states;
a first module within the page, the first module for presenting content from a first source; and

a second module for presenting content from a second source,
wherein the first module is stacked on top of the second module within a window for presenting the page,

wherein the content presented by the first module is independent of the content presented by the second module such that a user interacts with the content of each module without the need for navigation to a location external to the single page,

wherein the first module comprises a configuration state.

21. The user interface of claim 20, further comprising a user selection in a rolled state for transitioning to the configuration state.

22. The user interface of claim 20, wherein when the first module is selected for configuration, the first module appears to transition in place on the page such that the user is presented with an edit mode for the module without altering the appearance of the other modules within the page of modules.

23. The user interface of claim 20, wherein the configuration state is presented to the user such that the configuration state appears to be located on the back of a module.

24. The user interface of claim 20, wherein the configuration state comprises a specific color.

25. The user interface of claim 20, the configuration state comprising an option to save changes and an option to exit the configuration state, wherein when the option to exit is selected, the configuration state appears to rotate in place to return to the state from which the configuration state was selected, wherein the changes made for the module are presented.

26. A user interface for providing content, the user interface comprising:
a plurality of modules for displaying the content within a single page;
a first module within the page, the first module for presenting content from a first source; and

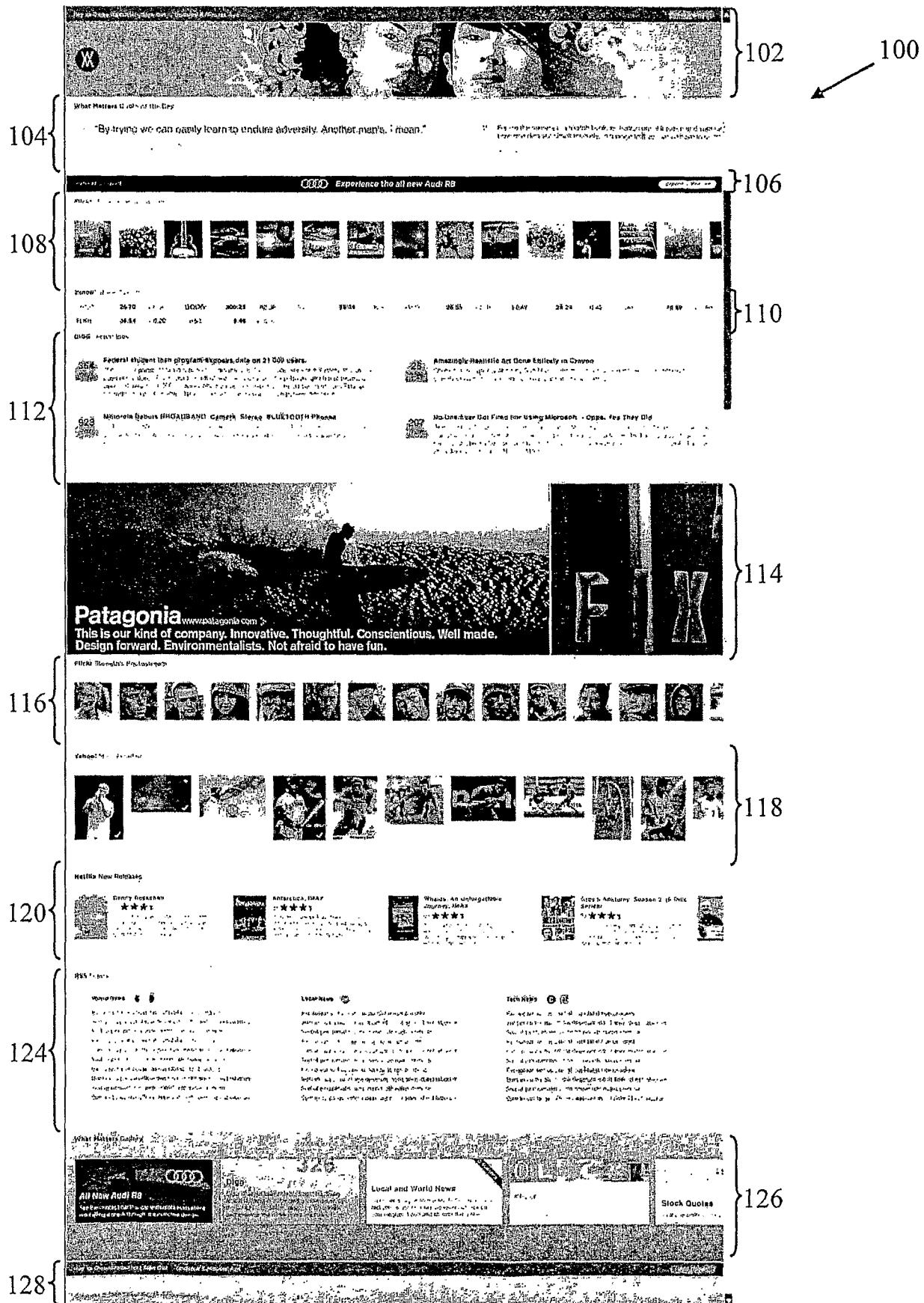
a second module for presenting content from a second source,
wherein the first module is stacked on top of the second module within a window for presenting the page,

wherein the content presented by the first module is independent of the content presented by the second module such that a user interacts with the content of each module without the need for navigation to a location external to the single page,

wherein each user interaction within the single page comprises a granular event.

27. The user interface of claim 26, wherein the granular event comprises at least one of a mouse over event, a roll over, and a click.

28. The user interface of claim 26, wherein the granular events are recorded for the single page for profiling and targeting purposes.

*Figure 1*

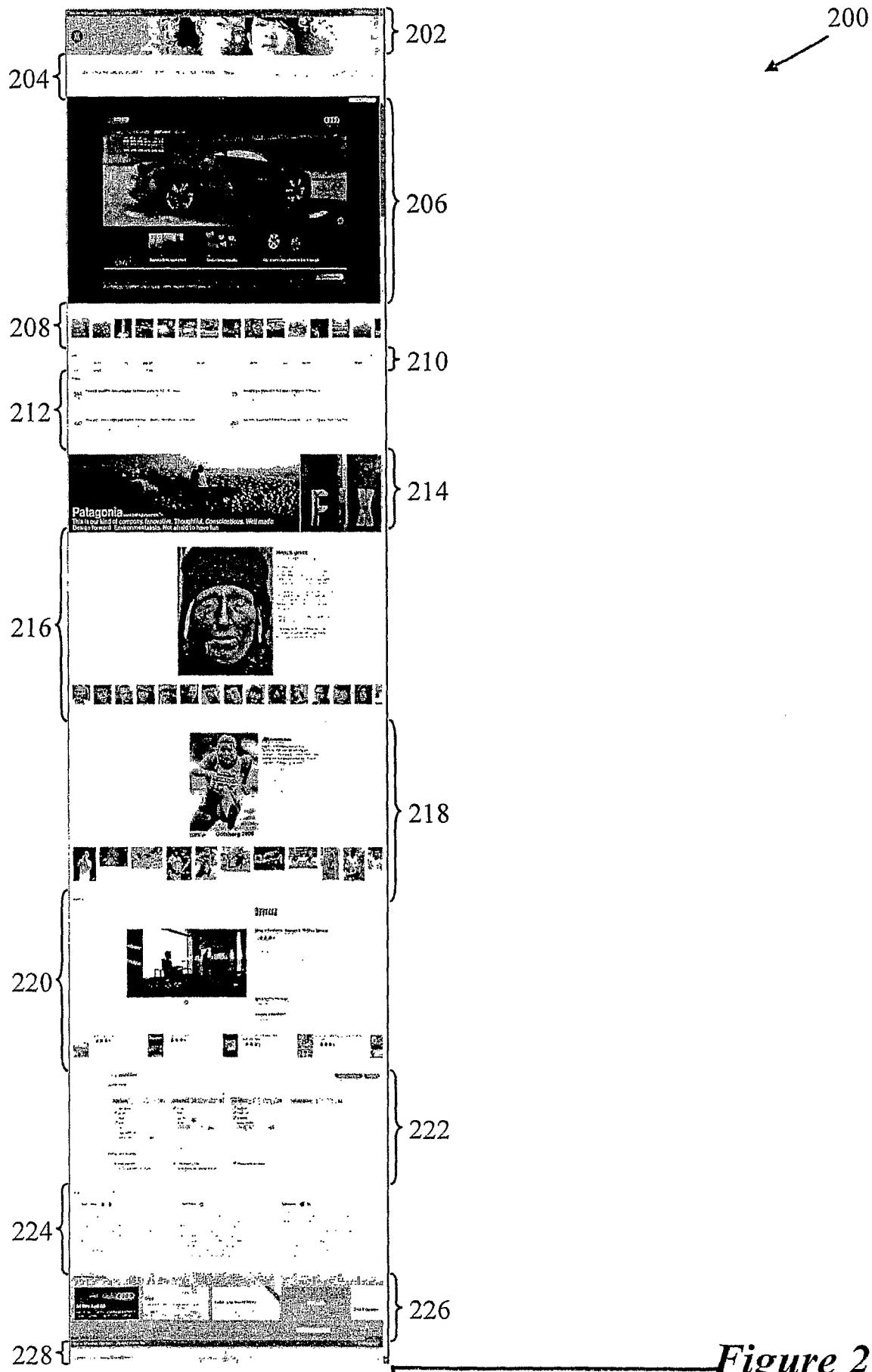


Figure 2
RECTIFIED SHEET

3/29

300

302 {

304 }

310 {

314 }

312 {

316 {

318 }

1. SELECT A MODULE > 2. CUSTOMIZE Back to Step 1 | Finish

Source Feeds

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RECTIFIED SHEET**Figure 3**

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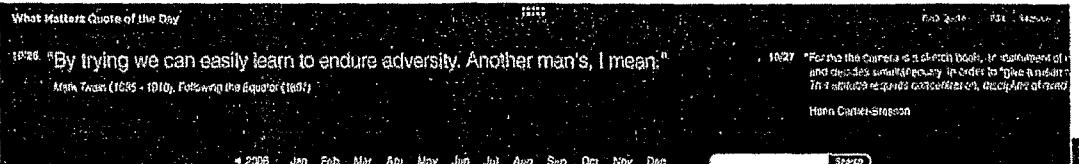
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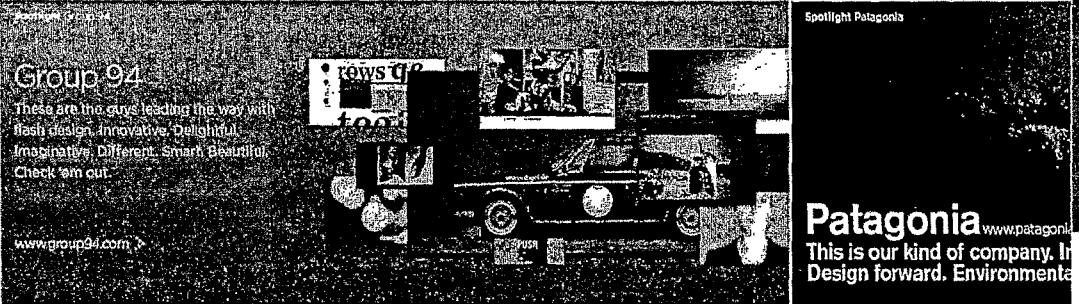
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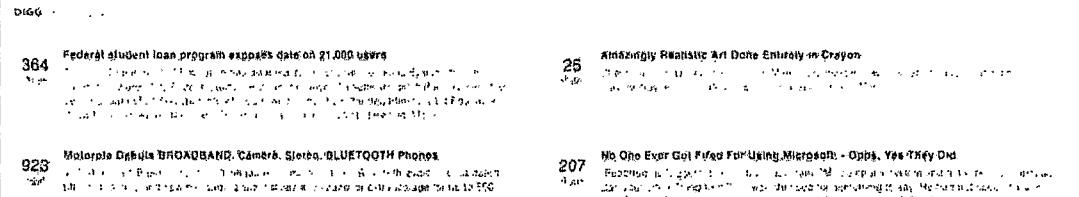


1627 "For the camera is a sketch book, it is stamped all over and decides summarily in order to 'fix' a situation. In fact it records concentrated, encyclopedic and

Hans Christian Andersen



414



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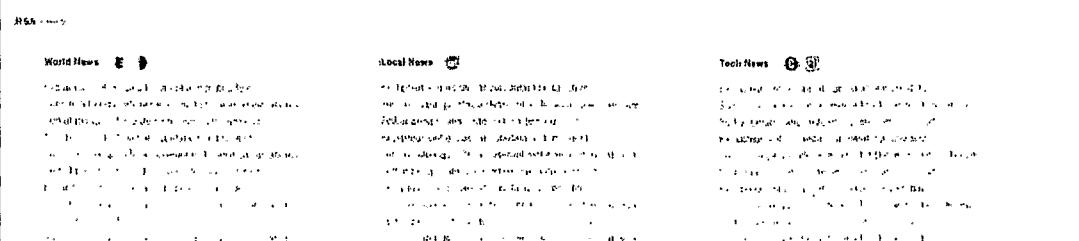


923 Motorola DROID BROADBAND, Camera, Stereo, BLUETOOTH Phones
207 No One Ever Got Fired For Using Microsoft - Opps, Yes They Did

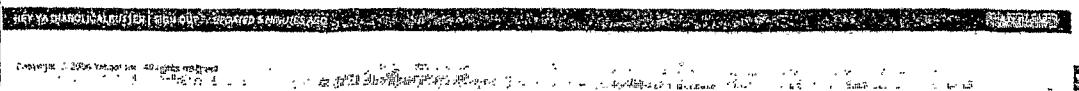


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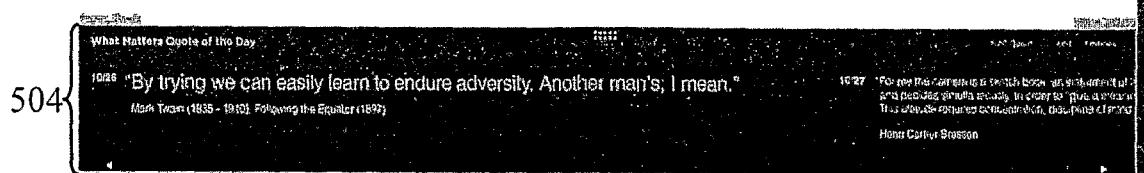
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Figure 4

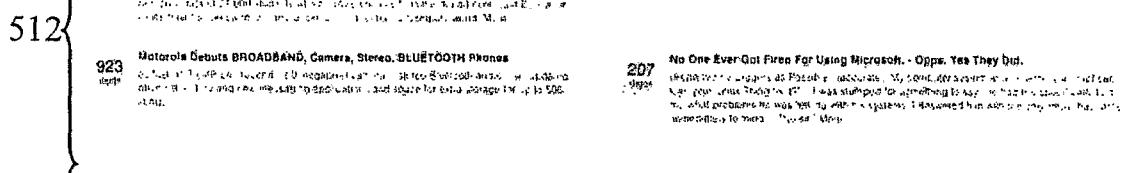
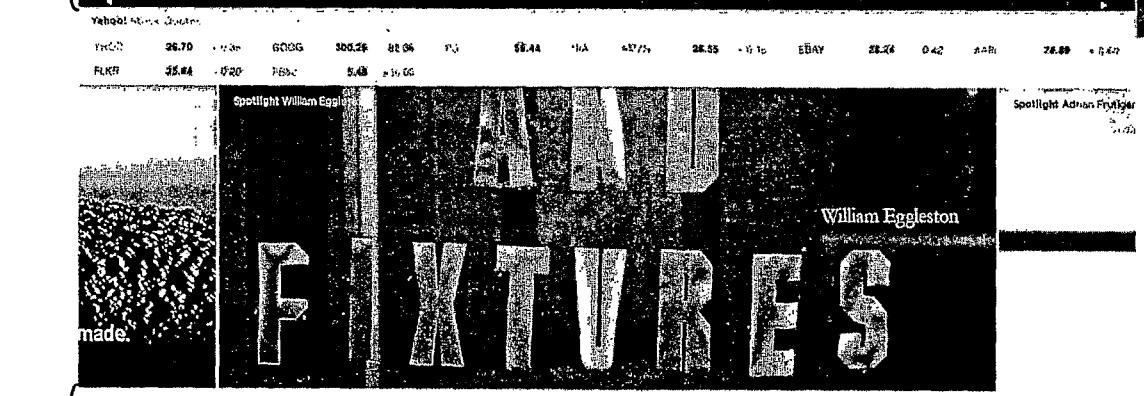
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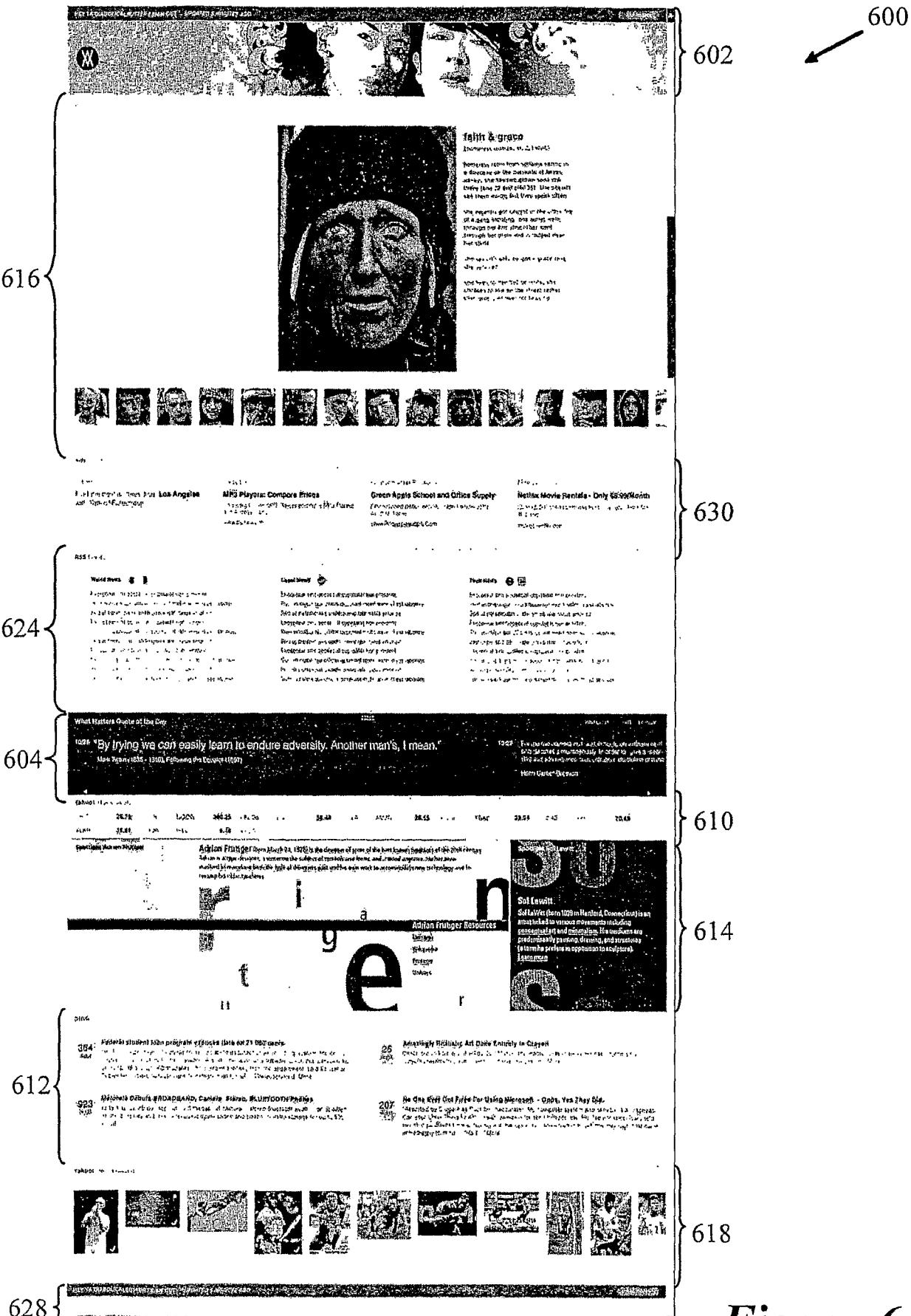
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Figure 5

6/29

**RECTIFIED SHEET****Figure 6**

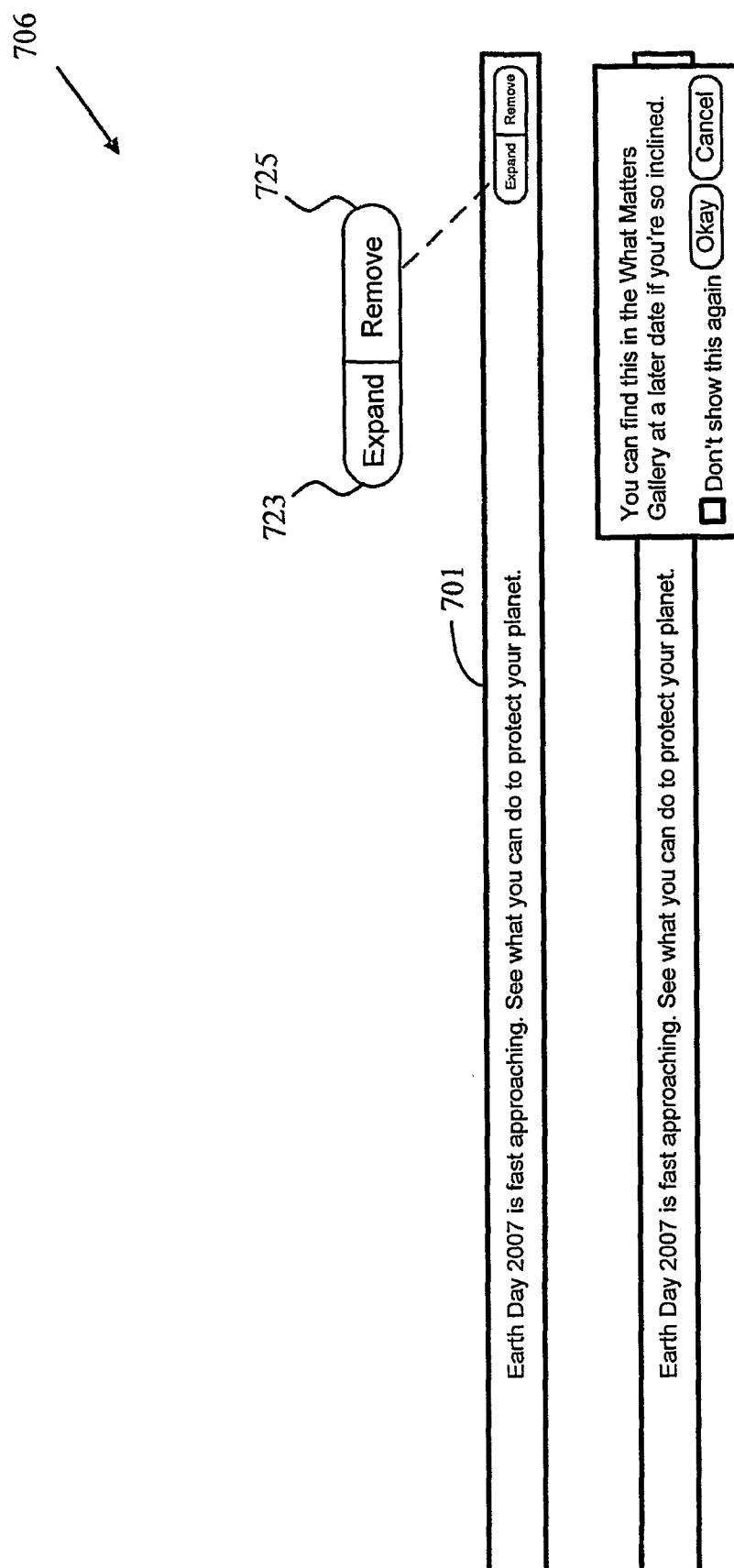
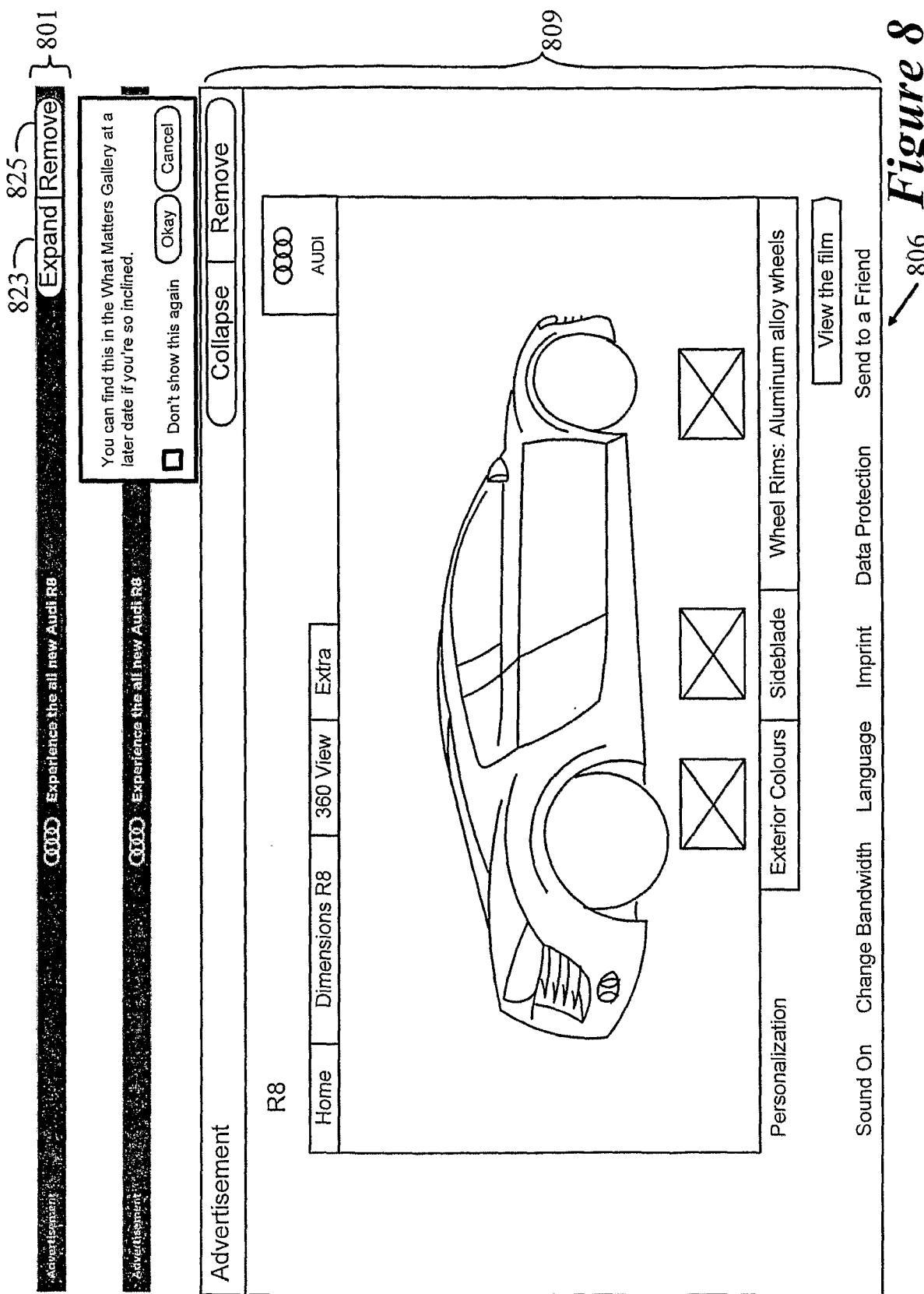
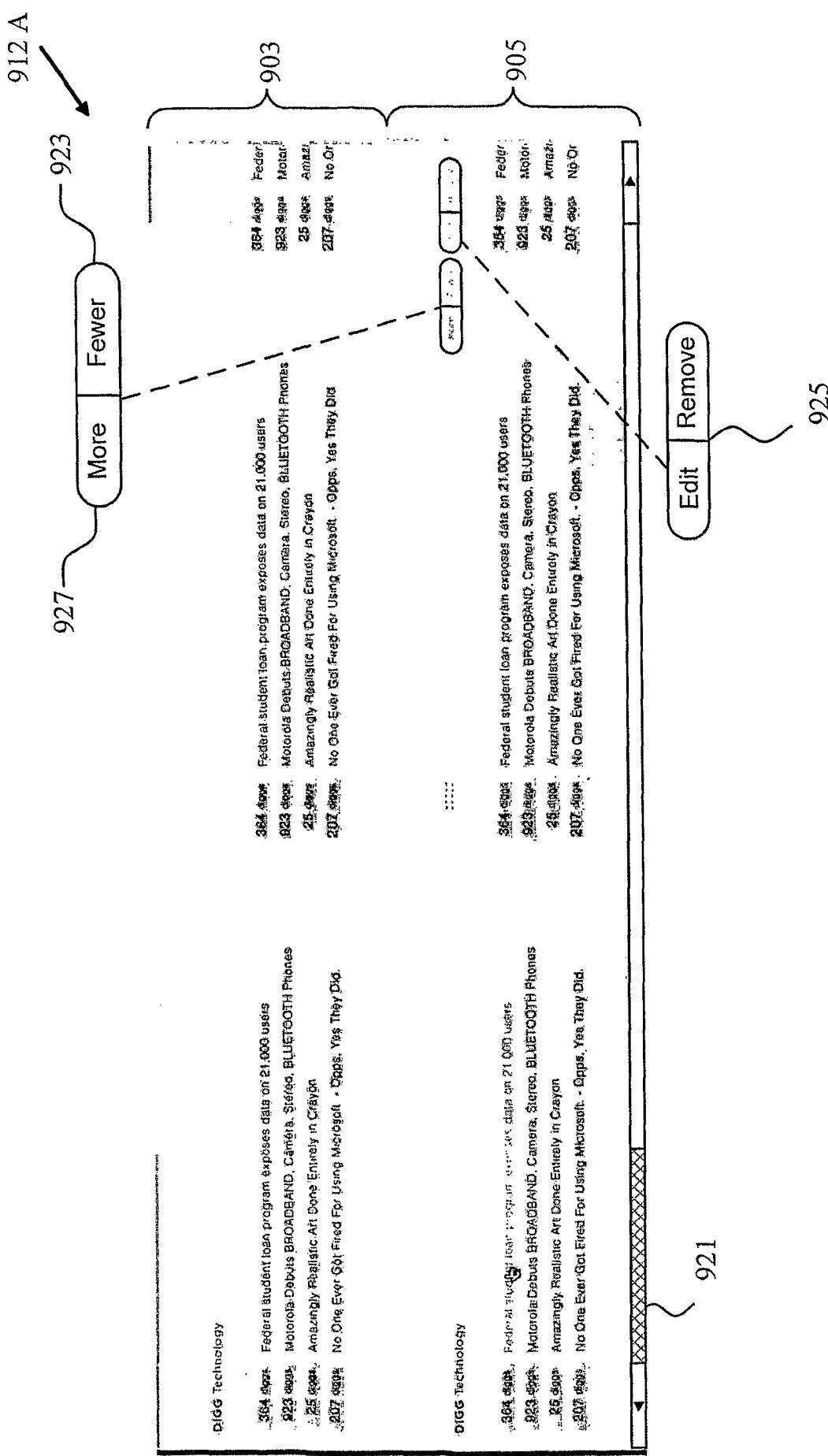


Figure 7



← 806 Figure 8

**RECTIFIED SHEET****Figure 9A**

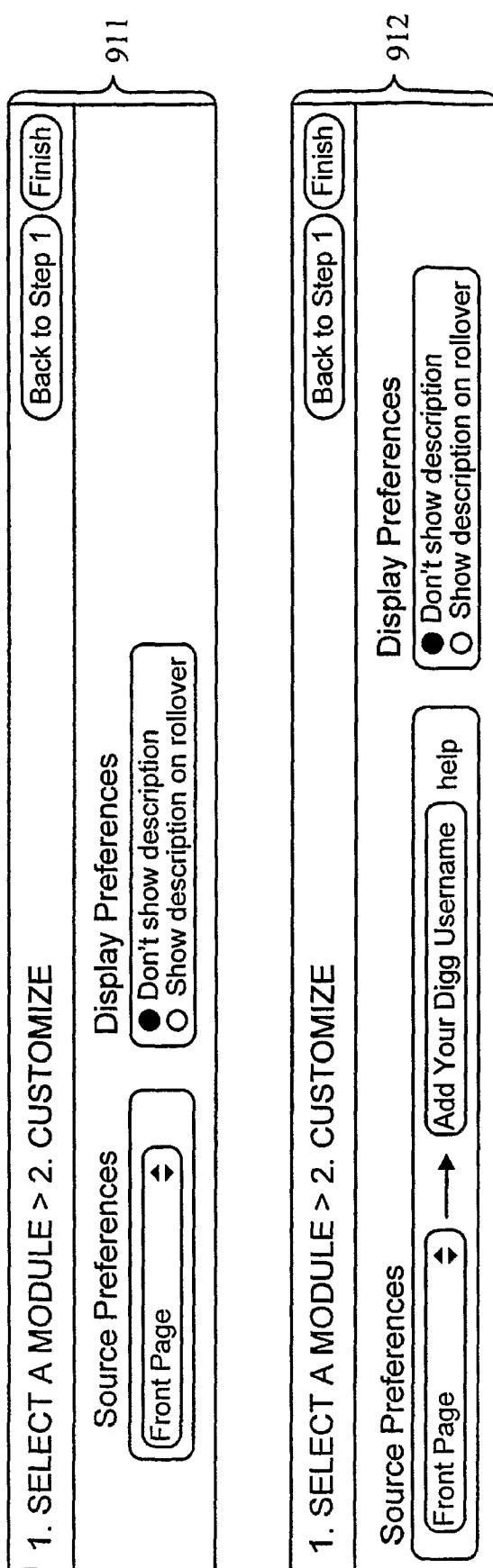
912 B

<p>DIGG Technology</p> <p>364 Federal student loan program exposes data on 21,000 users The U.S. Department of Education has disabled its Direct Loan Servicing System, the online payment feature of its Federal Student Aid site, because of a software glitch that exposed the personal data of 21,000 students who borrowed money from the department. said Education Department spokeswoman Jane Glickman in an e-mail to Computerworld. More</p> <p>923 Motorola Debuts BROADBAND, Camera, Stereo, BLUETOOTH Phones as fast as 3.6MB per second .20 megapixel camera, - stereo Bluetooth audio, - an updated phone directory and new messaging applications and space for extra storage for up to 500 songs More</p>	<p>25 Amazingly Realistic Art Done Entirely in Crayon Check out this gallery of art by Don Marco, the master crayon artist. He uses nothing but crayola crayons to create these vivid realistic scenes. More</p> <p>907 No One Ever Got Fired For Using Microsoft. - Opps, Yes They Did. Reported By Diggers as Possibly Inaccurate] My computer system and network is a crapheap Can your Linux Thing fix it? I was stumped for something to say. He had not specifically told me what problems he was having with his systems. I answered him with the only reply that came immediately to mind. 'No sir.' More</p> <p>207 Amazingly Realistic Art Done Entirely in Crayon Check out this gallery of art by Don Marco, the master crayon artist. He uses nothing but crayola crayons to create these vivid realistic scenes. More</p> <p>909 No One Ever Got Fired For Using Microsoft. - Opps, Yes They Did. Reported By Diggers as Possibly Inaccurate] My computer system and network is a crapheap Can your Linux Thing fix it? I was stumped for something to say. He had not specifically told me what problems he was having with his systems. I answered him with the only reply that came immediately to mind. 'No sir.' More</p>
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Figure 9B

912 C

**RECTIFIED SHEET***Figure 9C*

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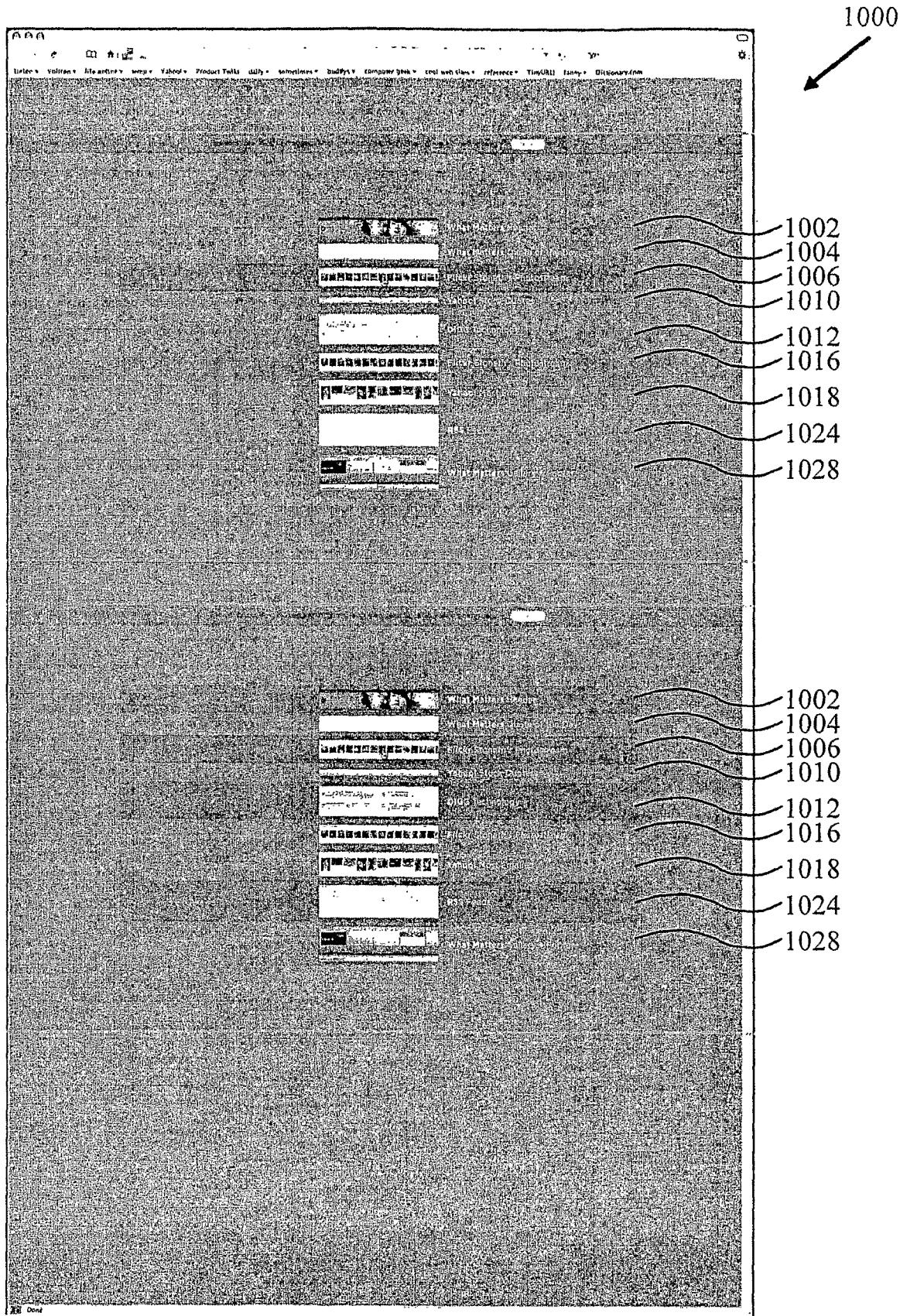


Figure 10 (Whole View)

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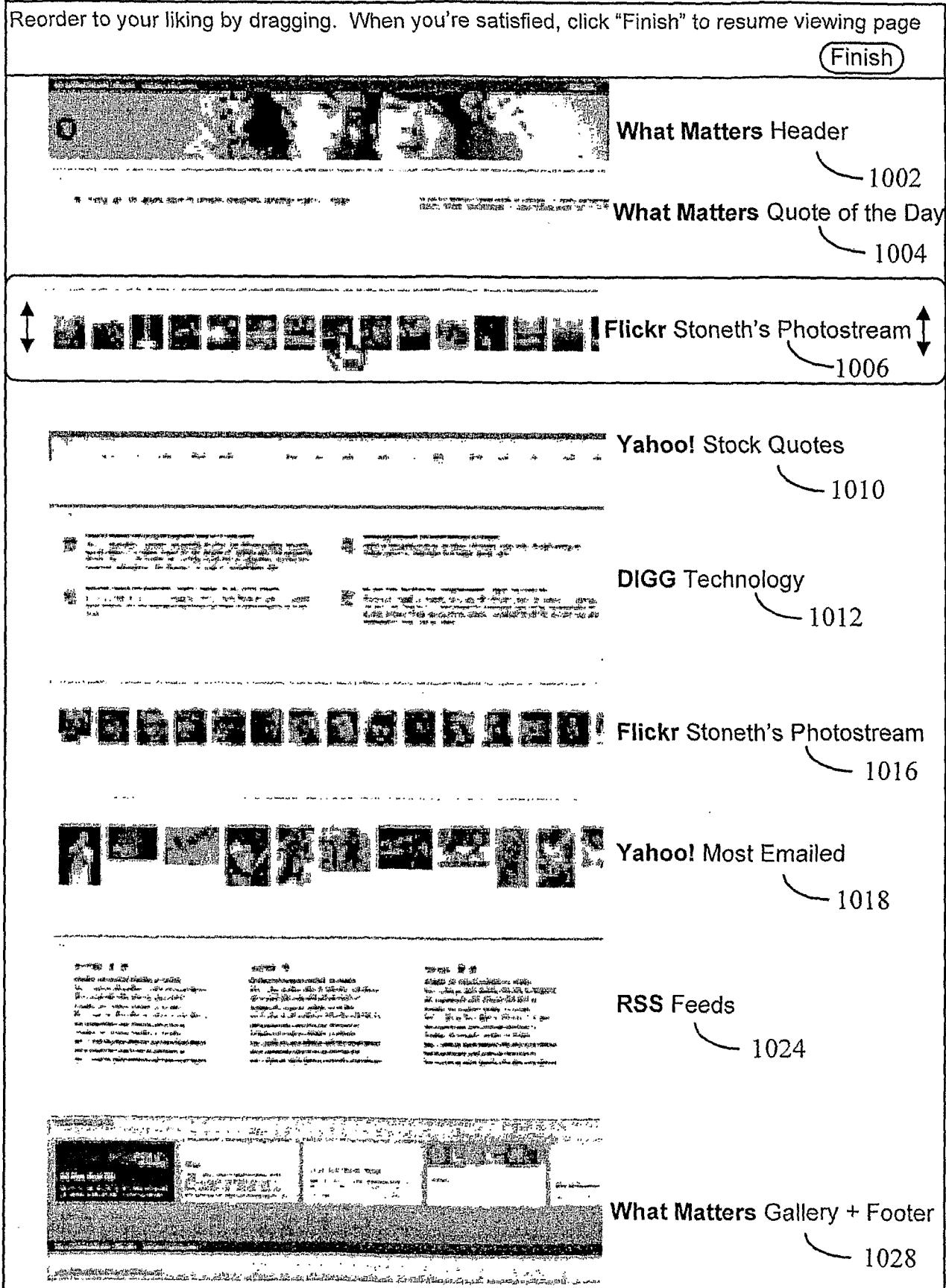


Figure 10A (Enlarged View)

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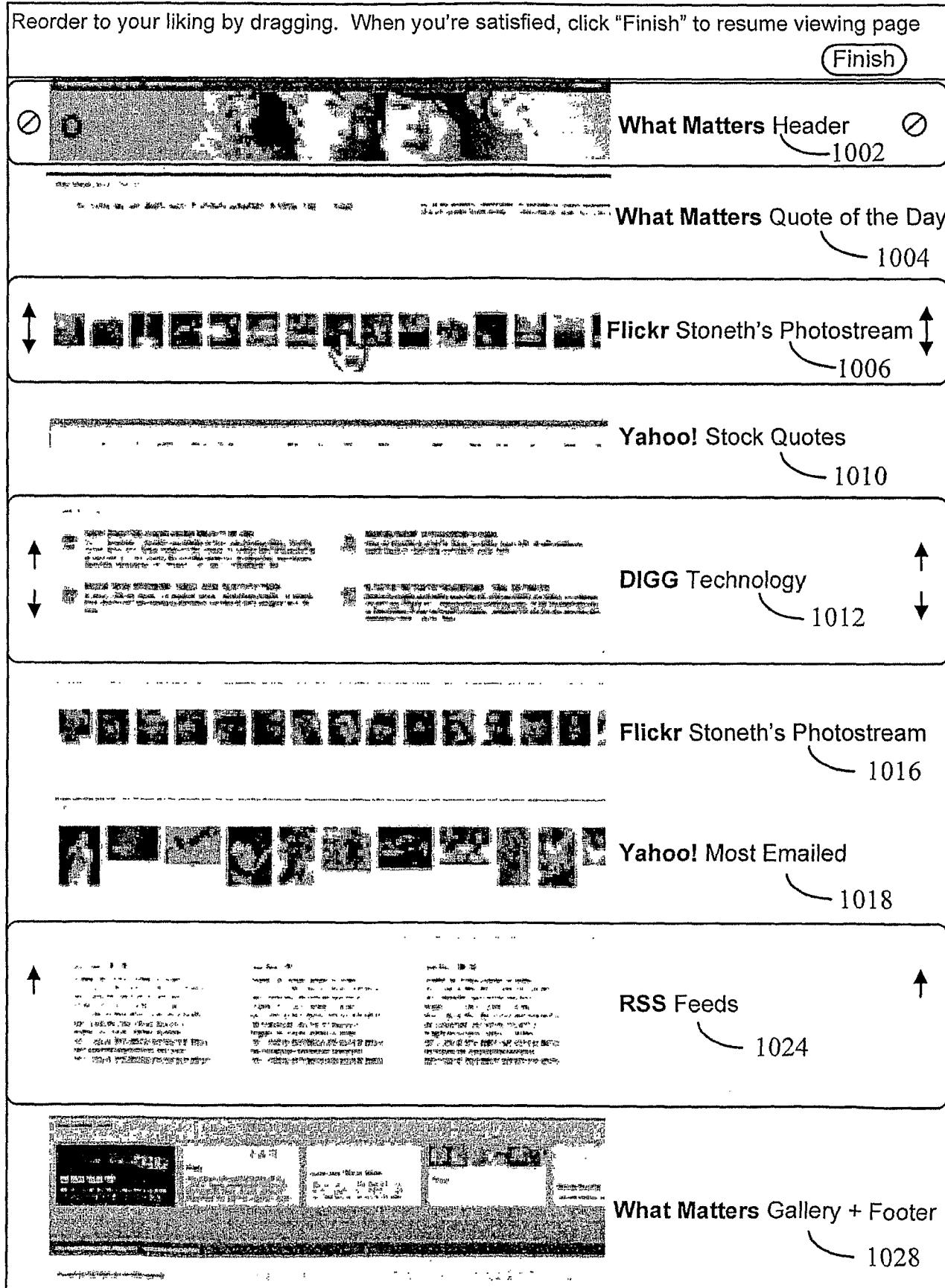


Figure 10B (Enlarged View)

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Figure 11

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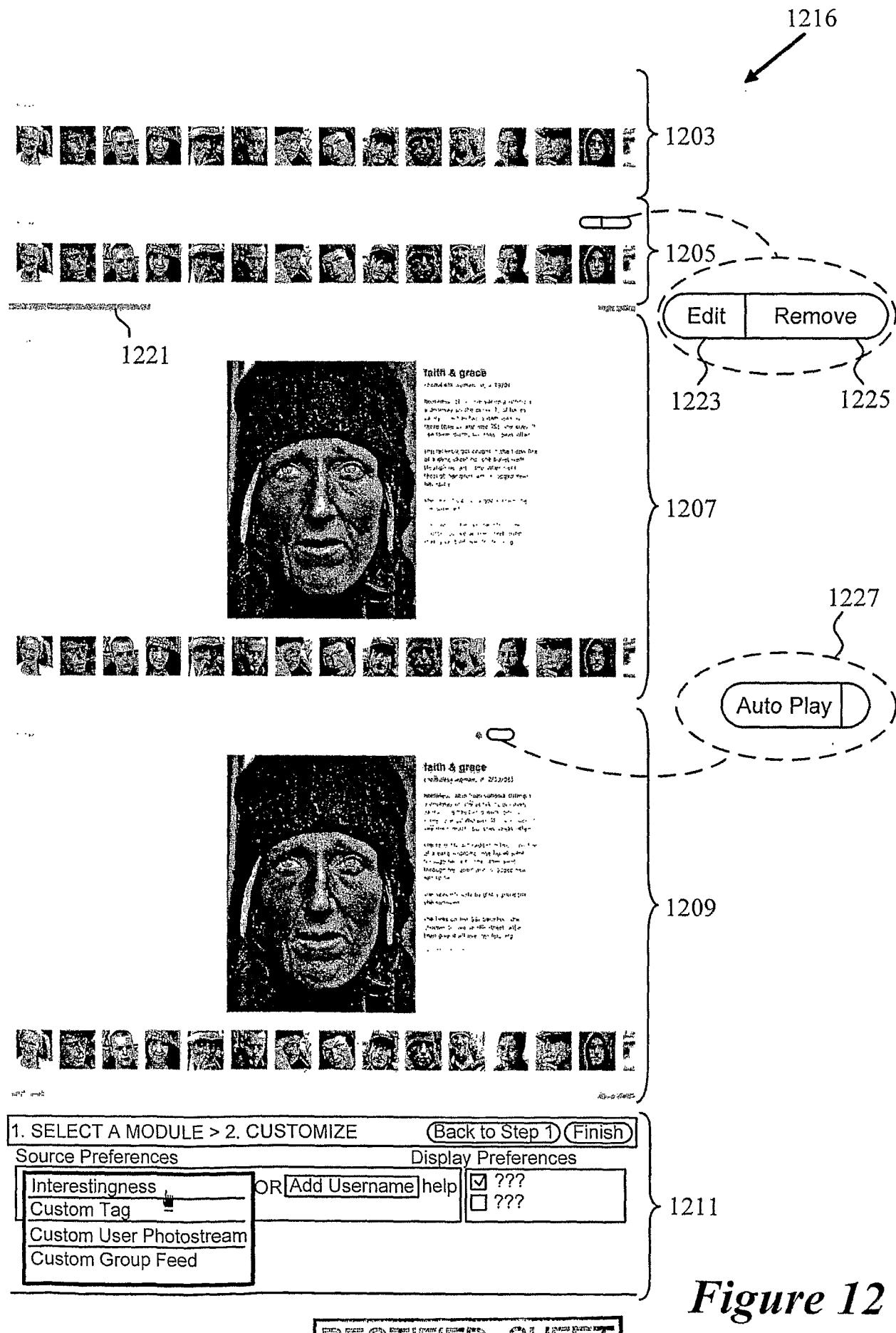


Figure 12

17/29

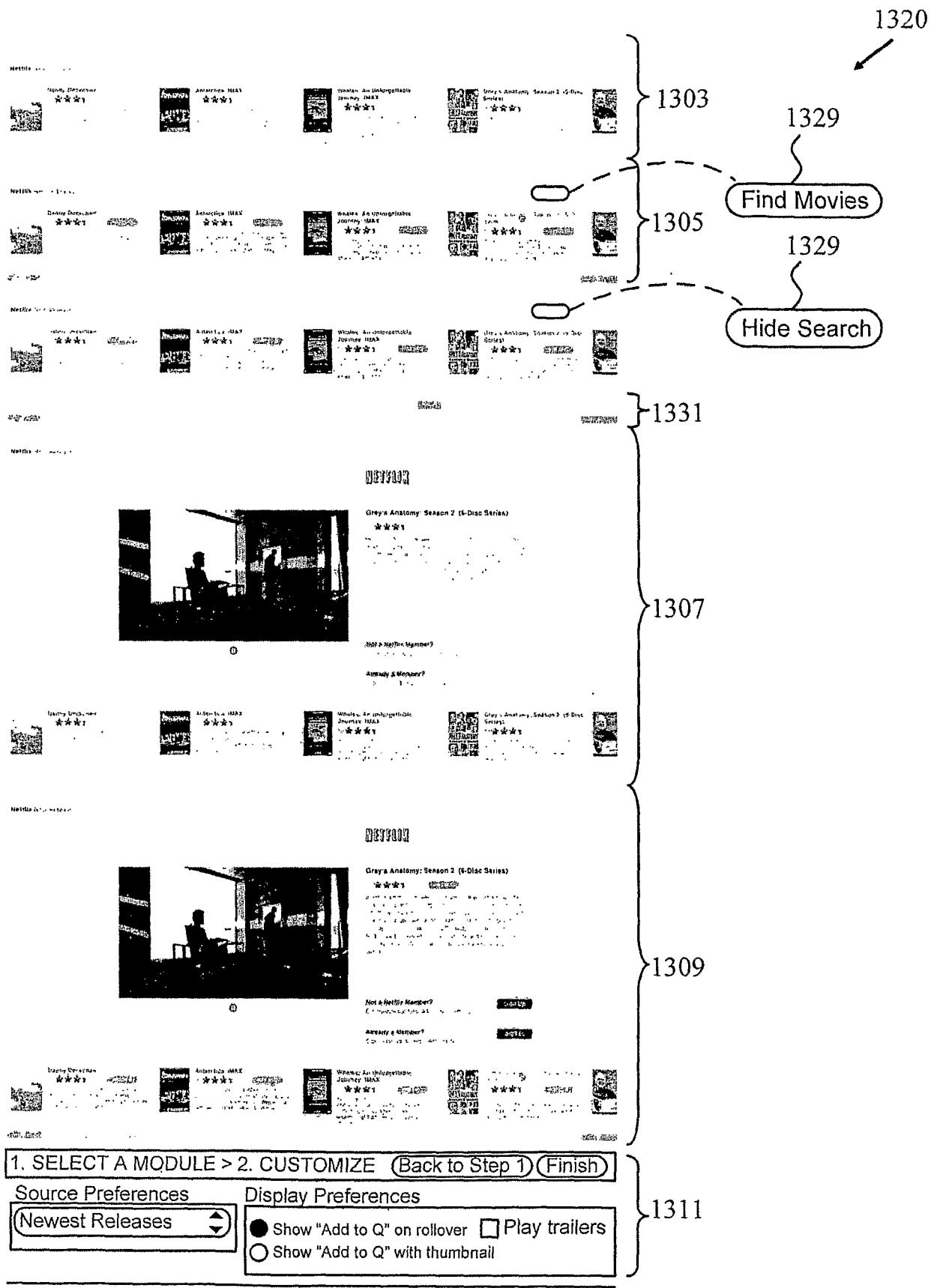
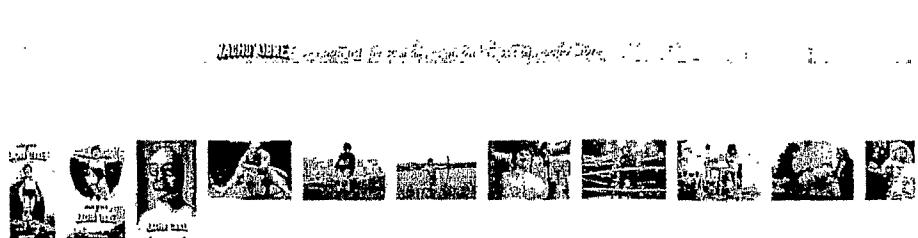


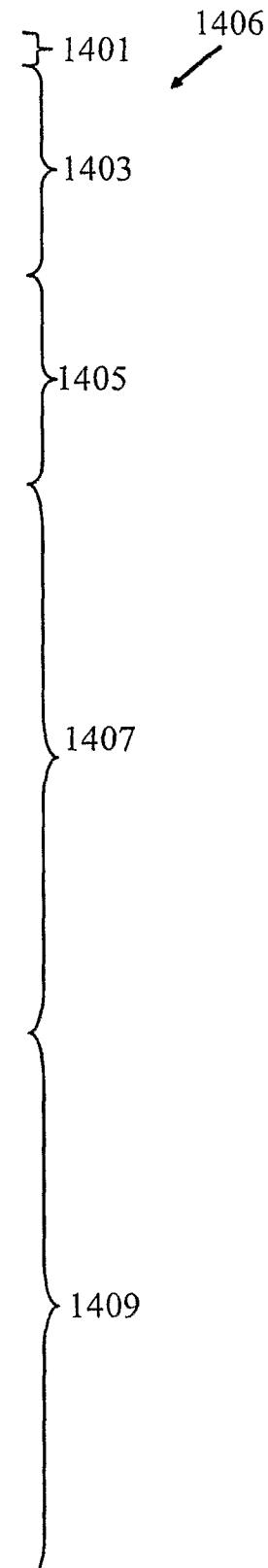
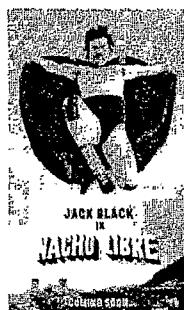
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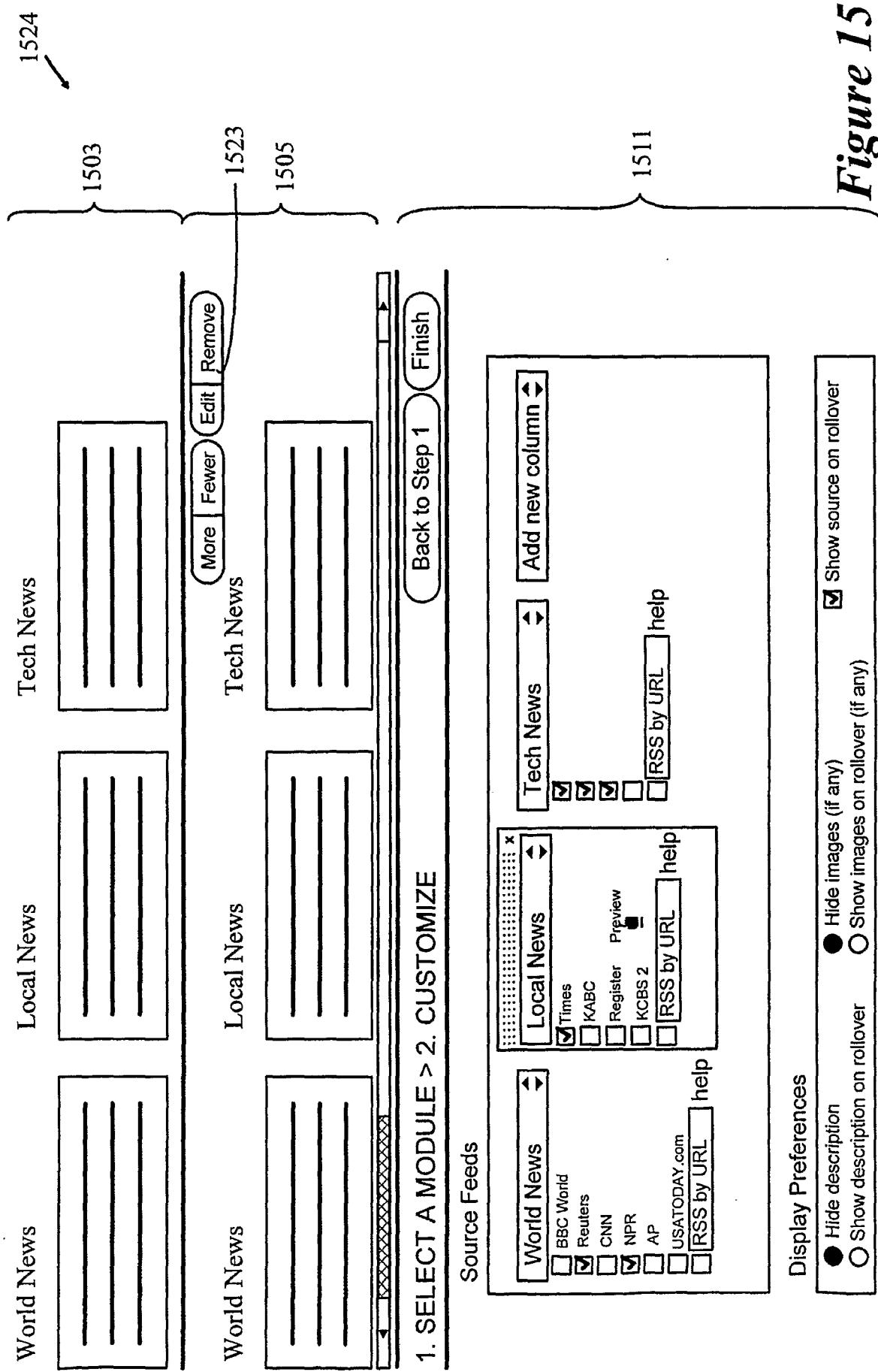


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Figure 14

**Figure 15**

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What Matters Quote of the Day

10/26 "I want to stay as close to the edge as I can without going over." Kurt Vonnegut	10/26 "For me the camera is a sketch book..." Mark Twain
10/26 "For me the camera is a sketch book, an instrument of intuition and spontaneity..." Read full quote Henri Cartier-Bresson	10/27 "By trying we can easily learn to..." Mark Twain

← [REDACTED] →

1621

What Matters Quote of the Day

10/26 "For me the camera is a sketch book, an instrument of intuition and spontaneity..." Read full quote Henri Cartier-Bresson	10/27 "By trying we can easily learn to..." Mark Twain
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← [REDACTED] →

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What Matters Quote of the Day

10/26 "By trying we can easily learn to endure adversity..." Mark Twain	10/27 "For me the camera is a sketch book..." Henri Cartier-Bresson
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← [REDACTED] →

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What Matters Quote of the Day

10/26 "By trying we can easily learn to endure adversity..." Mark Twain	10/27 "For me the camera is a sketch book..." Henri Cartier-Bresson
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← [REDACTED] →

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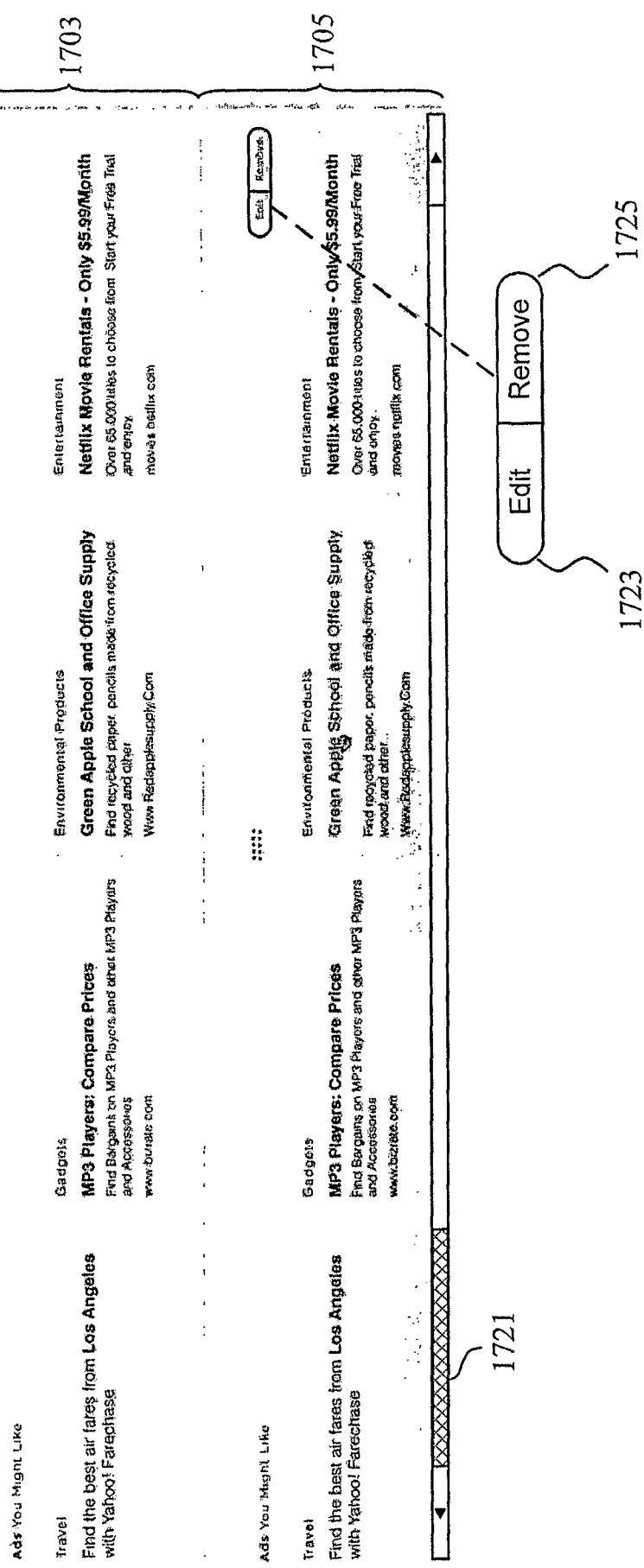
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Figure 16

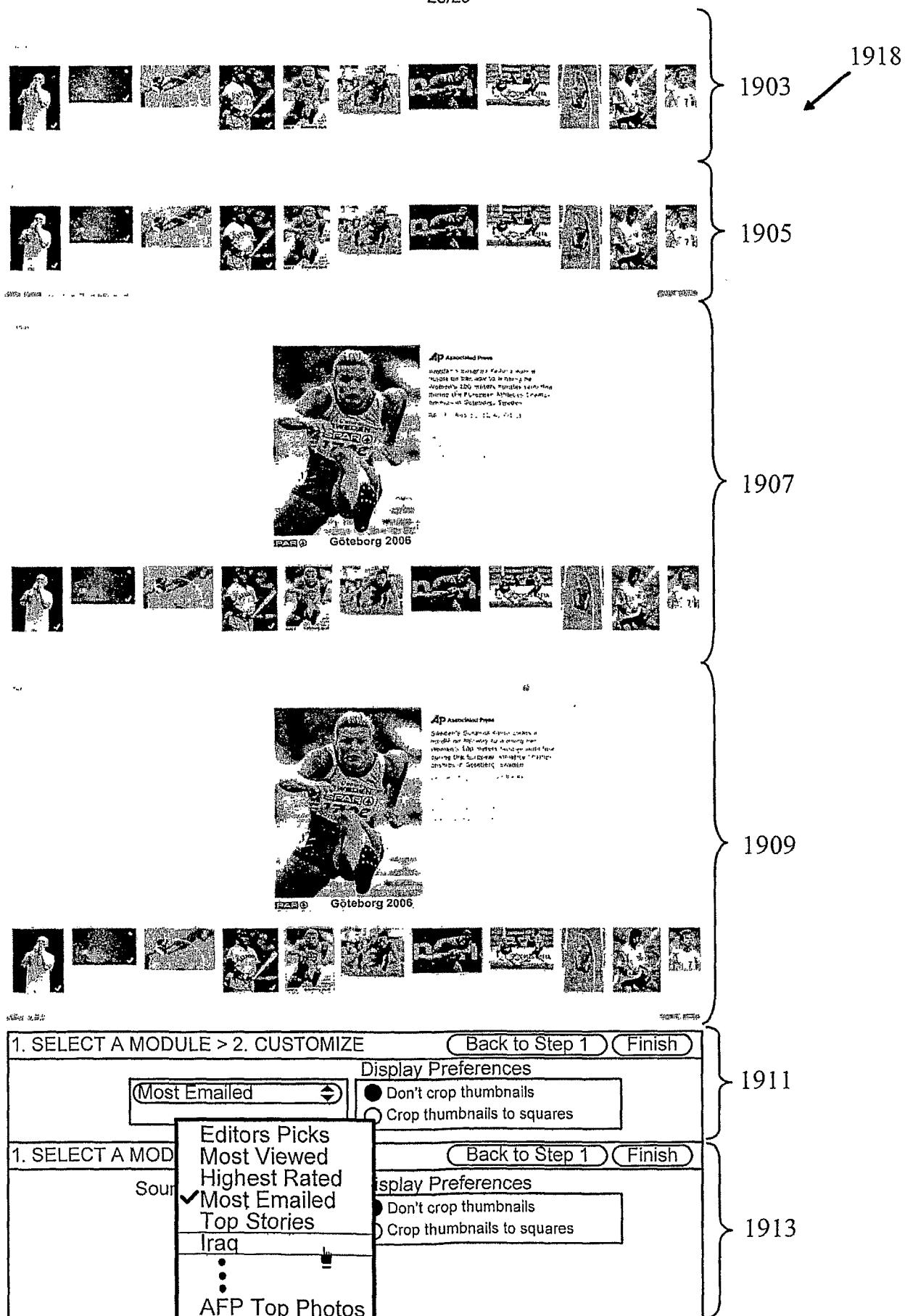
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FLKR	::	PB&J	5.48	+ 10.00	56.44	N/A	56.44	EBAY	26.24 - 0.42																				
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YHOO	::	GOOG	::	PG	::	AMZN	::	EBAY	26.55 + 0.16																				
FLKR	::	PB&J	5.48	+ 10.00	56.44	N/A	56.44	EBAY	26.24 - 0.42																				
<p>1. SELECT A MODULE > 2. CUSTOMIZE</p> <p>Source Preferences</p> <table border="1"> <tr> <td>YHOO</td> <td>::</td> <td>GOOG</td> <td>::</td> <td>PG</td> <td>::</td> <td>AMZN</td> <td>::</td> <td>EBAY</td> <td>26.55 + 0.16</td> </tr> <tr> <td>FLKR</td> <td>::</td> <td>PB&J</td> <td>5.48</td> <td>+ 10.00</td> <td>56.44</td> <td>N/A</td> <td>56.44</td> <td>EBAY</td> <td>26.24 - 0.42</td> </tr> </table> <p>Display Preferences</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Auto-refresh every 2 mins <input type="radio"/> Refresh only when page loads <input type="checkbox"/> Order by most to least changed <p>Back to Step 1 (Finish)</p>										YHOO	::	GOOG	::	PG	::	AMZN	::	EBAY	26.55 + 0.16	FLKR	::	PB&J	5.48	+ 10.00	56.44	N/A	56.44	EBAY	26.24 - 0.42
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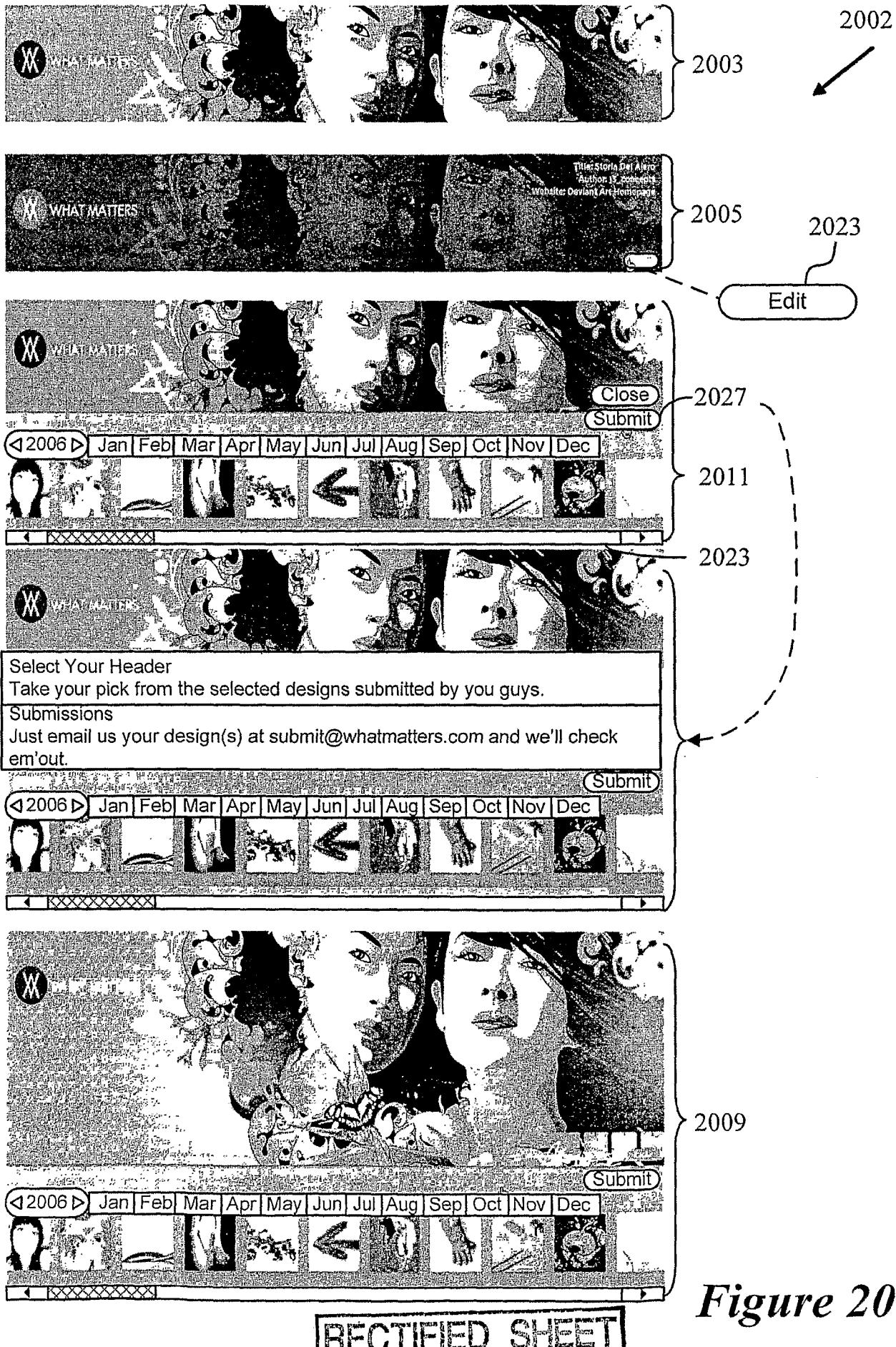
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Figure 18

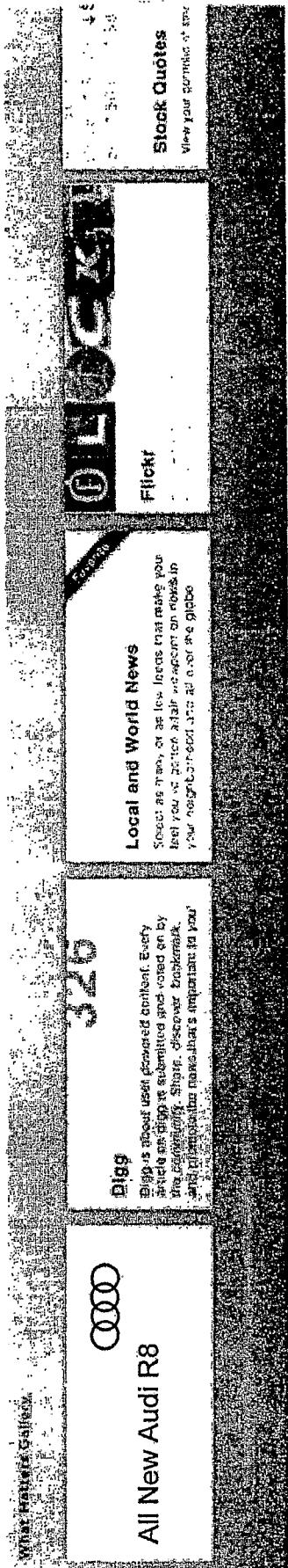
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*Figure 19***RECTIFIED SHEET**

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*Figure 20*

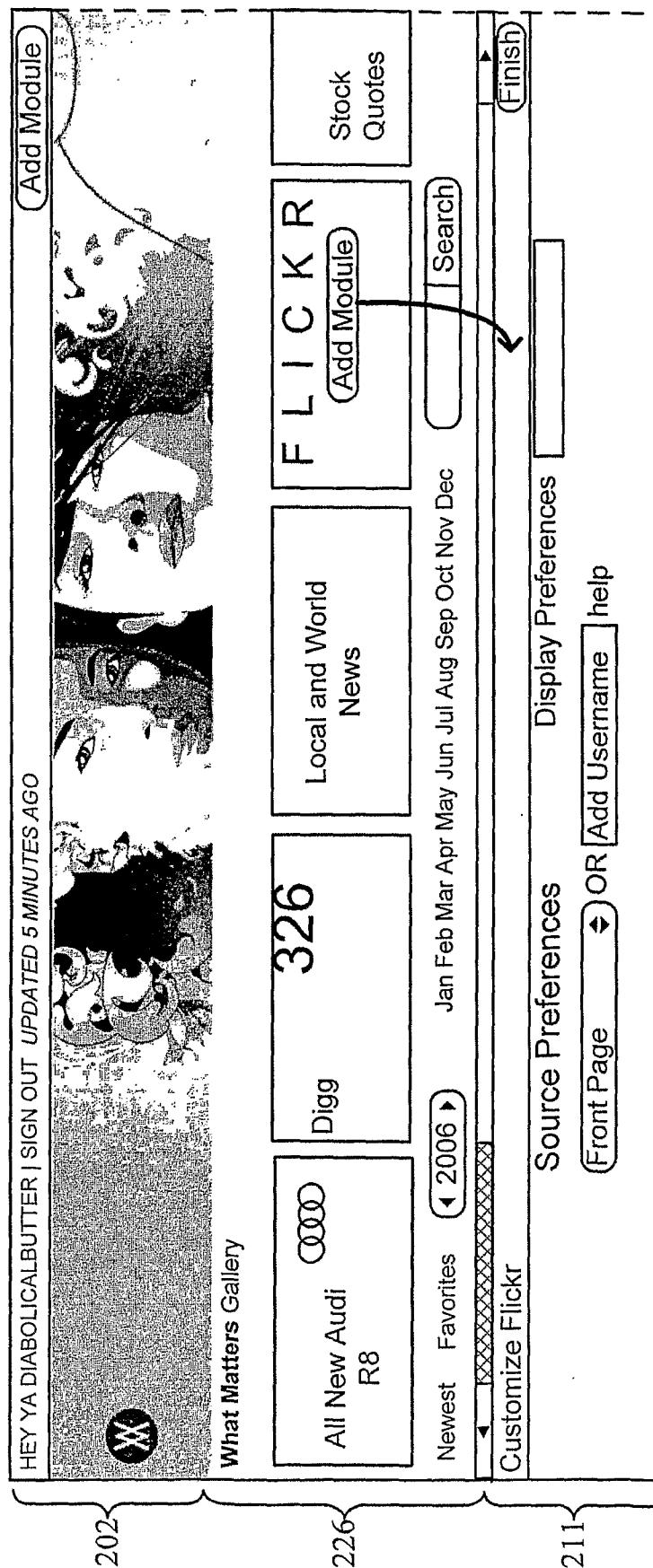
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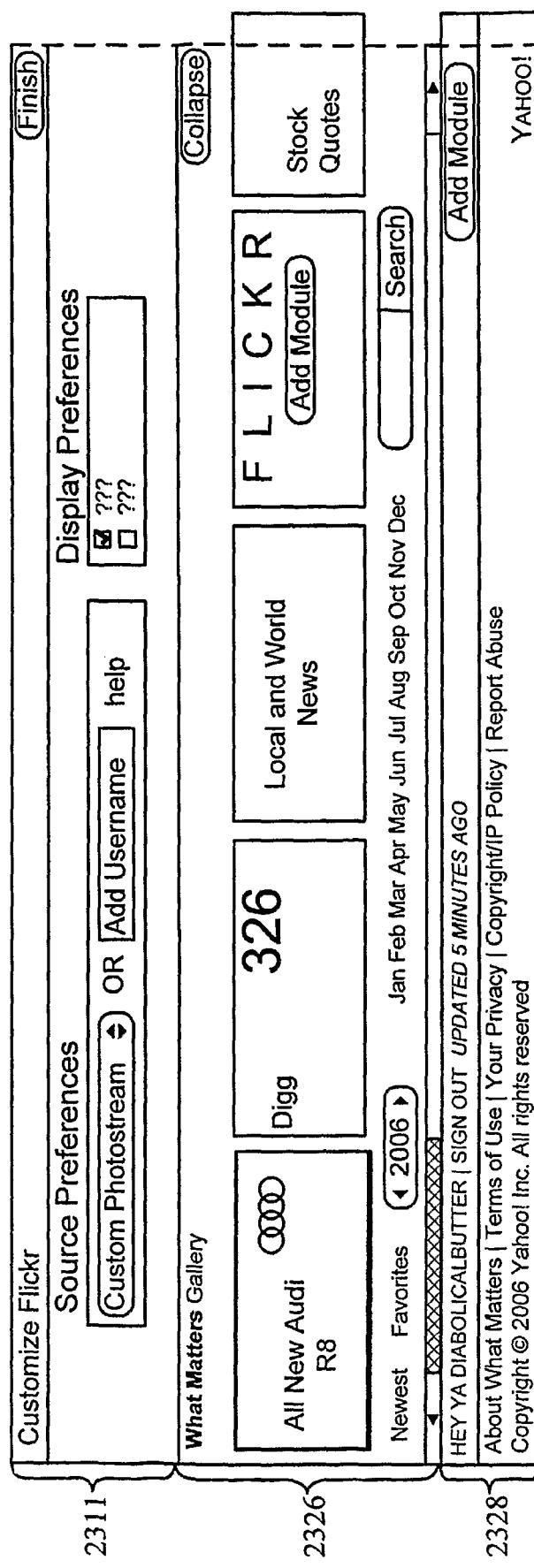
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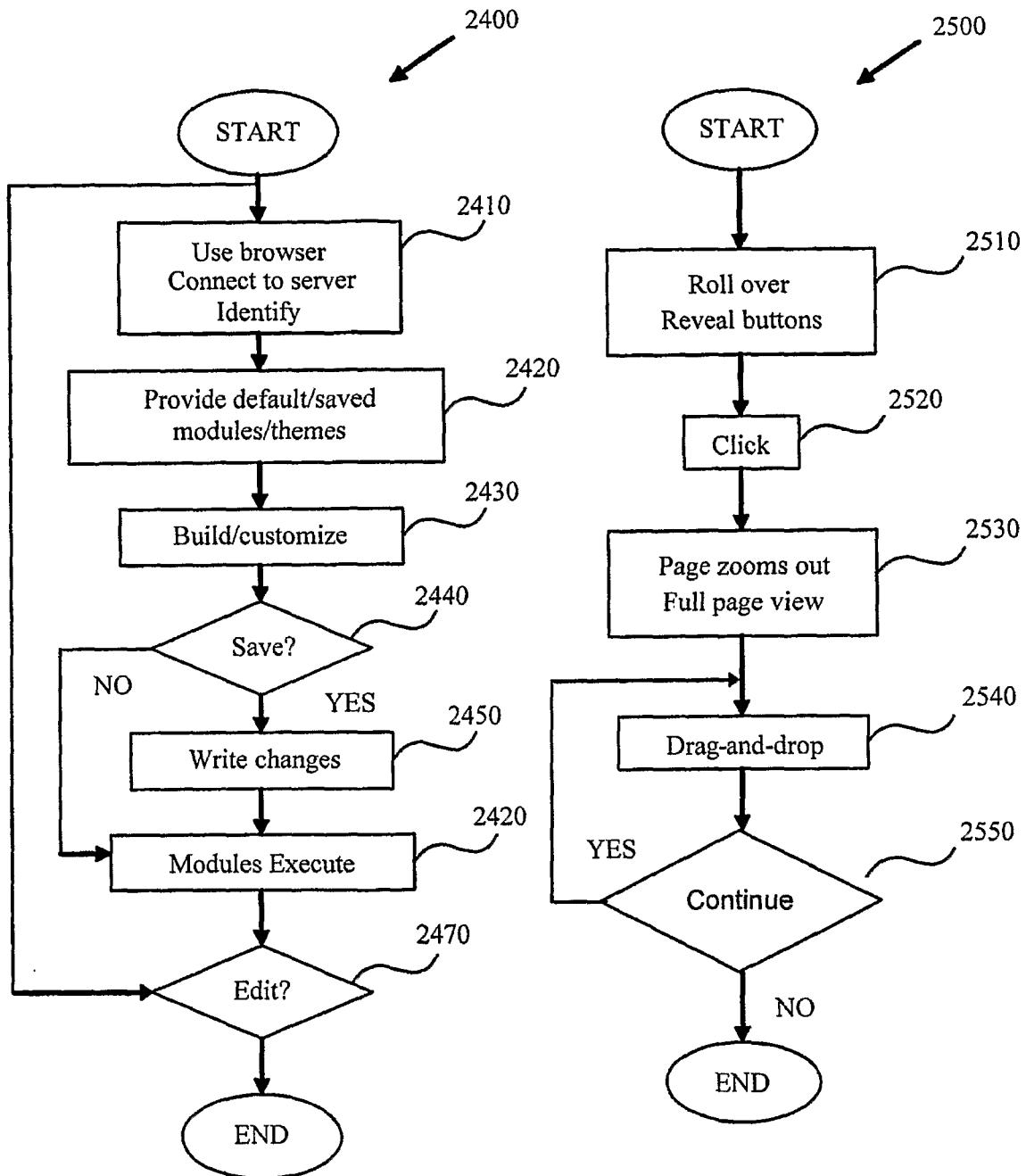
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Figure 23

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*Figure 24**Figure 25*

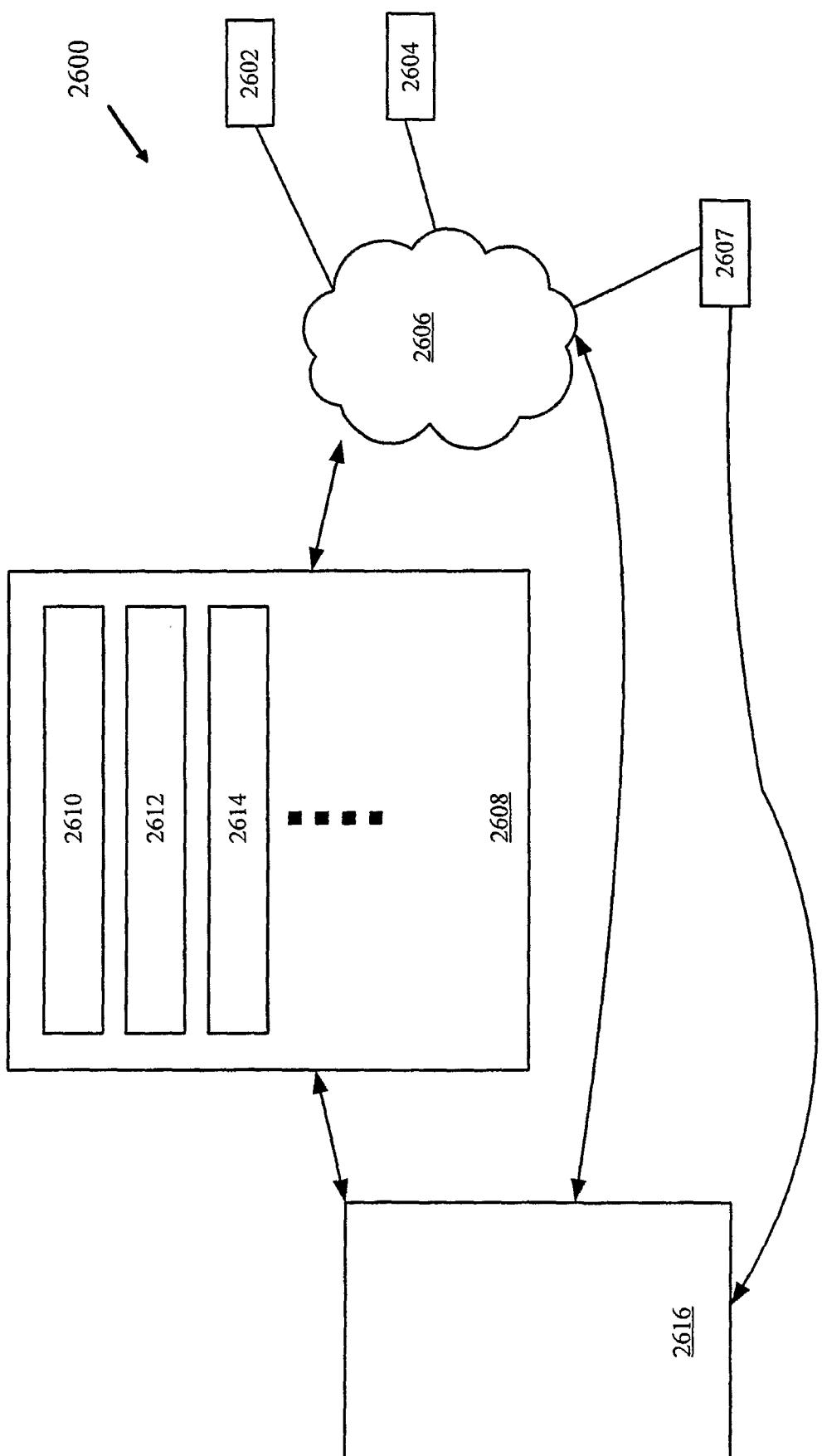


Figure 26

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/070773

A. CLASSIFICATION OF SUBJECT MATTER**G06Q 50/00(2006.01)i, G06F 3/14(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC G06F 17/30, H04L 12/58, G06F 3/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Korean Utility models and applications for Utility models since 1975
 Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 eKIPASS (KIPO internal) & keyword : "user, interface, content, browser, user interface, module, page, source, present, multi"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-1999-0084142 A (HAN, IL SURK) 6 December 1999 See the abstract; claims 1,4; figures 1,8.	1-28
A	KR 10-2000-0040497 A (KOREA TELECOM) 5 July 2000 See the abstract; claims 1-2; figure 1.	1-28
A	US 2002/0075330 A1 (ELIZABETH ROSENZWEIG) 20 June 2002 See the abstract; claims 1-2; figure 1.	1-28

 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search

18 FEBRUARY 2009 (18.02.2009)

Date of mailing of the international search report

19 FEBRUARY 2009 (19.02.2009)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2008/070773

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-1999-0084142 A	06.12.1999	<NONE>	
KR 10-2000-0040497 A	05.07.2000	<NONE>	
US 2002-075330 A1	20.06.2002	US 7020848 US 7020848 B2	28.03.2006 28.03.2006