IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TITLE OF THE INVENTION

RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

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GOOGLE EXHIBIT 1066
Google LLC v. Softoview LLC
IPR2026-00282

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RELATED APPLICATIONS

[0001] This application is a Continuation of US U.S. Non-provisional Application No. 09/878,097, filed June 8, 2001, entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," which is a Continuation-in-Part of U.S. Non-provisional Application No. 09/825,511, filed April 7, 2001, entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," the benefit of the filing date of which is claimed under 35 U.S.C. § 120. This application further claims the benefit of the filing dates of U.S. Provisional Application No. 60/211,019, filed June 12, 2000, entitled "METHOD AND SYSTEM FOR RESOLUTION INDEPENDENT DISPLAY OF HTML AND XML CONTENT" and U.S. Provisional Application No. 60/217,345, filed July 11, 2000, entitled "METHOD AND SYSTEM FOR SELECTION, RETRIEVAL, AND CONVERSION OF COMPUTER CONTENT TO VECTOR FORMAT FOR RESOLUTION INDEPENDENT DISPLAY," under 35 U.S.C. § 119(e). This application also contains subject matter related to Divisionals (of 09/878,097) U.S. Non-provisional Application Nos. 11/045,757 and 11/045,649, both entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," and filed January 28, 2005.

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BACKGROUND OF THE INVENTION

Field of the Invention

[0003] The invention relates generally to translation of Internet and World Wide Web content to scalable vector representation. More particularly, the invention relates to apparatus and methods for zoom enabling the display of content in an Internet information browser by retrieving and translating HyperText Markup Language (HTML), eXtensible Markup Language (XML), and other Internet content to vector representations of that content.

Description of the Related Art

[0004] Text only Internet information browsers began as a project at the CERN, European Organization for Nuclear Research, facility in Geneva Switzerland. From its inception the intent was to provide a mesh or web of access to data with a common user interface. Browsers moved from the academic environment when NCSA, the National Center for Supercomputing Applications at the University of Illinois in Urbana-Champaign developed Mosaic, an Internet information browser and World Wide Web client.

[0005] Internet content is stored in multiple file formats. These formats include HTML (Hyper Text Markup Language) and XML (eXtended Markup Language) as well as graphic file format GIF (Graphics Interchange Format) and JPEG (Joint Photographic Experts Group). These four file formats constitute the majority of Internet content. Font size and resizing display area for content can alter the size of the display of Internet content in existing browsers. The majority of Internet content displays as a flat single resolution with no browser support for zoom.

[0006] Much of the Internet content has been designed for display on desktop computers with a single target resolution. Even though HTML has the ability to adapt to changes in screen resolution, major Internet content providers have chosen to create their Web pages using fixed resolution structures, such as tables. This gives them the ability to control the look and feel of their Web sites. This fixed resolution approach has evolved to the point that the fixed resolution layout of Web pages has become the most common method to brand or uniquely identify Web sites. While this fixed resolution approach is good for site branding and product differentiation it does present a daunting technical problem for display of Internet content (designed for desktop computers) on small screen, low resolution, or different aspect ratio devices, such as cell phones and hand held computers.

BRIEF SUMMARY OF THE INVENTION

[0007] Techniques for supporting resolution-independent vector display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing and/or to fit any resolution or screen size. According to one aspect, novel client-side processing of markup language-based Web content is provided that translates original page layout information into scalable vector-based page layout information. The scalable vector-based page layout information is then employed to enable the Web content to be rapidly rendered, zoomed, and panned. According to another aspect, vector-based display lists are generated to provide further enhancements in rendering speed.

[0008] Other features of the present invention will be apparent from the accompanying drawings and from the detailed description that follows.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] The appended claims set forth the features of the invention with particularity. The invention, together with its advantages, may be best understood from the following detailed description taken in conjunction with the accompanying drawings of which:

[0011] Figure 1A is a block schematic diagram illustrating a first exemplary system infrastructure in accordance with the present invention in which content translation services are performed by a third-party proxy service that translates content requested from a client that is retrieved from one or more network resources into a scalable vector representation and delivers the translated content to the client;

[0012] FIGURE 1B is a block schematic diagram illustrating a second exemplary system infrastructure in which the translation of content is performed at a content provider's web site and delivered directly to the requesting client;

[0013] FIGURE 1C is a block schematic diagram illustrating a third exemplary system infrastructure in which content received from one or more network sources is translated into a scalable vector representation at the client;

[0014] FIGURE 2A is a flowchart illustrating how data is retrieved, processed and transferred in accordance with the system infrastructure of FIGURE 1A;

[0015] FIGURE 2B is a flowchart illustrating how data is retrieved, processed and transferred in accordance with the system infrastructure of FIGURE 1B;

[0016] FIGURE 2C is a flowchart illustrating how data is retrieved, processed and transferred in accordance with the system infrastructure of FIGURE 1C;

[0017] FIGURE 3 is a block schematic diagram illustrating an exemplary architecture corresponding to the proxy server of FIGURE 1A;

[0018] FIGURE 4A is a representation of an exemplary web page has displayed on a conventional browser;

[0019] FIGURE 4B is a schematic diagram illustrates various objects that are generated based on the HTML code of the web page of FIGURE 4A;

[0020] FIGURE 4C is a schematic diagram illustrating a set of vectors and bounding boxes corresponding to the objects generated in FIGURE 4B;

[0021] FIGURE 4D is a schematic diagram illustrating how various vectors and bounding boxes may be defined in accordance with the invention;

[0022] FIGURE 4E is a representation of the web page of FIGURE 4A after it has been offset and scaled in accordance with the invention;

[0023] FIGURE 4F is a schematic diagram illustrating new datum points and bounding boxes corresponding to the scaled and offset web page;

[0024] FIGURE 4G is a schematic diagram illustrating new vectors and bounding box parameters for a pair of objects in the scaled and offset web page;

[0025] FIGURE 5 is a flowchart illustrating the logic used by the invention when translating content into a scalable vector representation of that content;

[0026] FIGURE 6 is a flowchart illustrating client-side operations that are performed to create a rendered display page based on the translated content the client receives and user-input;

[0027] FIGURES 7A and 7B are representations of a nominal and a zoomed in column view of an exemplary web page as they might appear on a Palm device;

[0028] FIGURE 8A and 8B are representation of nominal and zoomed in view of an exemplary graphic image as they might appear on the Palm device;

[0029] FIGURE 9A and 9B are representations of a nominal and zoomed in view of a text portion of a web page as they might appear on the Palm device; and

[0030] FIGURE 10 illustrates an exemplary computer system that may be used for implementing various aspects of embodiments of the invention.

DETAILED DESCRIPTION OF THE INVENTION

[0031] Apparatus and methods are described for creating resolution independent vector display of Internet content to allow it to be scaled (zoomed) larger and smaller for better viewing or to fit any resolution or screen size. In addition, infrastructure and methods are provided for delivering such content to clients.

[0032] In the following description, for the purposes of explanation, numerous specific details are set forth in order to provide a thorough understanding of the present invention. It will be apparent, however, to one skilled in the art that the present invention may be practiced without some of these specific details. In other instances, well-known structures and devices are shown in block diagram form.

[0033] The present invention includes various operations, which will be described below. The operations of the present invention may be performed by hardware components or may be embodied in machine-executable instructions, which may be used to cause a general-purpose or special-purpose processor or logic circuits programmed with the instructions to perform the operations. Alternatively, the operations may be performed by a combination of hardware and software.

[0034] The present invention may be provided as a computer program product that may include one or more machine-readable mediums having stored thereon instructions, which may be used to program a computer (or other electronic devices) to perform a process according to the present invention. The machine-readable medium may include, but is not limited to, floppy diskettes, optical disks, CD-ROMs, and magneto-optical disks, ROMs, RAMs, EPROMs, EEPROMs, magnetic or optical cards, flash memory, or other type of media / machine-readable medium suitable for storing electronic instructions. Moreover, the present invention may also be downloaded as a computer program product, wherein the program may be transferred from a remote

computer (*e.g.*, a server) to a requesting computer (*e.g.*, a client) by way of data signals embodied in a carrier wave or other propagation medium via a communication link (*e.g.*, a modem or network connection). Accordingly, herein, a carrier wave shall be regarded as comprising a machine-readable medium.

[0035] Client Overview

[0036] According to one embodiment, an ultra-thin client-side viewer provides the graphics, linking, caching, and function handling capabilities necessary for extending the web to almost any platform. It is designed as a lightweight browser (micro-browser) running directly on device operating systems. In alternative embodiments, the client-side viewer may be deployed as a standard browser plug-in, or Java applet for extending browser functionality. In one embodiment, the client-side viewer attains its small size and efficiency by taking advantage of the power of SVF (Simple Vector Format) to describe almost any current web content. SVF files can be handled with a tiny fraction of the client code required by normal web browsers because current browsers must interpret a large and growing number of file types and their idiosyncrasies. SVF was originally designed to handle a superset of the most commonly used file formats in the complex world of CAD. It can accommodate not only new graphical functions, but the storage and transfer of almost any foreseeable new functional capability. SVF has been under consideration by the W3C (World Wide Web Consortium) for adoption as a standard for vector content on the World Wide Web.

[0037] By working tightly with a server-side content translator, web content and functionality can be passed seamlessly to the end user platform without any degradation in the look or feel of the output. In addition, because the resulting file graphics are handled as vectors, the end user can control real time changes in the size of text and

graphics as well as what portion of the file is viewable in the display. This "zoom and pan" capability, familiar to CAD and other vector content software users, adds dramatically to the usability of non-standard display sizes. For very small displays, real time zooming and panning allows the user to see graphics and text at sizes that make them easily readable, and then "back up" to view an entire page for context or pan in any direction for navigation. Because the client-side viewer manipulates vectors, there is no loss in quality as the display is zoomed. The graphics rendering engine within the client is so efficient that file manipulation happens in a fraction of a second. There is no perceptible wait for the user as the file is resized, or the window is repositioned. Content created for one display resolution now can be sized, real time, for any other display without degradation. Besides making small displays eminently usable, this technology extends web content into some surprising new arenas. For example, it enables normal desktop displays to be effective for individuals with visual impairment, or for content designed for 640X480 standard PC monitors to be shown without degradation on web billboards now appearing in cities like Seattle and San Francisco.

[0038] With a client of such extraordinary power packed in a tiny footprint, end user device manufacturers can free up valuable memory space for pre-fetching, caching and pre-loading content, dramatically improving performance for use in low bandwidth and portable applications. In the example of a wireless handheld device where expensive flash memory must be used instead of more cost effective bulk storage technology, the difference between consuming 10's of megabytes of flash memory with a standard browser versus running the client-side viewer described herein is dramatic.

[0039] Those "saved" megabytes of memory are now available for impressive interfaces, caching of often used content, and pre-fetching of intelligently selected linked files or pre-loading of content for targeted applications. For example, in a mapping

application, the map tiles surrounding the viewed map could be downloaded and stored while the user was working with the initial tile, enabling an experience remarkably free from the current frustrations of waiting for a new map to be transferred for even the smallest change in magnification or coverage. If the user knows ahead of time what city they will visit on a business trip, maps and additional travel information in great detail could also be pre-loaded using a high bandwidth connection at home or in the office before heading out to shop or conduct business in the city. Additionally, SVF is a more efficient way to store web content. Resulting content files are reduced in size by anywhere from 20 to 80 percent over their source. SVF is also very compressible. With target file size reduction in the range of 90%, SVF files can take up as little as $1/10^{th}$ the space of the web files in current use. This means that pre-translated content can be moved up to 10 times the rate of current web pages, and as much as 10 times as many pages, maps, stock charts, *etc.* can be stored for instant retrieval on the hand held platform as can be handled with current web technology.

[0040] When used on content created natively in SVF, additional capability can be extended to the client-side viewer.

[0041] Graphing the performance of stocks over time is only one use of SVF's ability to handle streams of data. Handling the output from financial systems, transactional systems, ERP packages, and CRM systems becomes easier and more flexible. Of course, systems integrators don't have to use these powerful capabilities to start with. If the target system provides web interfaces, these can be viewed, as designed, with no additional software to write, and no changes to the design or layout of the interface.

[0042] Server Overview

[0043] Enabling the client-side viewer to be so small and powerful is the server-side content translator. The server-side content translator rapidly translates Web content to SVF, compresses and encrypts the SVF results if desired, and transfers the vector formatted results to the client-side viewer. Alternatively, SVF files can be cached or stored in a file system for fetching and transfer at a later time. Pre-translated or cached content transfers are significantly faster as no conversion overhead is incurred, and file sizes are reduced using the more efficient SVF. Combine that with standard compression algorithms selectable for use with the client-side viewer for additional performance improvements.

[0044] During the translation process, and in the process of serving cached, pre-translated, or native SVF content, output files are "streamed" to the client-side viewer. Although this does not decrease the total time for file transfer, it can significantly improve the effective system performance for the end user. Content can be selectively streamed, with text and links coming through first, followed by graphic images and other content, for example. Should the user be accessing a link, rather than having interest in the entire file served, links can be selected early in the transfer and the next file download started immediately. In addition to streaming, the server-side content converter may also layer the content by type. This means that text can be put in one layer, links in another, GIF images in another, Javascript in another and so on. Layers can be turned on or off depending upon client capabilities, making files for less capable clients, or for users interested in a reduced functionality, higher transfer performance mode to be handled automatically.

[0045] All operational modes may be controlled through an administrative interface or accessible through a straightforward API (Application Program Interface). Furthermore, the system works with existing firewalls and within standard security

protocols. In more secure modes, the server-side content converter and the client-side viewer may operate using Public/Private key authentication and encryption.

[0046] Exemplary System Infrastructures

[0047] In the following paragraphs, a description of three exemplary system infrastructures is provided. Schematic illustrations of these system infrastructures are shown in FIGURES 1A, 1B, and 1C. It is noted that like-numbered components in these Figures perform substantially the same function. Therefore, any discussion of the functions of a component with reference to one or more of the infrastructures generally may apply to the other infrastructures as well, unless specifically noted otherwise.

[0048] A first of exemplary system infrastructure 10A for implementing the invention is shown in FIGURE 1A. Infrastructure 10A enables various clients, including wireless devices such as a cellular phone 12, a wireless-enabled PDA 14, and a wireless-enabled laptop computer 16, as well as landline computers 18, 20, and 22, to request content that is accessible via a network such as the Internet 24 to be retrieved from selected network resources, including web servers 26 and 28 and an FTP site 30, wherein the content is translated into a scalable vector representation (*e.g.*, SVF, also referred to herein as "vectorized content") through use of a proxy server 32 and sent to the requesting client. Upon being received by the client, the vectorized content is processed and rendered using a thin client to enable a user to view the content on the client device.

[0049] With reference to the flowchart of FIGURE 2A, the foregoing process is initiated by a client in a block 100, wherein the client submits a request to proxy server 32 to retrieve and convert selected content. As depicted by a transfer path 34, this comprises sending data 36, which includes content network location indicia from which the content can be retrieved and proxy server network location information by which the content

request may be delivered to over Internet 24 to proxy server 32. Typically, it will be desired to retrieve a particular web page. Accordingly, the content network location indicia will comprise a URL (uniform resource locator) for the web page. Similarly, the proxy server network location information may also comprise a URL corresponding to a network access point for the proxy server. Optionally, the location information may comprise a network IP address for one or both of the content location and the proxy server location. If the content is to be retrieved from an Internet resource, the request will typically be sent using the HyperText Transfer Protocol (HTTP) over the TCP/IP transport.

[0050] Next, in a block 102, the request is received by the proxy server and the proxy server checks its cache to see if it already has the request content in its cache. If it does, it sends this cached content back to the client. If it does not have the requested content cached, the proxy server sends out a request to retrieve the content from the network resource. For illustrative purposes, it will be assumed for the present example that the desired content comprises a web page that is stored on web server 26. Typically, when the requested content comprises a web page, the content may be retrieved using conventional web content retrieval techniques, such as that employed by various modern browser clients, including Netscape Navigator and Internet Explorer. This generally comprises providing routing information, such as the URL for the web page (URL 38) to routing services provided by Internet 24, which routes the request to an appropriate network resource (*e.g.*, web server 26), as depicted by a transfer path 40.

[0051] Typically, the URL will correspond to a web page whose content is stored by the web server in an HTML (HyperText Markup Language) document comprising HTML code and embedded text content, in addition to other optional content languages, that may contain references to other objects (*e.g.*, HTML documents and graphic image

files) stored locally to the server or stored on a remote server. For example, the HTML content corresponding to a single-frame web page is often stored in a single file, while multiple-frame web pages may comprise content that is stored in a single file or in multiple files. These files may be stored locally on the web server (*e.g.*, on one of the server's hard disks), or on a local storage device connected to the web server via a local area network (LAN), such as a network attached storage (NAS) filer. Optionally, some of the web page's content may comprise one or more documents that are stored at remote locations that may be accessed via a WAN (wide area network) or the Internet.

[0052] HTML is a standardized language that describes the layout of content on a web page, and attributes of that content. This layout and attribute information is defined by sets of tags contained in HTML code corresponding to the page. The tags define various HTML layout and display information, including tables, paragraph boundaries, graphic image positions and bounding box sizes, typeface styles, sizes, and colors, borders, and other presentation attributes. A portion or all of a web page's text content may be contained in the parent HTML document corresponding to the URL. In addition to basic HTML, web page documents may contain XML (eXtensable markup language) code, as well as scripting language code, such as javascript. However, for simplicity, any documents containing web page content other than only graphic content that are discussed herein will be referred to as HTML documents.

[0053] In addition to HTML and other markup and scripting language content, it is very common for web pages to include graphical content. In general, graphical content is usually stored in an image file or files that are external from the parent HTML document for the web page. For example, the parent HTML document may contain one or more embedded image tags that reference the location where those images are stored. As before, the graphic images may be stored locally, or may be stored on remote servers

that are accessed by the web server via a WAN, or the Internet. These files will typically comprise data stored in one of several well-known graphic formats, including bitmap files (BMP), GIF (Graphics Interchange Format) files, and JPEG (Joint Photographic Experts Group) files.

[0054] In response to receiving the request for content, web server 26 begins sending a parent HTML document 42 back to proxy server 32 in a block 104. In a block 106, the HTML content of the parent HTML document is parsed to search for references to external objects such as HTML frames and graphics. In a decision block 108, a determination is made to whether any references are found. For each reference to an external object that is found, proxy server 32 requests to have the object retrieved from an appropriate network resource (*e.g.*, a web server) in a block 110, and data corresponding to the object is transmitted back to the proxy server, as depicted by locally accessible HTML documents 44 and graphic images 46, as well as remotely accessible HTML documents 48 and graphic images 50, which may be accessed via web server 28. If the external object is a graphic image, there is no further processing of the object at this point. If the object is an HTML document, the functions provided by blocks 106 and 108 are repeated. Generally, this set of processing functions is repeated iteratively until all of the external objects are retrieved. However, as described below, there will be some instances in which certain objects will be retrieved at a later point in time. In addition to content stored on web servers that are accessed using HTTP, content may also be retrieved from various network sites using the File Transfer Protocol (FTP), such as FTP documents 51, which are accessed via FTP server 30.

[0055] In general, HTML documents and graphic files will be sent as packetized data streams using HTTP over one or more TCP/IP network connections, wherein the data streams will usually be asynchronous. Retrieval of HTML documents and graphic

files corresponding to the embedded references will usually require additional transfer time. Furthermore, graphic content oftentimes comprises significantly larger file sizes than HTML content, leading to significant transfer times in some instances. For simplicity, the transfer of the various HTML documents and graphic files for the content request are depicted by HTML documents 52 and graphic documents 54, which are transferred over a transfer path 56.

[0056] When the HTML documents and graphic content are received by proxy server 32, a scalable vector representation of the web page is generated in a block 114 by an HTML translator 58. In brief, HTML translator 58 translates HTML, XML, and cascaded style sheet (CSS) layout content into a scalable vector representation, such as SVF. Details of the HTML translation process are contained below. In addition, the graphic images are converted into a compressed bitmap format in a block 116 by a graphics translator 60. The vectorized content 62 and compressed bitmaps 64 are then streamed back to the client (*i.e.*, computer 18) in a block 118, as depicted by a transfer path 66. In one embodiment, the content portions are sent in separate streams using multiple connections. In another embodiment, the content portions are sent via a multiplexed stream using a single connection. As the vectorized content and compressed bitmap data are received by the client device, they are processed by a thin client 68 running on the client device, whereby a representation of the original web page content may be rendered on the client device's display screen at various user-selectable scaled resolutions and pan offsets in a block 120, thereby enabling a user to more clearly see an overview or details in the web page. Further details of the client side processing are provided below.

[0057] As discussed above, wireless clients may also access the vectorized network (*e.g.*, web site) content provided via proxy server 24. The majority of this

process is identical to that described above for land-line clients (*e.g.*, computers 18, 20, and 22), except for provisions required for sending data to and receiving data from wireless devices. In general, most wireless devices will access the Internet via a wireless service provider (*i.e.*, a wireless telecommunications carrier) that is particular to that wireless device. Accordingly, a portion of the transmission path to and from proxy server 24 will comprise infrastructure provided by that service provider and/or shared with other service providers. For simplicity, this infrastructure is shown as a cellular tower 70 and a service provider data center 72, although it will be understood by those skilled in the art that the connection path may comprise additional infrastructure components, including appropriate gateways and routers, that enable wireless devices to access proxy server 24.

[0058] In some implementations, there will be no special formatting/protocol services that need to be performed by proxy service 24 – from the viewpoint of the proxy service, it will be immaterial whether the client is a land-based or wireless client; the special handling provisions for wireless devices will be handled entirely by the service providers infrastructure transparently at both ends of the communications path. In other instances, it may be desired or necessary to reformat the data content delivered to the wireless device at the proxy service. This will generally be dependent on the particular wireless protocol used, and what services are provided by the service provider for the wireless client.

[0059] Currently, in the United States, wireless clients generally access Internet 24 by using the Wireless Application Protocol (WAP). In Japan, the most popular access means is NTT DoCoMo's i-Mode wireless protocol. In addition to these wireless standards, new standards are anticipated to be in force in the near future, including NTT DoCoMo's FOMA (Freedom of Mobile Multimedia Access), which is

transported over W-CDMA (Wideband Code Division Multiple Access), and CDMA-2000. For the purposes of the invention herein, it will be understood that those skilled in the mobile telecommunications arts will be knowledgeable about any particular format and/or transport protocol requirements that pertain to the particular protocol that is to be used.

[0060] A second exemplary system infrastructure 10B for implementing the invention is shown in FIGURE 1B. As will be readily recognized, much of infrastructure 10B is similar to infrastructure 10A; however, rather than have a separate proxy server perform the proxy functions (retrieve and translate content), these functions are performed on machines operated by the web site in infrastructure 10B.

[0061] The logic implemented by the invention when providing content to a client using infrastructure 10B is illustrated in the flowchart of FIGURE 2B, wherein the process begins in a block 101 in which the client sends a content request 39 directly to the network site (*e.g.*, web server 26), as depicted by a transfer path 41. In a block 103, HTTP negotiations are performed to determine the format the content is to be delivered in. For example, the request may contain indicia identifying the type of content requested, such as an SVF MIME type (*e.g.*, image/vnd.svf). This is to inform the web server that the request is for specially-formatted content rather than conventional content. The server first checks to see if it already has cached the requested content. If it has, it sends the content to the requesting client; otherwise, it retrieves the parent HTML document in a block 107. It then performs processing steps in blocks 107, 109, and 111 to retrieve content referenced through embedded tags in a manner substantially similar to that discussed above with reference to respective blocks 106, 108, and 110. The primary difference in this instance is that the web server does not receive requests from or send documents to a proxy server – rather, the content is retrieved and processed at the web

server, wherein the retrieved content may be stored local to the web server or retrieved from a remote server in a manner similar to that described above.

[0062] As before, the retrieved HTML documents are translated into scalable vector representations by HTML translator 58 in a block 114, while the graphic images are translated into a compressed bitmap format by image translator 60 in a block 116, as depicted by vectorized content 62 and bitmap content 64. The vectorized content and bitmap content are then streamed from the web server to the client in a block 119, as depicted by a transfer path 67. Upon arriving at the client, the vectorized content and bitmap content are processed, scaled, and rendered on the client in a block 120.

[0063] A third exemplary system infrastructure 10C for implementing the invention is shown in FIGURE 1C. In this configuration, the proxy functions are performed at the client. As shown by a block 113 in FIGURE 2C, the process for providing vectorized content to a client in accordance with infrastructure 10C begins in a block 113, in which the client sends a content request 37 to a network site, such as web server 26, via Internet 24. In response, the network site retrieves the parent HTML document and sends it to the requesting client in a block 115. In a manner similar to that discussed above with reference to blocks 106, 108, and 110 of FIGURE 1A, the client first parses the parent HTML document searching for embedded references to external objects and retrieves these objects, whereupon the embedded reference search is performed on the newly retrieved document until all of the content corresponding to the original content request has been retrieved. This content is depicted by HTML documents 52 and image files 54, which are sent from the network site to the client via a transfer path 69. At this point, the client performs translations on the HTML content and the graphic image content that are substantially similar to that performed by the proxy server in FIGURE 1A or at the web site in FIGURE 1B, as provided by blocks 114 and

116. The vectorized and image content is then processed and scaled by thin client 68 in a block 120, as depicted by device output 71.

[0064] Attention now is focused on the functionality provided by proxy server 24 in system infrastructure 10A of FIGURE 1. Fundamentally, the proxy server functions as a proxy. It accepts requests for content from client devices as full URLs using standard HTTP mechanisms carried over a multiplexed TCP connection. Standard HTTP content negotiations features specify the formats in which content is to be delivered (SVF, bitmap, and possibly others, which can be handed off to cooperating client-side display software). As described in further details below, in some embodiments the proxy server appears for the client as a normal proxy (that is, the client knows it is retrieving content via the proxy), while in other embodiments the proxy is transparent to the client.

[0065] The proxy server responds to client content requests by delivering content in one of the requested formats, by retrieving the content in an appropriate format from its cache, or from an upstream content source (again using standard HTTP content negotiation features), or by translating upstream content from a supported original format to SVF or the client bitmap format.

[0066] Requests from the server installation to its cache and from the cache to upstream content sources are made in HTTP carried over TCP using simple straightforward Web content requests. For example, requests from clients to the proxy server comprise HTTP proxy requests (*e.g.*, "GET http://www/xyz.com/some_page.html HTTP/1.0…") carried over TCP or over a lightweight multiplexing protocol over TCP. The multiplexing protocol allows the server to push image thumbnails to the client before the SVF stream is available, as well as offering a channel for control and status information, more simultaneous channels than the client operating system may support, and a mechanism for prioritizing information flow from server to client under loose client

control. In addition to HTTP requests, the proxy server architecture supports other user-level protocols, such as FTP and Gopher.

[0067] Details of some of the primary components of the proxy server architecture are shown in FIGURE 3. Internally, the proxy server comprises a suite of coordinated processes connecting to upstream content through an HTTP cache 74. In one embodiment all functions except caching are performed in a single process, wherein multiple threads are used to effect asynchronous I/O. Separate processes communicated via persistent multiplexed connections carried over the most efficient reliable transport available (*e.g.*, Unix sockets over single processor and symmetric multiprocessor (SMP) computers; TCP sockets between separate computers). All processes are capable of servicing multiple requests simultaneously. No process maintains client state outside the context of a single request, so all components can be repeated and load balanced across multiple CPU's of an SMP computer or across separate computers on a LAN.

[0068] The various content translators used by the proxy server accept (via HTTP PUT) or request (driven by HTTP proxy GET/POST) content in supported, but client-unsupported, formats; and return (via HTTP PUT or GET/POST response) one or more representations of that content in a client-supported format. In the embodiments illustrated in FIGURE 1A-C, two translators are used: HTML translator 58 and image translator 60. Future content types may be accommodated by new translators, by extending existing translators to cover the new content types, or by extending the client's capabilities. Standard HTTP content negotiation mechanisms are used to inform the proxy server of the client's capabilities and expectations on each request.

[0069] Managers at the proxy server coordinate the operations of other components. Two managers are presently defined; a client manager 73 that handles client proxy requests, and a request manager 75 that handles unproxied HTTP requests from

other services. The managers accept requests, attempt to service them from HTTP cache 74, and drive HTML translator 58 and image translator 60 when content does not match the clients' requirements. Managers also handle translator requests for inline content (*e.g.*, image dimensions for page layout), and push translated content into HTTP cache 74. Additionally, the client manager coordinates delivery of primary and inlined content, and provides process and status information to the clients.

[0070] As discussed above, HTML translator 58 creates a scalable vector representation of the original HTML content of a requested web page. In order to better explain how translation of HTML content is performed, one embodiment of a translation process is described below as applied to an exemplary web page. In addition, details of conventional web page client and server-side processing are provided so as to clarify how web content is laid out during a pre-rendering process on the client.

[0071] FIGURE 4 shows a representation of a web page 210 served from an exemplary stock brokerage Internet web site as it would appear when rendered on a modern Internet browser, such as Microsoft's Internet Explorer or Netscape's Navigator. Web page 210 is exemplary of many web pages that implement frames, and includes two adjacent frames 212 and 214. A logo graphic object 216A is displayed at the top of frame 212, which additionally includes a "MARKETS" text header 218A, an "INVESTMENTS" text header 220A, and a plurality of links with overlaying graphic objects, including a "DOW" link 222A, a "NASDAQ" link 224A, an "OPTIONS" link 226A, a "CHARTS" link 228A, a "MUTUAL FUNDS" link 230A, a "IRA, 401K OPTIONS" link 232A, and a "TAX INFORMATION" link 234.

[0072] A horizontal group of links 236 is disposed at the top of frame 214, and includes a "QUOTES" link 238A, a "HOT PICKS" link 240A, a "CALENDARS" link 242A, and a "NEWS" link 244A. An advertisement banner 246A is displayed just below

the horizontal group of links and just above a "NEWS SPARKS MARKET" headline 248A. Frame 214 also includes a pair of graphic image objects, including a DOW chart 250A and a NASDAQ chart 252A. A set of user input objects is disposed adjacent to DOW chart 250A within a graphic object 254A, including an "ACCOUNT #" input box 255A, an "ACCESS CODE" input box 256A, and a "LOGIN" button 257A. In addition to the foregoing objects, frame 214 also includes text objects 258A and 260A.

[0073] An HTML listing corresponding to web page 210 is presented below as LISTING 1. Note that LISTING 1 sometimes refers to object descriptions and link paths rather than the text or path location of actual objects for simplicity, and that other elements commonly found in HTML pages, such as META entries, are omitted for clarity.

LISTING 1

```
1.  <html>
2.  <head><title>"MARKET HOME"</title></head>
3.
4.  <body bgcolor="#FFFFFF" link="0033CC" vlink="0033CC">
5.
6.  <frameset cols="25%,75% frameborder=0 border=0>
7.  <frame>
8.  <align=left><align=top>
9.  <img src="/directory path/logo.gif" align = left border="0" height="80" width="100">
10.  <br><br>
11.  <t3>TEXT HEADER #1 align=left</t3><br>
12.
13.  <table width="90%" border=0 cellspacing=10 cellpadding=0 bgcolor="#000000"
14.  align=center>
15.      <tr>
16.              <a href="URL or path for LINK #5" <img src="/directory
17.              path/GRAPHIC#2" height="50" width ="150></a>
18.      <tr>
19.              <a href="URL or path for LINK #6" <img src="/directory
20.              path/GRAPHIC#3" height="50" width ="150></a>
21.      <tr>
22.              <a href="URL or path for LINK #7" <img src="/directory
23.              path/GRAPHIC#4" height="50" width ="150></a>
24.      <tr>
25.              <a href="URL or path for LINK #8" <img src="/directory
26.              path/GRAPHIC#5" height="50" width ="150></a>
27.  </table>
28.      <br>
```

```
29.                 <t3>TEXT HEADER #1 align=left</t3>
30.     <br>
31.  <table width=”90%” border=0 cellspacing=10 cellpadding=0 bgcolor="#000000"
32.   align=center>
33.     <tr>
34.                 <a href=”URL or path for LINK #9” <img src=”/directory
35.                 path/GRAPHIC#6” height=”50” width =”150></a>
36.     <tr>
37.                 <a href=”URL or path for LINK #10” <img src=”/directory
38.                 path/GRAPHIC#7” height=”50” width =”150></a>
39.     <tr>
40.                 <a href=”URL or path for LINK #11” <img src=”/directory
41.                 path/GRAPHIC#8” height=”50” width =”150></a>
42.
43.  </table>
44.  </frame>
45.
46.  <frame>
47.
48.  <table>
49.     <tr>
50.                 <table width="100%" border=0 cellspacing=15 cellpadding=0
51.                  bgcolor="#000000" align=center>
52.         <tr>
53.                 <td><a href=”URL or path for link#1”> alt=”QUOTES”</a>
54.                 <td><a href=”URL or path for link#2”> alt=”HOT PICKS”</a>
55.                 <td><a href=”URL or path for link#3> alt=”CALENDERS”</a>
56.                 <td><a href=”URL or path for link#4>alt=”NEWS”</a>
57.  </table><br>
58.      <br>
59.                 <img src=”URL for GRAPHIC #9” align=center
60.                  border=”0” height=”80” width=”325”>
61.     <br><t1>HEADLINE TEXT>/t1>
62.     <table>
63.         <Colgroup span=”2”>
64.                 <Col width = “400” align=“center”>
65.                 <Col width = “200” align=”center”>
66.                 <tr><td>
67.                         <img src=”/directory path/GRAPHIC #10” align = center
68.                         border=“0” height=”180” width=”350”>
69.                 <td>
70.     /*   INPUT FOR ACCOUNT NUMBER AND ACCESS CODE   */
71.      <SCRIPT LANGUAGE =”Javascript”>
72.     <!---
73.                 [Javascript variable declarations]
74.                 [Javascript functions to enable login]  --->
75.     </SCRIPT>
76.        <table>
77.          <td>
78.                 <img src=”/directory path/GRAPHIC #11” align = center>
79.                 <table width=”150” height=”25”>
80.                 <td>
81.                 <font size=-2 face="arial,helvetica,verdana">Account #</font>
```

```
82.                <tr><input type=text name="USERID" maxlength=9 size=20>
83.                <tr><font size=-2 face="arial, helvetica">Access Code:</font>
84.                <tr><input type=password name="PASSWORD" maxlength=10 size=20
85.                        onKeyDown="SuppressEnterBell(event)"
86                         onKeyPress="SuppressEnterBell(event)"
87                         onKeyUp="SubmitOnEnter(event)">
88.                <br> 
89.                <br><input type="button" value="Login"
90.                 OnClick="ProcessForm()">  <input type="reset">
91.                <br> 
92.                </td>
93.                </table>
94.          </table>
95.     <tr>
96.                <img src="/directory path/GRAPHIC #12" border="0
97.                 height="200" width="350">
98.     <tr>
99.                        <p>TEXT FOR TEXT OBJECT #1</p><br>
100.                       <p>TEXT FOR TEXT OBJECT #2</p>
101.       </table>
102.      </frame>
103.  </frameset>
104.  </html>
```

[0074] Web page documents comprise HTML code that is parsed, interpreted, and rendered by a browser. An HTML document comprises a plurality of HTML "markup" elements (tags) with corresponding attributes, that are used to describe the layout and formatting of various objects, including plain text and graphic objects, embedded between tag pairs. Exemplary elements include text tags (*e.g.*, for bolding text), links (*e.g.*,), formatting (*e.g.*, for creating a new paragraph, graphical (*e.g.*, <img src="name">), wherein "name" defines an absolute or relative location at where an image is stored, tables (*e.g.*, <table></table>) creates a table, and forms (*e.g.*, <form></form> creates all forms).

[0075] As of Netscape Navigator 3.0 (and other later browsers), web pages could include frames. When using frames, the display page is divided into multiple framed areas. Framing enables a single display page to include source code from several HTML documents (one for each frame) or optionally, enables a single document to include more

complicated grouping of contents whereby different content groups are contained in separate frames. Frames are commonly found on the web pages at sites that display a great deal of text and graphical content, such as MSN.com, ESPN.com, and USAToday.com.

[0076] With reference to the flowchart of FIGURE 5, the process for translating the HTML content into a scalable vector representation proceeds as follows. The process is initiated when the proxy server receives the HTML corresponding to the parent document (and frame documents, if appropriate), whereupon a pre-rendering parsing of the HTML is performed to determine where to place the various objects on the display page in a block 150. For example, elements such as tables, column definitions, graphic images, paragraphs and line breaks are identified. If frames are included, each frame is examined in the sequential order it appears in the HTML document, or the order in which the HTML documents corresponding to the frames in a frameset are downloaded to the browser. During further processing, the actual objects are rendered in their respective positions. Some of these objects are rendered almost immediately, such as plain text, while other objects, such as graphic objects, must first be retrieved prior to being fully-rendered. With respect to tables, there are some instances in which the all of the objects corresponding to the cells in the table must be retrieved prior to rendering any of the table, while a well-designed table can be rendered incrementally. For example, by using Column grouping, the format of the corresponding table can be quickly determined by the browser. In some instances, one or more bitmaps may actually need to be fetched before the page layout can be determined.

[0077] Next, in a block 152, the content is separated into objects based on logical groupings of content portions and a page layout is built using bounding boxes that are produced for each object. As the primary HTML document is parsed, logical groupings

of content will emerge. For instance, text content contained within paragraph tags   forms a logical grouping of text content. In essence, a logical grouping means the content should appear together as a logical group, such as within a substantially rectangular outline, in the rendered page. Other logical groupings include frames, table content, row content, single line entries such as headlines and headers, and user-interface objects, as well as graphic layout objects, such as separator bars, and graphic images. In addition to logically grouping content into objects, a "bounding box" is defined for each object. In general, the bounding box defines an outlined shape within which the content (text or graphic image) will appear. In most instances, the bounding box will be substantially rectangular in shape. However, bounding boxes comprising more complex shapes may also be produced.

[0078] In further detail, the following explains how objects corresponding to graphic images are produced. In HTML, objects comprising graphic content are identified by an <img src="/local directory path/graphic image file" (for a local graphic image) or "URL" (for a remote graphic image)> or <object> or other tags. In the foregoing tag, local graphic images are typically stored on the same server as the web page, or another computer that is local to the site's server, and generally are located through a local directory path (absolute or relative to the location of the present page) that points to the graphic image file. Remote images are those images that are stored on servers at sites that are remote to the web server. For example, with reference to LISTING 1, when the parser encounters line 9, the browser identifies that data comprising a graphic image corresponding to logo graphic object 1 will be arriving (or may have already been received), and the displayed image is to have a height of 80 pixels and a width of 100 pixels. The location of each object on a display page will be dependent on previous HTML layout elements, such as tables, paragraphs, line breaks, and other

graphic objects. The size and location of the other graphic objects (*i.e.*, graphic objects #2-12) on the page are determined in a similar manner. The HTML code for these objects are shown in lines 16, 19, 22, 25, 34, 37, 40, 59, 67, 78 and 96, respectively. As identified in the HTML code, data corresponding to graphic objects #9 (advertisement banner 46A) is forwarded to the browser from an external site (as indicated by the URL to GRAPHIC #9), while graphic objects 1-8 and 10-12 are sent from the web site the parent HTML document is sent from.

[0079] In a similar manner, the foregoing technique is applied to the HTML code in the primary document to identify other types of objects as well. In addition to parsing the primary HTML document, similar processing is performed on referenced documents, such as documents that include frame content that is defined and stored separate from the primary HTML document.

[0080] A representation of the results of the functions performed in block 152 are shown in FIGURE 4B. In the Figure, objects corresponding to the original content of FIGURE 4A are shown with an appended "B" that is added to each object's root reference number, wherein the root reference number for an object is that same as the logically grouped content in FIGURE 4A that it corresponds to, *e.g.*, an object 248B is generated for "NEWS SPARKS MARKET" headline 248A, *etc.*

[0081] Next, in a block 154, the page layout is defined based on the bounding boxes. In actuality, generation of the page layout information is performed in conjunction with defining the boundary boxes for the objects, wherein the location of a given object is based on the location of other related (*e.g.*, if within a table) or non-related objects corresponding to HTML content that have been previously parsed. For example, the location of a given paragraph will depend on the other content for the page that are listed prior to the definition for the paragraph in the primary HTML document or referenced

document, if applicable. As the HTML content of the primary and any referenced HTML documents are parsed, the page layout is generated based on the various HTML tags and the content embedded between tag pairs and/or referenced by a tag pair statement (*e.g.*, graphic images).

[0082] As will be recognized by those skilled in the art, the functions performed in blocks 150, 152, and 154 are commonly performed by conventional browsers during a pre-rendering process. In some browsers, these functions are performed by the Mozilla rendering engine, which comprises open source software that is readily available for use by developers. At present, the software for the Mozilla rendering engine may be accessed via the Internet at www.mozilla.org. Accordingly, in one embodiment, the present invention uses core functionality provided by the Mozilla rendering engine source code to perform the functions of block 150, 152, and 154.

[0083] At this point, the present invention deviates substantially from the prior art by using the various object layout data generated during the pre-rendering process to generate a scalable vector representation of the original page content. First, in a block 156, a datum point is defined for the page and the bounding box for each object. For example, as shown in FIGURE 4C, a rendered page datum 262 is defined to be coincident with the upper left hand corner of the display frame of the rendered page for the web page. Generally, any point on the page may be used as the page datum – the only requirement is that the page datum that is selected is used consistently throughout the process. The use of the upper left hand corner of the display frame is advantageous since the location of the first object encountered in the HTML code for a page is located relative to this corner.

[0084] In general, the datum points for each object may also be located any place on the object, as long as the object datum points are used in a predictable manner. For

example, as depicted in FIGURE 4C, various datum points for corresponding objects are defined to be coincident with the upper left hand corner of the bounding box for that object, wherein the object's datum point shares the root reference number of the object with an appended "C."

[0085] Once the page's datum point and an object's datum point are known, a vector between these points is generated for each object in a block 158. With reference to FIGURE 4D, in one embodiment, wherein the page datum point corresponds to the upper left and corner of the display frame and is assigned an XY value 266 of 0,0, the vector for a given object may be stored as the XY value of the datum point of that object relative to 0,0, such as a value of 150, 225 (ref. num. 268) for a vector 250D pointing to an object datum 250C, and a value of 150, 425 (ref. num. 270) for a vector 252D pointing to an object datum 252C. In another embodiment, each vector may be stored as XY data relative to a 0,0 datum point corresponding to the upper left hand corner of the frame the object belongs to. For example, a vector 250D' from a frame datum 214D to object datum 250C is stored as 20, 200 (ref. num. 268'), while a vector 252D from frame datum 214D to object datum 252C is stored as 20, 425. In this embodiment, offset information for each frame relative to a known datum will also be stored, as depicted by a vector 214D.

[0086] The scalable vector representation is completed in a block 160, wherein a reference is created for each object that includes or links an object's content and attributes, such as object type (*e.g.*, text, image), object typeface, and boundary box parameters, to the object's vector. For example, object 250B is a graphic image having a vector 250D and a bounding box that is 180 pixels high and 350 pixels wide, while object 252B is a graphic image having a vector 252D and a bounding box that includes a height of 200 pixels and a width of 350 pixels. . This enables client-side operations to be

performed that only initially consider the vectors, wherein if it is determined that a vector's endpoint (and/or the bounding box corresponding to the object the vector points to) would appear off of a display, there is no need to retrieve the content and attribute data linked to the vector. This concept is explained in further detail in the following section.

[0087] It is noted that a portion of the display content produced on a client device will never contain any rendered content, as this portion is reserved for the browser's user interface. In WINDOWS™ environments, this portion will include the browser's window frame, as well as the pulldown and icon menus provided in the browser's user interface, which are depicted by a box 264 in the Figures herein.

[0088] Client-Side Software and Processing

[0089] As discussed above, the present invention supports a wide variety of clients, including land-based clients and wireless clients. Each client requires some client-side software that enables the scalable vector content data provided to it to be rendered at a user-selectable scale factor and offset on the client's display, such as a monitor or built-in LCD screen.

[0090] By enabling original content from a web site to be displaced in such a resolution-independent manner, users will be able to view content in a manner that did not previously exist, greatly enhancing the user experience. For example, in some implementations the client may be a personal computer (PC). Using a least-common denominator approach, many web pages are designed for a smaller resolution (for example 640x480 pixels, a minimum resolution commonly supported by nearly all PC's, including legacy PC's) than the resolution provided by the video output capabilities available with many of today's PC's, such as 1024x768 pixels, 1280x1024 pixels, and even 1600x1200 pixels. As a result, when these web pages are displayed on a high-

resolution display, they occupy only a portion of the display, making portions of the pages, especially those portions containing small text, difficult to read. By enabling users to selectively magnify the entire page, these design flaws are easily overcome. Alternatively, the client may be a small device, such as a hand held computer or a cell phone, which has a smaller display resolution than common Web pages are designed for. As explained below, through use of the invention's scalable vector representation and client-side processing, users are enabled to view the entire content of billions of existing Web pages using hand-held devices in a simple and reasonable way.

[0091] In one embodiment, the client software may be a plug-in to a Web browser, such as Netscape Navigator or Microsoft Internet Explorer. Such a plug-in might have the browser download the data and display it in a sub-window of the browser. Alternatively, the client software may be a Java applet running in a browser. As another option, the client software may be a stand-alone program that interfaces with the proxy server or proxy software directly. The client software may bypass the proxy when requesting information that won't be translated to vectors, such as bitmaps.

[0092] With reference to FIGURE 6, client-side processing proceeds in the following manner. In a block 160, the vector representation data (*i.e.*, vectorized HTML content and compressed bitmap content) for the web page is gathered at the client. Typically, this data will be stored in a cache at the client as it is being received, and the client simply retrieved the data from the cache. In a block 162, a display list of vectors is built. This process is well known in the CAD arts, and is enabling rapid zooming of vector-based objects. In a block 164, user selectable scale and offset (pan) values are determined. Based on various user interactions with the user-interface of the client, the user is enabled to control the zoom (size) and offset of the rendered page. For example, suppose the user provides zoom and offset inputs to produce a rendered page 210E, as

shown in FIGURE 4E. In this rendered page, the original origin is now off of the screen (the page image is shifted upward and toward the left – see FIGURE 4F), and the view has been scaled approximately 1.3 times.

[0093] Next, in a block 166, the vectors and boundary boxes are processed based on the scale and offset, and a bounding box defining the limits of the display content is determined. The results of this step are shown in FIGURE 4F, while FIGURE 4G shows specific details one how the vectors and bounding boxes corresponding to image objects 250B and 250B (now 250B' and 252B', respectively) are processed. Logically, there are generally two ways to scale and offset the rendered content. In one embodiment, vectors and bounding boxes are mapped to a virtual display area in memory that has much greater resolution (*e.g.*, 100,000x100,000 pixels) than any real display, and a virtual display limit bounding box is scaled and moved around over the virtual display area. Accordingly, during subsequent processing described below, objects falling within the display bounding box are rendered by reducing the scaling of those objects in the virtual display to how the objects will appear on the client device display relative to the virtual display bounding box. In the alternate, a fixed reference frame corresponding to the display resolution of the client device screen is maintained, wherein all vectors and bounding boxes are scaled and offset relative to the fixed reference frame. Each scheme has its advantages and disadvantages. One advantage of the second method is that the display bounding box is always maintained to have a size that matches the resolution of the content display area on the client device.

[0094] As shown in FIGURE 4G, respective offsets in X and Y, ($-\Delta X$ and $-\Delta Y$ in the Figure) are applied to the starting point of each of the vectors. The vectors are then scaled by a scale factor "SF." The results of the new vectors are depicted by vectors 250D'' and 252D''. This produces a new datum for each object's bounding box

that is relative to rendered page datum 262, which remains fixed. As discussed above, only a portion of the display screen will actually be used to display content (as defined by a display limit bounding box 266 in this embodiment), while other portions of the screen, including box 264, will comprise a generally fixed-size user interface. Accordingly, rendered page datum 262 is not located at the upper left hand corner of the display area, although it possibly could be located at this point when either the current user interface is inactive (*i.e.*, the display portion of the user interface is temporary disabled) or the user interface is contained in other portions of the display.

[0095] This foregoing process establishes a starting point (the new datum) for where the content in each object's bounding box will be rendered. At this point, each object's bounding box is then drawn from its new datum using the scaling factor. For example, in the original web page 210D (FIGURE 4D), bounding box 250B had an X-axes datum of 150 pixels, a Y-axis datum of 225 pixels, and a height and width of 180x350 pixels. In contrast, after being offset and scaled, bounding box 250B' has an X-axis datum of 150 * SF - ΔX, a Y-axis datum of 225 * SF - ΔY, and a height and width of 180 * SFx350*SF.

[0096] Returning to the flowchart of FIGURE 6, once the vectors and bounding boxes are offset and scaled, content corresponding to objects having at least a portion of their bounding boxes falling within the display limit bounding box is retrieved from the client device's display list in a block 168. For examples, as shown in FIGURE 4F, content corresponding to all of the objects except for those falling entirely outside of display limit bounding box 266 (objects 216, 238, 240, 242 and 244) is retrieved from the display list. That content is then scaled in a block 170. For image content, this comprises decompressing and scaling the compressed bitmaps corresponding to those images. For text content, this comprises scaling the font (*i.e.*, typeface) that the text content portions

of the web page are written in the parent HTML document and any referenced documents. There are various techniques for typeface scaling that may be implemented here, depending on the available resources provided by the operating system of the client device. For example, for WINDOWS™ operating systems, many TRUETYPE™ fonts are available, which use a common scalable definition for each font, enabling those fonts to be scaled to just about any size. In other cases, such as current PDA (*e.g.*, Palm Pilots) operating systems, there is no existing feature that supports scaling fonts. As a result, bitmapped fonts of different font sizes and styles may be used. In addition to scaling image and text content, other types of content, such as separator lines and borders may also be scaled by block 170.

[0097] The process is completed in a block 172, wherein those portions of the scaled content falling within the display limit bounding box are rendered on the client device's display.

[0098] As discussed above, it is foreseen that the invention will be used with client devices having small, low resolution displays, such as PDAs and pocket PCs. Examples of various views of an exemplary web pages obtained from the YAHOO™ web site are shown in FIGURES 7A-B, 8A-B and 9A-B. For instance, FIGURE 7A represents how the YAHOO™ home page might appear on a Palm IIIc color PDA.

[0099] In addition to directly scaling and offsetting content, the client user-interface software for PDA's provides additional functionality. For instance, a user may select to view a column (results represented in FIGURE 7B by tapping that column with a stylus, a shown in FIGURE 7A. Similarly, the user may select to zoom in on an image by tapping the image with the stylus, as shown in FIGURES 8A and 8B, or select to view a paragraph in an article by tapping on the paragraph, as shown in FIGURES 9A and 9B. It is noted that in some instances, the display of the paragraph may be reformatted to fit the

characteristics of the display, rather than following the original format in the zoom-out view.

[00100] It is further noted that that different scaling factors can be applied to the X and Y axis so as to change the aspect ratio of the display. For example, a Web page may be designed to be displayed on a computer having a resolution of 800x600 pixels, or a 4X to 3Y aspect ratio. In this case, the display corresponds to a "landscape" layout, wherein there are more pixels along the X axis than along the Y axis. Conversely, many handheld devices display images having a "portrait" layout, wherein there are more pixels along the Y axis than the X axis. By enabling different scaling factors to be applied to the X and Y axes, the present invention enables the aspect ratio of a rendered display image to be adjusted to better fit the aspect ratio of the client device.

[00101] An Exemplary Computer Architecture

[00102] An exemplary machine in the form of a computer system 500 in which features of the present invention may be implemented will now be described with reference to FIGURE 10. Computer system 500 may represent a workstation, host, server, print server, or printer controller. Computer system 500 comprises a bus or other communication means 501 for communicating information, and a processing means such as processor 502 coupled with bus 501 for processing information. Computer system 500 further comprises a random access memory (RAM) or other dynamic storage device 504 (referred to as main memory), coupled to bus 501 for storing information and instructions to be executed by processor 502. Main memory 504 also may be used for storing temporary variables or other intermediate information during execution of instructions by processor 502. Computer system 500 also comprises a read only memory (ROM) and/or other static storage device 506 coupled to bus 501 for storing static information and instructions for processor 502.

[00103] A data storage device 507 such as a magnetic disk or optical disc and its corresponding drive may also be coupled to bus 501 for storing information and instructions. Computer system 500 can also be coupled via bus 501 to a display device 521, such as a cathode ray tube (CRT) or Liquid Crystal Display (LCD), for displaying information to an end user. Typically, an alphanumeric input device 522, including alphanumeric and other keys, may be coupled to bus 501 for communicating information and/or command selections to processor 502. Another type of user input device is cursor control 523, such as a mouse, a trackball, or cursor direction keys for communicating direction information and command selections to processor 502 and for controlling cursor movement on display 521.

[00104] A communication device 525 is also coupled to bus 501. Depending upon the particular presentation environment implementation, the communication device 525 may include a modem, a network interface card, or other well-known interface devices, such as those used for coupling to Ethernet, token ring, or other types of physical attachment for purposes of providing a communication link to support a local or wide area network, for example. In any event, in this manner, the computer system 500 may be coupled to a number of clients and/or servers via a conventional network infrastructure, such as a company's Intranet and/or the Internet, for example.

[00105] Importantly, the present invention is not limited to having all of the routines located on the same computer system. Rather, individual objects, program elements, or portions thereof may be spread over a distributed network of computer systems. Additionally, it is appreciated that a lesser or more equipped computer system than the example described above may be desirable for certain implementations. Therefore, the configuration of computer system 500 will vary from implementation to implementation depending upon numerous factors, such as price constraints, performance

requirements, and/or other circumstances. For example, according to one embodiment of the present invention, a cell phone or a hand held computer may comprise only a processor or a micro controller and a memory, such as a micro code ROM or RAM, for storing static or dynamically loaded instructions and/or data.

[00106] In the foregoing specification, the invention has been described with reference to specific embodiments thereof. It will, however, be evident that various modifications and changes may be made thereto without departing from the broader spirit and scope of the invention. The specification and drawings are, accordingly, to be regarded in an illustrative rather than a restrictive sense.

CLAIMS

What is claimed is:

1. A method comprising:

in response to a request to access a Web page made via a client,

retrieving markup language-based Web content associated with the Web page defining an original page layout of content on the Web page;

translating, via the client, the markup language-based Web content to produce scalable vector-based page layout information; and

employing the scalable vector-based page layout information and/or data derived thereform to,

render at least a portion of the Web page on a display using a first scale factor; and

re-render the Web page in response to associated user inputs to enable a user to iteratively zoom in and out a display of the Web page.

2. The method of claim 1, wherein re-rendering the display of the Web page is performed in real-time.

3. The method of claim 1, wherein the client comprises a browser.

4. The method of claim 3, wherein the browser is configured to run on at least one of a desktop computer, workstation, and laptop computer.

5. The method of claim 3, wherein the browser is configured to run on a wireless handheld device.

6. The method of claim 1, wherein the client comprises a mobile device having a display on which the Web page is displayed when rendered.

7. The method of claim 1, wherein the markup language-based Web content includes at least one hyperlink, the method further comprising:

enabling the user to select the hyperlink; and, in response thereto,

retrieving and translating the markup language-based Web content associated with the hyperlink to produce additional scalable vector-based page layout information; and

employing the additional scalable vector-based page layout information and/or data derived therefrom to render the display.

8. The method of claim 1, further comprising:

parsing markup language code to determine the original page layout of display content within the Web page, wherein the original page layout defines a layout location for a plurality of objects, including text objects, graphic layout objects, graphic objects and/or image objects included in the Web page;

defining a primary datum corresponding to the original page layout; and,

for each object,

defining an object datum corresponding to the layout location for the object;

generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to its corresponding vector.

9. The method of claim 8, further comprising translating at least one graphic or image object from an original format into a scalable format.

10. The method of claim 8, further comprising storing attribute information pertaining to each text object, said attribute information including a color and typefont for each text object.

11. The method of claim 8, wherein the markup language-based Web content comprises a Web page including content that is stored on at least one Internet site in one or more markup language documents that include markup language code defining the original page layout and attributes of the Web page.

12. The method of claim 1, further comprising enabling the Web content to be displayed at different resolutions by scaling the scalable vector-based layout information to determine appropriate locations for the Web content within a scaled Web page..

13. The method of claim 1, further comprising:

enabling a user of the client to select an area of the display to zoom in on by defining a bounding box over the area via the client; and

in response thereto,

re-rendering the display such that content in the bounding box is scaled to be rendered substantially across at least one of a width and a height of the display.

14. The method of claim 1, further comprising:

scaling the scalable vector-based layout information and/or data derived therefrom using applicable scale factors to re-render the Web content in response to associated user inputs to enable the user to iteratively zoom in and out a display of the Web page.

15. The method of claim 1, further comprising enabling a user to pan a display of the Web content in response to a corresponding user input.

16. The method of claim 15, further comprising enabling the display of the Web content to be panned in real-time.

17. The method of claim 1, wherein the page layout of the Web page is defined to have an original aspect ratio, and wherein the scalable vector-based page layout information or data derived thereform is scaled to render a display having a different aspect ratio.

18. The method of claim 1, further comprising enabling a user to view a column of the Web content at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that content corresponding to the selected column is displayed across the display.

19. The method of claim 18, wherein the user input comprises tapping the column.

20. The method of claim 18, wherein the content of the column is reformatted to fit characteristics of the display when the display is re-rendered.

21. The method of claim 1, wherein the Web content includes at least one image, the method further comprising enabling a user to view an image at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that the image is displayed substantially across at least one of a width and height of the display.

22. The method of claim 21, wherein the user input comprises tapping the image.

23. The method of claim 1, further comprising enabling a user to view a paragraph of the Web content at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that content corresponding to the selected paragraph is displayed substantially across the display.

24. The method of claim 23, wherein the user input comprises tapping the paragraph.

25. The method of claim 23, wherein the content of the paragraph is reformatted to fit characteristics of the display when the display is re-rendered.

26. The method of claim 1, wherein the Web page includes text, layout attributes, and images, the method further comprising:

receiving content corresponding to the text and layout attributes via a first connection; and

receiving content corresponding to at least one image via a second connection.

27. The method of claim 1, further comprising:

generating a display list of vectors derived, at least in part, via use of the vector-based page layout information; and

employing the display list to re-render the display of the Web page.

28. The method of claim 1, further comprising:

parsing markup language code corresponding to the received Web content to determine the original page layout of the content on the Web page;

logically grouping selected content into objects based on relative locations of the content in the original page layout;

defining a primary datum corresponding to the original page layout; and,

for each object,

defining an object datum corresponding to a layout location datum for the object's associated display content;

generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to its corresponding vector.

29. The method of claim 28 further comprising:

generating a vector-based object bounding box for each object, the object bounding box representing a portion of a rendered display page occupied by the object's associated group of content.

30. The method of claim 29, further comprising:

mapping the object vectors and associated vector-based bounding boxes to a virtual display in memory.

31. The method of claim 30, further comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan corresponding to a rendered display of the Web content desired by a user;

determining a virtual display bounding box for the virtual display associated with the first scale factor and offset;

identifying object bounding boxes having at least a portion falling within the virtual display bounding box; and,

for each of such object bounding boxes,

retrieving content associated with that object bounding box; and

applying an applicable scale factor to the content to render the display.

32. The method of claim 31, wherein the virtual display has a much greater resolution than the display.

33. The method of claim 31, wherein the virtual display is associated with a fixed reference frame, and the virtual display bounding box is maintained to have a size matching the resolution of the content display area defined for the display.

34. The method of claim 31, wherein the content includes text content, the method further comprising scaling a scalable font to render the text content.

35. The method of claim 31, wherein the content includes text content, the method further comprising:

determining an applicable font size based on an applicable scale factor; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content.

36. The method of claim 1, further comprising reformatting a text object so as to fit the text object on the display when it is rendered.

37. The method of claim 1, wherein the original format of the Web page defines a height and width for the Web page, the method further comprising:

determining an applicable scale factor to display at least one of the width and height of the Web page substantially across the display; and

employing the scale factor that is determined as the first scale factor.

38. The method of claim 1, wherein the Web page includes one or more images, and in the rendered displays at least one image from among the one or more images is scaled.

39. An apparatus, comprising:

a processor,

communications means operatively coupled to the processor, to enable the device to be linked to a network via which Web content may be accessed;

a display; and

storage means, operatively coupled to the processor, in which a plurality of instructions are stored that when executed by the processor enable the apparatus to perform operations including,

in response to a request to access a Web page made via a user of the apparatus,

retrieving markup language-based Web content associated with the Web page defining an original page layout of content on the Web page;

translating, via the client, the markup language-based Web content to produce scalable vector-based page layout information; and

employing the scalable vector-based page layout information and/or data derived thereform to,

render at least a portion of the Web page on a display using a first scale factor; and

re-render the Web page in response to associated user inputs to enable a user to iteratively zoom in and out a display of the Web page.

40. The apparatus of claim 39, wherein zooming the display of the Web content is enabled to be performed in real-time.

41. The apparatus of claim 39, wherein the apparatus comprises a mobile device and the communication device supports wireless communication with the network.

42 The apparatus of claim 41, wherein the mobile device comprises a mobile phone.

43. The apparatus of claim 39, wherein the apparatus comprises one of a desktop computer, workstation, and laptop computer.

44. The apparatus of claim 39, wherein the markup language-based Web content includes at least one hyperlink, and wherein execution of the instructions performs further operations comprising:

enabling the user to select the hyperlink; and, in response thereto,

retrieving and translating the markup language-based Web content associated with the hyperlink to produce additional scalable vector-based page layout information; and

employing the additional scalable vector-based page layout information and/or data derived therefrom to render the display.

45. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

parsing markup language code to determine the original page layout of display content within the Web page, wherein the original page layout defines a layout location for a plurality of objects, including text objects, graphic layout objects, graphic objects and/or image objects included in the Web page;

defining a primary datum corresponding to the original page layout; and,

for each object,

defining an object datum corresponding to the layout location for the object;

generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to its corresponding vector.

46. The apparatus of claim 45, wherein execution of the instructions performs further operations comprising translating at least one graphic or image object from an original format into a scalable format.

47. The apparatus of claim 45, wherein execution of the instructions performs further operations comprising storing attribute information pertaining to each text object, said attribute information including a color and typefont for each text object.

48. The apparatus of claim 39, wherein the markup language-based Web content comprises a Web page including content that is stored on at least one Internet site in a plurality of markup language documents that include markup language code defining the original page layout and attributes of the Web page.

49. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling the Web content to be displayed at different resolutions by scaling the scalable vector-based layout information to determine appropriate locations for the Web content within a scaled Web page.

50. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

enabling a user of the client to select an area of the display to zoom in on by defining a bounding box over the area via the client; and

in response thereto,

re-rendering the display such that content in the bounding box is scaled to be rendered substantially across at least one of a width and a height of the display.

51. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising scaling the scalable vector-based layout information and/or data derived therefrom using applicable scale factors to re-render the Web content in response to associated user inputs to enable the user to iteratively zoom in and out a display of the Web page.

52. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to pan a display of the Web content in response to a corresponding user input.

53. The apparatus of claim 52, wherein execution of the instructions performs further operations comprising enabling the display of the Web content to be panned in real-time.

54. The apparatus of claim 39, wherein the page layout of the Web page is defined to have an original aspect ratio, and wherein the scalable vector-based page layout information or data derived thereform is scaled to render a display having a different aspect ratio.

55. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to view a column of the Web content at a higher resolution than a current resolution via an associated user input, wherein in response to

the user input, the display is re-rendered such that content corresponding to the selected column is displayed across the display.

56. The apparatus of claim 55, wherein the user input comprises tapping the column.

57. The apparatus of claim 55, wherein the content of the column is reformatted to fit characteristics of the display when the display is re-rendered.

58. The apparatus of claim 39, wherein the Web content includes at least one image, and wherein execution of the instructions performs further operations comprising enabling a user to view an image at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that the image is displayed substantially across at least one of a width and height the display.

59. The apparatus of claim 58, wherein the user input comprises tapping the image.

60. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to view a paragraph of the Web content at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that content corresponding to the selected paragraph is displayed across the display.

61. The apparatus of claim 60, wherein the user input comprises tapping the paragraph.

62. The apparatus of claim 60, wherein the content of the paragraph is reformatted to fit characteristics of the display when the display is re-rendered.

63. The apparatus of claim 39, wherein the Web page includes text, layout attributes, and images, and wherein execution of the instructions performs further operations comprising:

receiving content corresponding to the text and layout attributes via a first connection; and

receiving content corresponding to at least one image via a second connection.

64. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

generating a display list derived, at least in part, via use of the vector-based page layout information; and

employing the display list to re-render the display of the Web page.

65. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

parsing markup language code corresponding to the received Web content to determine the original page layout of the content on the Web page;

logically grouping selected content into objects based on relative locations of the content in the original page layout;

defining a primary datum corresponding to the original page layout; and,

for each object,

defining an object datum corresponding to a layout location datum for the object's associated display content;

generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to its corresponding vector.

66. The apparatus of claim 65 wherein execution of the instructions performs further operations comprising:

generating a vector-based object bounding box for each object, the bounding box representing a portion of a rendered display page occupied by the object's associated group of content.

67. The apparatus of claim 65, wherein execution of the instructions performs further operations comprising:

mapping the object vectors and associated vector-based object bounding boxes to a virtual display in memory.

68. The apparatus of claim 67, wherein execution of the instructions performs further operations comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan corresponding to a rendered display of the Web content desired by a user;

determining a virtual display bounding box for the virtual display associated with the first scale factor and offset;

identifying object bounding boxes having at least a portion falling within the virtual display bounding box; and,

for each of such object bounding boxes,

retrieving content associated with that object bounding box; and

applying an applicable scale factor to the content to render the display.

69. The apparatus of claim 68, wherein the virtual display has a much greater resolution than the display.

70. The apparatus of claim 68, wherein the virtual display is associated with a fixed reference frame, and the virtual display bounding box is maintained to have a size matching the resolution of the content display area defined for the display.

71. The apparatus of claim 68, wherein the content includes text content, and wherein execution of the instructions performs further operations comprising scaling a scalable font to render the text content.

72. The apparatus of claim 68, wherein the content includes text content, and wherein execution of the instructions performs further operations comprising:

determining an applicable font size based on an applicable scale factor; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content.

73. The apparatus of claim 39, wherein execution of the instructions performs further operations comprising reformatting a text object so as to fit the text object on the display when it is rendered.

74. The apparatus of claim 39, wherein the original format of the Web page defines a height and width for the Web page, and wherein execution of the instructions performs further operations comprising:

determining an applicable scale factor to display at least one of the width and height of the Web page substantially across the display; and

employing the scale factor that is determined as the first scale factor.

75. The apparatus of claim 39, wherein the Web page includes text content and graphic layout objects, and in the rendered displays the text content and graphic layout objects are scaled.

76. The apparatus of claim 39, wherein the Web page includes one or more images, and in the rendered displays at least one image from among the one or more images is scaled.

77. The apparatus of claim 39, wherein the display comprises a touch-sensitive display via which user inputs may be received.

78. The apparatus of claim 39, wherein the storage means comprises a non-volatile memory.

79. A machine-readable medium having stored thereon a plurality of instructions configured to be executed by a machine having a communications device to access Web content via a network and having a display, wherein execution of the instructions performs operations comprising:

in response to a request to access a Web page made via a user of the machine,

retrieving markup language-based Web content associated with the Web page defining an original page layout of content on the Web page;

translating, via the client, the markup language-based Web content to produce scalable vector-based page layout information; and

employing the scalable vector-based page layout information and/or data derived thereform to,

render at least a portion of the Web page on a display using a first scale factor; and

re-render the Web page in response to associated user inputs to enable a user to iteratively zoom in and out a display of the Web page.

80. The machine-readable medium of claim 79, wherein zooming the display of the Web content is enabled to be performed in real-time.

81. The machine-readable medium of claim 79, wherein the machine comprises a mobile device and the communication device supports wireless communication with the network.

82. The machine-readable medium of claim 79, wherein the machine comprises one of a desktop computer, workstation, and laptop computer.

83. The machine-readable medium of claim 79, wherein the markup language-based Web content includes at least one hyperlink, and wherein execution of the instructions performs further operations comprising:

enabling the user to select the hyperlink; and, in response thereto,

retrieving and translating the markup language-based Web content associated with the hyperlink to produce additional scalable vector-based page layout information; and

employing the additional scalable vector-based page layout information and/or data derived therefrom to render the display.

84. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

parsing markup language code to determine the original page layout of display content within the Web page, wherein the original page layout defines a layout location

for a plurality of objects, including text objects, graphic layout objects, graphic objects and/or image objects included in the Web page;

defining a primary datum corresponding to the original page layout; and,

for each object,

defining an object datum corresponding to the layout location for the object;

generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to its corresponding vector.

85. The machine-readable medium of claim 84, wherein execution of the instructions performs further operations comprising at least one graphic or image object from an original format into a scalable format.

86. The machine-readable medium of claim 84, wherein execution of the instructions performs further operations comprising storing attribute information pertaining to each text object, said attribute information including a color and typefont for each text object.

87. The machine-readable medium of claim 79, wherein the markup language-based Web content comprises a Web page including content that is stored on at least one Internet site in a plurality of markup language documents that include markup language code defining the original page layout and attributes of the Web page.

88. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling the Web content to be displayed at different resolutions by scaling the scalable vector-based layout information to determine appropriate locations for the Web content within a scaled Web page.

89. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

enabling a user of the client to select an area of the display to zoom in on by defining a bounding box over the area via the client; and

in response thereto,

re-rendering the display such that content in the bounding box is scaled to be rendered substantially across at least one of a width and a height of the display.

90. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising scaling the scalable vector-based layout information and/or data derived therefrom using applicable scale factors to re-render the Web content in response to associated user inputs to enable the user to iteratively zoom in and out a display of the Web page.

91. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to pan a display of the Web content in response to a corresponding user input.

92. The machine-readable medium of claim 91, wherein execution of the instructions performs further operations comprising enabling the display of the Web content to be panned in real-time.

93. The machine-readable medium of claim 79, wherein the page layout of the Web page is defined to have an original aspect ratio, and wherein the scalable vector-based page layout information or data derived thereform is scaled to render a display having a different aspect ratio.

94. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to view a column of the Web content at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that content corresponding to the selected column is displayed across the display.

95. The machine-readable medium of claim 94, wherein the user input comprises tapping the column.

96. The machine-readable medium of claim 94, wherein the content of the column is reformatted to fit characteristics of the display when the display is re-rendered.

97. The machine-readable medium of claim 79, wherein the Web content includes at least one image, and wherein execution of the instructions performs further operations comprising enabling a user to view an image at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that the image is displayed substantially across at least one of a width and height of the display.

98. The machine-readable medium of claim 97, wherein the user input comprises tapping the image.

99. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to view a paragraph of the Web content at a higher resolution than a current resolution via an associated user input, wherein in response to the user input, the display is re-rendered such that content corresponding to the selected paragraph is displayed across the display.

100. The machine-readable medium of claim 99, wherein the user input comprises tapping the paragraph.

101. The machine-readable medium of claim 99, wherein the content of the paragraph is reformatted to fit characteristics of the display when the display is re-rendered.

102. The machine-readable medium of claim 79, wherein the Web page includes text, layout attributes, and images, and wherein execution of the instructions performs further operations comprising:

receiving content corresponding to the text and layout attributes via a first connection; and

receiving content corresponding to at least one image via a second connection.

103. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

generating a display list derived, at least in part, via use of the vector-based page layout information; and

employing the display list to re-render the display of the Web page.

104. The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

parsing markup language code corresponding to the received Web content to determine the original page layout of the content on the Web page;

logically grouping selected content into objects based on relative locations of the content in the original page layout;

defining a primary datum corresponding to the original page layout; and,

for each object,

defining an object datum corresponding to a layout location datum for the object's associated display content;

generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to its corresponding vector.

105. The machine-readable medium of claim 104 wherein execution of the instructions performs further operations comprising:

generating a vector-based object bounding box for each object, the object bounding box representing a portion of a rendered display page occupied by the object's associated group of content.

106. The machine-readable medium of claim 104, wherein execution of the instructions performs further operations comprising:

mapping the object vectors and associated object bounding boxes to a virtual display in memory.

107. The machine-readable medium of claim 106, wherein execution of the instructions performs further operations comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan corresponding to a rendered display of the Web content desired by a user;

determining a virtual display bounding box for the virtual display associated with the first scale factor and offset;

identifying object bounding boxes having at least a portion falling within the virtual display bounding box; and,

for each of such object bounding boxes,

retrieving content associated with that object bounding box; and

applying an applicable scale factor to the content to render the display.

108. The machine-readable medium of claim 107, wherein the virtual display has a much greater resolution than the display.

109. The machine-readable medium of claim 107, wherein the virtual display is associated with a fixed reference frame, and the virtual display bounding box is maintained to have a size matching the resolution of the content display area defined for the display.

110. The machine-readable medium of claim 107, wherein the content includes text content, and wherein execution of the instructions performs further operations comprising scaling a scalable font to render the text content.

111. The machine-readable medium of claim 107, wherein the content includes text content, and wherein execution of the instructions performs further operations comprising:

determining an applicable font size based on an applicable scale factor; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content.

112. The machine-readable medium of claim 79, wherein at least a portion of the instructions comprise Java-based instructions configured to be executed on a Java virtual machine.

113. The machine-readable medium of claim 79, wherein the plurality of instructions are embodied in a browser.

114. The machine-readable medium of claim 113, wherein the browser is configured to run on a machine comprising a mobile device.

115. The machine-readable medium of claim 79, wherein at least a portion of the instructions are embodied as a browser plug-in.

116. The machine-readable medium of claim 79, wherein the original format of the Web page defines a height and width for the Web page, and wherein execution of the instructions performs further operations comprising:

determining an applicable scale factor to display at least one of the width and height of the Web page substantially across the display; and

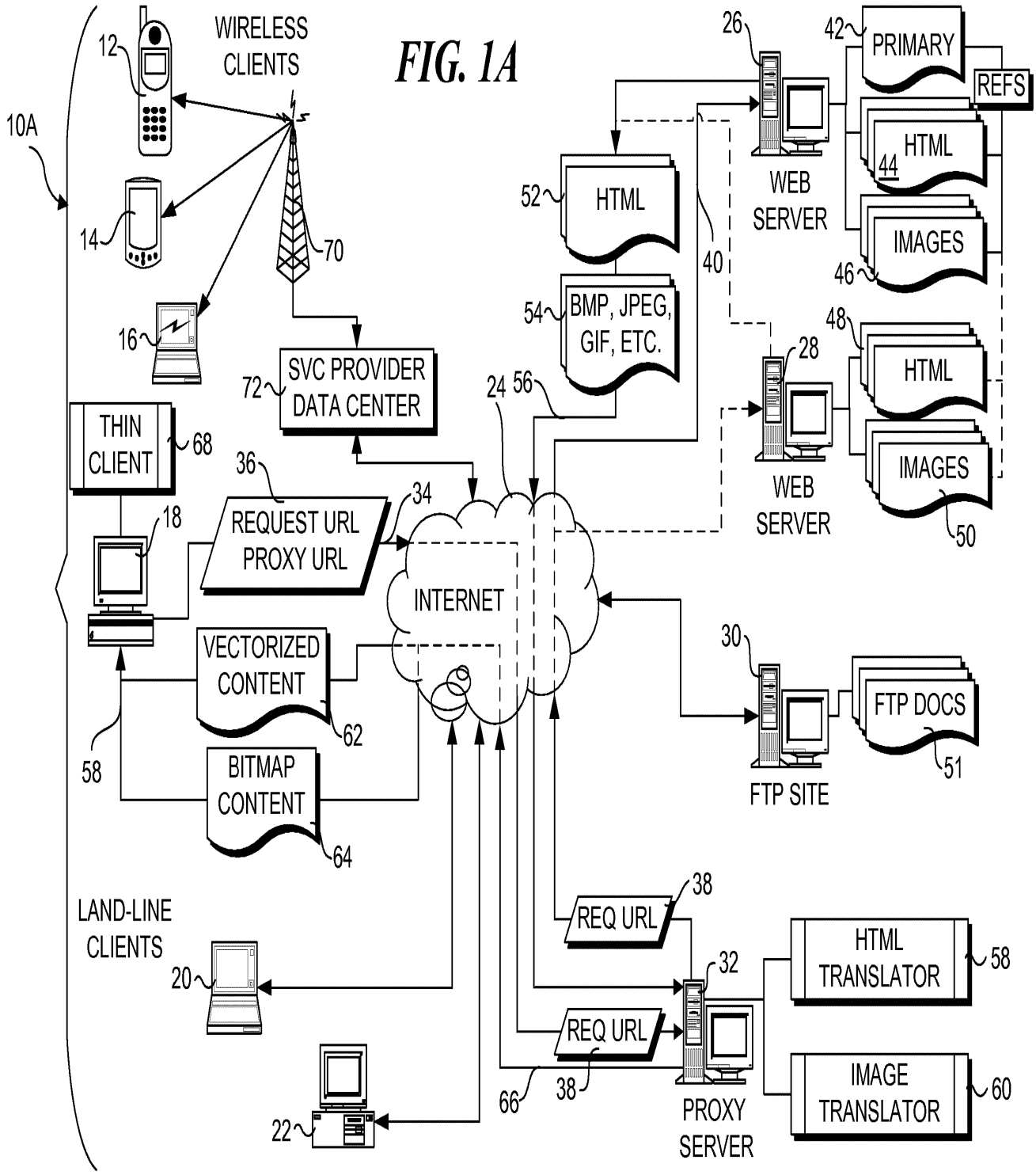
employing the scale factor that is determined as the first scale factor.

117. The machine-readable medium of claim 79, wherein the Web page includes text content and graphic layout objects, and in the rendered displays the text content and graphic layout objects are scaled.

118. The machine-readable medium of claim 79, wherein the Web page includes one or more images, and in the rendered displays at least one image from among the one or more images is scaled.

ABSTRACT OF THE DISCLOSURE

Apparatus, methods and software for creating resolution-independent vector display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing and/or to fit any resolution or screen size. According to one aspect, novel client-side processing of markup language-based Web content is provided that translates original page layout information into scalable vector-based page layout information. The scalable vector-based page layout information is then employed to enable the Web content to be rapidly rendered, zoomed, and panned. According to another aspect, vector-based display lists are generated to provide further enhancements in rendering speed.


FIG. 1A
WIRELESS CLIENTS
12
10A
14
16
70
72
SVC PROVIDER DATA CENTER
THIN CLIENT
68
36
REQUEST URL PROXY URL
34
18
INTERNET
VECTORIZED CONTENT
62
58
BITMAP CONTENT
64
LAND-LINE CLIENTS
20
22
26
WEB SERVER
42
PRIMARY
REFS
HTML
44
IMAGES
46
52
HTML
54
BMP, JPEG, GIF, ETC.
40
24
56
28
WEB SERVER
48
HTML
IMAGES
50
30
FTP SITE
FTP DOCS
51
REQ URL
38
REQ URL
38
66
32
PROXY SERVER
HTML TRANSLATOR
58
IMAGE TRANSLATOR
60

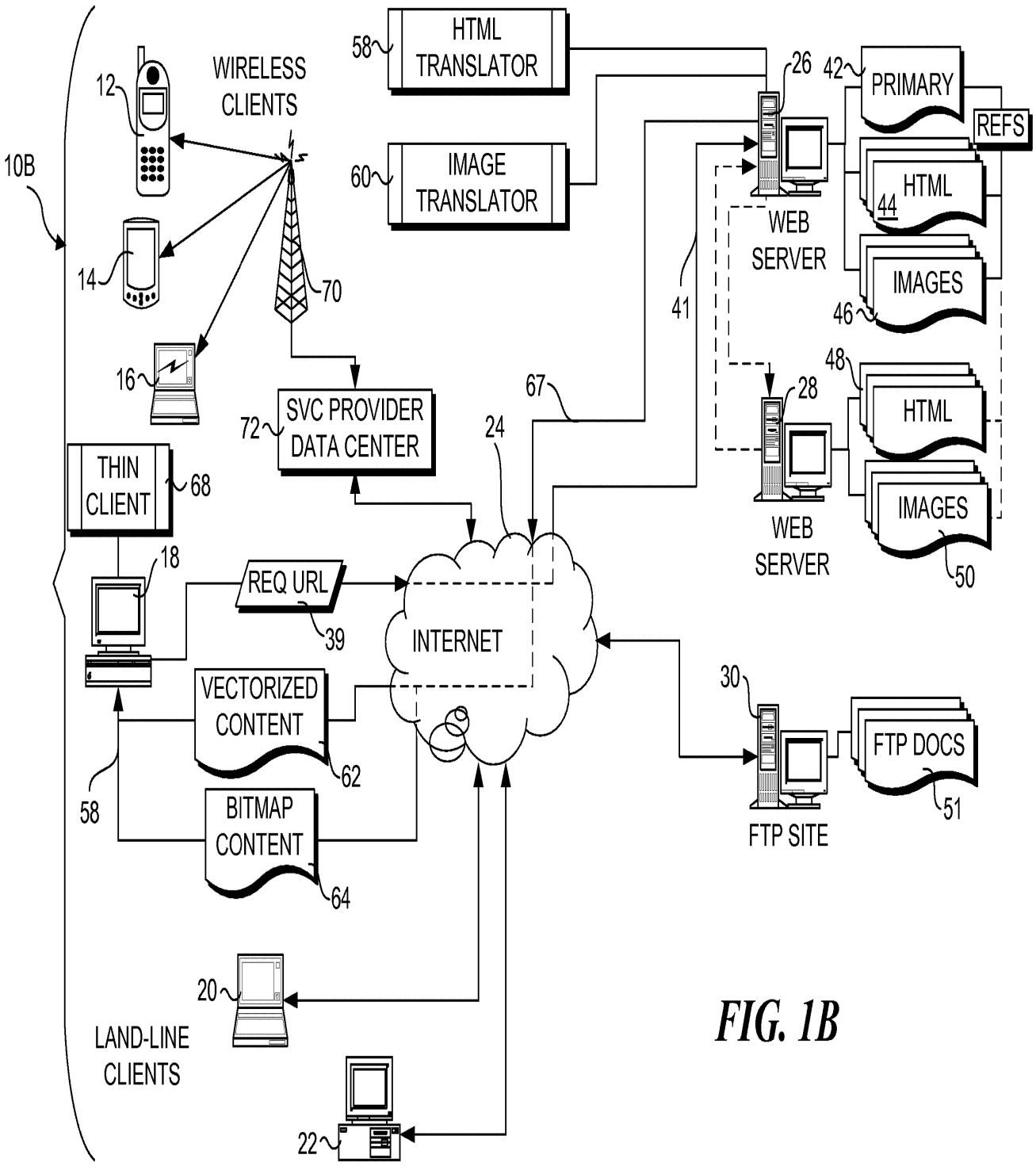

10B
WIRELESS CLIENTS
12
14
16
70
58
HTML TRANSLATOR
60
IMAGE TRANSLATOR
26
WEB SERVER
42
PRIMARY
REFS
HTML
44
IMAGES
46
41
48
HTML
28
WEB SERVER
IMAGES
50
67
24
72
SVC PROVIDER DATA CENTER
THIN CLIENT
68
18
REQ URL
39
INTERNET
VECTORIZED CONTENT
62
58
BITMAP CONTENT
64
30
FTP DOCS
51
FTP SITE
20
LAND-LINE CLIENTS
22

FIG. 1B

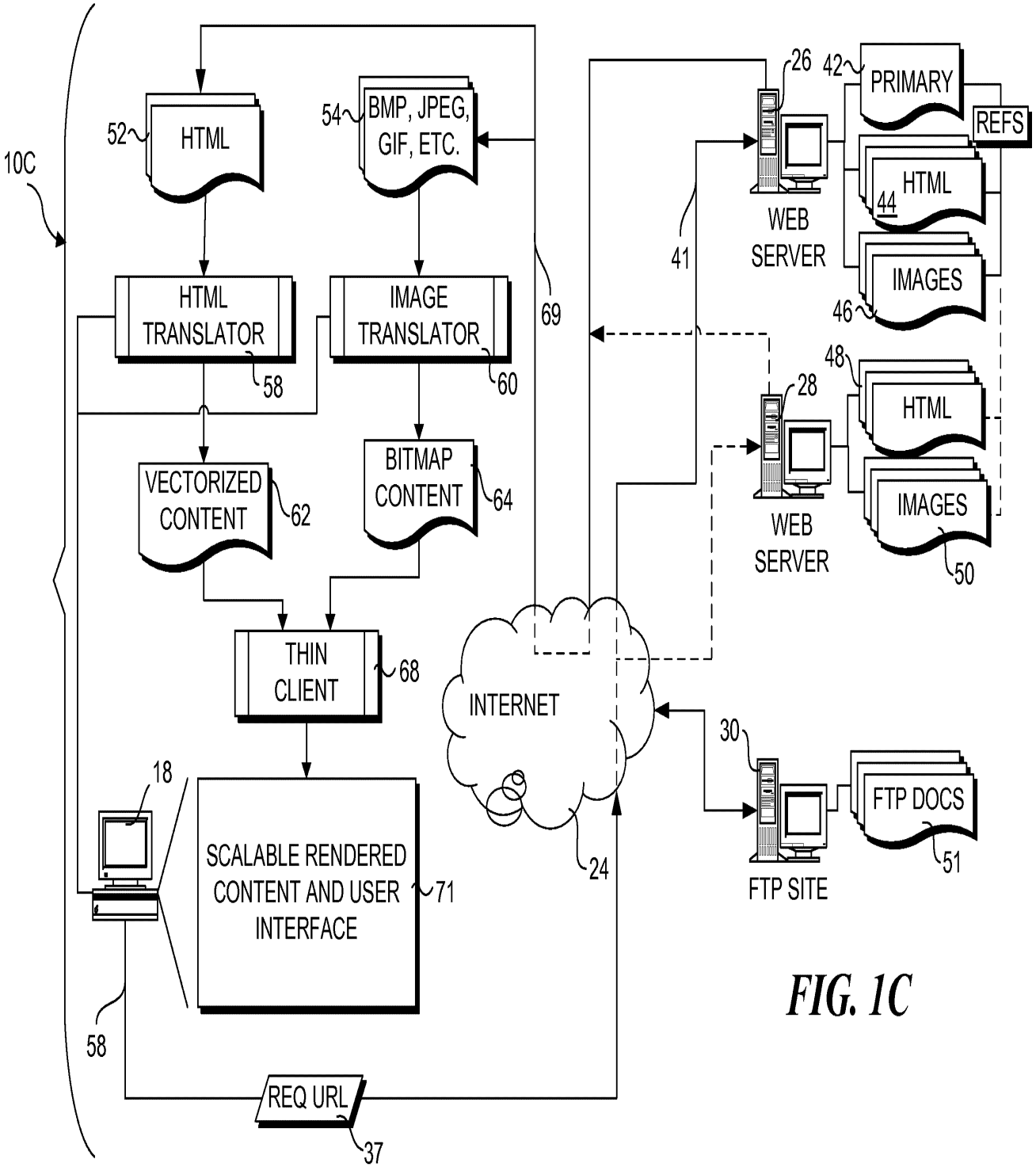

10C
52
HTML
54
BMP, JPEG, GIF, ETC.
HTML TRANSLATOR
58
IMAGE TRANSLATOR
60
69
VECTORIZED CONTENT
62
BITMAP CONTENT
64
THIN CLIENT
68
18
SCALABLE RENDERED CONTENT AND USER INTERFACE
71
58
REQ URL
37
INTERNET
24
26
42
PRIMARY
REFS
HTML
44
WEB SERVER
41
IMAGES
46
48
28
HTML
IMAGES
50
WEB SERVER
30
FTP DOCS
51
FTP SITE

FIG. 1C

FIG. 2A

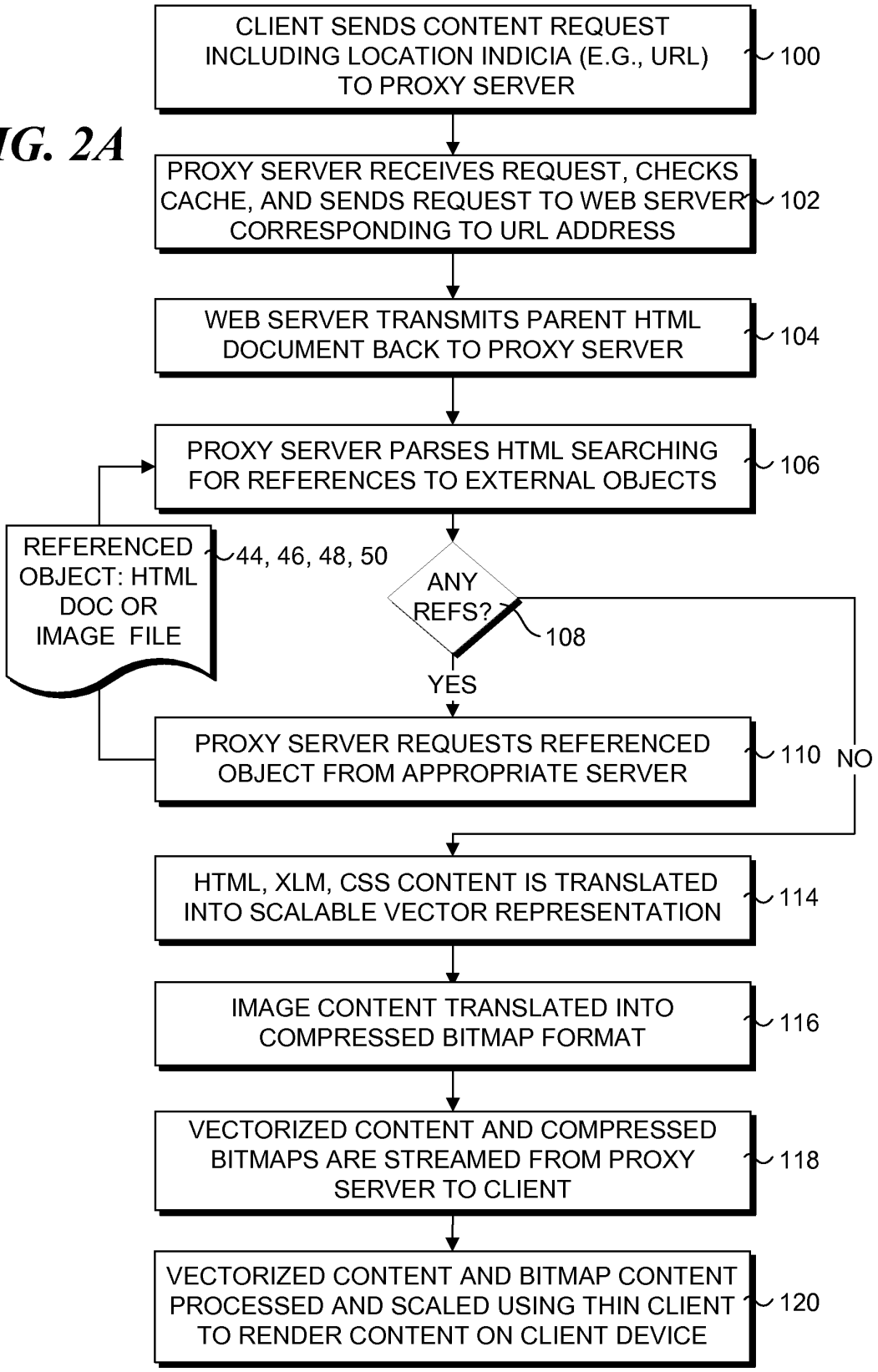

CLIENT SENDS CONTENT REQUEST INCLUDING LOCATION INDICIA (E.G., URL) TO PROXY SERVER
100
PROXY SERVER RECEIVES REQUEST, CHECKS CACHE, AND SENDS REQUEST TO WEB SERVER CORRESPONDING TO URL ADDRESS
102
WEB SERVER TRANSMITS PARENT HTML DOCUMENT BACK TO PROXY SERVER
104
PROXY SERVER PARSES HTML SEARCHING FOR REFERENCES TO EXTERNAL OBJECTS
106
REFERENCED OBJECT: HTML DOC OR IMAGE FILE
44, 46, 48, 50
ANY REFS?
108
YES
NO
PROXY SERVER REQUESTS REFERENCED OBJECT FROM APPROPRIATE SERVER
110
HTML, XLM, CSS CONTENT IS TRANSLATED INTO SCALABLE VECTOR REPRESENTATION
114
IMAGE CONTENT TRANSLATED INTO COMPRESSED BITMAP FORMAT
116
VECTORIZED CONTENT AND COMPRESSED BITMAPS ARE STREAMED FROM PROXY SERVER TO CLIENT
118
VECTORIZED CONTENT AND BITMAP CONTENT PROCESSED AND SCALED USING THIN CLIENT TO RENDER CONTENT ON CLIENT DEVICE
120

FIG. 2B

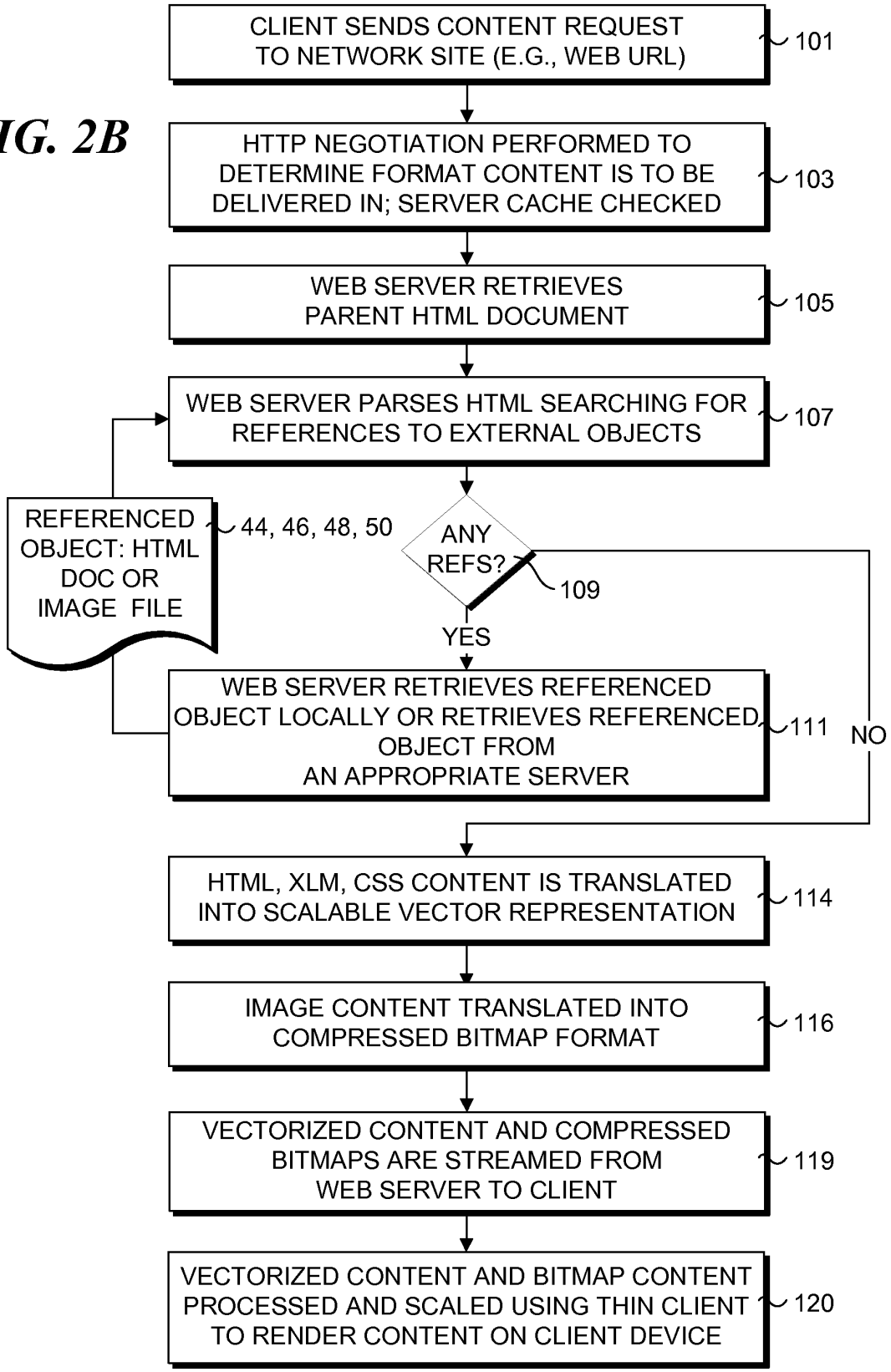
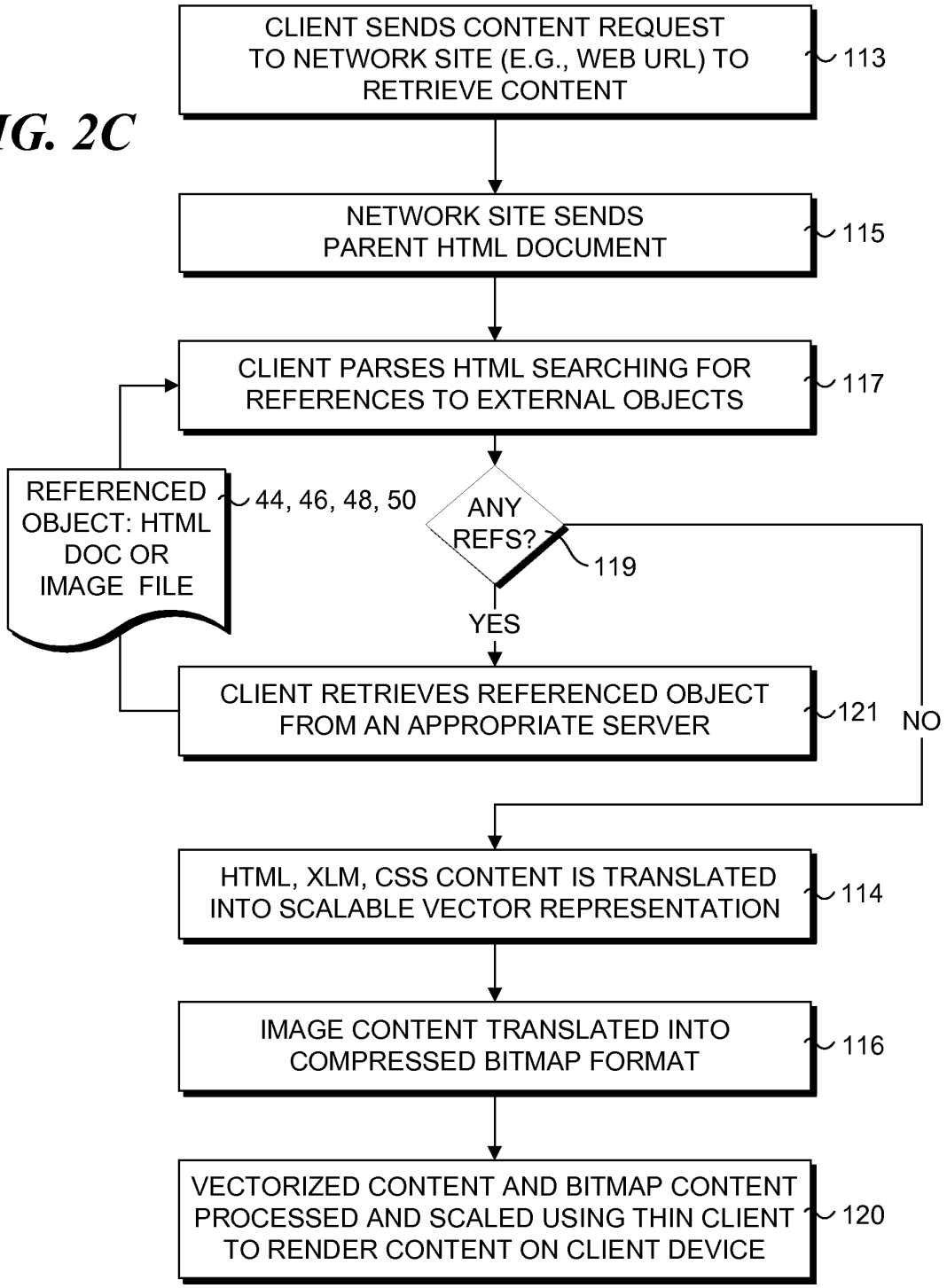

CLIENT SENDS CONTENT REQUEST TO NETWORK SITE (E.G., WEB URL)
101
HTTP NEGOTIATION PERFORMED TO DETERMINE FORMAT CONTENT IS TO BE DELIVERED IN; SERVER CACHE CHECKED
103
WEB SERVER RETRIEVES PARENT HTML DOCUMENT
105
WEB SERVER PARSES HTML SEARCHING FOR REFERENCES TO EXTERNAL OBJECTS
107
REFERENCED OBJECT: HTML DOC OR IMAGE FILE
44, 46, 48, 50
ANY REFS?
109
YES
NO
WEB SERVER RETRIEVES REFERENCED OBJECT LOCALLY OR RETRIEVES REFERENCED OBJECT FROM AN APPROPRIATE SERVER
111
HTML, XLM, CSS CONTENT IS TRANSLATED INTO SCALABLE VECTOR REPRESENTATION
114
IMAGE CONTENT TRANSLATED INTO COMPRESSED BITMAP FORMAT
116
VECTORIZED CONTENT AND COMPRESSED BITMAPS ARE STREAMED FROM WEB SERVER TO CLIENT
119
VECTORIZED CONTENT AND BITMAP CONTENT PROCESSED AND SCALED USING THIN CLIENT TO RENDER CONTENT ON CLIENT DEVICE
120

FIG. 2C


CLIENT SENDS CONTENT REQUEST TO NETWORK SITE (E.G., WEB URL) TO RETRIEVE CONTENT
113
NETWORK SITE SENDS PARENT HTML DOCUMENT
115
CLIENT PARSES HTML SEARCHING FOR REFERENCES TO EXTERNAL OBJECTS
117
REFERENCED OBJECT: HTML DOC OR IMAGE FILE
44, 46, 48, 50
ANY REFS?
119
YES
NO
CLIENT RETRIEVES REFERENCED OBJECT FROM AN APPROPRIATE SERVER
121
HTML, XLM, CSS CONTENT IS TRANSLATED INTO SCALABLE VECTOR REPRESENTATION
114
IMAGE CONTENT TRANSLATED INTO COMPRESSED BITMAP FORMAT
116
VECTORIZED CONTENT AND BITMAP CONTENT PROCESSED AND SCALED USING THIN CLIENT TO RENDER CONTENT ON CLIENT DEVICE
120

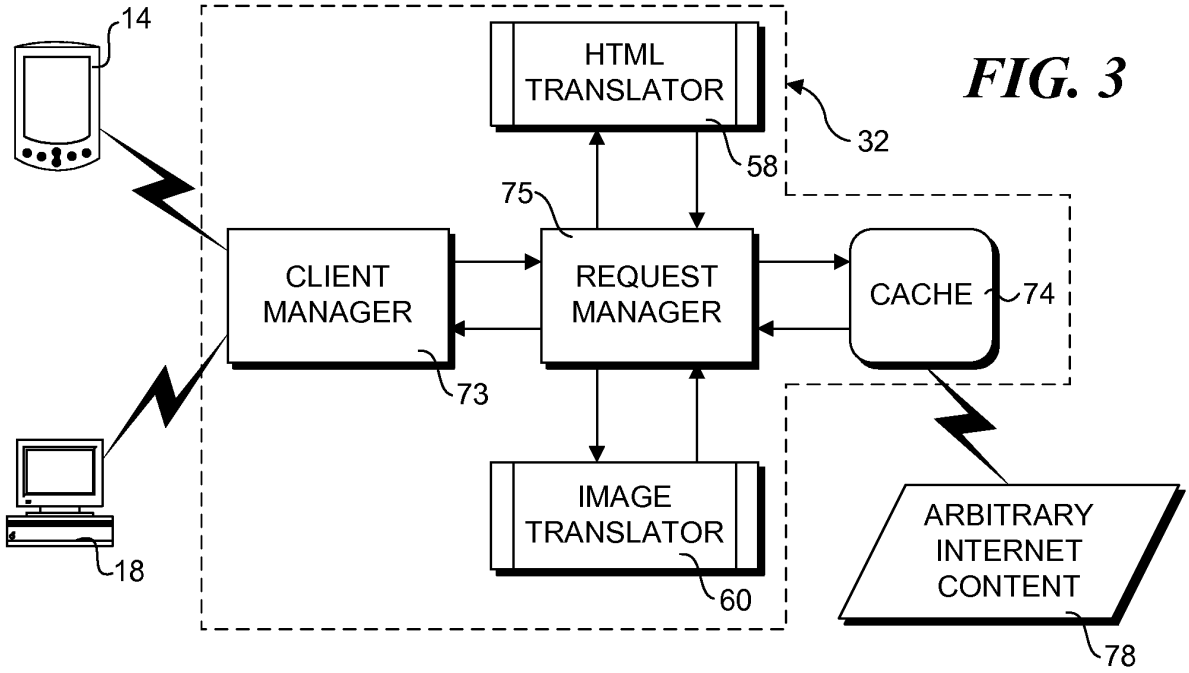

14
HTML TRANSLATOR
58
32
75
CLIENT MANAGER
73
REQUEST MANAGER
CACHE
74
18
IMAGE TRANSLATOR
60
ARBITRARY INTERNET CONTENT
78

FIG. 3

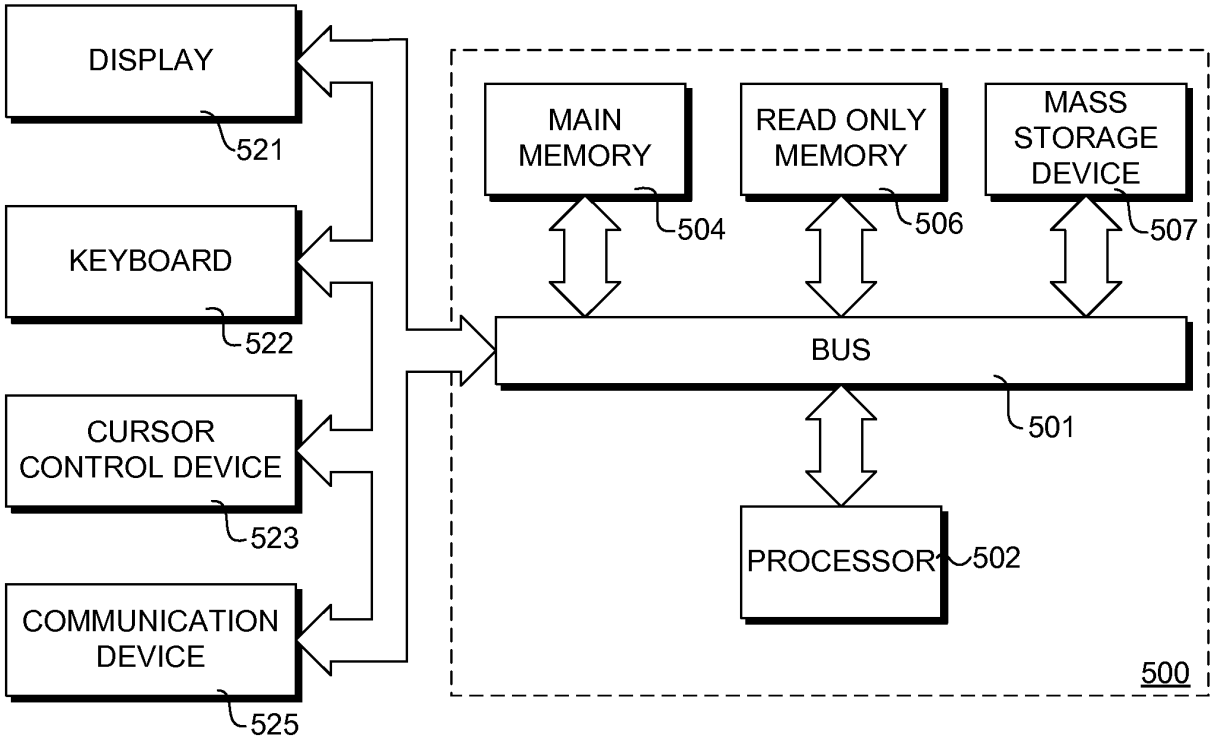

DISPLAY
521
KEYBOARD
522
CURSOR CONTROL DEVICE
523
COMMUNICATION DEVICE
525
MAIN MEMORY
504
READ ONLY MEMORY
506
MASS STORAGE DEVICE
507
BUS
501
PROCESSOR
502
500

FIG. 10

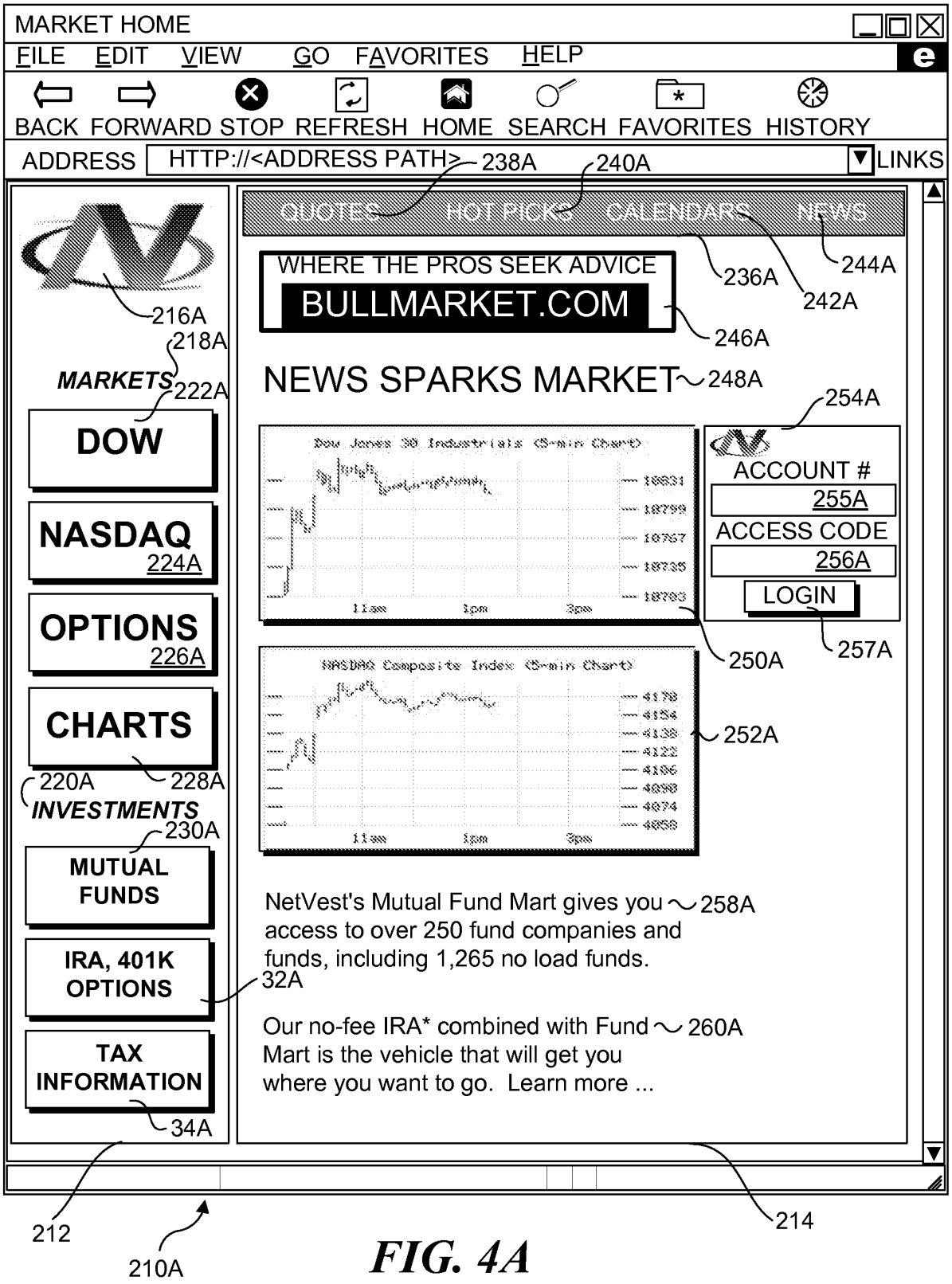

MARKET HOME
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://<ADDRESS PATH>
LINKS
238A
240A
QUOTES
HOT PICKS
CALENDARS
NEWS
244A
WHERE THE PROS SEEK ADVICE
BULLMARKET.COM
236A
242A
246A
216A
218A
MARKETS
222A
DOW
NASDAQ
224A
OPTIONS
226A
CHARTS
220A
228A
INVESTMENTS
230A
MUTUAL FUNDS
IRA, 401K OPTIONS
32A
TAX INFORMATION
34A
NEWS SPARKS MARKET
248A
254A
ACCOUNT #
255A
ACCESS CODE
256A
LOGIN
257A
250A
252A
NetVest's Mutual Fund Mart gives you access to over 250 fund companies and funds, including 1,265 no load funds.
258A
Our no-fee IRA* combined with Fund Mart is the vehicle that will get you where you want to go. Learn more ...
260A
212
210A
214

FIG. 4A

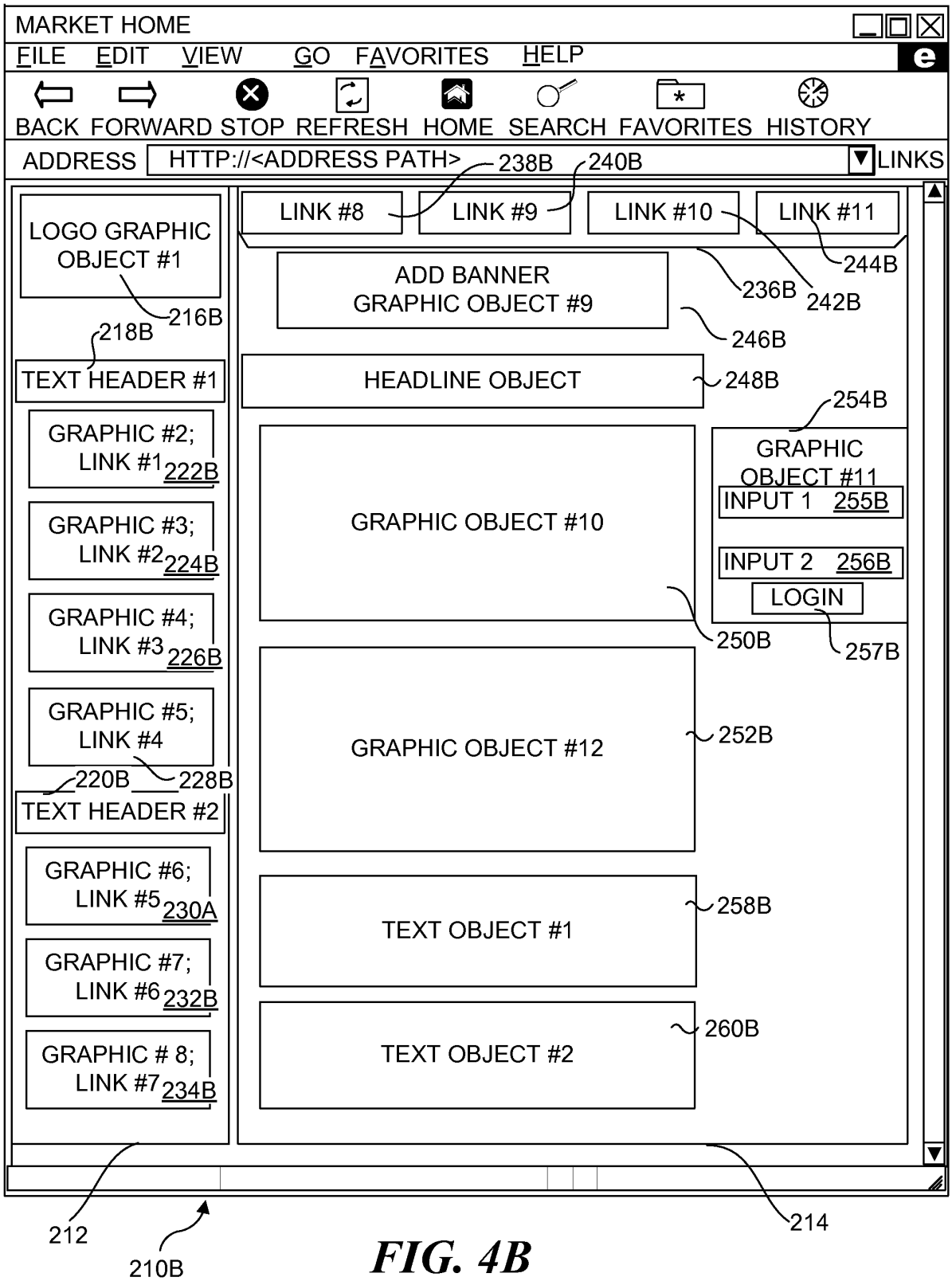

MARKET HOME
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://<ADDRESS PATH>
LINKS
LOGO GRAPHIC OBJECT #1
216B
218B
TEXT HEADER #1
GRAPHIC #2; LINK #1 222B
GRAPHIC #3; LINK #2 224B
GRAPHIC #4; LINK #3 226B
GRAPHIC #5; LINK #4
220B
228B
TEXT HEADER #2
GRAPHIC #6; LINK #5 230A
GRAPHIC #7; LINK #6 232B
GRAPHIC # 8; LINK #7 234B
LINK #8
LINK #9
LINK #10
LINK #11
238B
240B
244B
236B
242B
ADD BANNER GRAPHIC OBJECT #9
246B
HEADLINE OBJECT
248B
254B
GRAPHIC OBJECT #11
INPUT 1 255B
INPUT 2 256B
LOGIN
257B
GRAPHIC OBJECT #10
250B
GRAPHIC OBJECT #12
252B
TEXT OBJECT #1
258B
TEXT OBJECT #2
260B
212
210B
214

FIG. 4B

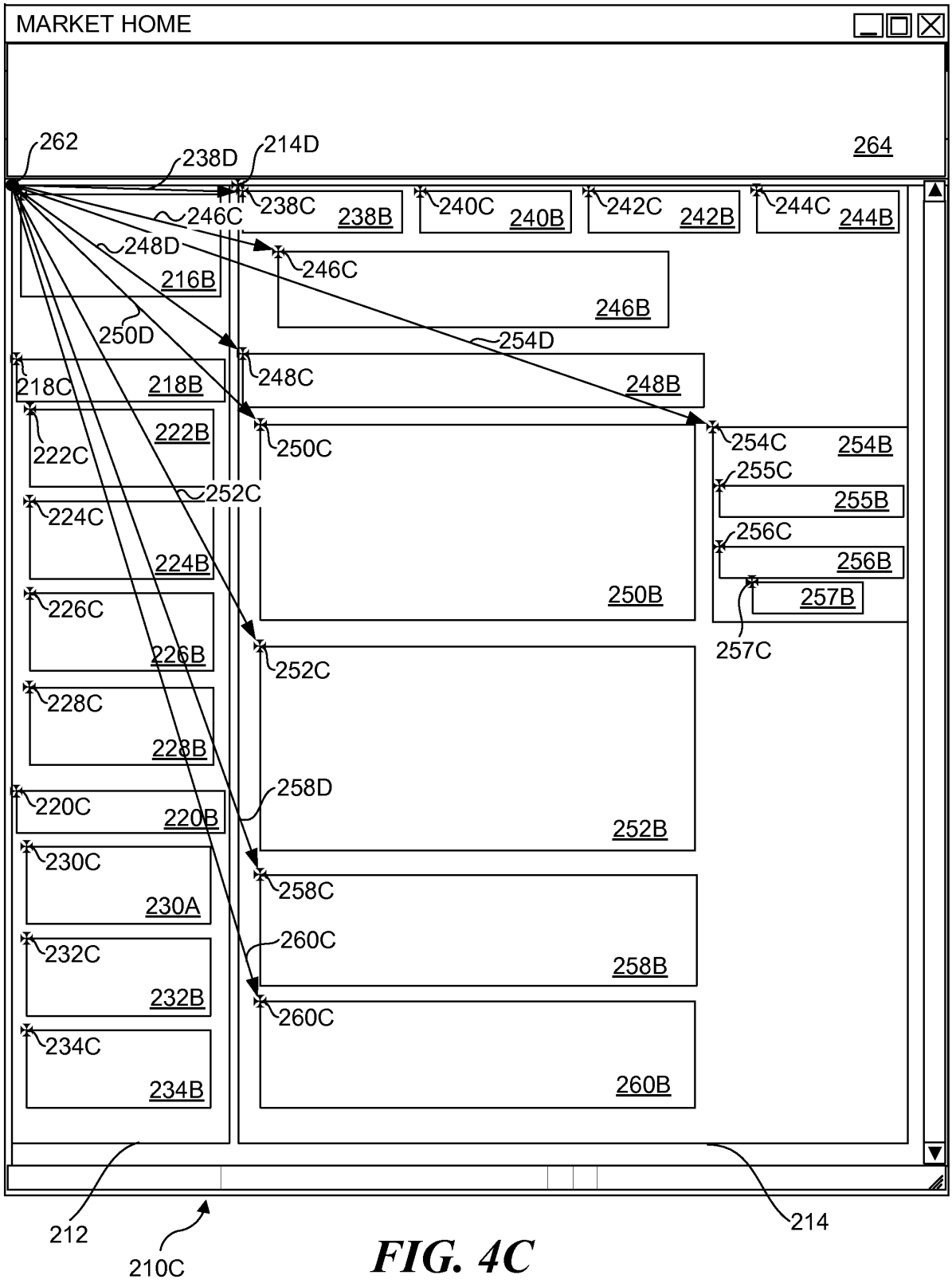

MARKET HOME
262
238D
214D
264
238C
238B
240C
240B
242C
242B
244C
244B
246C
248D
216B
246C
246B
250D
254D
218C
218B
248C
248B
222B
222C
250C
254C
254B
255C
255B
252C
224C
224B
256C
256B
257B
250B
226C
226B
257C
252C
228C
228B
220C
220B
258D
252B
230C
230A
258C
232C
260C
232B
258B
234C
234B
260C
260B
212
214
210C

FIG. 4C

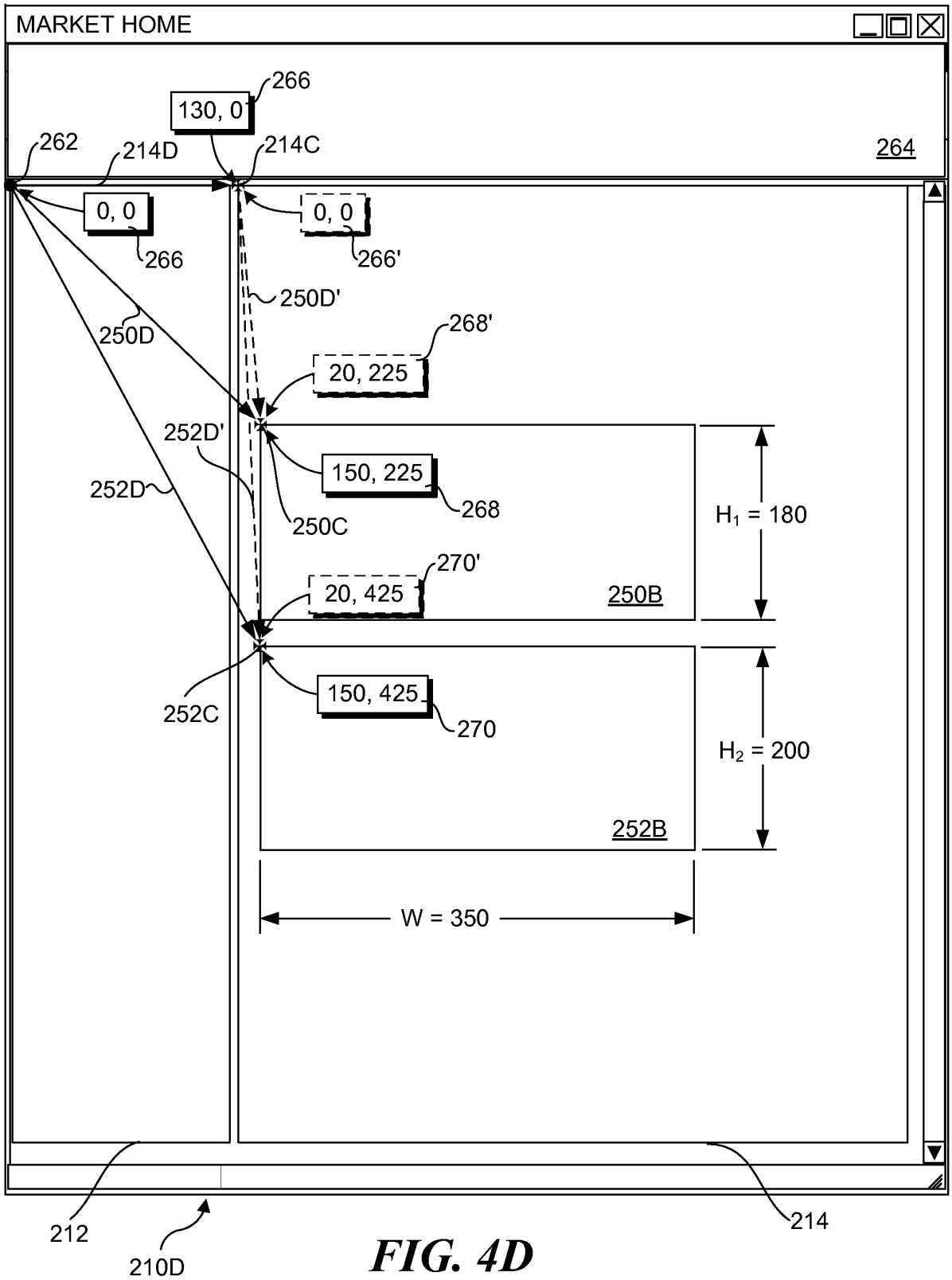
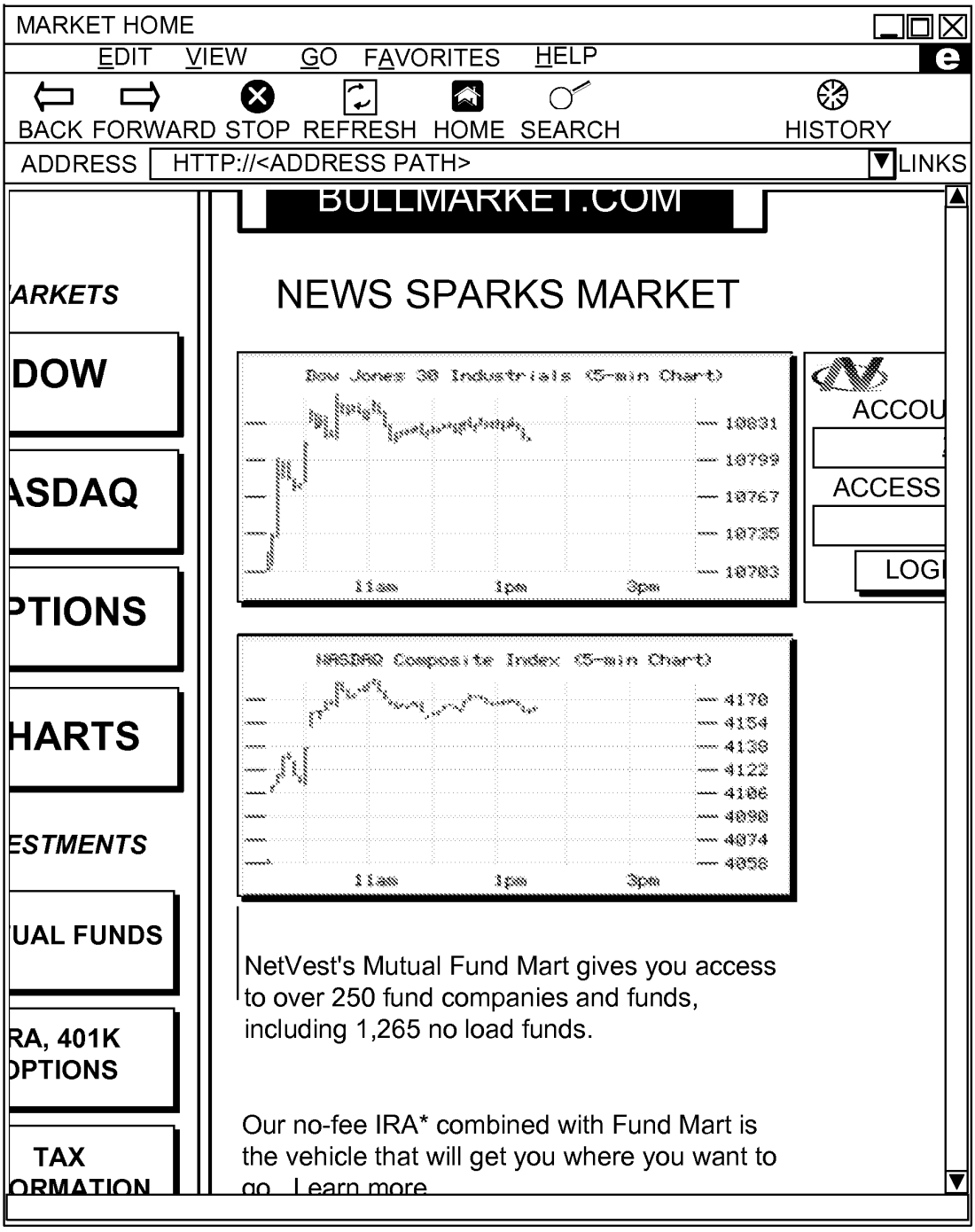

MARKET HOME
266
130, 0
262
214D
214C
264
0, 0
266
0, 0
266'
250D'
250D
268'
20, 225
252D'
252D
150, 225
268
250C
H1 = 180
270'
20, 425
250B
252C
150, 425
270
H2 = 200
252B
W = 350
212
210D
214

FIG. 4D


MARKET HOME
EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH HISTORY
ADDRESS HTTP://<ADDRESS PATH>
LINKS
BULLMARKET.COM
ARKETS
DOW
ASDAQ
PTIONS
HARTS
ESTMENTS
UAL FUNDS
RA, 401K
PTIONS
TAX
ORMATION
NEWS SPARKS MARKET
Dow Jones 30 Industrials (5-min Chart)
10831
10799
10767
10735
10703
11am
1pm
3pm
ACCOU
ACCESS
LOGI
NASDAQ Composite Index (5-min Chart)
4170
4154
4138
4122
4106
4090
4074
4058
11am
1pm
3pm
NetVest's Mutual Fund Mart gives you access to over 250 fund companies and funds, including 1,265 no load funds.
Our no-fee IRA* combined with Fund Mart is the vehicle that will get you where you want to go. Learn more

210E

FIG. 4E

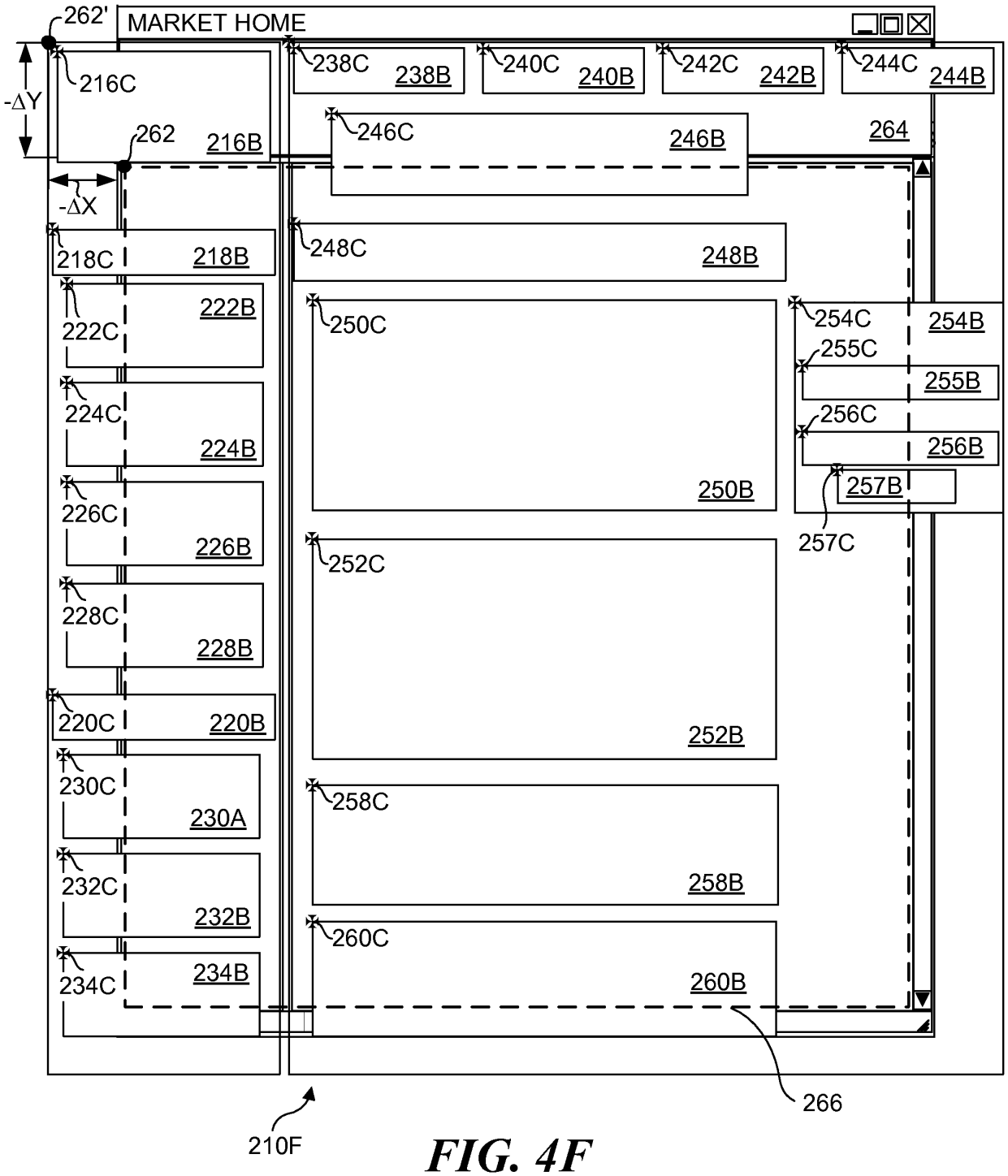

262'
MARKET HOME
216C
-ΔY
262
216B
238C
238B
240C
240B
242C
242B
244C
244B
246C
246B
264
-ΔX
218C
218B
248C
248B
222C
222B
250C
254C
254B
255C
255B
224C
224B
256C
256B
226C
226B
250B
257B
257C
228C
228B
252C
220C
220B
252B
230C
230A
258C
258B
232C
232B
260C
234C
234B
260B
266
210F

FIG. 4F

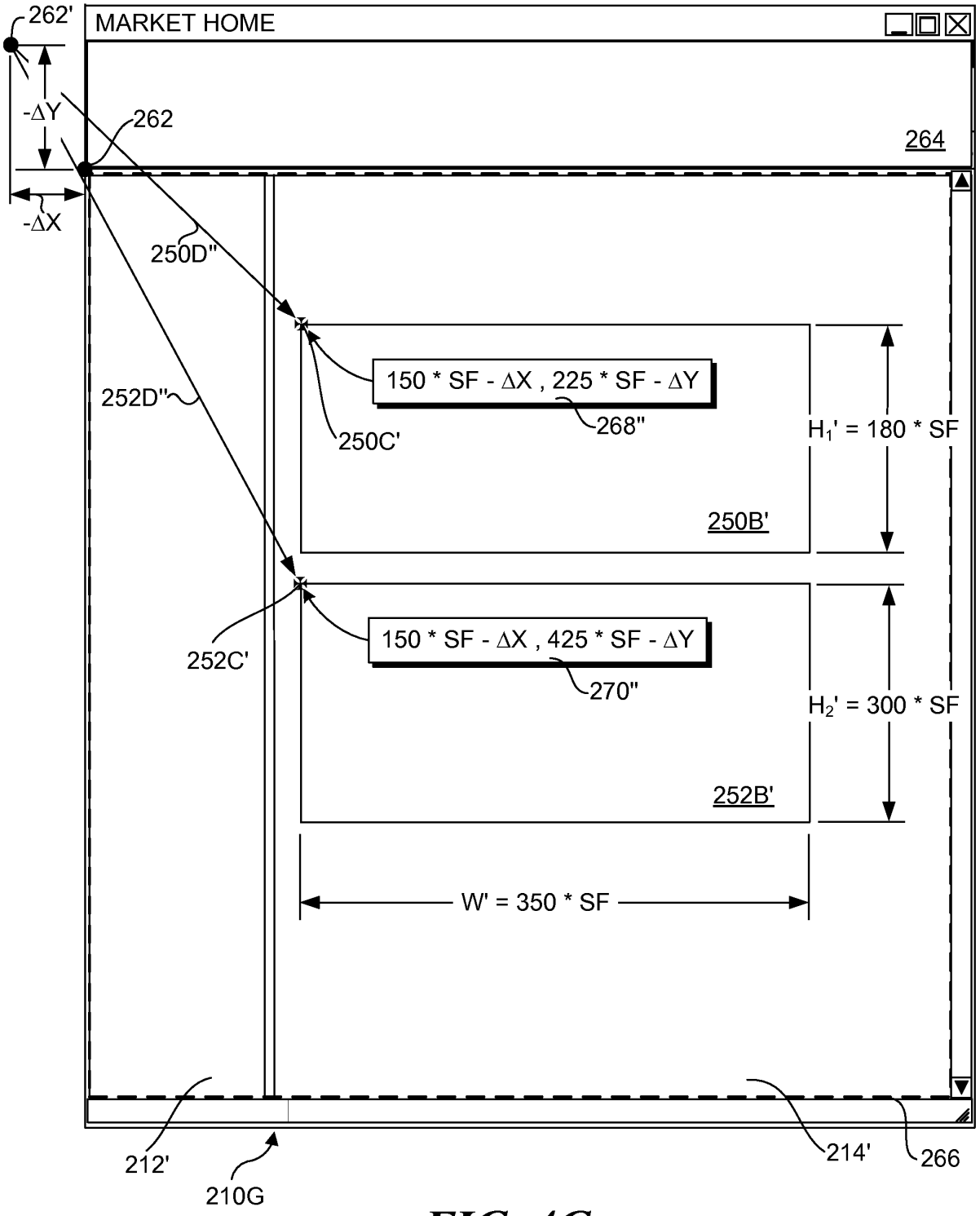

262'
MARKET HOME
-ΔY
262
264
-ΔX
250D"
252D"
150 * SF - ΔX , 225 * SF - ΔY
268"
250C'
H1' = 180 * SF
250B'
252C'
150 * SF - ΔX , 425 * SF - ΔY
270"
H2' = 300 * SF
252B'
W' = 350 * SF
212'
210G
214'
266

FIG. 4G

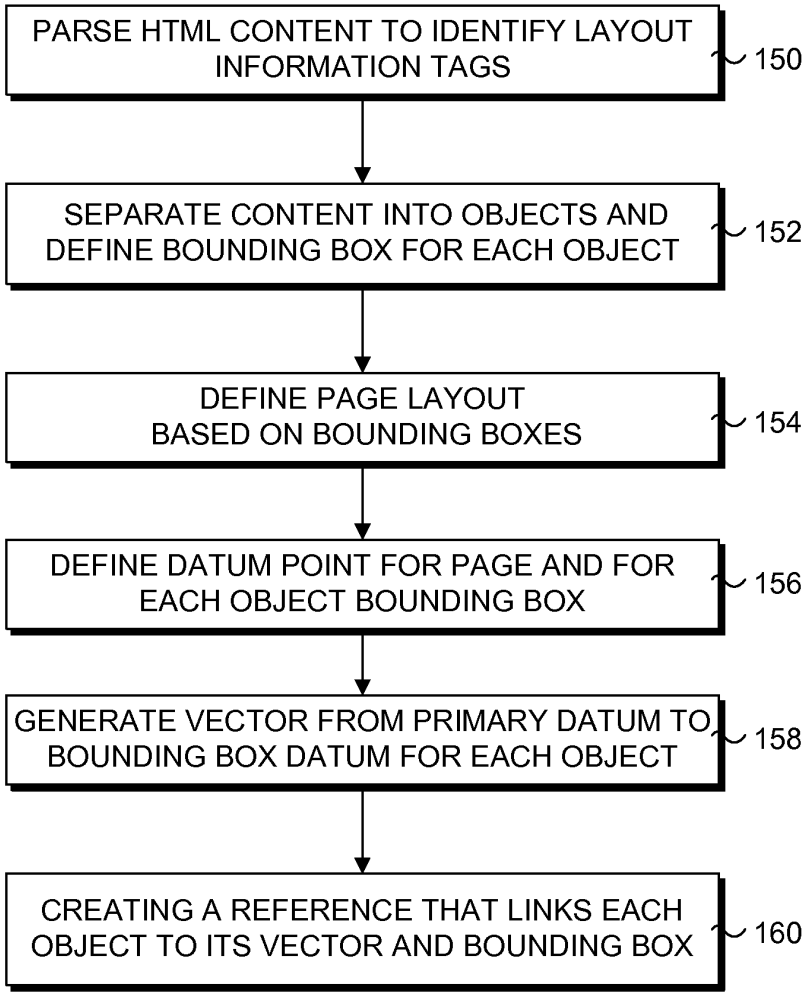

PARSE HTML CONTENT TO IDENTIFY LAYOUT INFORMATION TAGS
150
SEPARATE CONTENT INTO OBJECTS AND DEFINE BOUNDING BOX FOR EACH OBJECT
152
DEFINE PAGE LAYOUT BASED ON BOUNDING BOXES
154
DEFINE DATUM POINT FOR PAGE AND FOR EACH OBJECT BOUNDING BOX
156
GENERATE VECTOR FROM PRIMARY DATUM TO BOUNDING BOX DATUM FOR EACH OBJECT
158
CREATING A REFERENCE THAT LINKS EACH OBJECT TO ITS VECTOR AND BOUNDING BOX
160

FIG. 5

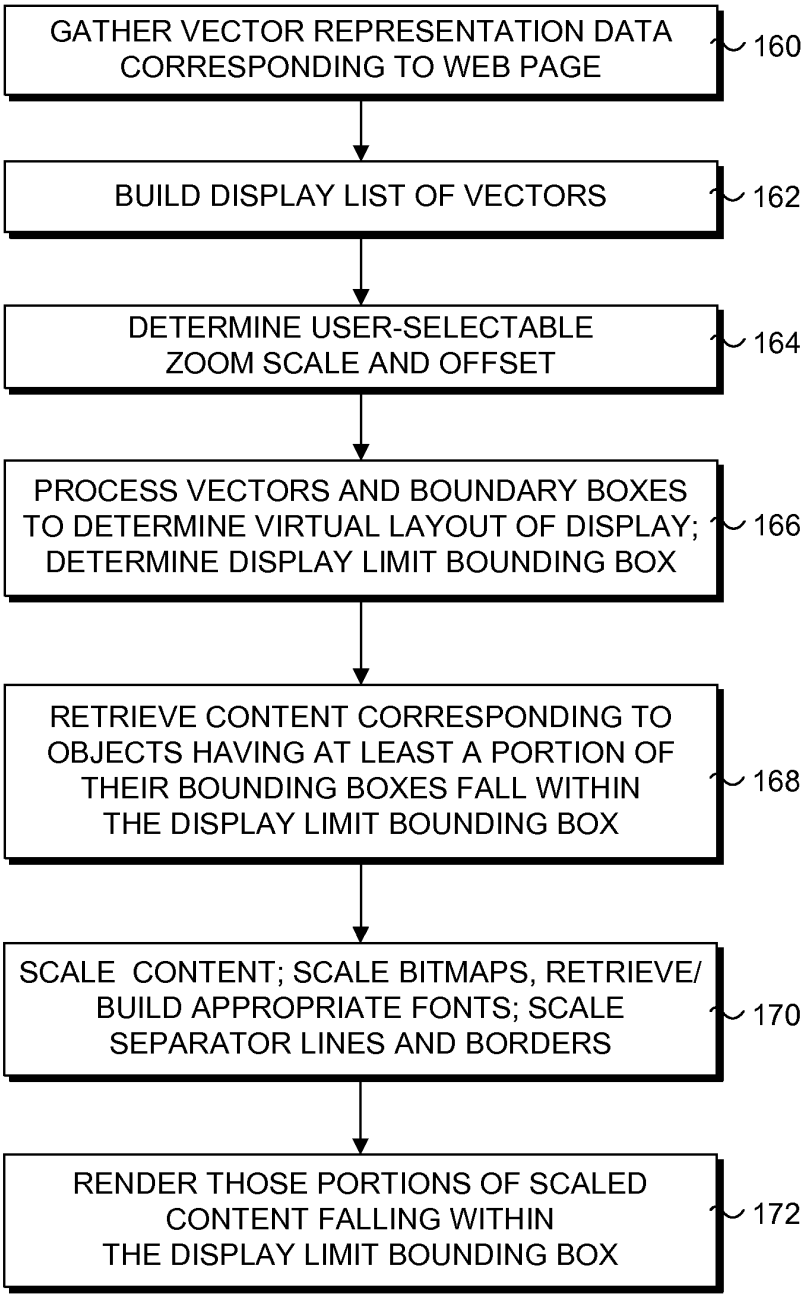

GATHER VECTOR REPRESENTATION DATA CORRESPONDING TO WEB PAGE
160
BUILD DISPLAY LIST OF VECTORS
162
DETERMINE USER-SELECTABLE ZOOM SCALE AND OFFSET
164
PROCESS VECTORS AND BOUNDARY BOXES TO DETERMINE VIRTUAL LAYOUT OF DISPLAY; DETERMINE DISPLAY LIMIT BOUNDING BOX
166
RETRIEVE CONTENT CORRESPONDING TO OBJECTS HAVING AT LEAST A PORTION OF THEIR BOUNDING BOXES FALL WITHIN THE DISPLAY LIMIT BOUNDING BOX
168
SCALE CONTENT; SCALE BITMAPS, RETRIEVE/ BUILD APPROPRIATE FONTS; SCALE SEPARATOR LINES AND BORDERS
170
RENDER THOSE PORTIONS OF SCALED CONTENT FALLING WITHIN THE DISPLAY LIMIT BOUNDING BOX
172

FIG. 6

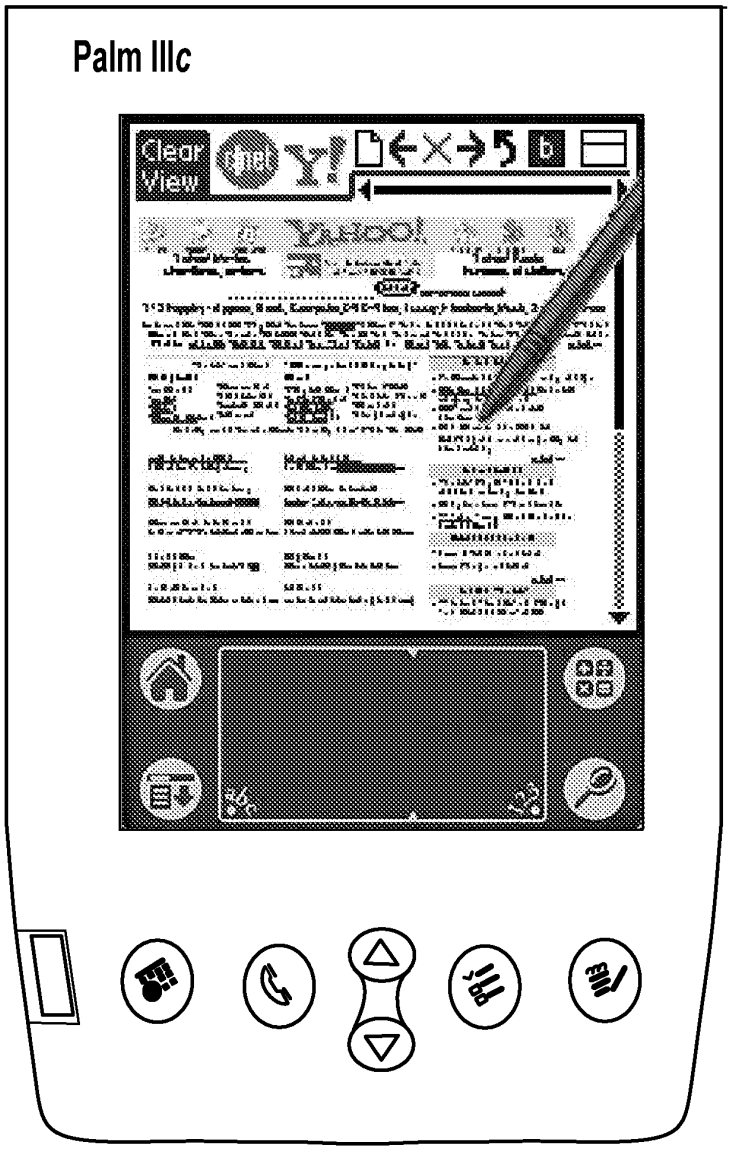


FIG. 7A

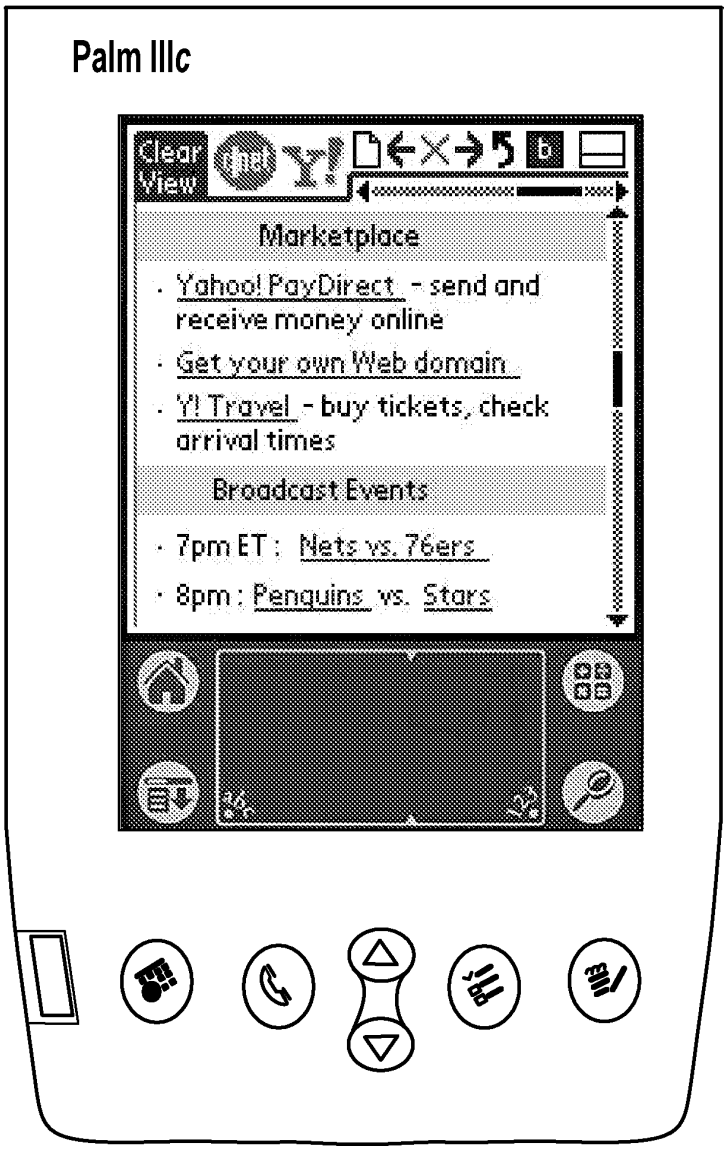

Palm IIIc
Clear View
Marketplace
· Yahoo! PayDirect - send and receive money online
· Get your own Web domain
· Y! Travel - buy tickets, check arrival times
Broadcast Events
· 7pm ET : Nets vs. 76ers
· 8pm : Penguins vs. Stars

FIG. 7B

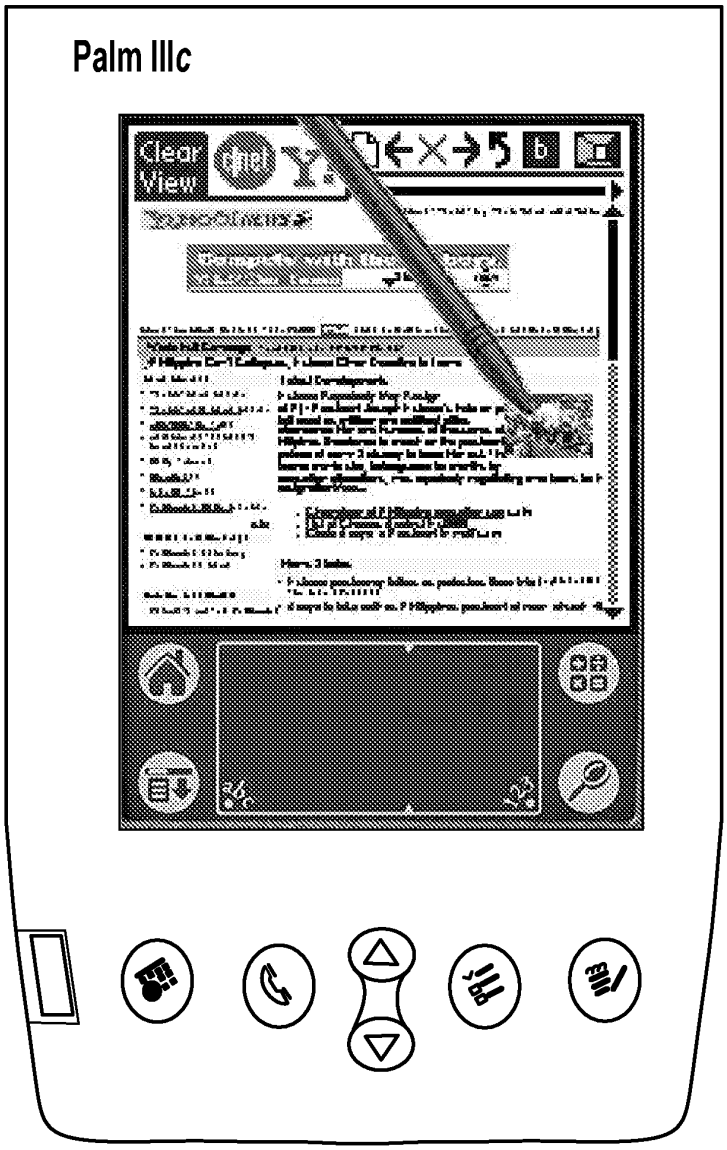


FIG. 8A

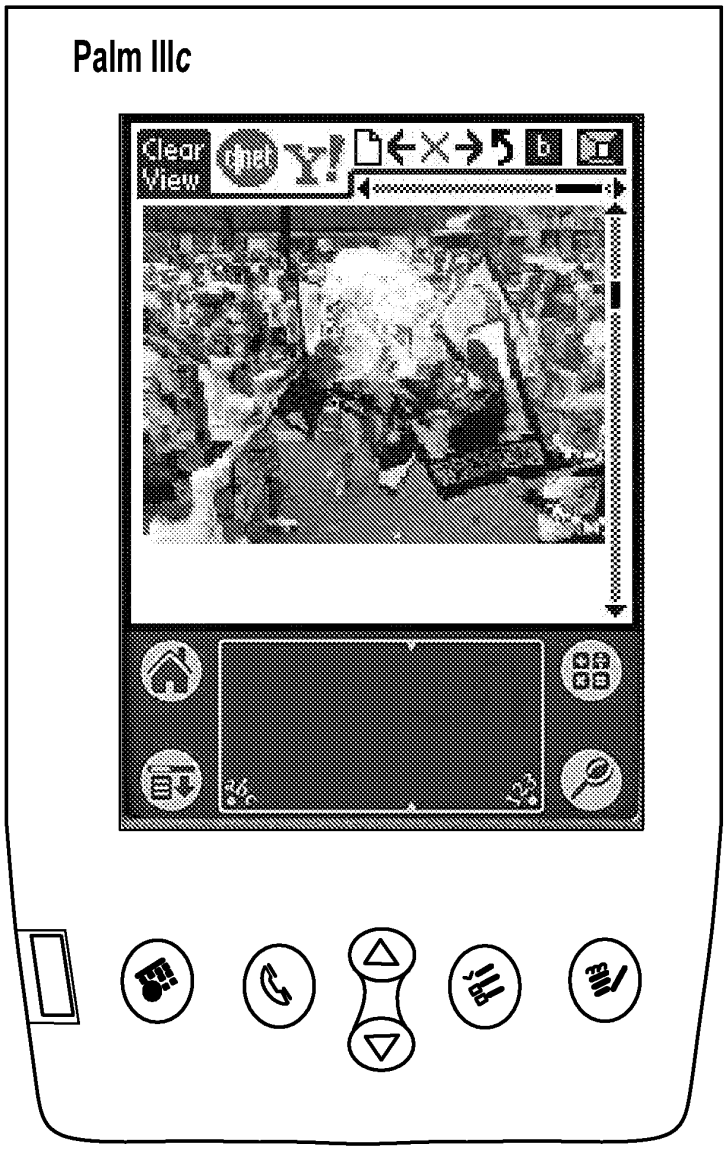


FIG. 8B



FIG. 9A

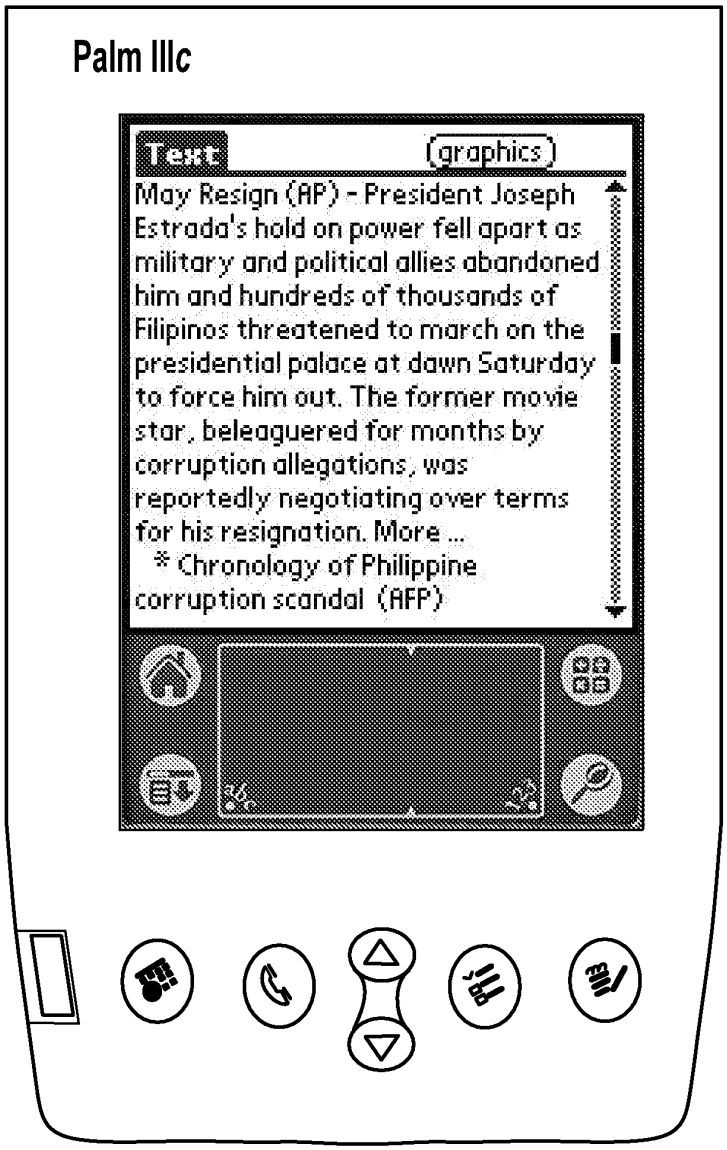

Palm IIIc
Text
(graphics)
May Resign (AP) - President Joseph Estrada's hold on power fell apart as military and political allies abandoned him and hundreds of thousands of Filipinos threatened to march on the presidential palace at dawn Saturday to force him out. The former movie star, beleaguered for months by corruption allegations, was reportedly negotiating over terms for his resignation. More ...
* Chronology of Philippine corruption scandal (AFP)

FIG. 9B

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	R. Burnett
Attorney Docket Number:	005207.P001XC2
Filed as Small Entity	

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	75	75
Utility Search Fee	2111	1	250	250
Utility Examination Fee	2311	1	100	100
Pages:				
Claims:				
Claims in excess of 20	2202	98	25	2450
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**2875**

Electronic Acknowledgement Receipt	
EFS ID:	1683924
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	15-APR-2007
Filing Date:	
Time Stamp:	19:14:40
Application Type:	Utility

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	$2875
RAM confirmation Number	1570
Deposit Account	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)

1		P001XC2_AP.pdf	190902	yes	65

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	40
	Claims	41	64
	Abstract	65	65

Warnings:					
Information:					
2	Drawings	P001XC2_Figures.pdf	664436	no	22
Warnings:					
Information:					
3	Fee Worksheet (PTO-06)	fee-info.pdf	8507	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	863845		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

4/15/2007

Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 11,735,482

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	300
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	250		N/A	500
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	100		N/A	200
TOTAL CLAIMS (37 CFR 1.16(i))	118 minus 20 =	* 98	X 25=	2450	OR	X 50=	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	X 100=			X 200=	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			N/A			N/A	
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	2875		TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT A	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X =		OR	X =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X =		OR	X =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
					TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

AMENDMENT B	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X =		OR	X =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X =		OR	X =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
					TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/735,482	04/15/2007	2176	2875	005207.P001XC2	118	3

CONFIRMATION NO. 2111

LAW OFFICE OF R. ALAN BURNETT, PS
4108 131ST AVE SE
BELLEVUE, WA98006

FILING RECEIPT

Date Mailed: 05/04/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

Applicant(s)

Gary B. Rohrabaugh, Residence Not Provided;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 09/878,097 06/08/2001 PAT 7,210,099
which is a CIP of 09/828,511 04/07/2001 ABN
and claims benefit of 60/211,019 06/12/2000
and claims benefit of 60/217,345 07/11/2000
This application 11/735,482
is a DIV of 09/878,097 06/08/2001 PAT 7,210,099
and is a DIV of 11/045,757 01/28/2005
and is a DIV of 11/045,649 01/28/2005

Foreign Applications

If Required, Foreign Filing License Granted: 05/03/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US11/735,482**

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

Preliminary Class

715

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under

37 CFR 1.53(d). This license is not retroactive.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

LAW OFFICE OF R. ALAN BURNETT, PS
4108 131ST AVE SE
BELLEVUE, WA 98006

FORMALITIES LETTER

Date Mailed: 05/04/2007

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing. *A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
  Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of $65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is **$65** for a small entity

- **$65** Surcharge.

Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450

P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199
PART 3 - OFFICE COPY

Attorney Docket No.: 005207.P001XC2 Patent

First Named Inventor: Gary B. Rohrabaugh

Check One:

____ Declaration Submitted with Initial Filing OR

__X__ Declaration Submitted After Initial Filing (Surcharge under 37 C.F.R. § 1.16(e) Required).

Complete If Known:

Application No.: 11/735,482
Filing Date: April 15, 2007
Art Unit: Unknown
Examiner Name: Unknown

DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:
RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

(Title of the Invention)

the specification of which

_____ is attached hereto **OR**

__X__ was filed on (14/15/2007)
as United States Application Number 11/735,482
or PCT International Application Number _____
and was amended on (MM/DD/YYYY) _____.
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed?		Certified Copy Attached?	
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below:

60/211,019	June 12, 2000
Application Number	Filing Date
60/217,345	July 11, 2000
Application Number	Filing Date

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this applications is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

09/878,097	June 8, 2001	Pending
Application Number	Filing Date	Status – patented, pending, abandoned
09/825,511	April 7, 2001	Abandoned
Application Number	Filing Date	Status – patented, pending, abandoned

Appointment of Patent Practitioners:

I hereby appoint the patent practitioners associated with the **Customer Number 59860** as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

If this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the

United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

Direct all correspondence to (check one):

_X_ **Customer Number 59860**

_X_ **Correspondence Address Below:**

R. Alan Burnett
(Name of Attorney or Agent)
Law Office of R. Alan Burnett
4108 131st Ave SE
Bellevue, WA 98006
Telephone: (425) 562-0923
Email: ralanburnett@hotmail.com

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: ☐ A petition has been filed for this unsigned inventor

Full Name: Gary B. Rohrabaugh
(Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix [if any])

Inventor's Signature Gary B Rohrabaugh Date April 16th 2007

Residence Bellingham, WA, USA Citizenship USA
(City, State, Country) *(Country)*

Mailing Address 3112 Maple Ridge Court, Bellingham, WA 98229

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventor

Full Name: Scott A. Sherman
(Given Name (First and Middle [if any]), Family Name (or Surname), and Suffix [if any])

Inventor's Signature Scott Sherman Date April 18th 2007

Residence Seattle, WA, USA Citizenship USA
(City, State, Country) *(Country)*

Mailing Address 201 Mcgraw Street, Seattle, WA 98109

Title 37, Code of Federal Regulations, Section 1.56
Duty to Disclose Information Material to Patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) Prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

(e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Electronic Patent Application Fee Transmittal

Application Number:	11735482
Filing Date:	15-Apr-2007
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	R. Burnett
Attorney Docket Number:	005207.P001XC2

Filed as Small Entity

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Late filing fee for oath or declaration	2051	1	65	65
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**65**

Electronic Acknowledgement Receipt	
EFS ID:	1753091
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Correspondence Address:	LAW OFFICE OF R. ALAN BURNETT, PS - 4108 131ST AVE SE - BELLEVUE WA 98006 US 4255620923 -
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	07-MAY-2007
Filing Date:	15-APR-2007
Time Stamp:	23:44:26
Application Type:	Utility

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	$65
RAM confirmation Number	1694

Deposit Account	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	Dec-POA_P001XC2_Signed .pdf	1837489	no	4
Warnings:					
Information:					
2	Fee Worksheet (PTO-06)	fee-info.pdf	8182	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1845671		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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BELLEVUE, WA98006

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Gary B. Rohrabaugh, Bellingham, WA;
Scott A. Sherman, Seattle, WA;

Power of Attorney: The patent practitioners associated with Customer Number 59860

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Foreign Applications

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US11/735,482**

Projected Publication Date: 08/23/2007

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

Preliminary Class

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

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PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	11375482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	005207.P001XC2

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	3	6300947	B1	2001-10-09	Kanevsky, Dimitri	
	4	5966135	A	1999-10-12	Roy et al.	
	5	6011905	A	2000-01-04	Huttenlocher et al.	
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	Application Number	11375482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	005207.P001XC2

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	1	20050144256	A1	2005-06-30	Blumberg, Robert	
	2	20020112237	A1	2002-08-15	Ketts, Brett R.	
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	1	BENJAMIN B. BEDERSON ET AL., Pad++: A Zoomable Graphical Sketchpad For Exploring Alternate Interface Physics, September 19, 1995, http://www.cs.unm.edu/pad++	☐
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	3	Specification for Simple Vector Format (SVF) v1.1 Jan. 16, 1995	☐
	4	Specification for Simple Vector Format (SFV) v2.0 Dec. 6, 2000, http://www.svf.org/spec.html	☐
	5	SVF XML http://www.svf.org/svfxml.html	☐
	6	Changes to SVF (Date unknown)	☐
	7	Scalable Vector Graphics (SVG) Specification, W3C Working Draft 11-February-1999 WD-SVG-19990211, http://www.w3.org/TR/1999/ WD-SVG-19990211/ (HTML format – initial page)	☐
	8	Scalable Vector Graphics (SVG) Specification, W3C Working Draft 12-April-1999 WD-SVG-19990412, http://www.w3.org/TR/1999/ WD-SVG-19990412/ (HTML format – initial page)	☐
	9	Scalable Vector Graphics (SVG) 1.0 Specification, W3C Candidate Recommendation 02 November 2000	☐
	10	Introduction to SVG, part of WD-SVG-19990211, http://www.w3.org/TR/1999/ WD-SVG-19990211/intro.html#Document…	☐
	11	W3C Scalable Vector Graphics (SVG) – History, http://www.w3.org/Graphics/SVG/History	☐
	12	STEVE MULDER, Sneak Peak at SVG, 4 March 1999, http://www.webmonkey.com/99/10/index3a.html?tw=eg1999102	☐
	13	JANUS BOYE, SVG Brings Fast Vector Graphics to Web, 29 July 1999 http://www.irt.org/articles/js176/	☐

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	First Named Inventor	Rohrabaugh
	Art Unit	2176
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	Attorney Docket Number	005207.P001XC2

	14	Vector Markup Language (VML), World Wide Web Consortium Note 13-May-1998, NOTE-VML-19980513, http://www.w3.org/TR/1998/NOTE-VML_19980513	☐
	15	Vector Markup Language, http://en.wikipedia.org/wiki/Vector_Markup_Language	☐
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	17	PCT International Search Report for International Application No. PCT/US01/40920, International Searching Authority, European Patent Office, Dec. 27, 2001.	☐
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	Application Number	11375482
	Filing Date	2007-04-15
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	Attorney Docket Number	005207.P001XC2

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☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/S/ R. Alan Burnett	Date (YYYY-MM-DD)	2007-08-05
Name/Print	R. Alan Burnett	Registration Number	46149

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EFS ID:	2048859
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Correspondence Address:	LAW OFFICE OF R. ALAN BURNETT, PS - 4108 131ST AVE SE - BELLEVUE WA 98006 US 4255620923 -
Filer:	R. Burnett
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Attorney Docket Number:	005207.P001XC2
Receipt Date:	05-AUG-2007
Filing Date:	15-APR-2007
Time Stamp:	19:47:57
Application Type:	Utility under 35 USC 111(a)

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Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed	P001XC2_US_IDS_Form_SB_08a.pdf	985332 39b462433a41ca6ca02ea2e4e930d3c844ca36f6	no	6
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4	NPL Documents	SVF_Specification_v1-1.pdf	41512 b1f7e72142c5302cb6d6168e8aae379c148ad2cd	no	9
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10	NPL Documents	SVG_1-0_Spec.pdf	4655090 760dbcb29e99f5b684f3a3dcf7982da6d863b619	no	513
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11	NPL Documents	Introduction_to_SVG.pdf	12718 92124924e058d982336d05b6c851af70866652d3	no	3
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18	Foreign Reference	Search_Report_PCT_US01_40920.pdf	299257 05d5be61c04f896e6d58f6184e6491e191d79787	no	8

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APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

LAW OFFICE OF R. ALAN BURNETT, PS
4108 131ST AVE SE
BELLEVUE, WA98006

Title: RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

Publication No. US-2007-0198917-A1
Publication Date: 08/23/2007

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Application Number	11/735,482
Filing Date	April 15,2007
First Named Inventor	Gary Rohrabaugh
Art Unit	2176
Examiner Name	Not Assigned
Attorney Docket Number	005207.P001XC2

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☒ Attorney or agent of record. Registration Number 46,149.

☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number_____.

Signature */s/ R. Alan Burnett*

Typed or Printed Name R. Alan Burnett

Date December 8, 2007 | Telephone 425 562-0923

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Electronic Acknowledgement Receipt	
EFS ID:	2565844
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Correspondence Address:	LAW OFFICE OF R. ALAN BURNETT, PS - 4108 131ST AVE SE - BELLEVUE WA 98006 US 4255620923 -
Filer:	R. Burnett
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Attorney Docket Number:	005207.P001XC2
Receipt Date:	09-DEC-2007
Filing Date:	15-APR-2007
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Application Type:	Utility under 35 USC 111(a)

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1	Change of Address	P001XC2_Change_of_Address.pdf	739596 346c5b15ad7a4cef147d369ade1a04c1aa310b0c	no	2
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
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PTO/SB/08a (08-03)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5897644		2009-04-27	Nielson	
	2	6449639		2002-09-10	Blumberg	
	3	6456305		2002-09-24	Qureshi et al.	
	4	5615384		1997-03-25	Allard et al.	
	5	5952994		1999-09-14	Ong et al.	
	6	6553410		2003-04-22	Kikinis	
	7	6556217		2003-04-29	Mäkipää	
	8	6829746		2004-12-07	Schwerdtfeger et al.	

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	9	6925595		2005-08-02	Whitledge et al.	
	10	6421733		2002-07-16	Tso et al.	
	11	6457030		2002-09-24	Adams et al.	
	12	7308649		2007-12-11	Ehrich et al.	

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	1	GB2344197A	GB		2000-05-31	Carlino		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

	1	Dennis, "Webraska Joins W3C for Next Generation Internet Graphics," Newsbytes, May 8, 2000	☐
	2	Fox et al. "Experience With Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot" Proceedings of Middleware '98, 1998	☐
	3	Jones et al. "From the large screen to the small screen – retaining the designer's design for effective user interaction," IEEE Colloquium on Issues for Networked Interpersonal Communicators, May 1997, pp. 3/1 – 3/4	☐
	4	Pacchiano, "Adobe's New View," Computer Shopper, Vol. 19, No. 4, Apr. 1999, p. 346	☐
	5	"TADPOLE TECHNOLOGY: ILOG technology within Tadpole's Cartesia Redline system making repairs simpler," M2 Presswire, Jan. 1999	☐
	6	Thryft, "Wireless link ramped for 'always on' Internet," EETimes, March 23, 1999	☐
	7	Bharadvaj et al., "An Active Transcoding Proxy to Support Mobile Web Access," Proc. of the IEEE Symposium on Reliable Distributed Systems, 1998	☐
	8	Björk, et al., "WEST: A Web Browser for Small Terminals," Proceedings of the 12 ACM symposium on User Interface Software and Technology (1999)	☐
	9	Holmquist, "The Zoom Browser," Human IT Tridskrift för studier av IT ur ett humanvetenskaplight perspektive, March, 1998.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/R. Alan Burnett/	Date (YYYY-MM-DD)	2009-04-18
Name/Print	R. Alan Burnett	Registration Number	46149

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	5178146
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	18-APR-2009
Filing Date:	15-APR-2007
Time Stamp:	02:25:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	P001XC2_US_IDS_Form_SB_08a_pre2.pdf	551315 41c5a763b623a62b6ba9f90571441e7fa5245bca	no	6

Warnings:
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2	Foreign Reference	GB2344197A.pdf	2308365 32bee4b8a664e59027f4d8104a0a1455fa6ed5a5	no	60
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3	NPL Documents	Webraska_Joins_W3C_for_Next_Generation_Internet_Graphics-PDFCreator.pdf	30367 5e61b504819d946880f78673423bb9734cb3cff7	no	2
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Warnings:					
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7	NPL Documents	TADPOLE_TECHNOLOGY-PDFCreator.pdf	32936 7dbb2d868fba091d387707ea359c74471a01f58b	no	2
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Warnings:					
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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New International Application Filed with the USPTO as a Receiving Office
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I hereby certify that this correspondence is being Electronically Filed via EFS on November 28, 2009
Date of Electronic Filing

R. Alan Burnett
Name of Person Filing Correspondence

/S/ R. Alan Burnett — November 28, 2009
Signature — Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Rohrabaugh et al.	)	Examiner: Herndon, Heather R.
	)	
Serial No. 11/735,482	)	Art Unit: 2176
	)	
Filed: April 15, 2007	)	
	)	
For: RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT	)	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Sir:

Applicants respectfully request the following preliminary amendments be entered for the above-identified application.

Amendments begin on page 2.

Remarks begin on page 9.

AMENDMENT

In the Specification

Please replace paragraph [0001] with the following amended paragraph:

[0001] This application is a Continuation of [[US]] U.S. Non-provisional Application No. 09/878,097, filed June 8, 2001, entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," which is a Continuation-in-Part of U.S. Non-provisional Application No. 09/825,511, filed April 7, 2001, entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," the benefit of the filing date of which is claimed under 35 U.S.C. § 120. This application further claims the benefit of the filing dates of U.S. Provisional Application No. 60/211,019, filed June 12, 2000, entitled "METHOD AND SYSTEM FOR RESOLUTION INDEPENDENT DISPLAY OF HTML AND XML CONTENT" and U.S. Provisional Application No. 60/217,345, filed July 11, 2000, entitled "METHOD AND SYSTEM FOR SELECTION, RETRIEVAL, AND CONVERSION OF COMPUTER CONTENT TO VECTOR FORMAT FOR RESOLUTION INDEPENDENT DISPLAY," under 35 U.S.C. § 119(e). The disclosure of each of the foregoing applications is incorporated by reference in its entirety herein for all purposes. ~~This application also contains subject matter related to Divisionals (of 09/878,097) U.S. Non-provisional Application Nos. 11/045,757 and 11/045,649, both entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," and filed January 28, 2005.~~

Please add the following new paragraph after paragraph [0001]:

This application also contains subject matter related to Divisionals (of 09/878,097) U.S. Non-provisional Application Nos. 11/045,649 (issued as U.S. 7,584,423) entitled METHOD, PROXY AND SYSTEM TO SUPPORT FULL-PAGE WEB BROWSING ON HAND-HELD DEVICES, and 11/045,757 (issued as U.S. 7,461,353) entitled SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES, both filed January 28, 2005. This application also contains subject matter related to U.S. Non-provisional Application Nos. 11/735,482 filed on April 15, 2007, 11/738,486 filed on April 21, 2007, 11/738,932 filed on April 23, 2007, 11/868,124 filed on October 5, 2007, and 12/326,092 filed on December 1, 2008.

Please replace paragraph [0053] with the following amended paragraph:

[0053] In addition to HTML and other markup and scripting language content, it is very common for web pages to include graphical content. In general, graphical content is usually stored in an image file or files that are external from the parent HTML document for the web page. For example, the parent HTML document may contain one or more embedded image tags that reference the location where those images are stored. As before, the graphic images may be stored locally, or may be stored on remote servers that are accessed by the web server via a WAN, or the Internet. These files will typically comprise data stored in one of several well-known graphic formats, including bitmap files (BMP), GIF (Graphics Interchange Format) files, and JPEG (Joint Photographic Experts Group) ~~JPEG~~ files.

Please replace paragraph [0068] with the following amended paragraph:

[0068] The various content translators used by the proxy server accept (via HTTP PUT) or request (driven by HTTP proxy GET/POST) content in supported, but client-

unsupported, formats; and return (via HTTP PUT or GET/POST response) one or more representations of that content in a client-supported format. In the embodiments illustrated in FIGURE 1A-C, two translators are used: HTML translator 58 and image translator 60. Future content types may be accommodated by new translators, by extending existing translators to cover the new content types, or by extending the ~~clients~~ client's capabilities. Standard HTTP content negotiation mechanisms are used to inform the proxy server of the ~~clients~~ client's capabilities and expectations on each request.

Please replace paragraph [0076] with the following amended paragraph:

[0076] With reference to the flowchart of FIGURE 5, the process for translating the HTML content into a scalable vector representation proceeds as follows. The process is initiated when the proxy server receives the HTML corresponding to the parent document (and frame documents, if appropriate), whereupon a pre-rendering parsing of the HTML is performed to determine where to place the various objects on the display page in a block 150. For example, elements such as tables, column definitions, graphic images, paragraphs and line breaks are identified. If frames are included, each frame is examined in the sequential order it appears in the HTML document, or the order in which the HTML documents corresponding to the frames in a frameset are downloaded to the browser. During further processing, the actual objects are rendered in their respective positions. Some of these objects are rendered almost immediately, such as plain text, while other objects, such as graphic objects, must first be retrieved prior to being fully-rendered. With respect to tables, there are some instances in which [[the]] all of the objects corresponding to the cells in the table must be retrieved prior to rendering any of the table, while a well-designed table can be rendered incrementally. For example, by using Column grouping, the format of the corresponding table can be quickly determined by the browser. In some instances, one

or more bitmaps may actually need to be fetched before the page layout can be determined.

Please replace paragraph [0086] with the following amended paragraph:

[0086] The scalable vector representation is completed in a block 160, wherein a reference is created for each object that includes or links an object's content and attributes, such as object type (e.g., text, image), object typeface, and boundary box parameters, to the object's vector. For example, object 250B is a graphic image having a vector 250D and a bounding box that is 180 pixels high and 350 pixels wide, while object 252B is a graphic image having a vector 252D and a bounding box that includes a height of 200 pixels and a width of 350 pixels. [[.]] This enables client-side operations to be performed that only initially consider the vectors, wherein if it is determined that a vector's endpoint (and/or the bounding box corresponding to the object the vector points to) would appear off of a display, there is no need to retrieve the content and attribute data linked to the vector. This concept is explained in further detail in the following section.

Please replace paragraph [0090] with the following amended paragraph:

[0090] By enabling original content from a web site to be ~~displaced~~ displayed in such a resolution-independent manner, users will be able to view content in a manner that did not previously exist, greatly enhancing the user experience. For example, in some implementations the client may be a personal computer (PC). Using a least-common denominator approach, many web pages are designed for a smaller resolution (for example 640x480 pixels, a minimum resolution commonly supported by nearly all PC's, including legacy PC's) than the resolution provided by the video output capabilities available with many of today's PC's, such as 1024x768 pixels, 1280x1024 pixels, and even 1600x1200 pixels. As a result, when these web pages are displayed

on a high-resolution display, they occupy only a portion of the display, making portions of the pages, especially those portions containing small text, difficult to read. By enabling users to selectively magnify the entire page, these design flaws are easily overcome. Alternatively, the client may be a small device, such as a hand held computer or a cell phone, which has a smaller display resolution than common Web pages are designed for. As explained below, through use of the invention's scalable vector representation and client-side processing, users are enabled to view the entire content of billions of existing Web pages using hand-held devices in a simple and reasonable way.

Please replace paragraph [0093] with the following amended paragraph:

[0093] Next, in a block 166, the vectors and boundary boxes are processed based on the scale and offset, and a bounding box defining the limits of the display content is determined. The results of this step are shown in FIGURE 4F, while FIGURE 4G shows specific details ~~one~~ on how the vectors and bounding boxes corresponding to image objects 250B and ~~250B~~ 252B (now 250B' and 252B', respectively) are processed. Logically, there are generally two ways to scale and offset the rendered content. In one embodiment, vectors and bounding boxes are mapped to a virtual display area in memory that has much greater resolution (*e.g.*, 100,000x100,000 pixels) than any real display, and a virtual display limit bounding box is scaled and moved around over the virtual display area. Accordingly, during subsequent processing described below, objects falling within the display bounding box are rendered by reducing the scaling of those objects in the virtual display to how the objects will appear on the client device display relative to the virtual display bounding box. In the alternate, a fixed reference frame corresponding to the display resolution of the client device screen is maintained, wherein all vectors and bounding boxes are scaled and offset relative to the fixed reference frame. Each scheme has its advantages and disadvantages. One advantage of the second method is that the

display bounding box is always maintained to have a size that matches the resolution of the content display area on the client device.

In the Drawings

Please replace the drawing sheet for each drawing with the corresponding replacement sheet provided herewith. The primary purpose of the replacement sheets is to file the drawing sheets in native PDF format, as opposed to scanned PDF format, thus providing better quality and resolution for reproduction purposes. In addition, errant references to "XLM" in block 114 in each of FIGs 2A, 2B, and 2C have been replaced with "XML".

REMARKS

The present amendment is to correct minor inadvertent errors in the originally-filed application and drawings. Entry of this amendment is respectfully solicited.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: November 28, 2009 /S/ R. Alan Burnett
R. Alan Burnett
Reg. No. 46,149

4108 131st Ave SE
Bellevue, WA 98006

Electronic Acknowledgement Receipt	
EFS ID:	6533097
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	28-NOV-2009
Filing Date:	15-APR-2007
Time Stamp:	13:01:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	P001XC2_Supplemental_IDS_Ltr.pdf	37037 a929dbe5a29bbc4f3588d2fd5c6e7360d5526e0c	no	4
Warnings:					
Information:					

2	Information Disclosure Statement (IDS) Filed (SB/08)	P001XC2_US_IDS_Form_SB_08a_supp.pdf	525234 58800b9bdcea1aa5a3473973ce1bc11d3e670499	no	10
Warnings:					
Information:					
3	Foreign Reference	GB0009129.pdf	1216913 3001b582f162b406f2e74ab49a87408608b3edfd	no	34
Warnings:					
Information:					
4	Foreign Reference	JP10334082.pdf	782688 528acfd2b85cf463af39159b39957239dfa253b1	no	21
Warnings:					
Information:					
5	Foreign Reference	JP10334082_Machine_Translation.pdf	60283 6fd2c4e4317c34275bf7471222bac269948961fa	no	10
Warnings:					
Information:					
6	Foreign Reference	JP10334082_FIG_14-16.pdf	27160 dbb86dad766f8b8eb72630c9d228d9f668cb4540	no	3
Warnings:					
Information:					
7	NPL Documents	WD-SVG-19990211.pdf	31342 808ab253a0956c486dfce1133431737de3ba4fb6	no	6
Warnings:					
Information:					
8	NPL Documents	CZWeb.pdf	146896 786766c76cf53f28c40b16520f69f5d07be91554	no	5
Warnings:					
Information:					
9	NPL Documents	60203494.pdf	988315 7621c67746149ee46bbe345e6ced590b10691d6b	no	20
Warnings:					
Information:					
10	NPL Documents	WebTV_Workshop_Submission_Paper-Spyglass.pdf	181250 c85c72c714ede590e51aa70fd51d7fc2dde09043	no	4
Warnings:					
Information:					

11	NPL Documents	Mobile_SVG-BitFlash_Inc.pdf	172781 09c855536881300d1d31d323676b5a7b387b2bcb	no	4
Warnings:					
Information:					
12	NPL Documents	Working_With_Autodesk_MapGuide-Articles.pdf	225647 1899f3c8a96ba3fc8b723fd28088883ce7b6863a	no	6
Warnings:					
Information:					
13	NPL Documents	09878097_Office_Actions.pdf	6062831 ec74b0854b9f74034a1cc262dafd8165d931eb18	no	69
Warnings:					
Information:					
14	NPL Documents	11045649_Office_Actions.pdf	3979987 f2f68645e284c5605b274cdbec4eb004d4b8ce53	no	53
Warnings:					
Information:					
15	NPL Documents	11045757_Office_Actions.pdf	5494848 6c239dc2937153d19b86bd876520fc7c9c93e806	no	68
Warnings:					
Information:					
16	NPL Documents	11738932_Office_Actions.pdf	3584183 19b4d71c6e1aab5cc4248e7f2b5a010e14130c86	no	47
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17	NPL Documents	Navigating_Hierarchically_Clustered_Networks.pdf	1330737 292db97caf88ec8736bda5a6c5576be901f34b9b	no	20
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Information:					
18	NPL Documents	Flip_Zooming-Focus_Context_Visualization_of_Linearly_Ordered_Discrete_Visual_Structures.pdf	302763 fa18986269c8d4e61bccafd2600bcf2da2aeca0a	no	28
Warnings:					
Information:					
19	Preliminary Amendment	P001XC2_Pre_Amd.pdf	46491 bf8ee48fd663524587039 8fa6b49ef9f519408b	no	9
Warnings:					
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Total Files Size (in bytes):	25197386

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Certificate of Electronic Filing

I hereby certify that this correspondence is being Electronically Filed via EFS on November 28, 2009
Date of Electronic Filing

R. Alan Burnett
Name of Person Filing Correspondence

/S/ R. Alan Burnett — November 28, 2009
Signature — Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Rohrabaugh et al.	)	Examiner: Herndon, Heather R.
	)	
Serial No. 11/735,482	)	Art Unit: 2176
	)	
Filed: April 15, 2007	)	
	)	
For: RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT	)	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
37 C.F.R.§§ 1.56, 1.97, 1.98

Sir:

Submitted herewith electronically is a PTO/SB/08a Information Disclosure Statement Form. Applicants respectfully requests that the cited documents be considered and that the electronically submitted copies of the Information Disclosure Statement form PTO/SB/08a be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant. Copies of the new non-patent literature references listed on the forms (which were not identified during in a previous IDS submission) are also being submitted electronically.

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as an admission that the information cited in this statement is material to patentability. Additionally, as to any reference supplied applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method.

In accordance with the decision in *McKesson Information Solutions, Inc. v. Bridge Medical, Inc.,* 487 F.3d 897 (Fed. Cir. 2007), applicants also submit herewith electronically copies of official actions issued by the USPTO for applications related to the present application (*i.e.*, applications in the same family). The following table lists all current related applications in the family, with the application for which the present IDS is being submitted shown in bold. Applicants note that the entire file histories for each of the applications listed below are available internally at the USPTO. However, applicants will provide an electronic copy of any action, response, reference, or any other paper in the file history of any of the application if so requested.

Application No.	Filing Date	Relationship	Status
60/211,345	06-12-2000	Provisional Application	Expired
60/217,345	07-11-2000	Provisional Application	Expired
09/828,511	04-07-2001	Original Non-provisional application	Abandoned
09/878,097	06-08-2001	Continuation-in-part of 09/828,511	7,210,099
11/045,649	01-28-2005	Divisional of 09/878,097	7,584,423
11/045,757	01-28-2005	Divisional of 09/878,097	7,461,353
11/735,477	04-15-2007	Continuation of 09/878,097	Awaiting First Action
11/735,482	**04-15-2007**	**Continuation of 09/878,097**	**Awaiting First Action**
11/738,486	04-21-2007	Continuation of 09/878,097	Awaiting First Action
11/738,932	04-23-2007	Continuation of 09/878,097	Non-Final Action
11/868,124	10-05-2007	Division of 11/045,757	Awaiting First Action
12/326,092	12-01-2008	Continuation of 11/045,757	Awaiting First Action

Submission of the USPTO Actions issued for the foregoing applications does not indicate that the Applicants agree with any rejection thereon, or in any position taken by an Examiner.

References 16-37 in the Non-patent Literature Documents Section of this PTO/SB/08a submission contain updated descriptions of previously submitted

references. Specifically, page numbers are now listed for most of the updated reference descriptions. It is noted that some of the references do not have explicit page numbers. For these references, a notation of "entirety (pages not numbered)" is provided. In consideration of not duplicating previous document submissions, electronic copies of the references corresponding to the updated descriptions are not re-submitted herewith.

A machine translation of the text for Japanese published application document JP10-334082 is submitted herewith in addition to the published application in its original Japanese language form. In addition, translations of the flowcharts of FIGs 14-16 are submitted herewith.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: November 28, 2009 /S/ R. Alan Burnett
R. Alan Burnett
Reg. No. 46,149

4108 131st Ave SE
Bellevue, WA 98006

PTO/SB/08a (08-03)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5956025		1999-09-21	Goulden et al.	
	2	6076166		2000-06-13	Moshfeghi et al.	
	3	6211856		2001-04-03	Choi et al.	
	4	6456308		2002-09-24	Agranet et al.	
	5	6466203		2002-10-15	Van Ee	
	6	6546397		2003-04-08	Rempell	
	7	6615212		2003-09-02	Dutta et al.	
	8	6781600		2004-08-24	Anwar	

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	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

	9	6886034		2005-04-26	Blumberg	
	10	6978418		2005-12-20	Bain et al.	
	11	6996533		2006-02-07	Ikeda et al.	
	12	7023572		2006-04-04	Tuli	
	13	7055095		2006-05-30	Anwar	
	14	7072984		2006-07-04	Polonsky et al.	
	15	7219309		2007-05-15	Kaasila et al.	
	16	7450114		2008-11-11	Anwar	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010015719		2001-08-23	Van Ee et al.	

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	2	20020023110		2002-02-21	Fortin et al.	
	3	20020030699		2002-03-14	Van Ee	
	4	20020158908		2002-10-31	Vaajala et al.	
	5	20040049598		2004-05-11	Tucker et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	0009129.8	GB		2000-04-14	Picsel Technologies Limited	7-10, 12, 13, 15, 17 Fig. 1	☐
	2	10-334082	JP	A	1998-12-18	A Hong Kong Company - name could not be translated	Figs. 14-16 and corresponding text in machine translation	☒

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	US Provisional Application No. 60/288,287 Available on PAIR	☐

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	Attorney Docket Number	005207.P001XC2

	2	US Provisional Application No. 60/296,275 Available on PAIR	☐
	3	US Provisional Application No. 60/296,237 Available on PAIR	☐
	4	US Provisional Application No. 60/296,274 Available on PAIR	☐
	5	US Provisional Application No. 60/296,284 Available on PAIR	☐
	6	US Provisional Application No. 60/296,231 Available on PAIR	☐
	7	US Provisional Application No. 60/296,224 Available on PAIR	☐
	8	US Provisional Application No. 60/296,426 Available on PAIR	☐
	9	US Provisional Application No. 60/296,273 Available on PAIR	☐
	10	US Provisional Application No. 60/296,283 Available on PAIR	☐
	11	US Provisional Application No. 60/296,281 Available on PAIR	☐
	12	US Provisional Application No. 60/296,327 Available on PAIR	☐

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	Attorney Docket Number	005207.P001XC2

	13	Scalable Vector Graphics (SVG) Specification W3C Working Draft 11-February-1999 http://www.w3.org/TR/1999/WD-SVG-19990211/--Pub Feb. 11, 1999 by W3C pp. 1-7	☐
	14	Fisher, B., G. Agelidis, J. Dill, P. Tan, G. Collaud and C. Jones. "CZWeb: Fish-Eye Views for Visualiziang the World-Wide Web", Proc. Seventh Int. Conf. on Human-Computer Interaction (HCI International '97), pp 719-722, 1997.	☐
	15	US Provisional Application No. 60/203,494 Available on PAIR Filing date May 11, 2000	☐
	16	BENJAMIN B. BEDERSON ET AL., Pad++: A Zoomable Graphical Sketchpad For Exploring Alternate Interface Physics, September 19, 1995, pp 1-30, http://www.cs.unm.edu/pad++	☐
	17	BENJAMIN B. BEDERSON ET AL., A Zooming Web Browser, SPIE 1996, http://www.cs.umd.edu/hcil/jazz/learn/papers/spie-96-webbrowser.pdf, entirety (pages not numbered)	☐
	18	Specification for Simple Vector Format (SVF) v1.1 Jan. 16, 1995, pp 1-9	☐
	19	Specification for Simple Vector Format (SFV) v2.0 Dec. 6, 2000, http://www.svf.org/spec.html, pp 1-20	☐
	20	SVF XML http://www.svf.org/svfxml.html, pp 1-18	☐
	21	Changes to SVF (Date unknown), pp 1-2	☐
	22	Scalable Vector Graphics (SVG) 1.0 Specification, W3C Candidate Recommendation 02 November 2000, pp 1-513	☐
	23	Introduction to SVG, part of WD-SVG-19990211, http://www.w3.org/TR/1999/ WD-SVG-19990211/intro.html#Document..., pp 1-3	☐

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	24	W3C Scalable Vector Graphics (SVG) – History, http://www.w3.org/Graphics/SVG/History, pp 1-18	☐
	25	JANUS BOYE, SVG Brings Fast Vector Graphics to Web, 29 July 1999 http://www.irt.org/articles/js176/, pp 1-5	☐
	26	Vector Markup Language (VML), World Wide Web Consortium Note 13-May-1998, NOTE-VML-19980513, http://www.w3.org/TR/1998/NOTE-VML_19980513, pp 1-47	☐
	27	Vector Markup Language, http://en.wikipedia.org/wiki/Vector_Markup_Language, pp 1-2	☐
	28	Precision Graphics Markup Language (PGML), World Wide Web Consortium Note 10-April-1998, NOTE-PGML-19980410, http://www.w3.org/TR/1998/NOTE-PGML-19980410, pp 1-31	☐
	29	PCT International Search Report for International Application No. PCT/US01/40920, International Searching Authority, European Patent Office, Dec. 27, 2001, pp 1-8	☐
	30	PCT International Preliminary Exam Report for International Application No. PCT/US01/40920, International Preliminary Examining Authority, European Patent Office, Jun. 20, 2002, pp 1-5	☐
	31	Dennis, "Webraska Joins W3C for Next Generation Internet Graphics," Newsbytes, May 8, 2000, entirety (pages not numbered)	☐
	32	Fox et al. "Experience With Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot" Proceedings of Middleware '98, 1998, entirety (pages not numbered)	☐
	33	"TADPOLE TECHNOLOGY: ILOG technology within Tadpole's Cartesia Redline system making repairs simpler," M2 Presswire, Jan. 1999, entirety (pages not numbered)	☐
	34	Thryft, "Wireless link ramped for 'always on' Internet," EETimes, March 23, 1999, pp 1-4	☐

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	35	Bharadvaj et al., "An Active Transcoding Proxy to Support Mobile Web Access," Proc. of the IEEE Symposium on Reliable Distributed Systems, 1998, entirety (pages not numbered)	☐
	36	Björk, et al., "WEST: A Web Browser for Small Terminals," Proceedings of the 12 ACM symposium on User Interface Software and Technology (1999), entirety (pages not numbered)	☐
	37	Holmquist, "The Zoom Browser," Human IT Tridskrift för studier av IT ur ett humanvetenskaplight perspektive, March, 1998, pp 1-18	☐
	38	Chapple, "Rethinking the role of an embedded Internet client in digital set-top boxes," WebTV Workshop Submission Paper, June, 1998, http://www.w3.org/Architecture/1998/06/Workshop/paper11/, pp 1-4	☐
	39	Graham, "Mobile SVG at BitFlash Inc.", May 2001, http://www.w3.org/Talks/2002/1007-DI-Helsinki/bitflash/index.html, pp 1-4	☐
	40	Koncz, "Working with Autodesk Mapguide," November 2000, http://www.directionsmag.com/article.php?article_id=77&trv=1, pp 1-6	☐
	41	Official USPTO Actions for Application Serial No. 09/878,097	☐
	42	Official USPTO Actions for Application Serial No. 11/045,649	☐
	43	Official USPTO Actions for Application Serial No. 11/045,757	☐
	44	Official USPTO Actions for Application Serial No. 11/738,932	☐
	45	Schaffer et al- "Navigating Hierarchically Cluster Networks through Fisheye and Full-Zoom Methods," 03/24/1988- pp 1-20	☐

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	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

	46	Holmquist "Flip Zooming: Focus+Context Visualization of Linearly Ordered Discrete Visual Structures," Published 2000, pp 27-53	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/R. Alan Burnett/	Date (YYYY-MM-DD)	2009-11-27
Name/Print	R. Alan Burnett	Registration Number	46149

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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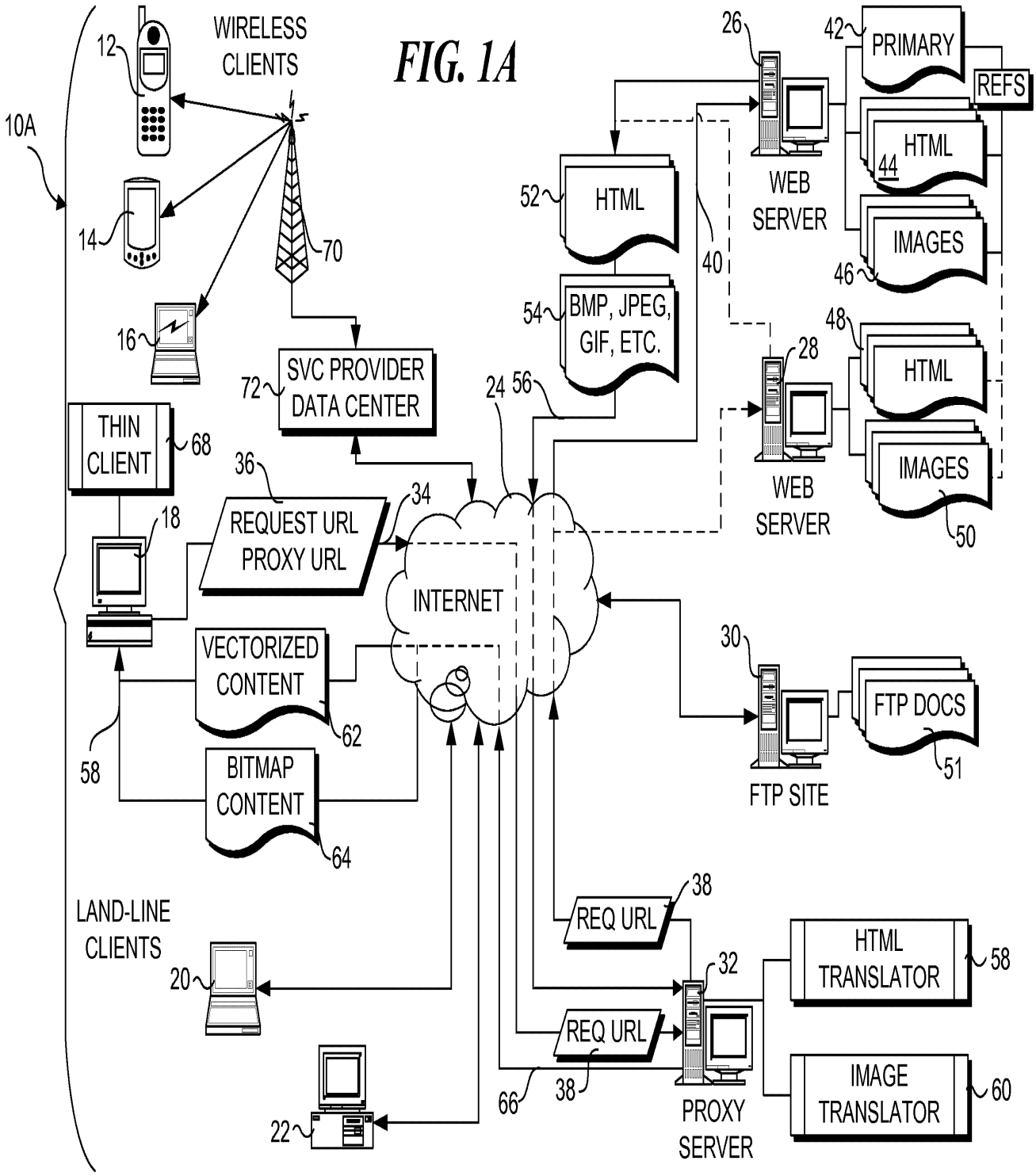


FIG. 1A

Replacement Sheet

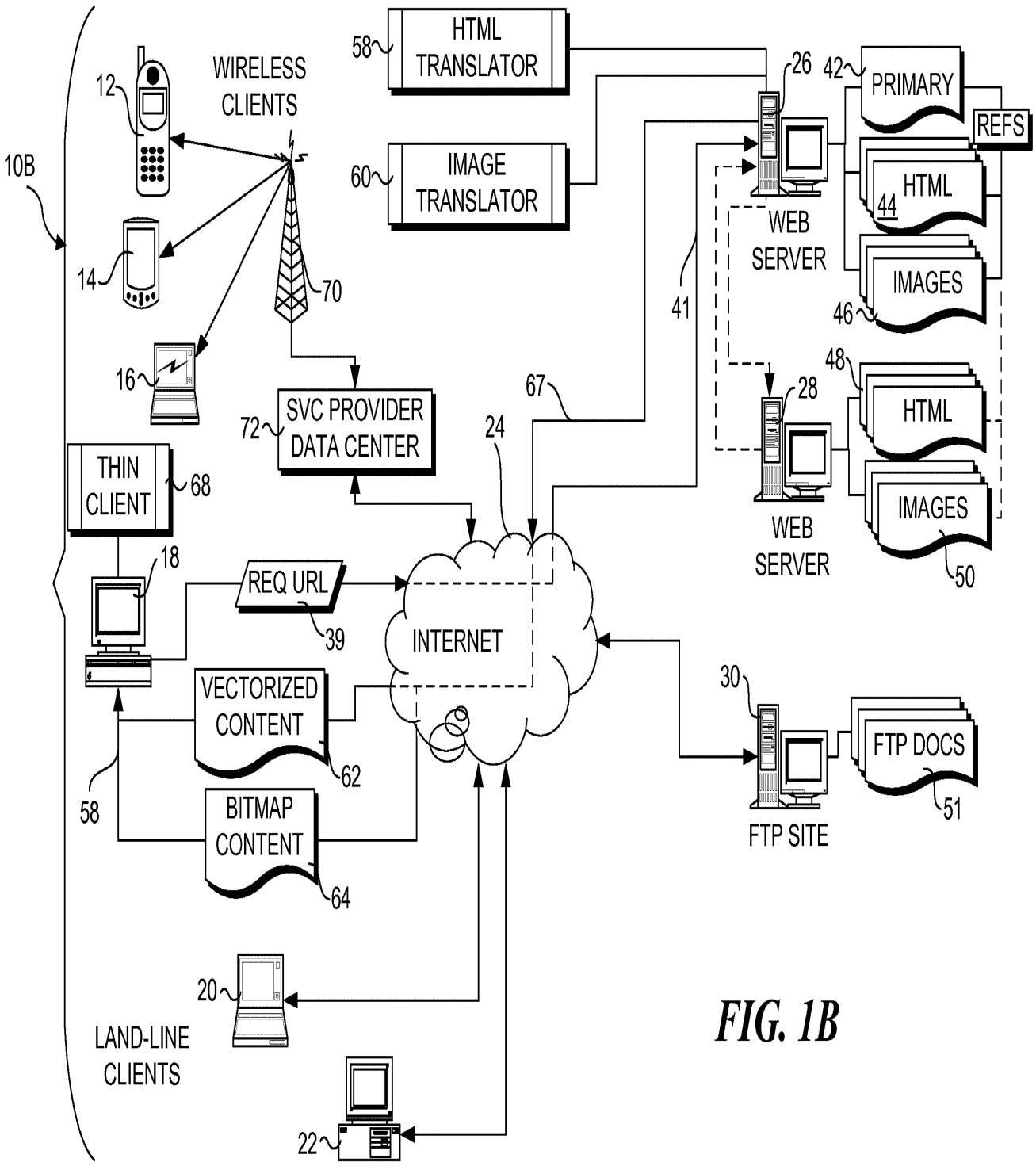


FIG. 1B

Replacement Sheet

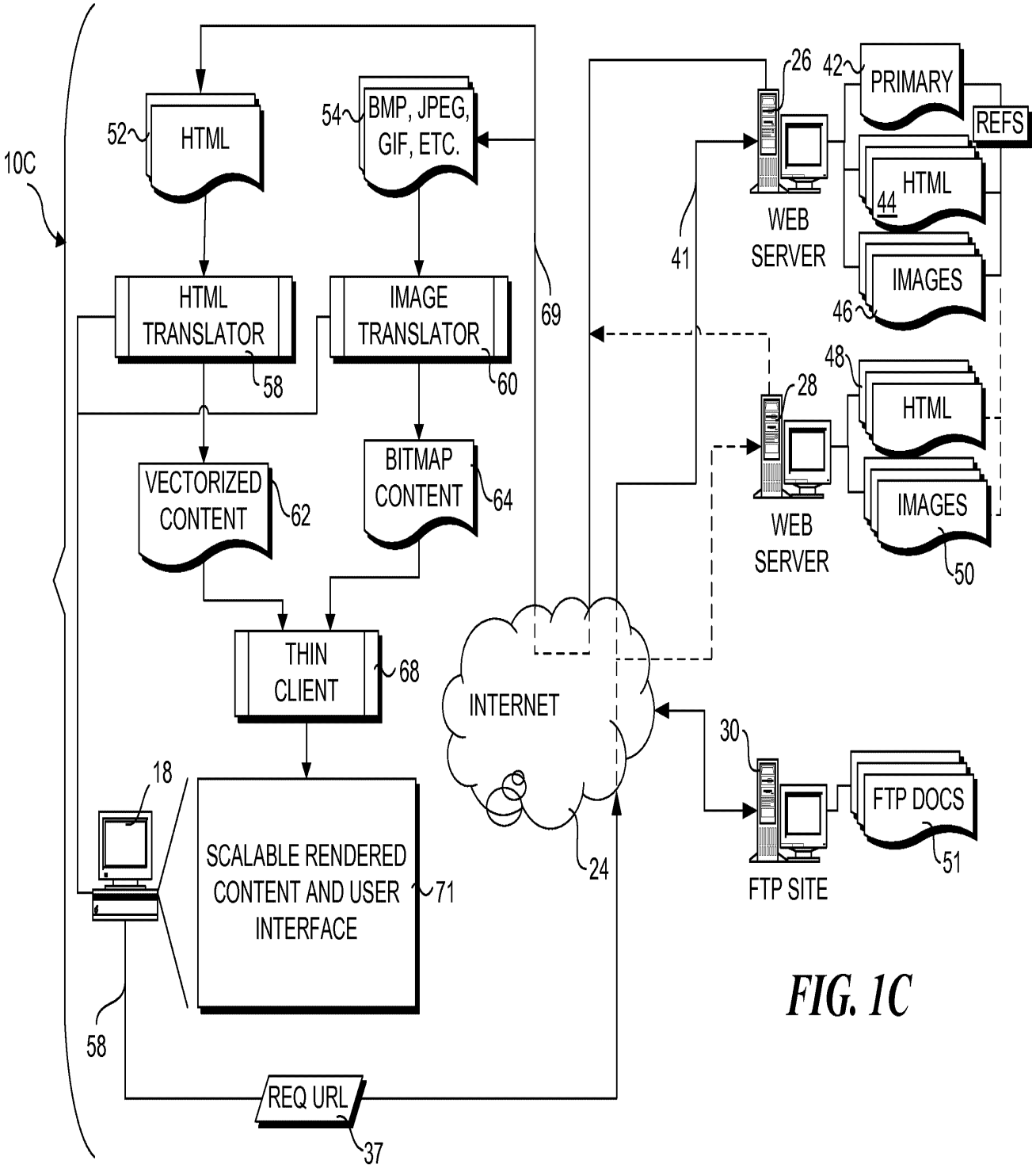


FIG. 1C

Replacement Sheet

FIG. 2A

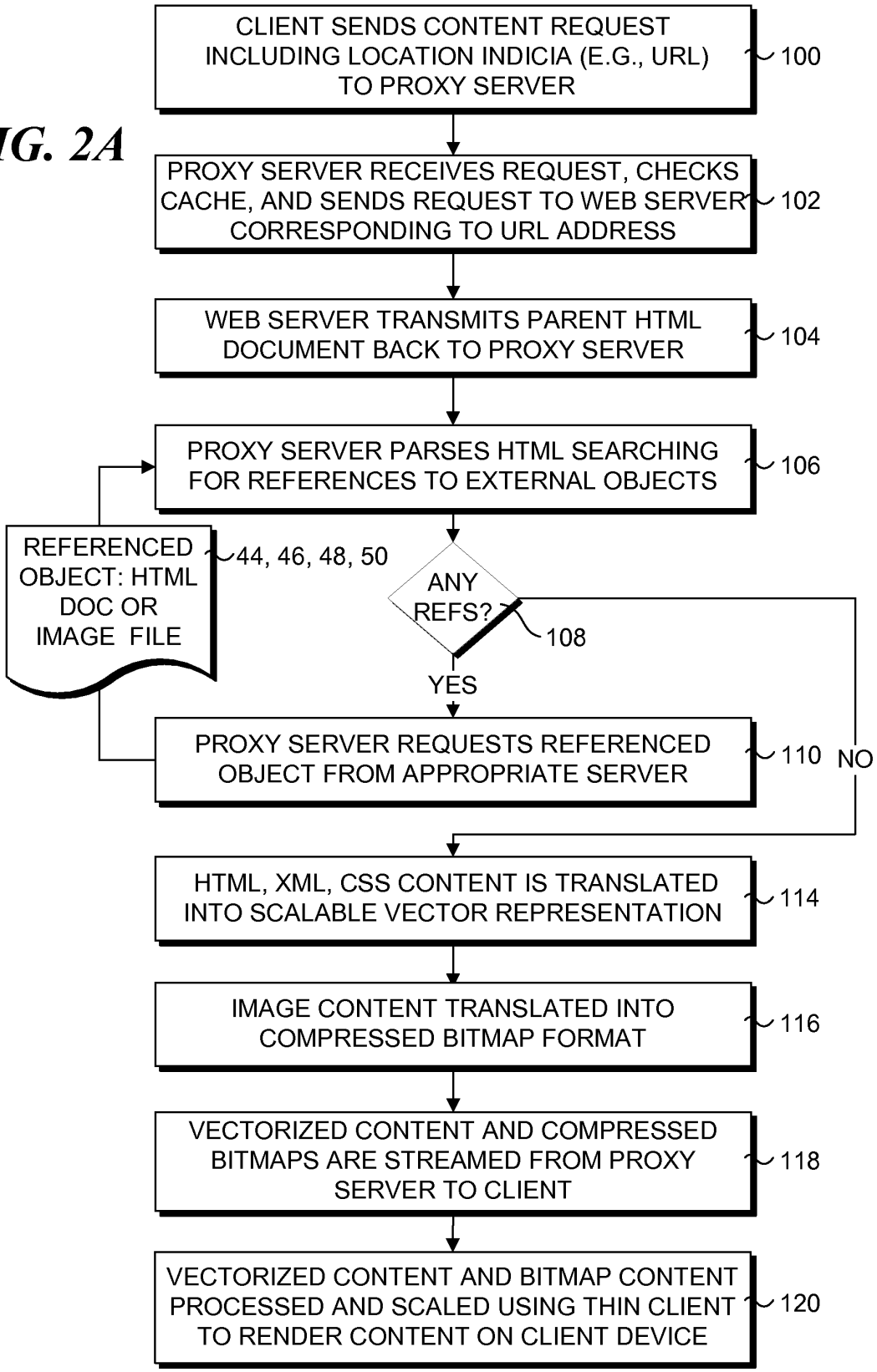

CLIENT SENDS CONTENT REQUEST INCLUDING LOCATION INDICIA (E.G., URL) TO PROXY SERVER
100
PROXY SERVER RECEIVES REQUEST, CHECKS CACHE, AND SENDS REQUEST TO WEB SERVER CORRESPONDING TO URL ADDRESS
102
WEB SERVER TRANSMITS PARENT HTML DOCUMENT BACK TO PROXY SERVER
104
PROXY SERVER PARSES HTML SEARCHING FOR REFERENCES TO EXTERNAL OBJECTS
106
REFERENCED OBJECT: HTML DOC OR IMAGE FILE
44, 46, 48, 50
ANY REFS?
108
YES
NO
PROXY SERVER REQUESTS REFERENCED OBJECT FROM APPROPRIATE SERVER
110
HTML, XML, CSS CONTENT IS TRANSLATED INTO SCALABLE VECTOR REPRESENTATION
114
IMAGE CONTENT TRANSLATED INTO COMPRESSED BITMAP FORMAT
116
VECTORIZED CONTENT AND COMPRESSED BITMAPS ARE STREAMED FROM PROXY SERVER TO CLIENT
118
VECTORIZED CONTENT AND BITMAP CONTENT PROCESSED AND SCALED USING THIN CLIENT TO RENDER CONTENT ON CLIENT DEVICE
120

FIG. 2B

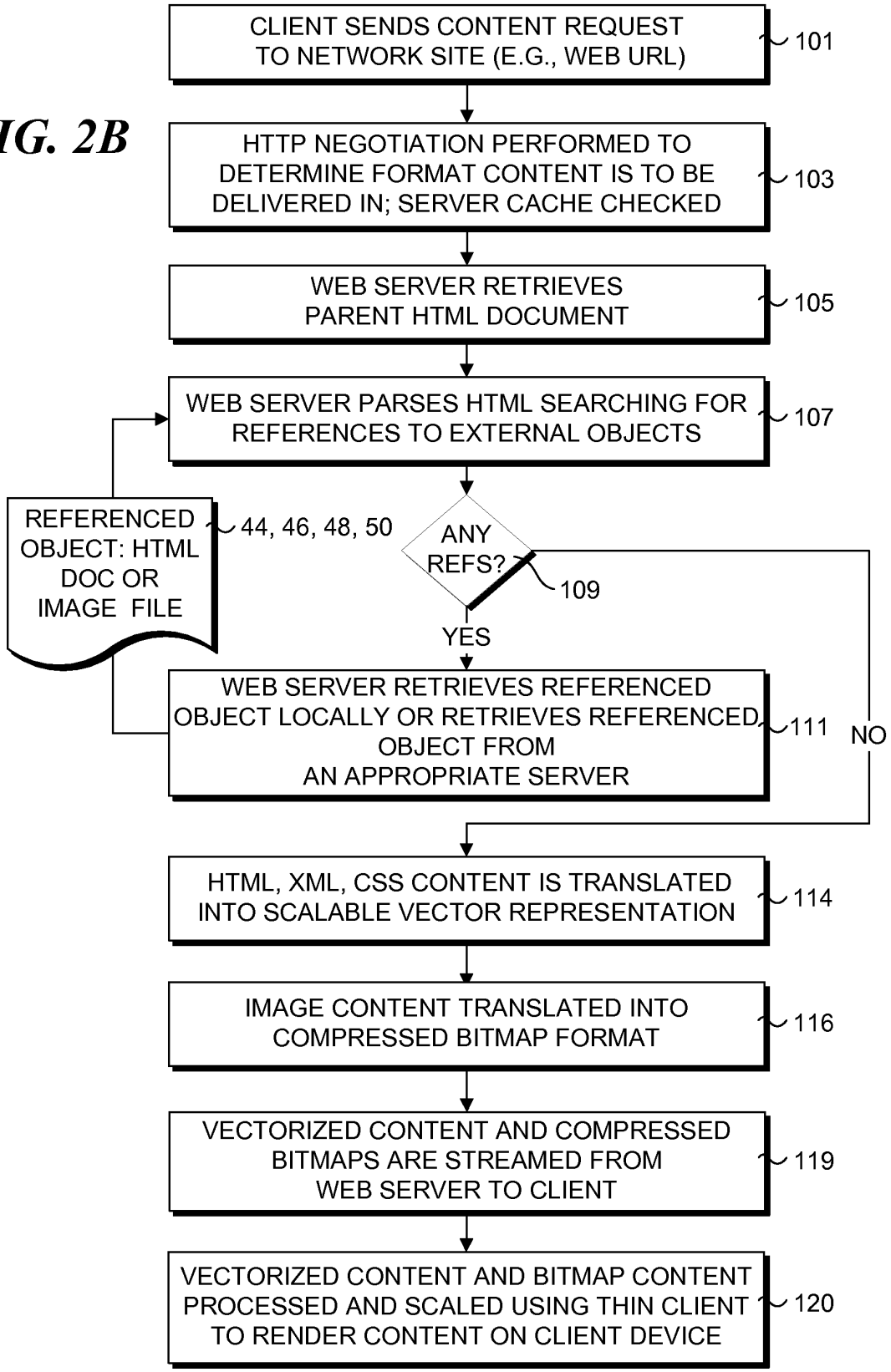
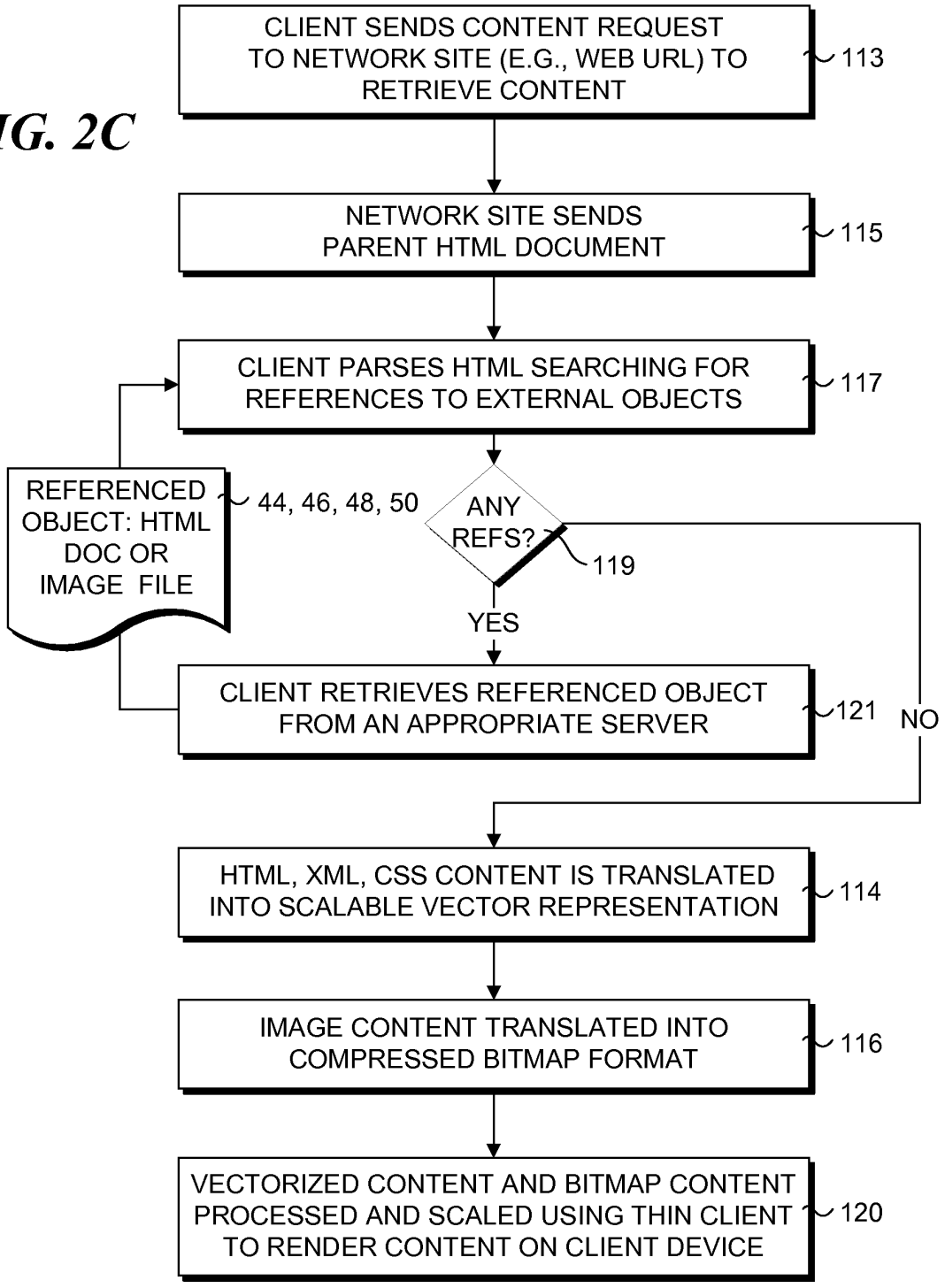

CLIENT SENDS CONTENT REQUEST TO NETWORK SITE (E.G., WEB URL)
101
HTTP NEGOTIATION PERFORMED TO DETERMINE FORMAT CONTENT IS TO BE DELIVERED IN; SERVER CACHE CHECKED
103
WEB SERVER RETRIEVES PARENT HTML DOCUMENT
105
WEB SERVER PARSES HTML SEARCHING FOR REFERENCES TO EXTERNAL OBJECTS
107
REFERENCED OBJECT: HTML DOC OR IMAGE FILE
44, 46, 48, 50
ANY REFS?
109
YES
NO
WEB SERVER RETRIEVES REFERENCED OBJECT LOCALLY OR RETRIEVES REFERENCED OBJECT FROM AN APPROPRIATE SERVER
111
HTML, XML, CSS CONTENT IS TRANSLATED INTO SCALABLE VECTOR REPRESENTATION
114
IMAGE CONTENT TRANSLATED INTO COMPRESSED BITMAP FORMAT
116
VECTORIZED CONTENT AND COMPRESSED BITMAPS ARE STREAMED FROM WEB SERVER TO CLIENT
119
VECTORIZED CONTENT AND BITMAP CONTENT PROCESSED AND SCALED USING THIN CLIENT TO RENDER CONTENT ON CLIENT DEVICE
120

FIG. 2C


CLIENT SENDS CONTENT REQUEST TO NETWORK SITE (E.G., WEB URL) TO RETRIEVE CONTENT
113
NETWORK SITE SENDS PARENT HTML DOCUMENT
115
CLIENT PARSES HTML SEARCHING FOR REFERENCES TO EXTERNAL OBJECTS
117
REFERENCED OBJECT: HTML DOC OR IMAGE FILE
44, 46, 48, 50
ANY REFS?
119
YES
NO
CLIENT RETRIEVES REFERENCED OBJECT FROM AN APPROPRIATE SERVER
121
HTML, XML, CSS CONTENT IS TRANSLATED INTO SCALABLE VECTOR REPRESENTATION
114
IMAGE CONTENT TRANSLATED INTO COMPRESSED BITMAP FORMAT
116
VECTORIZED CONTENT AND BITMAP CONTENT PROCESSED AND SCALED USING THIN CLIENT TO RENDER CONTENT ON CLIENT DEVICE
120

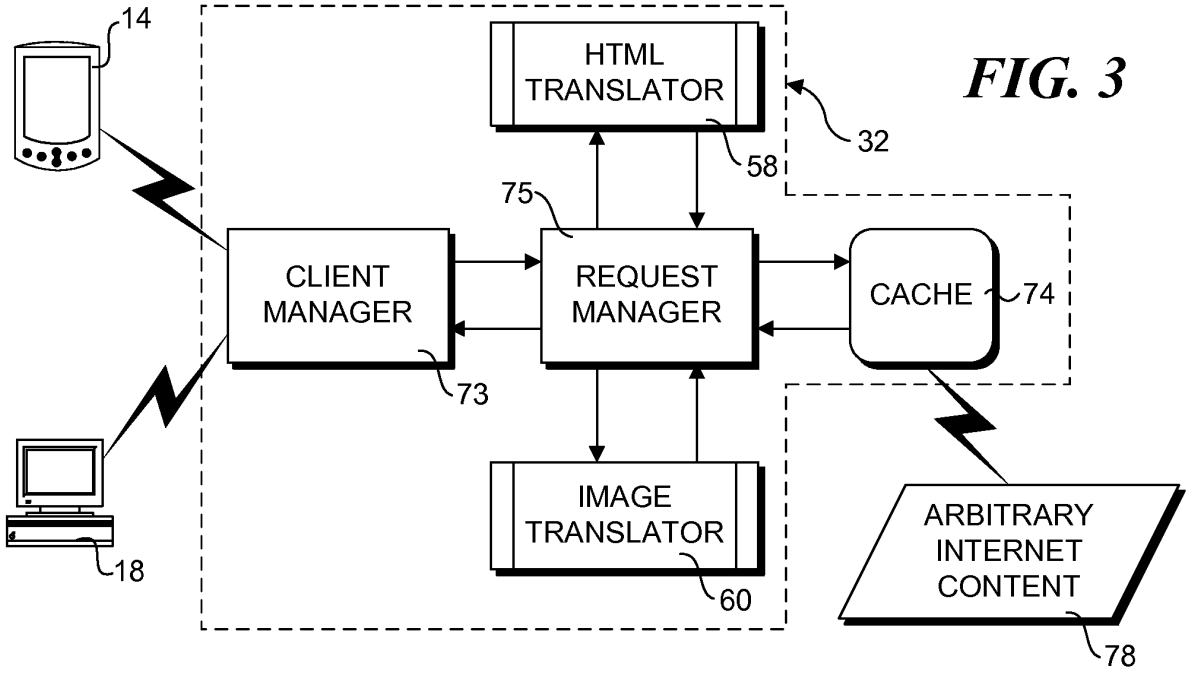

14
HTML TRANSLATOR
58
32
75
CLIENT MANAGER
73
REQUEST MANAGER
CACHE
74
IMAGE TRANSLATOR
60
18
ARBITRARY INTERNET CONTENT
78

FIG. 3

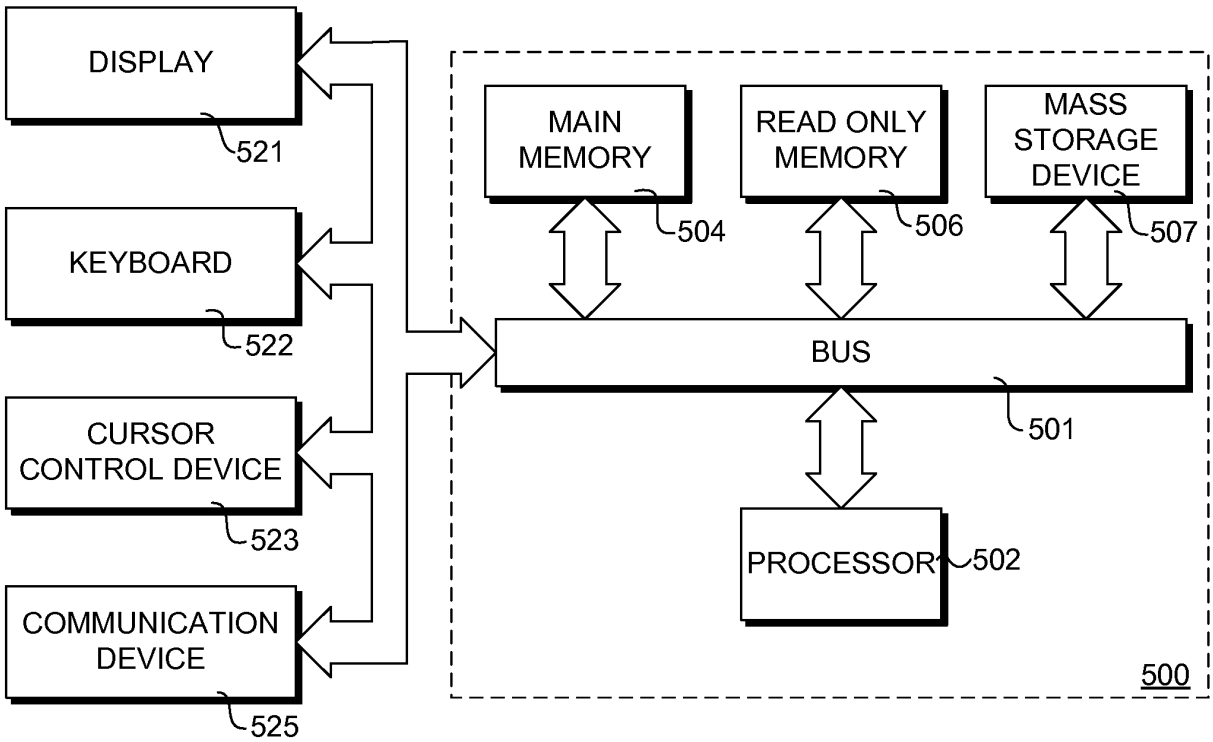

DISPLAY
521
KEYBOARD
522
CURSOR CONTROL DEVICE
523
COMMUNICATION DEVICE
525
MAIN MEMORY
504
READ ONLY MEMORY
506
MASS STORAGE DEVICE
507
BUS
501
PROCESSOR
502
500

FIG. 10

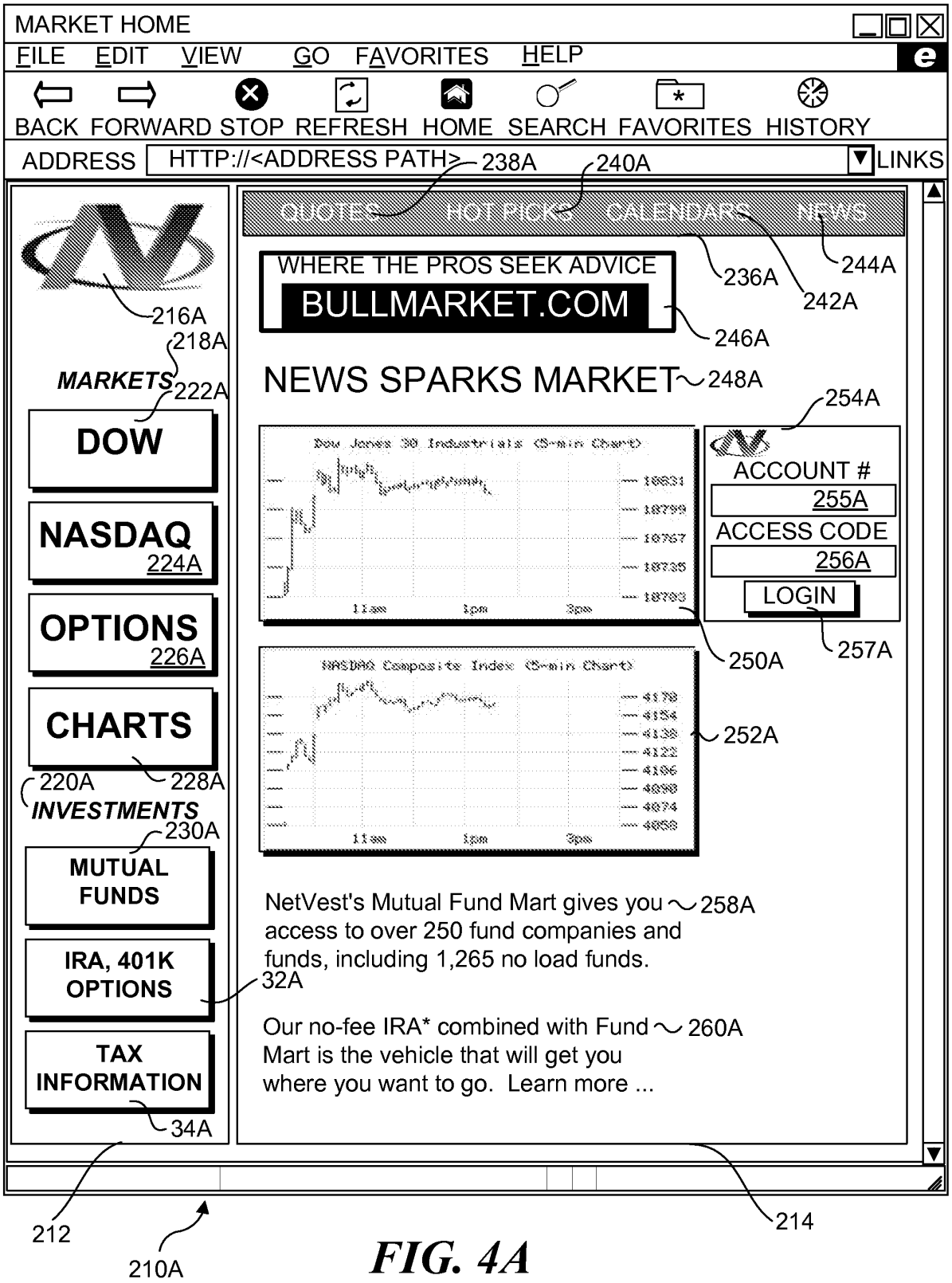

MARKET HOME
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://<ADDRESS PATH>
LINKS
238A
240A
QUOTES
HOT PICKS
CALENDARS
NEWS
244A
236A
242A
WHERE THE PROS SEEK ADVICE
BULLMARKET.COM
246A
216A
218A
MARKETS
222A
DOW
NASDAQ
224A
OPTIONS
226A
CHARTS
220A
228A
INVESTMENTS
230A
MUTUAL FUNDS
IRA, 401K OPTIONS
32A
TAX INFORMATION
34A
NEWS SPARKS MARKET
248A
254A
ACCOUNT #
255A
ACCESS CODE
256A
LOGIN
257A
250A
252A
NetVest's Mutual Fund Mart gives you access to over 250 fund companies and funds, including 1,265 no load funds.
258A
Our no-fee IRA* combined with Fund Mart is the vehicle that will get you where you want to go. Learn more ...
260A
212
210A
214

FIG. 4A

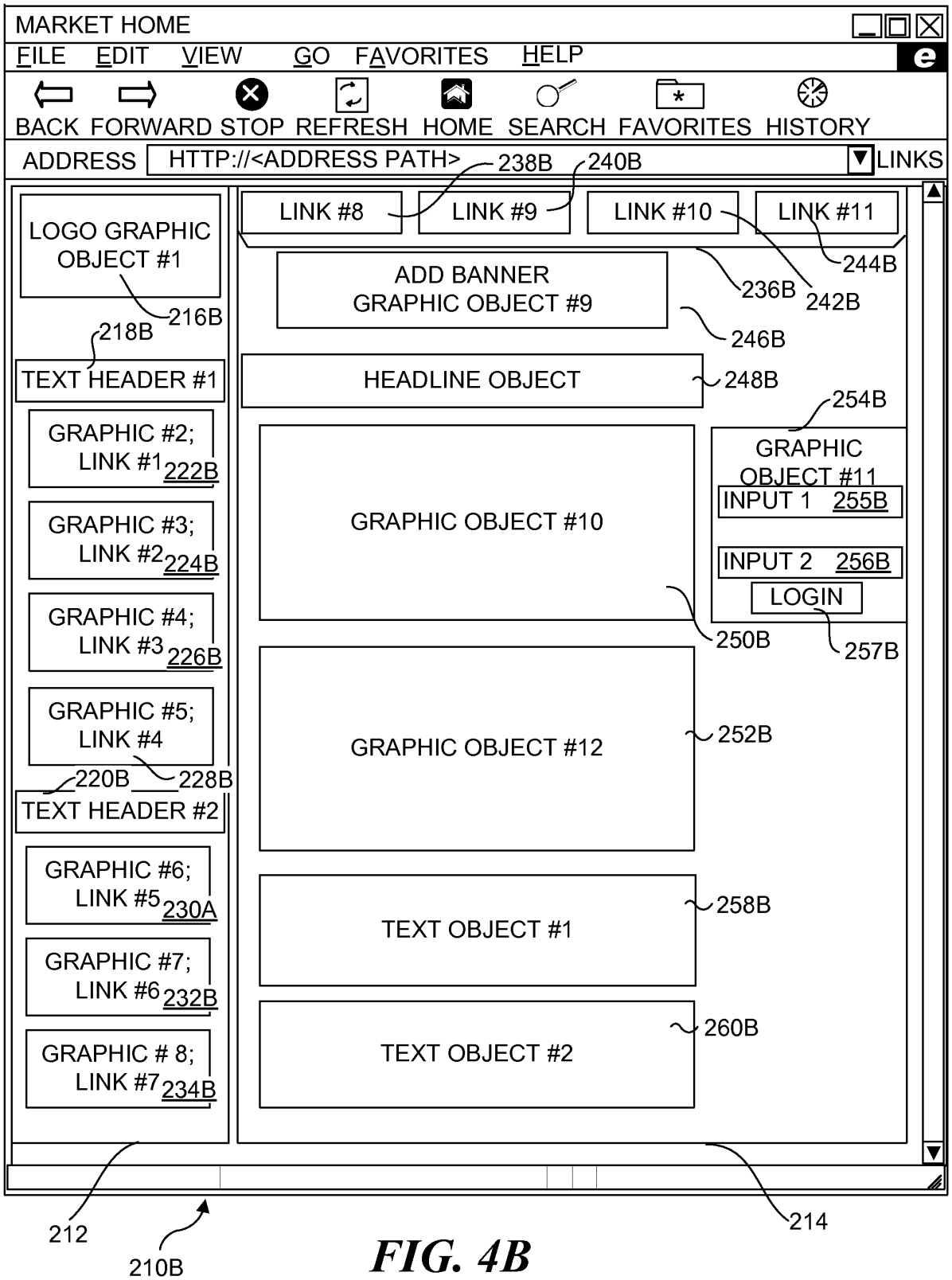

MARKET HOME
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://<ADDRESS PATH>
238B
240B
LINKS
LOGO GRAPHIC OBJECT #1
216B
218B
TEXT HEADER #1
GRAPHIC #2; LINK #1 222B
GRAPHIC #3; LINK #2 224B
GRAPHIC #4; LINK #3 226B
GRAPHIC #5; LINK #4
220B
228B
TEXT HEADER #2
GRAPHIC #6; LINK #5 230A
GRAPHIC #7; LINK #6 232B
GRAPHIC # 8; LINK #7 234B
LINK #8
LINK #9
LINK #10
LINK #11
244B
ADD BANNER GRAPHIC OBJECT #9
236B
242B
246B
HEADLINE OBJECT
248B
254B
GRAPHIC OBJECT #10
GRAPHIC OBJECT #11
INPUT 1 255B
INPUT 2 256B
LOGIN
250B
257B
GRAPHIC OBJECT #12
252B
TEXT OBJECT #1
258B
TEXT OBJECT #2
260B
212
210B
214

FIG. 4B

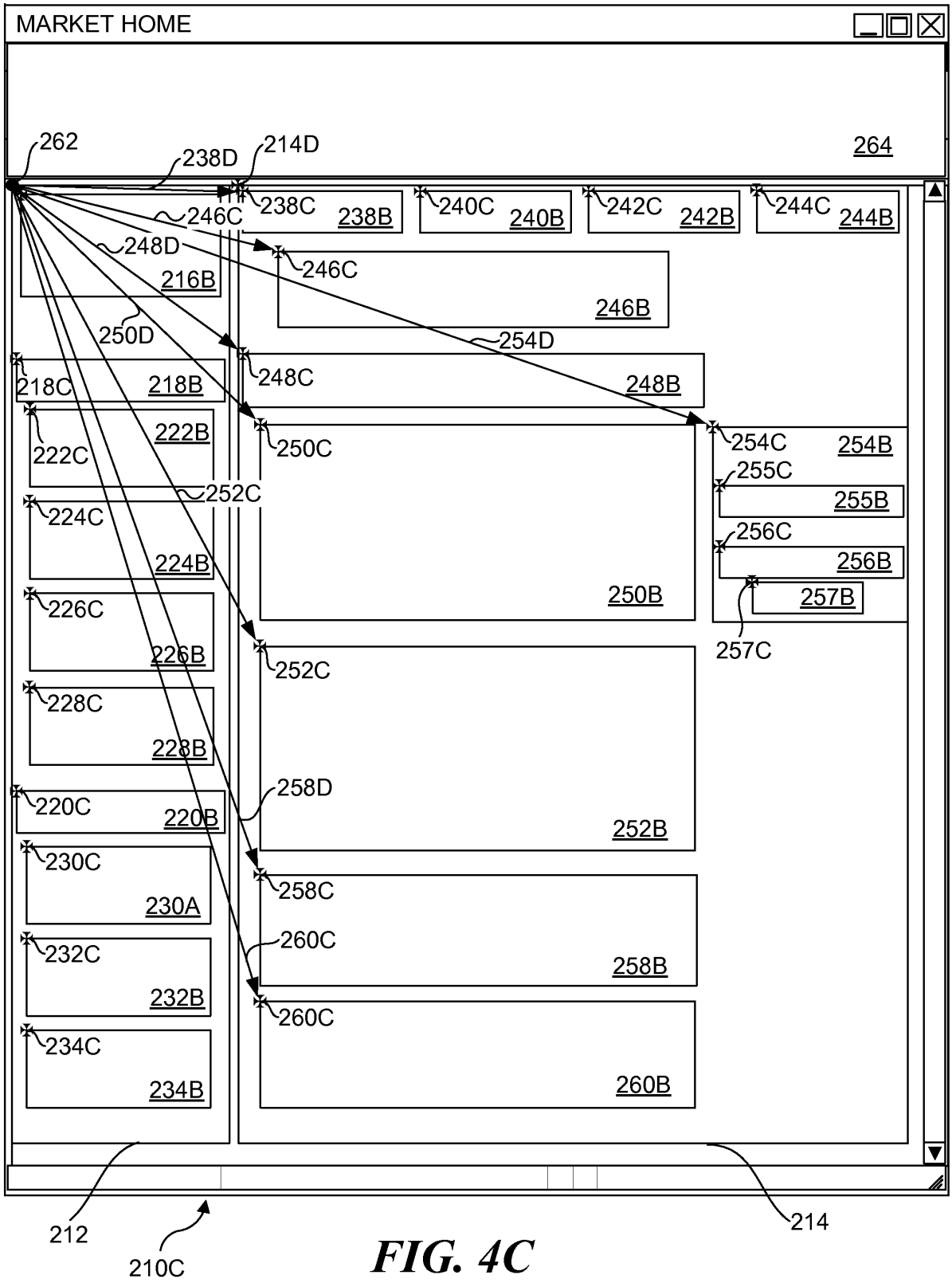

MARKET HOME
262
238D
214D
264
238C
238B
240C
240B
242C
242B
244C
244B
246C
248D
216B
246C
246B
250D
254D
218C
218B
248C
248B
222B
222C
250C
254C
254B
255C
255B
252C
224C
224B
256C
256B
257B
250B
226C
226B
257C
252C
228C
228B
220C
220B
258D
252B
230C
230A
258C
232C
260C
232B
258B
234C
234B
260C
260B
212
210C
214

FIG. 4C

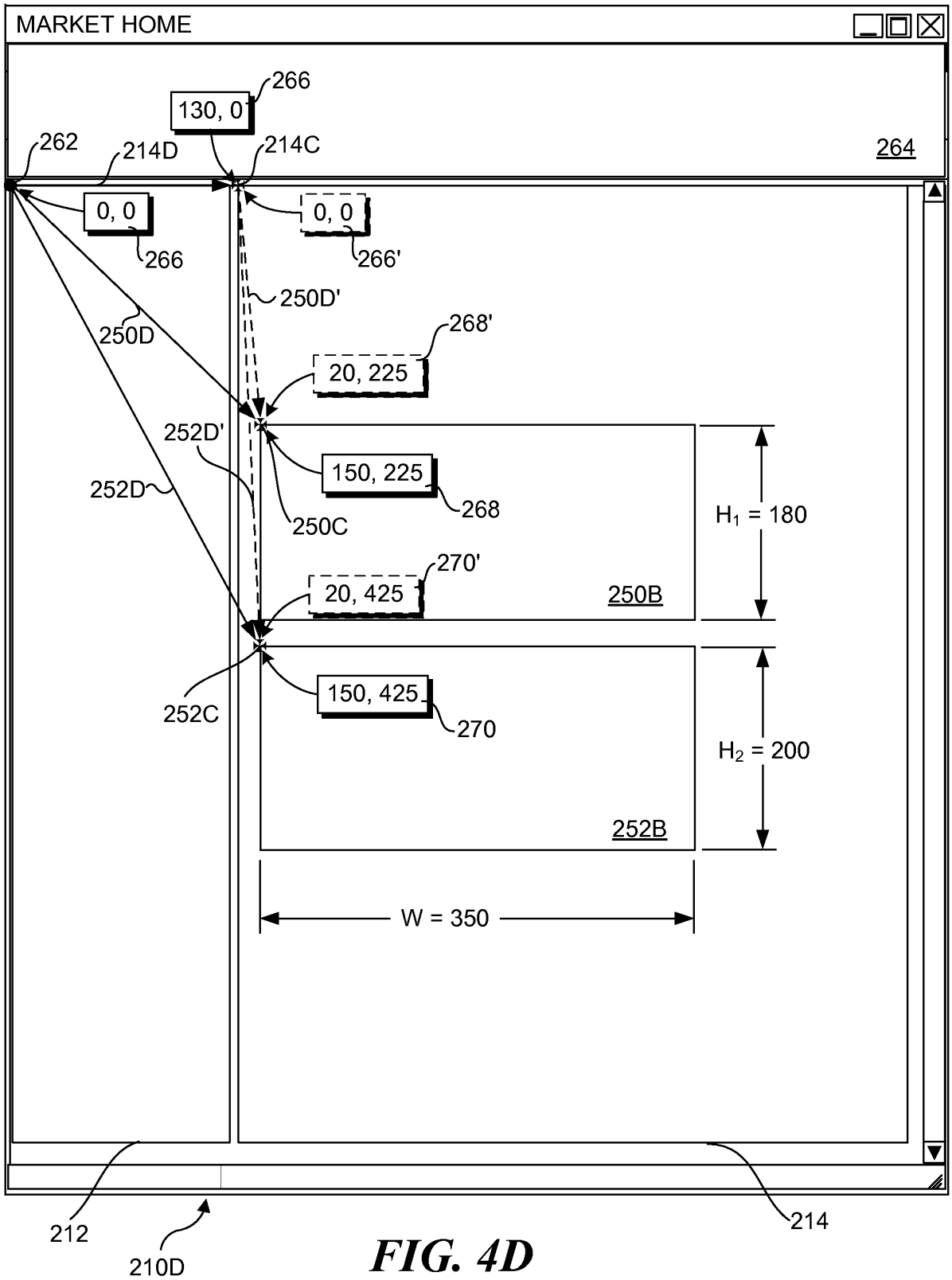
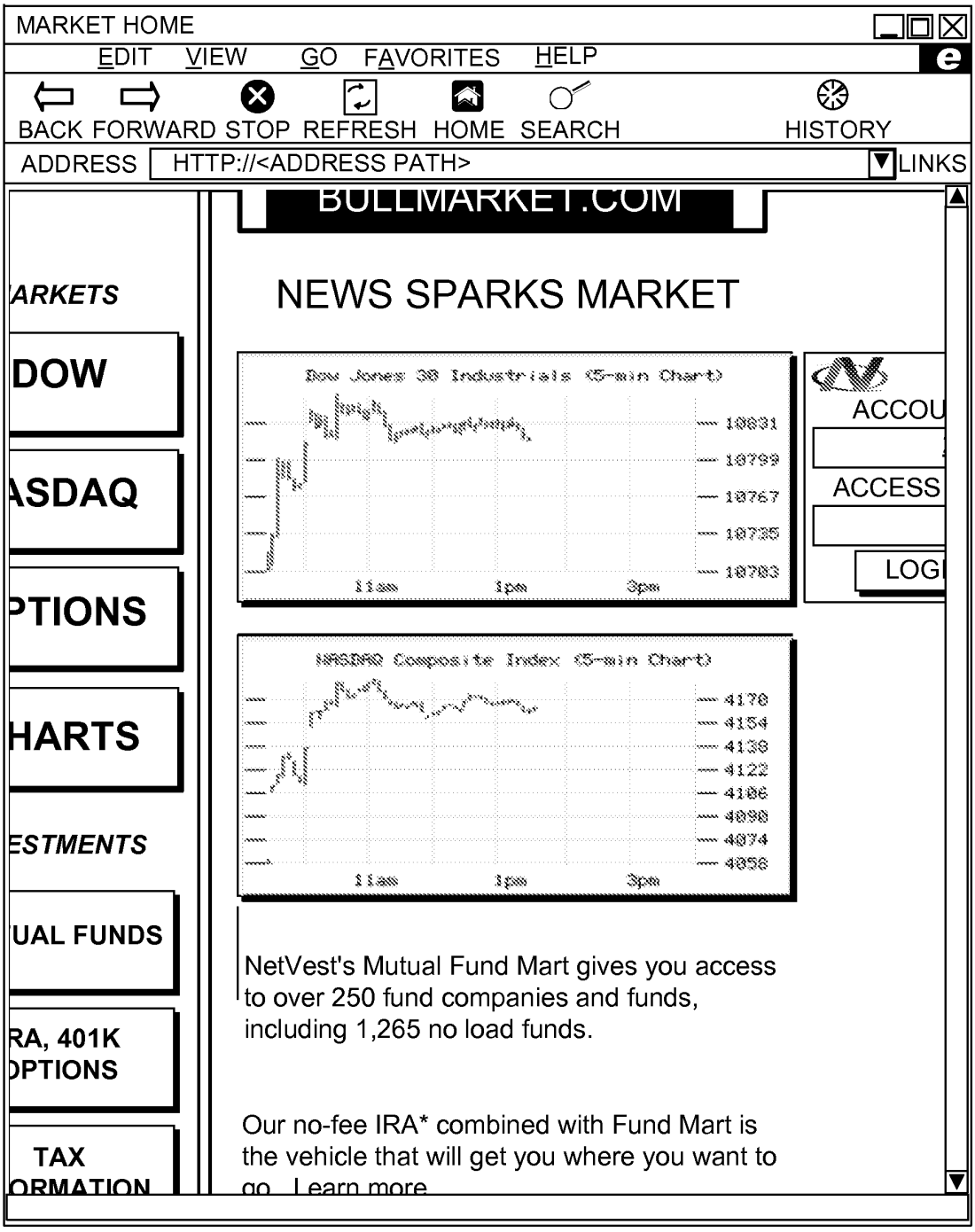

MARKET HOME
266
130, 0
262
214D
214C
264
0, 0
266
0, 0
266'
250D'
250D
268'
20, 225
252D'
252D
150, 225
268
250C
H1 = 180
270'
20, 425
250B
252C
150, 425
270
H2 = 200
252B
W = 350
212
210D
214

FIG. 4D


MARKET HOME
EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH HISTORY
ADDRESS HTTP://<ADDRESS PATH>
LINKS
BULLMARKET.COM
ARKETS
DOW
ASDAQ
PTIONS
HARTS
ESTMENTS
UAL FUNDS
RA, 401K
PTIONS
TAX
ORMATION
NEWS SPARKS MARKET
Dow Jones 30 Industrials (5-min Chart)
10831
10799
10767
10735
10703
11am
1pm
3pm
ACCOU
ACCESS
LOG
NASDAQ Composite Index (5-min Chart)
4170
4154
4138
4122
4106
4090
4074
4058
11am
1pm
3pm
NetVest's Mutual Fund Mart gives you access to over 250 fund companies and funds, including 1,265 no load funds.
Our no-fee IRA* combined with Fund Mart is the vehicle that will get you where you want to go. Learn more

210E

FIG. 4E

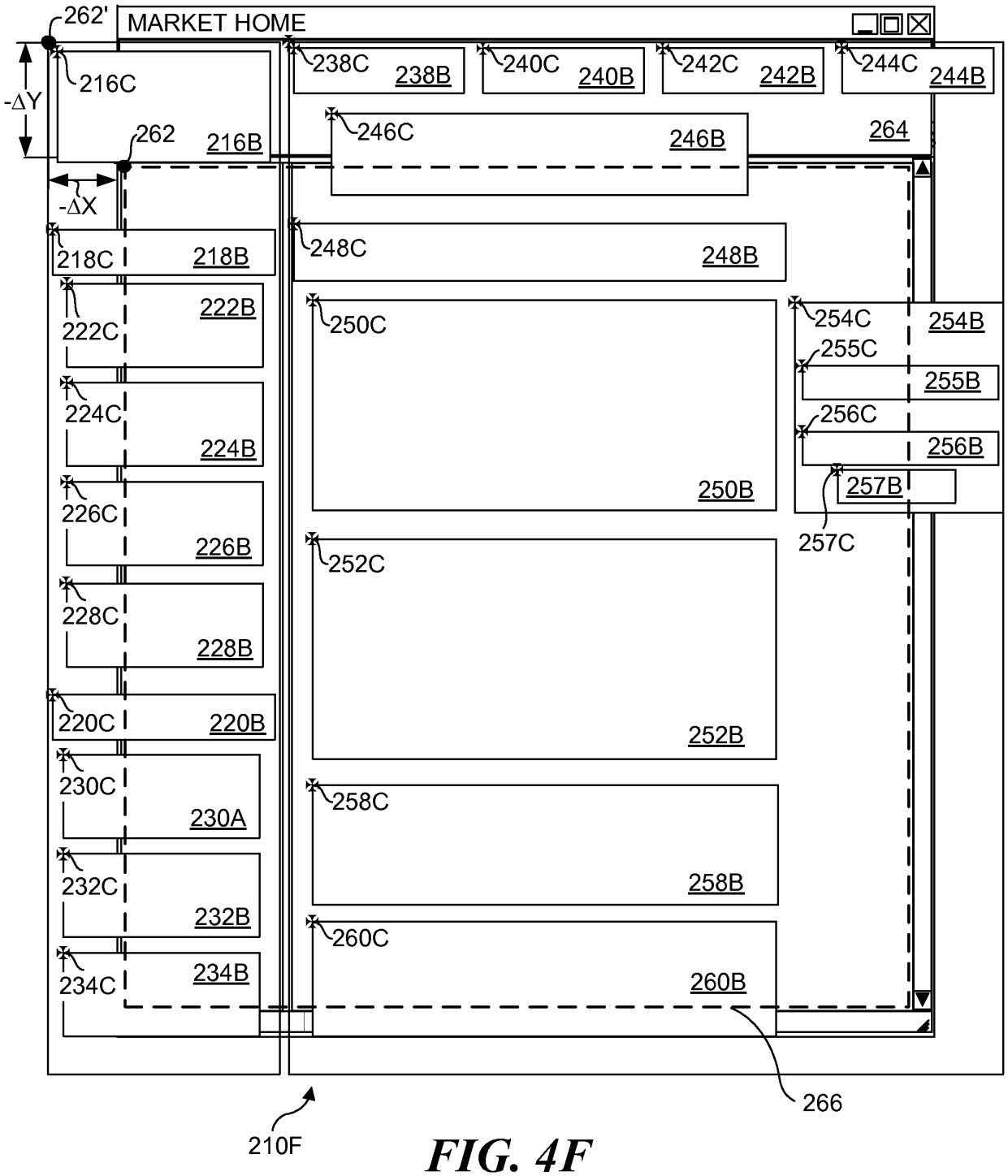

262'
MARKET HOME
216C
-ΔY
262
216B
238C
238B
240C
240B
242C
242B
244C
244B
246C
246B
264
-ΔX
218C
218B
248C
248B
222C
222B
250C
254C
254B
255C
255B
224C
224B
256C
256B
226C
226B
250B
257B
257C
228C
228B
252C
220C
220B
252B
230C
230A
258C
258B
232C
232B
260C
234C
234B
260B
266
210F

FIG. 4F

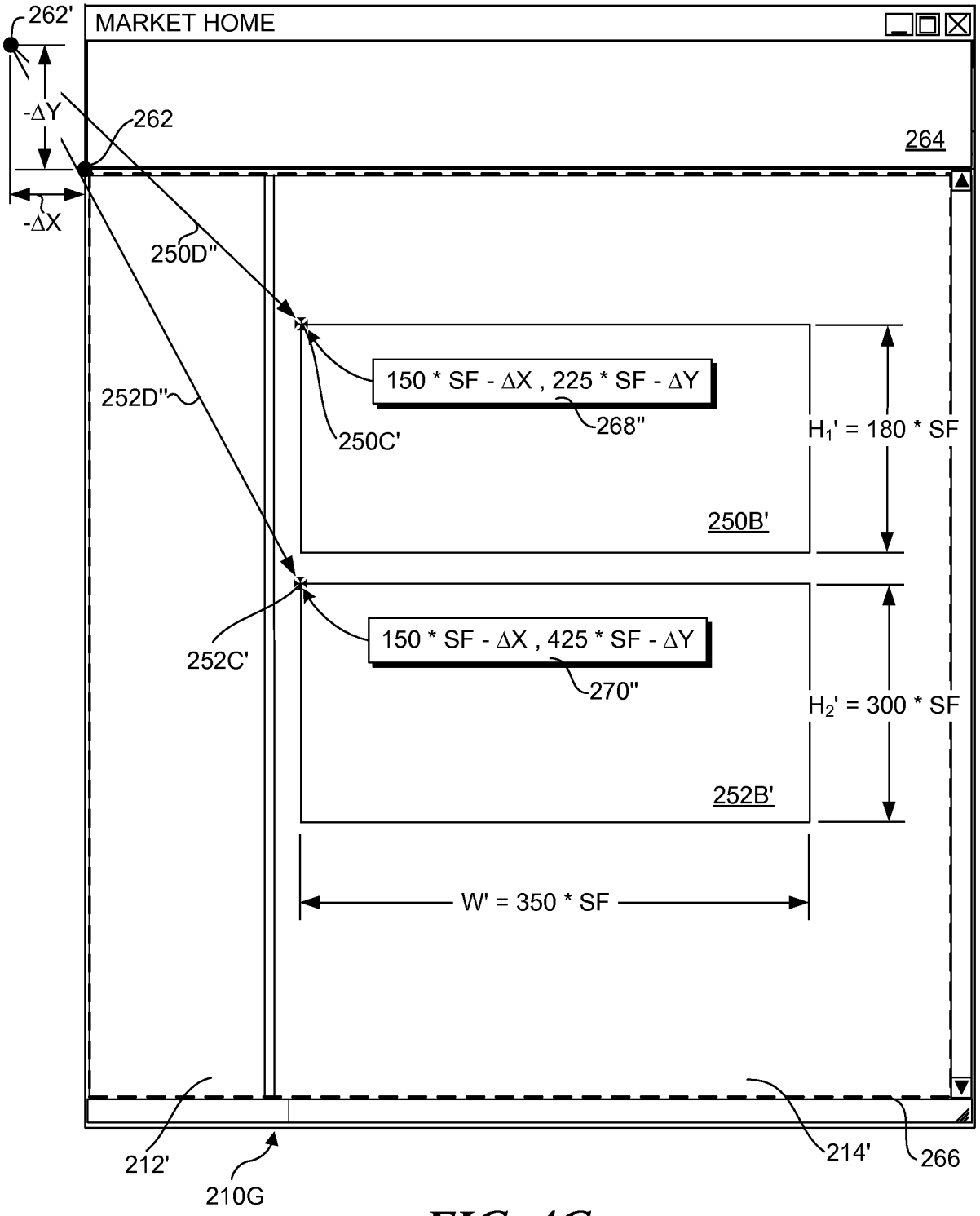

262'
MARKET HOME
-ΔY
262
264
-ΔX
250D"
252D"
150 * SF - ΔX , 225 * SF - ΔY
268"
250C'
H1' = 180 * SF
250B'
252C'
150 * SF - ΔX , 425 * SF - ΔY
270"
H2' = 300 * SF
252B'
W' = 350 * SF
212'
210G
214'
266

FIG. 4G

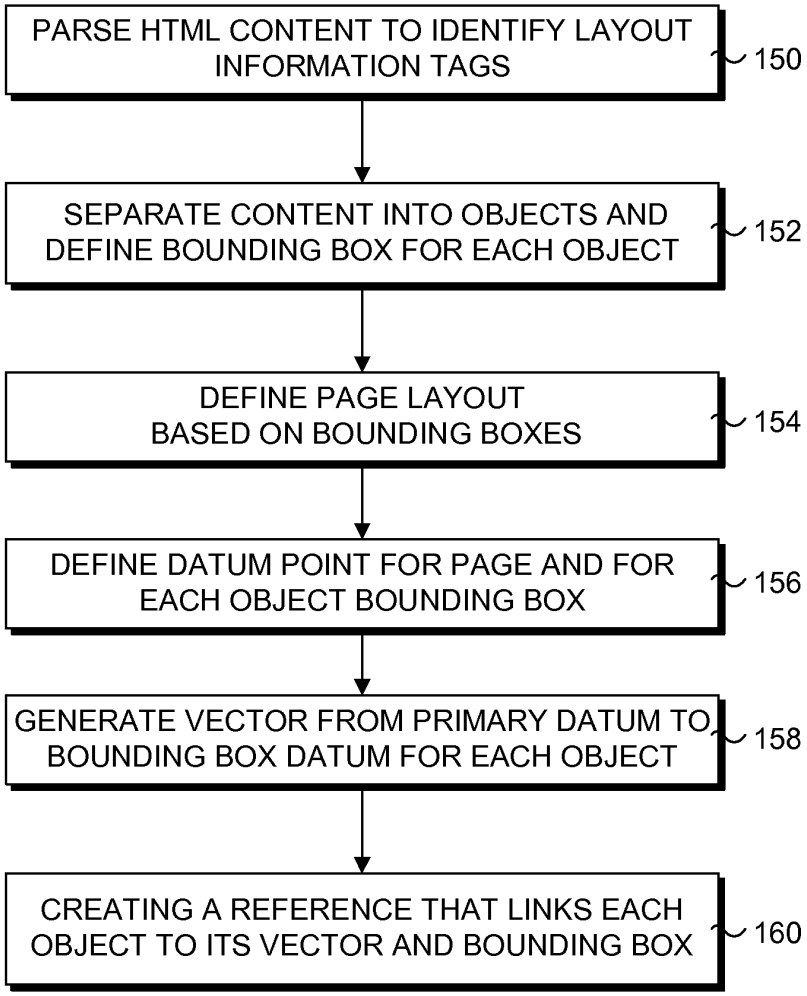

PARSE HTML CONTENT TO IDENTIFY LAYOUT INFORMATION TAGS
150
SEPARATE CONTENT INTO OBJECTS AND DEFINE BOUNDING BOX FOR EACH OBJECT
152
DEFINE PAGE LAYOUT BASED ON BOUNDING BOXES
154
DEFINE DATUM POINT FOR PAGE AND FOR EACH OBJECT BOUNDING BOX
156
GENERATE VECTOR FROM PRIMARY DATUM TO BOUNDING BOX DATUM FOR EACH OBJECT
158
CREATING A REFERENCE THAT LINKS EACH OBJECT TO ITS VECTOR AND BOUNDING BOX
160

FIG. 5

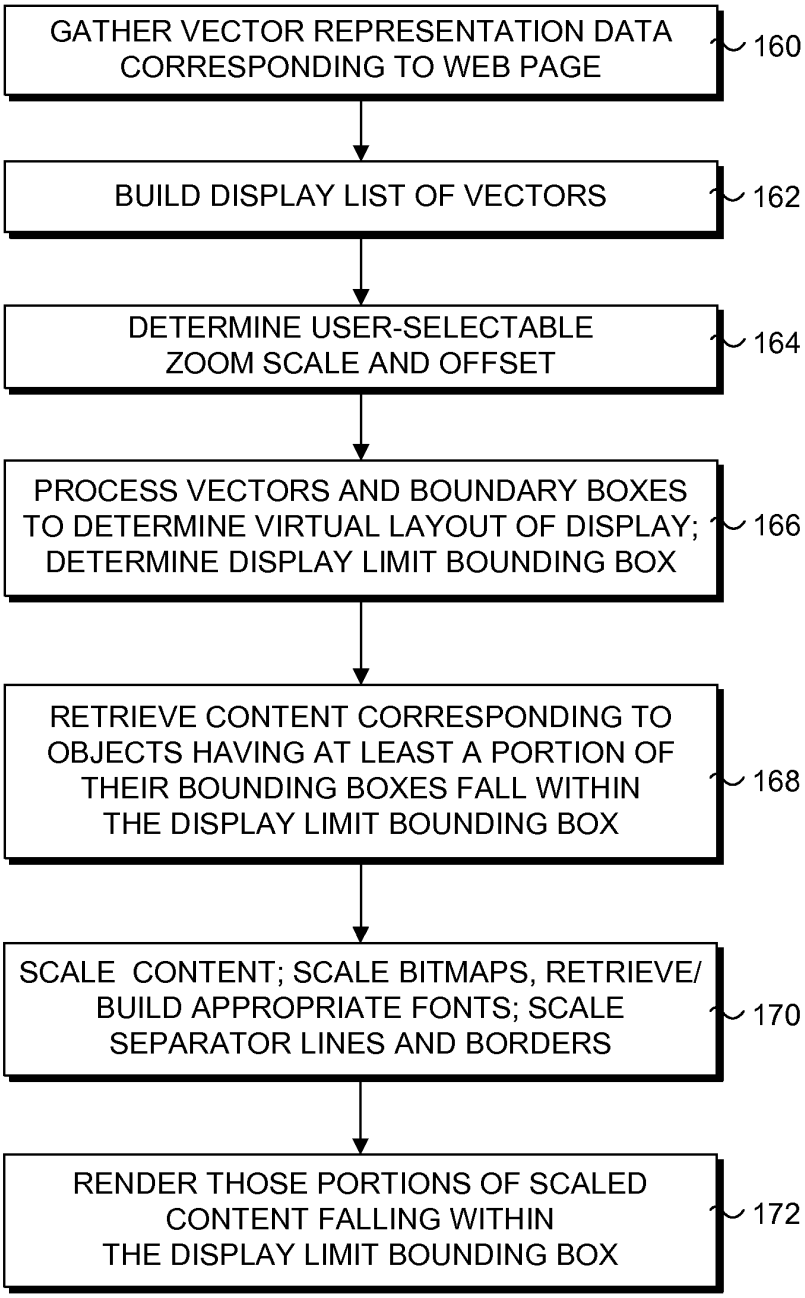

GATHER VECTOR REPRESENTATION DATA CORRESPONDING TO WEB PAGE
160
BUILD DISPLAY LIST OF VECTORS
162
DETERMINE USER-SELECTABLE ZOOM SCALE AND OFFSET
164
PROCESS VECTORS AND BOUNDARY BOXES TO DETERMINE VIRTUAL LAYOUT OF DISPLAY; DETERMINE DISPLAY LIMIT BOUNDING BOX
166
RETRIEVE CONTENT CORRESPONDING TO OBJECTS HAVING AT LEAST A PORTION OF THEIR BOUNDING BOXES FALL WITHIN THE DISPLAY LIMIT BOUNDING BOX
168
SCALE CONTENT; SCALE BITMAPS, RETRIEVE/ BUILD APPROPRIATE FONTS; SCALE SEPARATOR LINES AND BORDERS
170
RENDER THOSE PORTIONS OF SCALED CONTENT FALLING WITHIN THE DISPLAY LIMIT BOUNDING BOX
172

FIG. 6

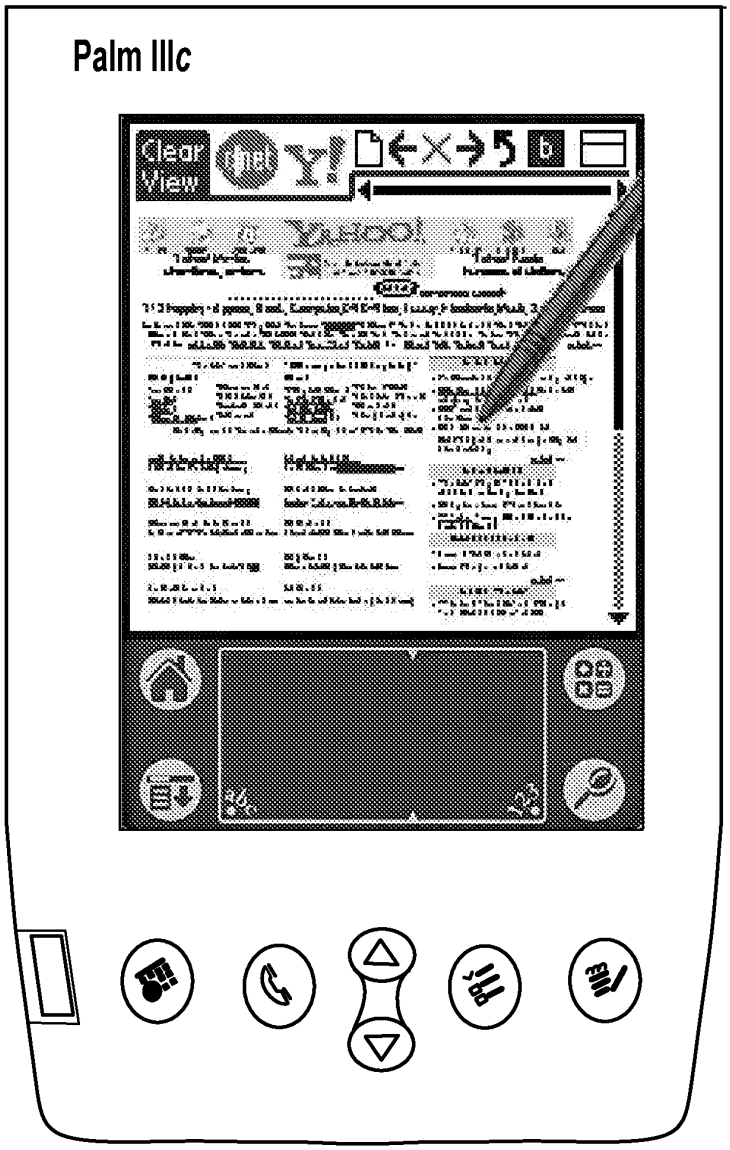


FIG. 7A

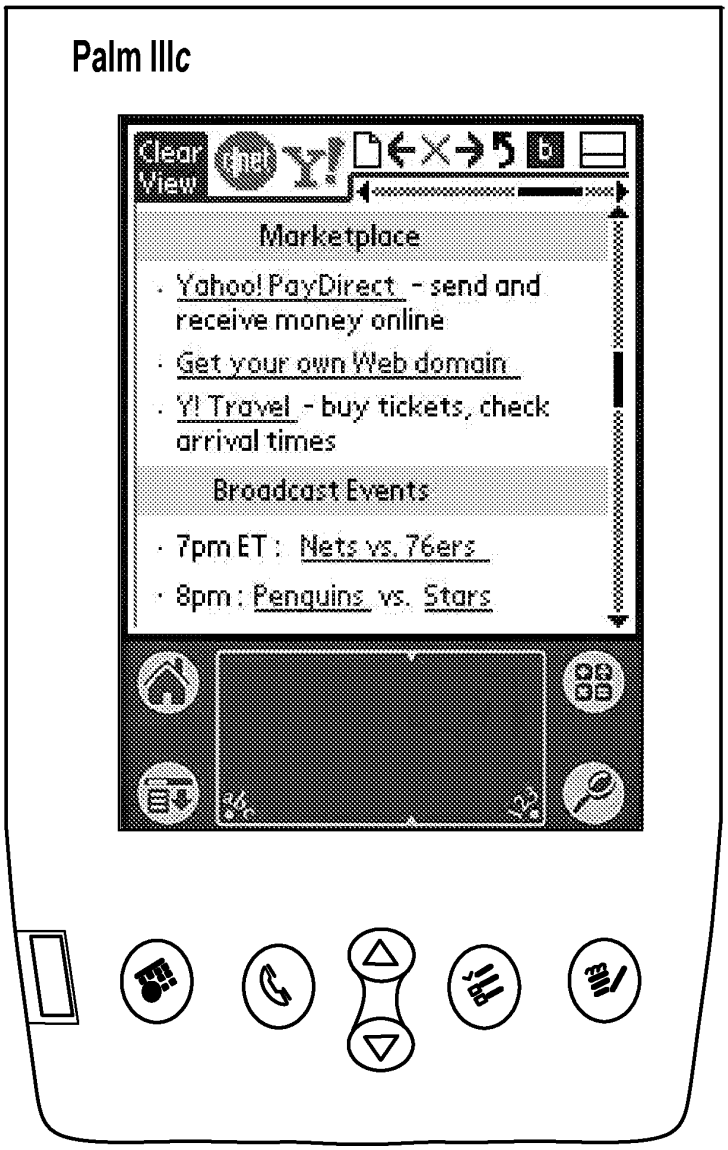

Palm IIIc
Clear View
Marketplace
· Yahoo! PayDirect - send and receive money online
· Get your own Web domain
· Y! Travel - buy tickets, check arrival times
Broadcast Events
· 7pm ET : Nets vs. 76ers
· 8pm : Penguins vs. Stars

FIG. 7B

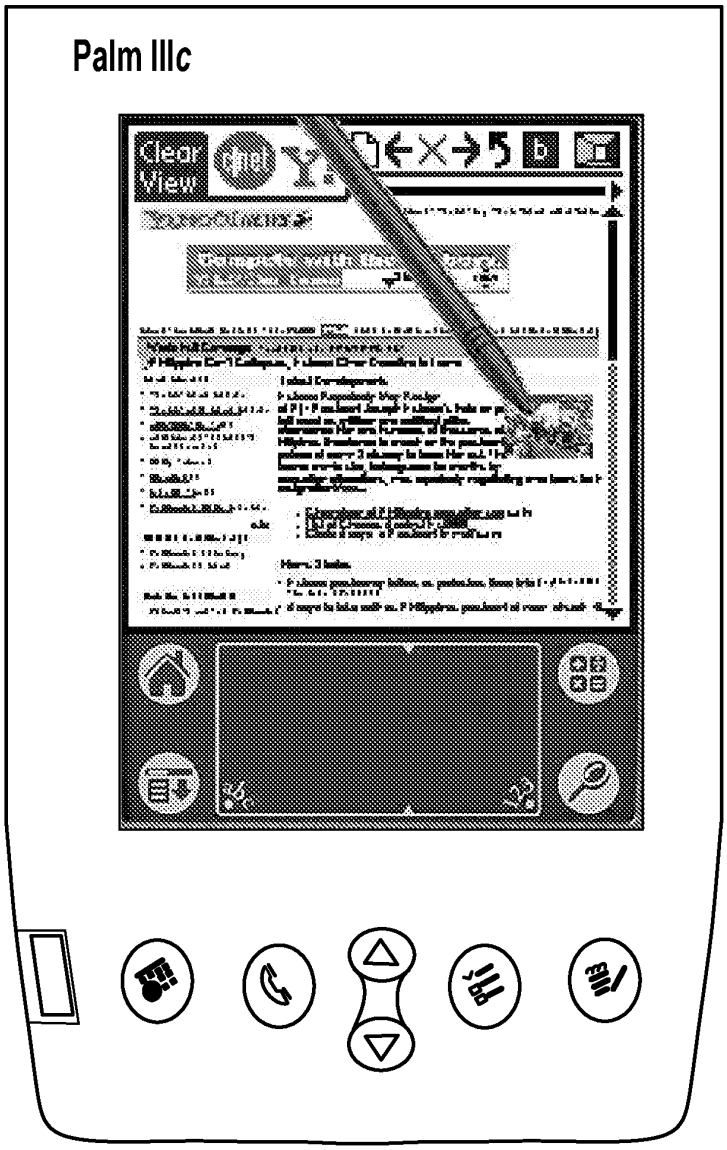


FIG. 8A



FIG. 8B



FIG. 9A

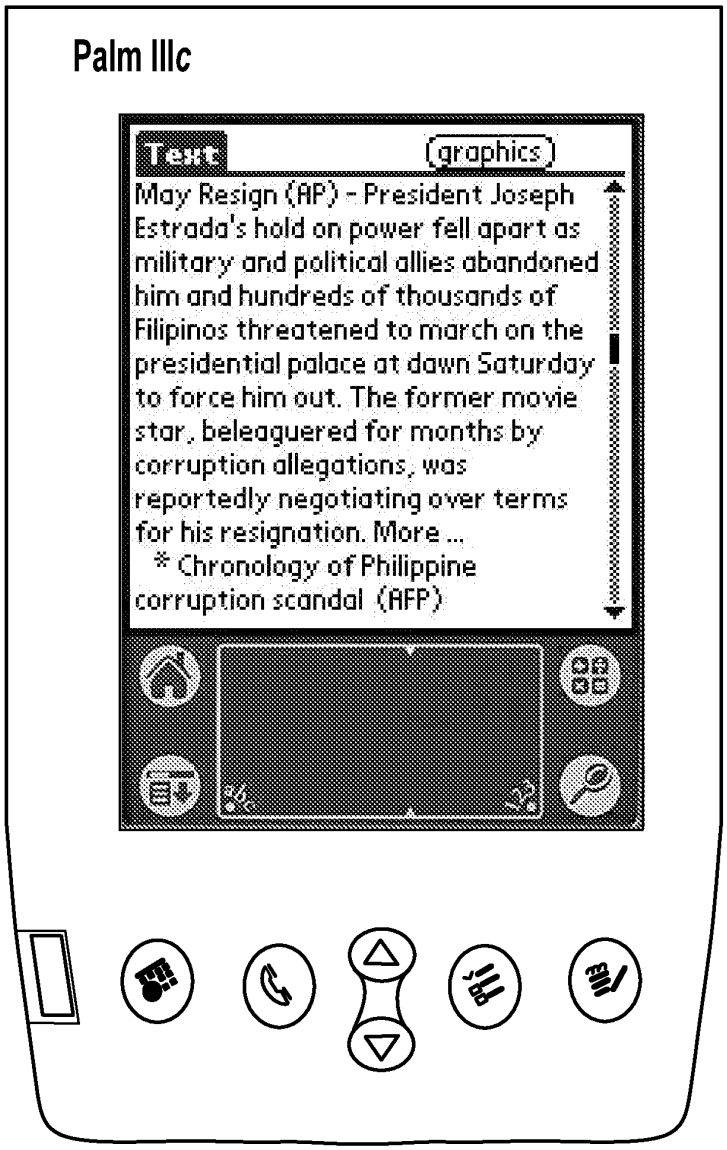

Palm IIIc
Text
graphics
May Resign (AP) - President Joseph Estrada's hold on power fell apart as military and political allies abandoned him and hundreds of thousands of Filipinos threatened to march on the presidential palace at dawn Saturday to force him out. The former movie star, beleaguered for months by corruption allegations, was reportedly negotiating over terms for his resignation. More ...
* Chronology of Philippine corruption scandal (AFP)

FIG. 9B

Electronic Acknowledgement Receipt	
EFS ID:	6533124
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	28-NOV-2009
Filing Date:	15-APR-2007
Time Stamp:	14:15:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Drawings-only black and white line drawings	P001dwg1_replacement_sheet_all-bw.pdf	669031 930f72410509cc53da046f1b11f2bf6e512128e6	no	22
Warnings:					
Information:					

Total Files Size (in bytes):	669031

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/735,482	04/15/2007	

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☒		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	118 minus 20 =	* 98	X $25 =	2450	OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	* 0	X $100 =	0		X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	2450		TOTAL	

APPLICATION AS AMENDED – PART II

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
	11/28/2009	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 118	Minus	** 118	= 0	X $26 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $110 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

		(Column 1)		(Column 2)	(Column 3)					
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/GERALDINE STANLEY/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

SCORE Placeholder Sheet for IFW Content

Application Number: 11735482 Document Date: 11/28/2009

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Form Revision Date: February 8, 2006

Doc Code: PET.POA.WDRW
Document Description: Petition to withdraw attorney or agent (SB83)

PTO/SB/83 (11-08)
Approved for use through 11/30/2011. OMB 0651-0035
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
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REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	11/735,482
Filing Date	04-15-2007
First Named Inventor	Gary Rohrabaugh
Art Unit	2176
Examiner Name	Herndon, Heather R.
Attorney Docket Number	005207.P001XC2

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Please withdraw me as attorney or agent for the above identified patent application, and

☑ all the practitioners of record;

☐ the practitioners (with registration numbers) of record listed on the attached paper(s); or

☐ the practitioners of record associated with Customer Number: _____

NOTE: The immediately preceding box should only be marked when the practitioners were appointed using the listed Customer Number.

The reason(s) for this request are those described in 37 CFR :

☐ 10.40(b)(1)	☐ 10.40(b)(2)	☐ 10.40(b)(3)	☐ 10.40(b)(4)
☐ 10.40(c)(1)(i)	☐ 10.40(c)(1)(ii)	☐ 10.40(c)(1)(iii)	☐ 10.40(c)(1)(iv)
☐ 10.40(c)(1)(v)	☐ 10.40(c)(1)(vi)	☐ 10.40(c)(2)	☐ 10.40(c)(3)
☐ 10.40(c)(4)	☐ 10.40(c)(5)	☑ 10.40(c)(6) Please explain below:	

Current employer (law firm) has a single dedicated client that has requested I cease prosecution work for this client (Gary Rohrabaugh), who is not a client of the law firm.

Certifications

Check each box below that is factually correct. WARNING: If a box is left unchecked, the request will likely not be approved.

1. ☑ I/We have given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intend to withdraw from employment.

2. ☑ I/We have delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled.

3. ☑ I/We have notified the client of any responses that may be due and the time frame within which the client must respond.

Please provide an explanation, if necessary:

Awaiting First Office Action. USPTO prediction on 12-3-09 is eight months to First Action

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/83 (11-08)
Approved for use through 11/30/2011. OMB 0651-0035
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS

Complete the following section only when the correspondence address will change. *Changes of address will only be accepted to an inventor or an assignee that has properly made itself of record pursuant to 37 CFR 3.71.*

Change the correspondence address and direct all future correspondence to:

A. ☐ The address of the inventor or assignee associated with Customer Number: _____

OR

B. ☑ Inventor or Assignee name	Gary Rohrabaugh		
Address	3112 Maple Ridge Court		
City Bellingham	State WA	Zip 98229	Country USA
Telephone (360) 676-0999		Email gary@softsource.com	

I am authorized to sign on behalf of myself and all withdrawing practitioners.

Signature	/R. Alan Burnett/		
Name	R. Alan Burnett	Registration No. 46,149	
Address	Law Office of R. Alan Burnett, 4108 131st Ave SE		
City Bellevue	State WA	Zip 98006	Country USA
Date	December 3, 2009	Telephone No. (425) 562-0923	

NOTE: ***Withdrawal is effective when approved rather than when received.***

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	6570439
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	03-DEC-2009
Filing Date:	15-APR-2007
Time Stamp:	18:51:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition to withdraw attorney or agent (SB83)	P001XC2_Withdrawal_Request.pdf	308380 a952065e330ad00aeb36ef273c96f3fddfdfa13b	no	3
Warnings:					
Information:					

Total Files Size (in bytes):	308380

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6704024		2004-03-09	Robotham et al.	
If you wish to add additional U.S. Patent citation information please click the Add button.						Add

U.S.PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					
If you wish to add additional U.S. Published Application citation information please click the Add button.						Add

FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐
If you wish to add additional Foreign Patent Document citation information please click the Add button							Add	

NON-PATENT LITERATURE DOCUMENTS			Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/R. Alan Burnett/	Date (YYYY-MM-DD)	2009-12-21
Name/Print	R. Alan Burnett	Registration Number	46149

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	6680758
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	21-DEC-2009
Filing Date:	15-APR-2007
Time Stamp:	16:08:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	P001XC2_US_IDS_Form_SB_08a_supp2.pdf	521793 b87096d3ce83b020b4a71a2d86d66c57cd3df46a	no	4

Warnings:
Information:

Total Files Size (in bytes):	521793

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

59860
LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

POWER OF ATTORNEY NOTICE

OC00000039847406

Date Mailed: 01/26/2010

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/03/2009.

- The withdrawal as attorney in this application has been accepted. Future correspondence will be mailed to the new address of record. 37 CFR 1.33.

/dcgoodwyn/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

MAILED

JAN 29 2010

OFFICE OF PETITIONS

LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE WA 98006

In re Application of
Gary B. ROHRABAUGH, et al
Application No. 11/735,482
Filed: April 15, 2007
Attorney Docket No. 005207.P001XC2

DECISION ON PETITION
TO WITHDRAW
FROM RECORD

This is a decision on the Request to Withdraw as attorney or agent of record under 37 C.F.R. § 1.36(b), filed December 3, 2009.

The request is **APPROVED**.

A grantable request to withdraw as attorney/agent of record must be signed by every attorney/agent seeking to withdraw or contain a clear indication that one attorney is signing on behalf of another/others. The Office requires the practitioner(s) requesting withdrawal to certify that he, she, or they have: (1) given reasonable notice to the client, prior to the expiration of the response period, that the practitioner(s) intends to withdraw from employment; (2) delivered to the client or a duly authorized representative of the client all papers and property (including funds) to which the client is entitled; and (3) notified the client of any responses that may be due and the time frame within which the client must respond, pursuant 37 CFR 10.40(c).

The request was signed by R. Alan Burnett on behalf of all the attorneys of record.

All the attorneys of record have been withdrawn.

Applicant is reminded that there is no attorney of record at this time.

The correspondence address of record has been changed and the new correspondence address is the address indicated below until otherwise properly notified by the applicant.

Telephone inquiries concerning this decision should be directed to the undersigned at 571-272-6735.

/DCG/
Diane Goodwyn
Petitions Examiner
Office of Petitions

cc: GARY ROHRABAUGH
3112 MAPLE RIDGE COURT
BELLINGHAM WA 98229

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

POWER OF ATTORNEY NOTICE

59860
LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006



Date Mailed: 01/26/2010

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

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/dcgoodwyn/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Bib Data Sheet

CONFIRMATION NO. 2111

SERIAL NUMBER	FILING OR 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/735,482	04/15/2007 RULE	715	2176	

APPLICANTS

Gary B. Rohrabaugh, Bellingham, WA;
Scott A. Sherman, Seattle, WA;

**** CONTINUING DATA ***************************

This application is a CON of 09/878,097 06/08/2001 PAT 7,210,099
which is a CIP of 09/828,511 04/07/2001 ABN
and claims benefit of 60/211,019 06/12/2000
and claims benefit of 60/217,345 07/11/2000
This application 11/735,482
is a DIV of 09/878,097 06/08/2001 PAT 7,210,099
and is a DIV of 11/045,757 01/28/2005 PAT 7,461,353
and is a DIV of 11/045,649 01/28/2005 PAT 7,584,423

**** FOREIGN APPLICATIONS *********************

IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** SMALL ENTITY **
** 05/03/2007

		STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
Foreign Priority claimed	☐ yes ☐ no	WA	22	118	3
35 USC 119 (a-d) conditions met	☐ yes ☐ no ☐ Met after Allowance				
Verified and Acknowledged	Examiner's Signature Initials				

ADDRESS

GARY ROHRABAUGH
3112 MAPLE RIDGE COURT
BELLINGHAM, WA98229

TITLE

RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

FILING FEE RECEIVED		
2940	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh		2111

7590 04/27/2010

GARY ROHRABAUGH
3112 MAPLE RIDGE COURT
BELLINGHAM, WA 98229

EXAMINER	
TRAN, QUOC A	
ART UNIT	PAPER NUMBER
2176	
MAIL DATE	DELIVERY MODE
04/27/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	11/735,482	ROHRABAUGH ET AL.	
	Examiner	Art Unit	
	Quoc A. Tran	2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *28 November 2009*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-118* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *1-11, 13-20, 26-31, 33-38, 39-48, 51-54, 63-69 and 71-78* is/are allowed.

6)☒ Claim(s) *12, 21, 23-25, 32, 49, 50, 55-57, 58, 60-62, 70, and 79-118* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *28 November 2009* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *11/21/09, 11/28/09, 04/18/09 & 08/05/07*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

This is a Non Final Office Action in responses to Preliminary Amendments filed 11/28/2009. The current patent application originally filed 04/15/2007.

It is noted the current application is a continuation of 09/878,097 now is US Patent 7,210,099 filed 06/08/2001 issued 04/24/2007, which is a continuation in part of ***09/828,511***, which Claims Priority from Provisional Application 60/211,019 filed ***06/12/2000***, which claims Priority from Provisional Application 60/217,345 filed 07/11/2000.

- Claims 1-118 are pending.
- Claims 1, 39 and 79 are independent claims.

In addition, the Examiner acknowledges Applicant's amendment to the specification and the drawings filed 11/28/2009.

Information Disclosure Statement

At least one of the information disclosure statements filed on 12/21/2009; 11/28/2009; 04/18/2009 and 08/05/2007 do not fully comply with the requirements of 37 CFR 1.98(b) because the at least one of the listed publications identified as “non-patent literature documents” fails to identify at least one of the following, as required in 37 CFR 1.98(b)(5):

1. publisher;
2. author (if any);
3. title;

4. relevant pages of the publication;
5. publication date; and
6. place of publication.

Additionally, at least one of the listed publications in at least one of the information disclosure statements attempts to list **multiple** references in a **single** listing. This is not proper under 37 CFR. Each publication must be listed separately.

Lastly, at least one of the information disclosure statements fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited non-patent literature publication.

The information disclosure statements have been placed in the application file, but those portions that do not comply with 37 CFR have not been considered.

Applicant is advised that the date of any re-submission of any item of information contained in this Information Disclosure Statement or the submission of any missing elements will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

Specification

The disclosure is objected to because of the following informalities: as to the preliminary amendment paper filed 11/29/2009, which is stated,

"In the Specification

Please replace paragraph [0001] with the following amended paragraph:

[0001] This application is a Continuation of [[US]] U.S. Non-provisional Application No. 09/878,097, filed June 8, 2001, entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," which is a Continuation-in-Part of U.S. Non-provisional Application No. ***09/825,511***..."

It is noted, the U.S. Non-provisional Application No. 09/82***5***,511 appears to be a typographical error of 09/82***8***,511 [see the preliminary amendment paper filed 11/28/2009, @ page 2 Para [0001]].

Appropriate correction is required.

Claims Rejections – 35 U.S.C. 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

> ***The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.***

Claims 12, 21, 23, 24-25, 32, 49, 50, 55, 56-57, 58, 60, 61-62, 70, 88, 89, 94, 97, 99, 108 and 109 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, because claims 12, 21, 23, 32, 49, 50, 55, 58, 60, 70, 88, 89, 94, 97, 99, 108 and 109 recited the limitation "***substantially***"; "***appropriate location***"; "***much greater resolution***"; "***higher resolution***"; "***have a size***"; which render the claims indefinite, since one of ordinary skill in the art would not be reasonably appraised the metes and bounds of the claims. Accordingly, Claims 24-25, 56-57 and 61-62 fail to recite statutory subject matter, as defined in 35 U.S.C. 112 , second paragraph, as

being indefinite for failing to particularly point out and distinctly claim the subject matter for the similar reason. Appropriate correction is required.

In the interest of compact prosecution, the application is further examined against the prior art, as stated below, upon the assumption that the applicants may overcome the above stated rejections under 35 U.S.C. 112.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 79-118 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 79-118:

In summary, Claims 79-118 *recite* a "***machine-readable medium***" having stored thereon a plurality of instructions configured to be executed by a machine having a communications device to access Web content via a network and having a display, wherein execution of the instructions performs operations thereon. The Examiner notes the disclosure of the present invention expressly states," *a* ***carrier wave shall be regarded as comprising a machine-readable medium****. …*" see Specification → Page 10 Para 34 the last sentence. As such, Claims 79-118 are drawn to a form of energy. Energy is not one of the four categories of invention and therefore this claim(s) is/are not statutory. Energy is not a series of steps or acts and thus is not a process. Energy

is not a physical article or object and as such is not a machine or manufacture. Energy is not a combination of substances and therefor not a composition of matter.

Accordingly, Claims 79-118 fail to recite statutory subject matter, as defined in 35 U.S.C. 101.

In the interest of compact prosecution, the application is further examined against the prior art, as stated below, upon the assumption that the applicants may overcome the above stated rejections under 35 U.S.C. 101.

Allowable Subject Matter

Claims 1-11, 13-20, 26-31, 33-38, 39-48, 51-54, 63-69 and 71-78 are allowed.

12, 21, 23, 24-25, 32, 49, 50, 55, 56-57, 58, 60, 61-62, 70

Claim(s) 12, 21, 23, 24-25, 32, 49, 50, 55, 56-57, 58, 60, 61-62, 70, 88, 89, 94, 97, 99, 108 and 109 (112 rejections) and 79-118 (101 rejections) would be allowable, if rewritten to overcome, the 35 USC 101 and 35 USC 112, and rewritten to overcome the objections to the specification set forth in this Office action. Also see the "Allowable Subject Matter", which was recited in the Notice of Allowance of the parent application No. 11/045,757 dated 08/08/2008 @ pages 3-4, which is now US Patent 7,461,353 issued 12/02/2008 for details).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is 571-272-8664. The examiner can normally be reached on Mon through Fri 8AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on (571)272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Quoc A. Tran/
Examiner, Art Unit 2176

/DOUG HUTTON/
Supervisory Patent Examiner, Art Unit 2176

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	**Art Unit**
	Quoc A Tran	2176

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/24/2010								
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	2	=								
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	9	=								
	10	=								
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	23	✓								
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	25	✓								
	26	=								
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	29	=								
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	31	=								
	32	✓								
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	34	=								
	35	=								
	36	=								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	Art Unit
	Quoc A Tran	2176

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=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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	56	✓								
	57	✓								
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	59	✓								
	60	✓								
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	62	✓								
	63	=								
	64	=								
	65	=								
	66	=								
	67	=								
	68	=								
	69	=								
	70	✓								
	71	=								
	72	=								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	Art Unit
	Quoc A Tran	2176

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/24/2010								
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	105	✓								
	106	✓								
	107	✓								
	108	✓								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	**Art Unit**
	Quoc A Tran	2176

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/24/2010								
	109	✓								
	110	✓								
	111	✓								
	112	✓								
	113	✓								
	114	✓								
	115	✓								
	116	✓								
	117	✓								
	118	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	Art Unit
	Quoc A Tran	2176

SEARCHED			
Class	Subclass	Date	Examiner
715	800, 238, 249, 205, 234	4/24/2010	QT

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (USPAT, USPGPUB, JPO, USOCR, FPRS, EPO, DERWENT & IBM_TDB)	4/24/2010	QT
Inventors Searched Conducted- Considered Double Patent Rejection	4/24/2010	QT
"Text search" Allowable subject matter" EAST (USPAT, USPGPUB, JPO, USOCR, FPRS, EPO, DERWENT & IBM_TDB)	4/24/2010	QT
Text Search Class 715/800, 238, 249, 205, 234	4/24/2010	QT
NPL Search (Google Scholar Digital Library)	4/24/2010	QT

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
715	234, 243, 853	4/24/2010	QT

/Quoc A Tran/ Examiner.Art Unit 2176	

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BIB DATA SHEET

CONFIRMATION NO. 2111

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/735,482	04/15/2007	715	2176	

APPLICANTS

Gary B. Rohrabaugh, Bellingham, WA;
Scott A. Sherman, Seattle, WA;

**** CONTINUING DATA ***************************

This application is a CON of 09/878,097 06/08/2001 PAT 7,210,099
which is a CIP of 09/828,511 04/07/2001 ABN
and claims benefit of 60/211,019 06/12/2000
and claims benefit of 60/217,345 07/11/2000
This application 11/735,482 04/15/2007
is a DIV of 09/878,097 06/08/2001 PAT 7,210,099
and is a DIV of 11/045,757 01/28/2005 PAT 7,461,353
and is a DIV of 11/045,649 01/28/2005 PAT 7,584,423

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
05/03/2007

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☐ No Verified and Acknowledged /QUOC A TRAN/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WA	22	118	3

ADDRESS

GARY ROHRABAUGH
3112 MAPLE RIDGE COURT
BELLINGHAM, WA 98229
UNITED STATES

TITLE

RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

FILING FEE RECEIVED		
2940	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

EAST Search History

EAST Search History (Prior Art)

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L3	327	715/800.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:54
L4	78	715/238.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:54
L5	450	715/249.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:54
L6	2501	715/205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:54
L7	5166	715/234.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:54
L8	942	715/760.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:55

L9	8294	3 4 5 6 7 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:55
L10	81	1 & 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:55
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L13	6	12 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:56
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L18	1	17 & (location with appropriate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:01
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4/23/2010 12:33:18 PM
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EAST Search History

EAST Search History (Prior Art)

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L7	5166	715/234.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:54
L8	942	715/760.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:55

L9	8294	3 4 5 6 7 8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:55
L10	81	1 & 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:55
L11	75	10 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas$3 adj size) siz$3 (re adj siz$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:55
L12	10	11 & ((original source) near format)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:56
L13	6	12 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:56
L14	2557958	(SVG (scal$4 near vector$5 near graphic$2) vector scal$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:56
L15	6	13 & 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:57
L16	6	15 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas$3 adj size) siz$3 (re adj siz$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 11:58
L17	2	"20070198917".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:01

L18	1	17 & (location with appropriate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:01
L19	1	17 & (java)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:32
L20	2	"7461353".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L21	3	("7461353" "7584423").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L22	1	L21 & touch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L23	12	(Gary near rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L24	1	L23 & (touch near (screen display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L25	12	L23 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L26	12	(Gary near rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33

L27	327	715/800.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L28	78	715/238.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L29	450	715/249.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L30	2501	715/205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L31	5166	715/234.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L32	942	715/760.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L33	7988	L26 L28 L29 L30 L31 L32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L34	80	L33 & (SVG (scal$4 near vector $5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L35	28	L34 & (@AD<"20000612" @RLAD<"20060612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33

L36	16	L35 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L37	3	L36 & ((render$3 execut$3 scal $3 deriv$3) near client)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L38	6	L36 & ((render$3 execut$3 scal $3 deriv$3) with client)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L39	13	L34 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L40	10	L39 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L41	3	L40 & ((render$3 execut$3 scal $3 deriv$3) with client)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L42	1653	(html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L43	1653	(html xml markup sgml web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L44	473	L43 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33

L45	454	L44 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L46	452	L45 & ((render$3 execut$3 scal $3 deriv$3) with (user (thin near client)client))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L47	0	L46 & ((orinal source) near format)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L48	3	L46 & ((original source) near format)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L49	3	L48 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas$3 adj size) siz$3 (re adj siz$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L50	452	L46 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas$3 adj size) siz$3 (re adj siz$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L51	1	L46 & ((html xml markup sgmal web internet) near (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas$3 adj size) siz $3 (re adj siz$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L52	2	"6876867".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L53	179	(html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile) & Zoom$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33

L54	12	L53 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L55	5	(US-20020018072-$ or US-20010045949-$).did. or (US-7210099-$ or US-7054952-$ or US-6876867-$).did.	US-PGPUB; USPAT	OR	ON	2010/04/23 12:33
L56	2	L55 & proxy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L57	3	L55 & Zoom$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L58	4	L55 & (SVG (scal$4 near vector $5 near graphic$2) vector scal $4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L59	2	("6041143").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L60	1	L59 & Zoom$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L61	91	("20010015719" | "20010047428" | "20020023110" | "20020030699" | "20020112237" | "20020158908" | "20040049598" | "20050144256" | "5615384" | "5897644" | "5952994" | "5956025" | "5966135" | "6011905" | "6057854" | "6076166" | "6211856" | "6300947" | "6337693" | "6421733" | "6449639" | "6456305" | "6456308" | "6457030" | "6466203" | "6546397" | "6553410" |	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33

		"6556217" | "6615212" | "6674445" | "6704024" | "6781600" | "6829746" | "6857102" | "6886034" | "6925595" | "6978418" | "6996533" | "7023572" | "7055095" | "7072984" | "7219309" | "7308649" | "7450114").PN.				
L62	1	L53 & L61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L63	2	"20070288841".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L64	1	L63 & substantial$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L65	3	"7210099".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L66	8	(((translat$3 convert$3 transform$3 raster$3) near (HTML xml markup web) near (page document)) same(SVG (scal$4 near vector$5 near graphic$2))) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L67	0	L66 & (@ad<"20000612" @rlad<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L68	31	(((translat$3 convert$3 transform$3 raster$3) with (HTML xml markup web) with (page document)) same(SVG (scal$4 near vector$5 near graphic$2))) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33

L69	1	L68 & (@ad<"20000612" @rlad<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L70	0	L68 & (((re adj (render$3 execut $3 author$3 raster$3 translat$3 convert$3)) (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) same (user near input near (client mobile handhelp pda)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33
L71	2	"7461353".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/23 12:33

4/23/2010 12:39:35 PM
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EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L72	180	(((re adj (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) same (user near input near (client mobile handhelp pda)))	USPAT; UPAD	OR	ON	2010/04/23 12:33
L73	0	L72 & (html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile) & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:33
L74	0	L72 & (SVG (scal$4 near vector $5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile) & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:33
L75	0	L72 & (SVG (scal$4 near vector $5 near graphic$2)) & mobile & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:33
L76	10	L72 & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:33
L77	0	L76 & (SVG (scal$4 near vector $5 near graphic$2)) & mobile & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:33
L78	0	L76 & (SVG (scal$4 near vector $5 near graphic$2))	USPAT; UPAD	OR	ON	2010/04/23 12:33
L79	397	((touch near (screen display)) stylus) & (html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	USPAT; UPAD	OR	ON	2010/04/23 12:33
L80	47	L79 & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:33
L81	47	L80 & ((re adj (render$3 execut $3 author$3 raster$3 translat$3 convert$3)) (render$3 execut$3 author$3 raster$3 translat$3 convert$3))	USPAT; UPAD	OR	ON	2010/04/23 12:33
L82	5	L81 & (@AD<"20000612" @RLAD<"20000612")	USPAT; UPAD	OR	ON	2010/04/23 12:33

L135	180	(((re adj (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) same (user near input near (client mobile handhelp pda)))	USPAT; UPAD	OR	ON	2010/04/23 12:40
L136	0	L72 & (html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile) & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:40
L137	0	L72 & (SVG (scal$4 near vector $5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile) & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:40
L138	0	L72 & (SVG (scal$4 near vector $5 near graphic$2)) & mobile & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:40
L139	10	L72 & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:40
L140	0	L76 & (SVG (scal$4 near vector $5 near graphic$2)) & mobile & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:40
L141	0	L76 & (SVG (scal$4 near vector $5 near graphic$2))	USPAT; UPAD	OR	ON	2010/04/23 12:40
L142	397	((touch near (screen display)) stylus) & (html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	USPAT; UPAD	OR	ON	2010/04/23 12:40
L143	47	L79 & Zoom$3	USPAT; UPAD	OR	ON	2010/04/23 12:40
L144	47	L80 & ((re adj (render$3 execut $3 author$3 raster$3 translat$3 convert$3)) (render$3 execut$3 author$3 raster$3 translat$3 convert$3))	USPAT; UPAD	OR	ON	2010/04/23 12:40
L145	5	L81 & (@AD<"20000612" @RLAD<"20000612")	USPAT; UPAD	OR	ON	2010/04/23 12:40

4/23/2010 1:18:24 PM
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20070198917".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 17:54
L2	1	"20070198917".pn. & ((signal carrier (carrier near wave) ((transmission communication wireless infrared transport$5 propag$4 paper)) with (media medium)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 17:55
L3	1615	(zoom$3 enlarg$3 (make adj bigger) extend$3 (increas$3 adj size) siz$3 (re adj siz$3)) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:28
L4	494	3 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:29
L5	1	4 & (((re adj (render$3 execut $3 author$3 raster$3 translat $3 convert$3)) (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) same (user near input near (client mobile handhelp pda)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:29
L6	2	"7461353".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L7	3	("7461353" "7584423").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

L8	1	L7 & touch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L9	12	(Gary near rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L10	1	L9 & (touch near (screen display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L11	12	L9 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L12	12	(Gary near rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L13	327	715/800.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L14	78	715/238.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L15	450	715/249.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L16	2501	715/205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

L17	5166	715/234.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L18	942	715/760.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L19	7988	L12 L14 L15 L16 L17 L18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L20	80	L19 & (SVG (scal$4 near vector $5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L21	28	L20 & (@AD<"20000612" @RLAD<"20060612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L22	16	L21 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L23	3	L22 & ((render$3 execut$3 scal $3 deriv$3) near client)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L24	6	L22 & ((render$3 execut$3 scal $3 deriv$3) with client)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L25	13	L20 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

L26	10	L25 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L27	3	L26 & ((render$3 execut$3 scal $3 deriv$3) with client)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L28	1653	(html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L29	1653	(html xml markup sgml web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L30	473	L29 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L31	454	L30 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L32	452	L31 & ((render$3 execut$3 scal $3 deriv$3) with (user (thin near client)client))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L33	0	L32 & ((orinal source) near format)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L34	3	L32 & ((original source) near format)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

L35	3	L34 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas $3 adj size) siz$3 (re adj siz $3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L36	452	L32 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas $3 adj size) siz$3 (re adj siz $3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L37	1	L32 & ((html xml markup sgmal web internet) near (zoom $3 enlarg$3 (make adj bigger) extend$3 (increas$3 adj size) siz$3 (re adj siz$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L38	2	"6876867".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L39	179	(html xml markup sgmal web internet) & (SVG (scal$4 near vector$5 near graphic$2)) & (pda handheld (small near display$3 near device) mobile) & Zoom$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L40	12	L39 & (@AD<"20000612" @RLAD<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L41	5	(US-20020018072-$ or US-20010045949-$).did. or (US-7210099-$ or US-7054952-$ or US-6876867-$).did.	US-PGPUB; USPAT	OR	ON	2010/04/24 18:30
L42	2	L41 & proxy	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L43	3	L41 & Zoom$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

L44	4	L41 & (SVG (scal$4 near vector $5 near graphic$2) vector scal $4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L45	2	("6041143").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L46	1	L45 & Zoom$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L47	91	("20010015719" | "20010047428" | "20020023110" | "20020030699" | "20020112237" | "20020158908" | "20040049598" | "20050144256" | "5615384" | "5897644" | "5952994" | "5956025" | "5966135" | "6011905" | "6057854" | "6076166" | "6211856" | "6300947" | "6337693" | "6421733" | "6449639" | "6456305" | "6456308" | "6457030" | "6466203" | "6546397" | "6553410" | "6556217" | "6615212" | "6674445" | "6704024" | "6781600" | "6829746" | "6857102" | "6886034" | "6925595" | "6978418" | "6996533" | "7023572" | "7055095" | "7072984" | "7219309" | "7308649" | "7450114").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L48	1	L39 & L47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

L49	2	"20070288841".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L50	1	L49 & substantial$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L51	3	"7210099".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L52	8	(((translat$3 convert$3 transform$3 raster$3) near (HTML xml markup web) near (page document)) same(SVG (scal$4 near vector$5 near graphic$2))) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L53	0	L52 & (@ad<"20000612" @rlad<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L54	31	(((translat$3 convert$3 transform$3 raster$3) with (HTML xml markup web) with (page document)) same(SVG (scal$4 near vector$5 near graphic$2))) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L55	1	L54 & (@ad<"20000612" @rlad<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L56	0	L54 & (((re adj (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) (render $3 execut$3 author$3 raster$3 translat$3 convert$3)) same (user near input near (client mobile handhelp pda)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

L57	2	"7461353".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L69	2	"20070288841".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30
L70	2	"20070198917".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/24 18:30

4/24/2010 6:33:11 PM
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	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

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	1	5897644		2009-04-27	Nielson	
	2	6449639		2002-09-10	Blumberg	
	3	6456305		2002-09-24	Qureshi et al.	
	4	5615384		1997-03-25	Allard et al.	
	5	5952994		1999-09-14	Ong et al.	
	6	6553410		2003-04-22	Kikinis	
	7	6556217		2003-04-29	Mäkipää	
	8	6829746		2004-12-07	Schwerdtfeger et al.	

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	9	6925595		2005-08-02	Whitledge et al.	
	10	6421733		2002-07-16	Tso et al.	
	11	6457030		2002-09-24	Adams et al.	
	12	7308649		2007-12-11	Ehrich et al.	

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	1	GB2344197A	GB		2000-05-31	Carlino		☐

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	1	Dennis, "Webraska Joins W3C for Next Generation Internet Graphics," Newsbytes, May 8, 2000	☐
	2	Fox et al. "Experience With Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot" Proceedings of Middleware '98, 1998	☐
	3	Jones et al. "From the large screen to the small screen – retaining the designer's design for effective user interaction," IEEE Colloquium on Issues for Networked Interpersonal Communicators, May 1997, pp. 3/1 – 3/4	☐
	4	Pacchiano, "Adobe's New View," Computer Shopper, Vol. 19, No. 4, Apr. 1999, p. 346	☐
	5	"TADPOLE TECHNOLOGY: ILOG technology within Tadpole's Cartesia Redline system making repairs simpler," M2 Presswire, Jan. 1999	☐
	6	Thryft, "Wireless link ramped for 'always on' Internet," EETimes, March 23, 1999	☐
	7	Bharadvaj et al., "An Active Transcoding Proxy to Support Mobile Web Access," Proc. of the IEEE Symposium on Reliable Distributed Systems, 1998	☐
	8	Björk, et al., "WEST: A Web Browser for Small Terminals," Proceedings of the 12 ACM symposium on User Interface Software and Technology (1999)	☐
	9	Holmquist, "The Zoom Browser," Human IT Tridskrift för studier av IT ur ett humanvetenskaplight perspektive, March, 1998.	☐

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6857102	B1	2005-02-15	Bickmore et al.	
	2	6674445	B1	2004-06-06	Chithambaram et al.	
	3	6300947	B1	2001-10-09	Kanevsky, Dimitri	
	4	5966135	A	1999-10-12	Roy et al.	
	5	6011905	A	2000-01-04	Huttenlocher et al.	
	6	6057854	A	2000-05-02	Davis, Jr. et al.	
	7	6337693	B1	2002-01-08	Roy et al.	
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	1	BENJAMIN B. BEDERSON ET AL., Pad++: A Zoomable Graphical Sketchpad For Exploring Alternate Interface Physics, September 19, 1995, http://www.cs.unm.edu/pad++	☐
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	Attorney Docket Number	005207.P001XC2

	3	Specification for Simple Vector Format (SVF) v1.1 Jan. 16, 1995	☐
	4	Specification for Simple Vector Format (SFV) v2.0 Dec. 6, 2000, http://www.svf.org/spec.html	☐
	5	SVF XML http://www.svf.org/svfxml.html	☐
	6	Changes to SVF (Date unknown)	☐
	7	Scalable Vector Graphics (SVG) Specification, W3C Working Draft 11-February-1999 WD-SVG-19990211, http://www.w3.org/TR/1999/ WD-SVG-19990211/ (HTML format – initial page)	☐
	8	Scalable Vector Graphics (SVG) Specification, W3C Working Draft 12-April-1999 WD-SVG-19990412, http://www.w3.org/TR/1999/WD-SVG-19990412/ (HTML format – initial page)	☐
	9	Scalable Vector Graphics (SVG) 1.0 Specification, W3C Candidate Recommendation 02 November 2000	☐
	10	Introduction to SVG, part of WD-SVG-19990211, http://www.w3.org/TR/1999/ WD-SVG-19990211/intro.html#Document…	☐
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	12	STEVE MULDER, Sneak Peak at SVG, 4 March 1999, http://www.webmonkey.com/99/10/index3a.html?tw=eg1999102	☐
	13	JANUS BOYE, SVG Brings Fast Vector Graphics to Web, 29 July 1999 http://www.irt.org/articles/js176/	☐

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	Attorney Docket Number	005207.P001XC2

	14	Vector Markup Language (VML), World Wide Web Consortium Note 13-May-1998, NOTE-VML-19980513, http://www.w3.org/TR/1998/NOTE-VML_19980513	☐
	15	Vector Markup Language, http://en.wikipedia.org/wiki/Vector_Markup_Language	☐
	16	Precision Graphics Markup Language (PGML), World Wide Web Consortium Note 10-April-1998, NOTE-PGML-19980410, http://www.w3.org/TR/1998/NOTE-PGML-19980410	☐
	17	PCT International Search Report for International Application No. PCT/US01/40920, International Searching Authority, European Patent Office, Dec. 27, 2001.	☐
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	2	6076166		2000-06-13	Moshfeghi et al.	
	3	6211856		2001-04-03	Choi et al.	
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	16	7450114		2008-11-11	Anwar	

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	2	20020023110		2002-02-21	Fortin et al.		
	3	20020030699		2002-03-14	Van Ee		
	4	20020158908		2002-10-31	Vaajala et al.		
	5	20040049598		2004-05-11	Tucker et al.		

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	1	0009129.8	GB		2000-04-14	Picsel Technologies Limited	7-10, 12, 13, 15, 17 Fig. 1	☐
	2	10-334082	JP	A	1998-12-18	A Hong Kong Company - name could not be translated	Figs. 14-16 and corresponding text in machine translation	☒

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	1	US Provisional Application No. 60/288,287 Available on PAIR	☐

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	2	US Provisional Application No. 60/296,275 Available on PAIR	☐
	3	US Provisional Application No. 60/296,237 Available on PAIR	☐
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	5	US Provisional Application No. 60/296,284 Available on PAIR	☐
	6	US Provisional Application No. 60/296,231 Available on PAIR	☐
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	8	US Provisional Application No. 60/296,426 Available on PAIR	☐
	9	US Provisional Application No. 60/296,273 Available on PAIR	☐
	10	US Provisional Application No. 60/296,283 Available on PAIR	☐
	11	US Provisional Application No. 60/296,281 Available on PAIR	☐
	12	US Provisional Application No. 60/296,327 Available on PAIR	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

	13	Scalable Vector Graphics (SVG) Specification W3C Working Draft 11-February-1999 http://www.w3.org/TR/1999/WD-SVG-19990211/--Pub Feb. 11, 1999 by W3C pp. 1-7	☐
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	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
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	24	~~W3C Scalable Vector Graphics (SVG) - History, http://www.w3.org/Graphics/SVG/History, pp 1-18~~	☐
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	Art Unit	2176
	Examiner Name	Herndon, Heather R
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Application Number	11/735482
Filing Date	04/15/2007
First Named Inventor	Gary Rohrabaugh
Title	Resolution Independent Vector Display ...
Art Unit	2176
Examiner Name	Tran, Quoc A.
Attorney Docket Number	005207.P001XC2

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Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____

SIGNATURE of Applicant or Assignee of Record

Signature	Gary B Rohrabaugh	Date	5-18-2010
Name	Gary B. Rohrabaugh	Telephone	360 676 0999
Title and Company	Manager SoftVision LLC		

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Softview L.L.C.

Application No./Patent No.: 11/735,482 Filed/Issue Date: 04/15/2007

Titled: Resolution Independent Vector Display of Internet Content

Softview L.L.C. , a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Softview L.L.C. (Supplemental Sheet)

Application No./Patent No.: 11/735,482 Filed/Issue Date: 04/15/2007

Titled: Resolution Independent Vector Display of Internet Content

Softview L.L.C. , a Corporation

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[ ] As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

_____ _____
Signature Date

_____ _____
Printed or Typed Name Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	7648618
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Correspondence Address:	GARY ROHRABAUGH - 3112 MAPLE RIDGE COURT - BELLINGHAM WA 98229 US - -
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	19-MAY-2010
Filing Date:	15-APR-2007
Time Stamp:	21:51:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	SoftView_POA_P001XC2-Signed.pdf	1174319 66d9e3a84da48f6faea2e8211ff943ed4bb84913	no	1
Warnings:					
Information:					
2	Assignee showing of ownership per 37 CFR 3.73(b).	SoftView_P001XC2_373b-Signed.pdf	2097755 57466b7b171a9558dfefc37793c0773aa579e3eb	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3272074		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Certificate of Electronic Filing

I hereby certify that this correspondence is being Electronically Filed via EFS on May 23, 2009
Date of Electronic Filing

R. Alan Burnett
Name of Person Filing Correspondence

/S/ R. Alan Burnett — May 23, 2009
Signature — Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Rohrabaugh et al.	)	Examiner: Tran, Quoc A.
	)	
Serial No. 11/735,482	)	Art Unit: 2176
	)	
Filed: April 15, 2007	)	
	)	
For: RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT	)	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT AND NOTICE OF LITIGATION UNDER MPEP 2001.06(C)

Sir:

In accordance with the provisions of MPEP 2001.06(c) and 37 C.F.R §§ 1.56, 197, and 1.98, the Patent Office's attention is directed to ongoing litigation between the assignee of the above-identified application (SoftView LLC) and defendants Apple Inc. and AT&T Mobility LLC. The litigation, Case No. 1:10-cv-00389-JJF-LPS, is ongoing in the United States District Court for the District of Delaware.

In a complaint filed May 10, 2010, SoftView LLC has asserted one or more claims in U.S. Patent 7,461,353. The '353 patent is a divisional of the parent (U.S. Application Serial No. 09/878,097 issued as U.S. Patent 7,210,099) of the above-identified application. As of this date, there has been no answer filed in response to the complaint. A copy of the complaint and Report on the Filing or Determination of an Action Regarding a Patent or Trademark are provided electronically herewith and listed on the PTO Form PTO/SB/08b filed herewith.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: May 23, 2009 /S/ R. Alan Burnett

R. Alan Burnett
Reg. No. 46,149

4108 131st Ave SE
Bellevue, WA 98006

PTO/SB/08b (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	11735482
Filing Date	2007-04-15
First Named Inventor	Rohrabaugh
Art Unit	2176
Examiner Name	Tran, Quoc A.
Attorney Docket Number	005207.P001XC2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	Complaint, SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, the United States District Court for the District of Delaware	
	2	Report on the Filing or Determination of an Action Regarding a Patent or Trademark Case 1:10-cv-00389-JJF-LPS	
	3		
	4		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	7667266
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Correspondence Address:	GARY ROHRABAUGH - 3112 MAPLE RIDGE COURT - BELLINGHAM WA 98229 US - -
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	23-MAY-2010
Filing Date:	15-APR-2007
Time Stamp:	16:39:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	P001XC2_Lit_Notice.pdf	26001 47adda89fd469066922a49861779f6afd189ae37	no	2
Warnings:					
Information:					
2	NPL Documents	P001XC2_US_IDS_Form_SB_08b_lit1.pdf	325285 03b48ff481fbc3fbce1b16c200ec53eb3c08e2a8	no	2
Warnings:					
Information:					
3	NPL Documents	SoftView_v_Apple_et_al_Complaint_1.pdf	52948 066a9b82cd36752394002358726ba3cdaf8259df	no	5
Warnings:					
Information:					
4	NPL Documents	Report_Commissioner_Patents_1.pdf	30999 1f615fc7a97773f44e0aad99a7b57214ff8c9f5ee	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	435233		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

59860
LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

POA ACCEPTANCE LETTER

OC00000041791847

Date Mailed: 05/26/2010

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/19/2010.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/snguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11735482
Filing Date	2007-04-15
First Named Inventor	Rohrabaugh
Art Unit	2176
Examiner Name	Quoc A. Tran
Attorney Docket Number	005207.P001XC2

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	005207.P001XC2

	1	Combined Printout of HTML Help Files for Opera 3.60 (HTML pages printed to PDF docs and combined), Available on May 12, 1999.	☐
	2	Screenshots compilations of Web pages using Opera 3.60, including: www.Altavista.com – May 1, 1999 www.cnet.com – May 8, 1999 www.excite.com – May 8, 1999 www.nytimes.com – April 22, 1999	☐
	3	Non-Final Office Action for US Application Serial No. 09/828,511, Mailed on March 22, 2004. Not publicly available via PAIR – check USPTO paper file wrapper.	☐
	4	Notice of Allowance for US Application Serial No. 11/738,486	☐
	5	Notice of Allowance for US Application Serial No. 11/738,932	☐
	6	Non-Final Office Action for US Application Serial No. 11/735,482, Mailed April 27, 2010	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	005207.P001XC2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/R. Alan Burnett/	Date (YYYY-MM-DD)	2010-06-21
Name/Print	R. Alan Burnett	Registration Number	46149

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Attorney Docket No. 005207.P001XC2 *Patent*

Certificate of Electronic Filing

I hereby certify that this correspondence is being Electronically Filed via EFS on June 22, 2010
Date of Electronic Filing

R. Alan Burnett
Name of Person Filing Correspondence

/S/ R. Alan Burnett — June 22, 2010
Signature — Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	
Rohrabaugh et al.	Examiner: Tran, Quoc A.
Serial No. 11/735,482	Art Unit: 2176
Filed: April 21, 2007	
For: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form (except as noted below). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Applicants have identified the existence of the first (and only) Office Action issued in 09/828,511 in the Information Disclosure Statement. The present application is a continuation of U.S. Application Serial No. 09/878,097, which is a

continuation in part of 09/828,511. The corresponding IDS item is listed as "Non-Final Office Action for U.S. Application Serial No. 09/828,511, Mailed on March 22, 2004. Not publicly available via PAIR – check USPTO paper file wrapper." The law firm that filed 09/828,511 (Blakely, Sokoloff, Taylor, and Zafman) has indicated the file for this application is either missing or was destroyed in view of abandonment of the application. Additionally, the file wrapper image is not available via PAIR. As a result, Applicants do not have access to a copy of the Office Action. However, the USPTO should have paper copy of the file wrapper containing a copy of this Office Action.

Applicants also submit herewith an electronic copy of the Notice of Allowances in U.S. Application Serial Nos. 11/738,486 and 11/738,932. Electronic copies of other official actions issued by the USPTO for applications related to the present application (*i.e.*, applications in the same family) have been previously submitted. The following table lists all current related applications in the family, with the application for which the present IDS is being submitted shown in bold. Applicants note that the entire file histories for each of the applications listed below are available internally at the USPTO. However, applicants will provide an electronic copy of any action, response, reference, or any other paper in the file history of any of the application if so requested.

Application No.	**Filing Date**	**Relationship**	**Status**
60/211,345	06-12-2000	Provisional Application	Expired
60/217,345	07-11-2000	Provisional Application	Expired
09/828,511	04-07-2001	Original Non-provisional application	Abandoned
09/878,097	06-08-2001	Continuation-in-part of 09/828,511	7,210,099
11/045,649	01-28-2005	Divisional of 09/878,097	7,584,423
11/045,757	01-28-2005	Divisional of 09/878,097	7,461,353
11/735,477	04-15-2007	Continuation of 09/878,097	Awaiting First Action
11/735,482	**04-15-2007**	**Continuation of 09/878,097**	**Non-Final Action**
11/738,486	04-21-2007	Continuation of 09/878,097	Allowed
11/738,932	04-23-2007	Continuation of 09/878,097	Allowed
11/868,124	10-05-2007	Divisional of 11/045,757	Awaiting First Action
12/326,092	12-01-2008	Continuation of 11/045,757	Awaiting First Action

Submission of the USPTO Actions issued for the foregoing applications does not indicate that the Applicants agree with any rejection thereon, or in any position taken by an Examiner.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: June 22, 2010

/S/ R. Alan Burnett

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Certificate of Electronic Filing

I hereby certify that this correspondence is being Electronically Filed via EFS on June 22, 2010
Date of Electronic Filing

R. Alan Burnett
Name of Person Filing Correspondence

/S/ R. Alan Burnett — June 22, 2010
Signature — Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Rohrabaugh et al.	)	Examiner: Tran, Quoc A.
	)	
Serial No. 11/735,482	)	Art Unit: 2176
	)	
Filed: April 21, 2007	)	
	)	
For: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	)	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT REMARKS

Sir:

Applicants respectfully request the Examiner consider the following remarks which are provided in conjunction with a concurrently filed Supplemental Information Disclosure.

REMARKS

Concurrently filed herewith is a Supplemental Information Disclosure Statement by which the Applicants are attempting to disclose information concerning the Opera 3.60 browser software application (hereinafter *Opera 3.60* may also be used to designate this software application). In accordance with *In re Epstein*, 32 F.3d 1559, 1567-68, 31 USPQ2d 1817, 1823 (Fed. Cir. 1994), it is believed that the *Opera 3.60* software application (itself) and textual content in the application's html and txt files qualifies as prior art under *35 U.S.C. §102(b)* as being "…in public use or on sale in this country, more than one year prior to the date of the application for patent in the United States …" As is well understood, "the date of application" in a continuation or divisional application refers to the priority date of the continuation or divisional application. Similarly, if the parent application is based on a provisional application, the filing date of the provisional application applies for the purpose of the "critical date" under *35 U.S.C. §102(b)*. The critical date of the instant application is the filing date of the first provisional application referenced in the priority chain (60/211,019), that being June 12, 2000. It is believed by the Applicants that the *Opera 3.60* software application was at least one of in use or on sale in this country prior to June 12, 1999. In view of this belief and in accordance with Applicants' and the undersigned representative's duties under Rule 56 (*37 C.F.R. § 1.56*), Applicants hereby submit a copy of the *Opera 3.60* browser software application and supporting material.

With emphasis added through underlining, M.P.E.P. § 2128 states:

> An electronic publication, including an on-line database or Internet publication, is considered to be a "printed publication" within the meaning of 35 U.S.C. 102(a) and (b) provided the publication was accessible to persons concerned with the art to which the document relates. See *In*

> *re Wyer*, 655 F.2d 221, 227, 210 USPQ 790, 795 (CCPA 1981) ("Accordingly, whether information is printed, handwritten, or on microfilm or a magnetic disc or tape, etc., the one who wishes to characterize the information, in whatever form it may be, as a 'printed publication' * * * should produce sufficient proof of its dissemination or that it has otherwise been available and accessible to persons concerned with the art to which the document relates and thus most likely to avail themselves of its contents.'" (citations omitted).).

With emphasis added through underlining, M.P.E.P. § 2128 further states:

> Prior art disclosures on the Internet or on an on-line database are considered to be publicly available as of the date the item was publicly posted. *>Absent evidence of the date that the disclosure was publicly posted, if< the publication >itself< does not include a publication date (or retrieval date), it cannot be relied upon as prior art under 35 U.S.C. 102(a) or (b)

Applicants acknowledge the basis for the belief that *Opera 3.60* was in use and/or on sale in the United States prior to June 12, 1999 is based on hearsay evidence that would normally be excluded under the Federal Rules of Evidence. However, as discussed in *Epstein*, "The general rule is that administrative agencies like the PTO are not bound by the rules of evidence that govern judicial proceeding." In consideration of hearsay evidence being allowed, the belief that *Opera 3.60* was in use or on sale in the United States basis is based on the following.

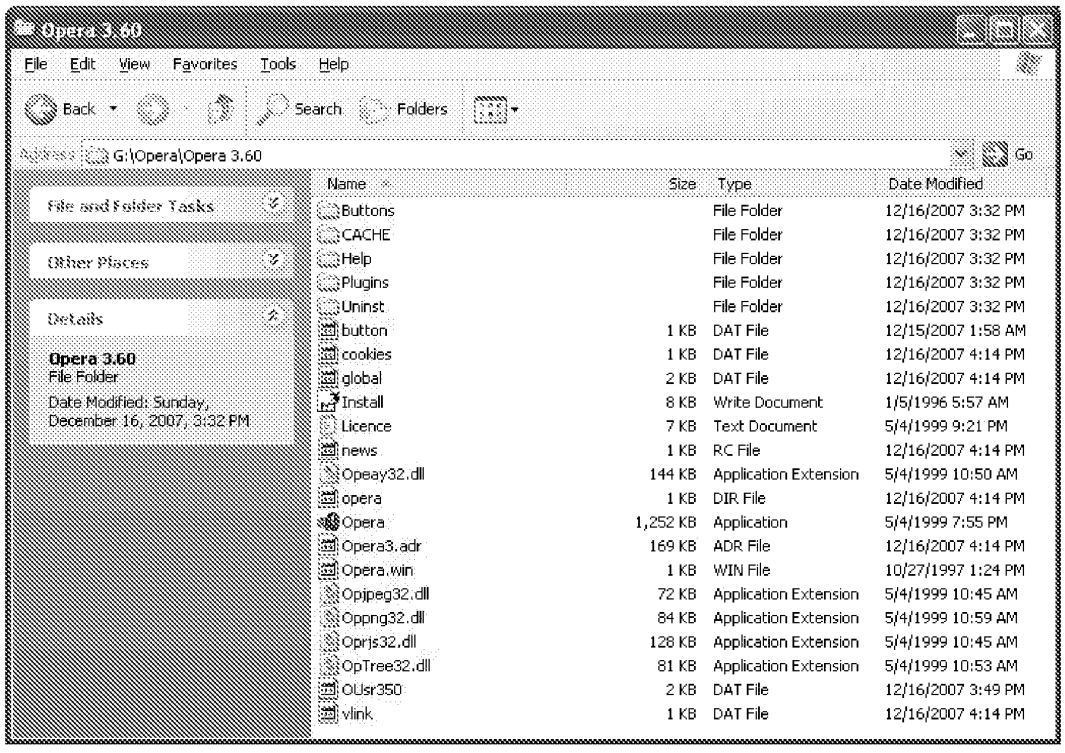
Substantially all versions of the Opera browser, including version 3.60, are purportedly available for download from a German Web page with a URL of

http://opera-fansite.de/wiki/download+alte+Versionen.

A printout of the corresponding Web page is submitted herewith. Another Web page concerning a timeline of Opera Browser Releases (also having a printout submitted herewith) indicates that Opera version 3.60 was released on May 12, 1999. Presumably, the 3.60 version of Opera was available over the

Internet on or shortly after this date, as the software application was developed in Norway by a Norwegian company, and distribution of the software was typically via the Internet. In considering this documentary evidence, it is believed that download of *Opera 3.60* was available to a person in the United States at least prior to June 12, 1999, the §102(b) bar date.

To further support the dates purported on the attached Web pages, the software accessible via the German Web page has been downloaded and installed on several computers operated by Applicant Gary Rohrabaugh and the undersigned representative, further details of which are submitted herewith. The dates of the software components are depicted below in the following screenshot of the file listing in a copy of the directory in which Opera was installed on one computer:



Explorer Listing of *Opera 3.60* Components (top level folder)

As is clearly evident, several of the software components, including the Opera application itself, have a date of 5/4/1999. This adds support to the belief that Opera 3.60 was in fact released on May 12, 1999.

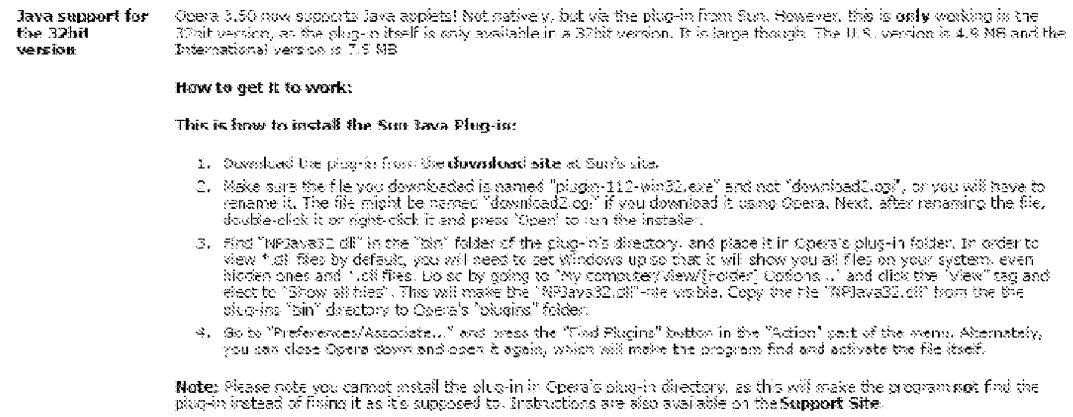
During prosecution of U.S. Application Serial No. 11/045,649 (issued as U.S. Patent 7,584,423) and U.S. Application Serial No. 11/045,757 (issued as U.S. Patent 7,451,353), both of which are divisionals of the parent of present application (U.S. Application Serial No. 09/878,097 issued as U.S. Patent 7,210,099), Applicants submitted three copies of the following on CD-R Media (three copies of the media) having the following stored thereon:

1) A software copy of the *Opera 3.60* self-extracting (.exe) file downloaded by the aforementioned German Web page (360.exe in Opera 3.60 Self Extract folder).
2) A software copy of the *Opera 3.60* components in their installation configuration. (Opera 3.60 Folder)
3) Software copies of the PDF files corresponding to the Opera 3.60 Help documentation (Opera 3.60 Documentation (PDF) folder).
4) A software copy of a self-extracting file from which the version 1.1.2 Java Plug-in may be installed. (Java 1.1.2 Plug-in folder)
5) Software copies of the PDF files corresponding to the screenshots. (Opera 3.60 Screenshots subfolders)
6) Software copies of the MS Word documents from which the PDF files of the screenshots were derived, to provide access to JPEG screenshot images. (Opera 3.60 Screenshots subfolder)
7) Software copies of the PDF files corresponding to the aforementioned German Web page and Opera version release Web page. (Opera Release Web Pages folder)

In attempting to submit the software copies referenced above, the undersigned representative researched the MPEP and consulted a number of other patent attorneys at various well-respected law firms. It was the general consensus that there is no provision in the MPEP to submit copies of software applications (i.e., executable code, including code for installing a software application), although there are provisions for submitting materials relevant to patentability on CD-R Media (for example, biological sequence listings). Accordingly, applicants attempted to meet the Rule 56 disclosure criteria, in part, via submission of the above-mentioned materials on CD-R Media. However, the OIPE or other USPTO entity that reviews IDS materials submitted via CD-R Media rejected entry of the materials via CD-R Media.

As stated above, a purported version of Opera 3.60 can be downloaded from http://opera-fansite.de/wiki/download+alte+Versionen.

The *Opera 3.60* self-extracting (.exe) file may be run to install *Opera 3.60* on a computer running a Windows-based operating system. Successful installation and operation has been confirmed on computers running Windows 98, Windows 2000 Professional, and Windows XP operating systems. Confirmation of compatibility with Windows Vista OS and Windows 7 has not been attempted. Similarly, the Java 1.1.2 plug-in can be installed by running the corresponding plugin-112-win32.exe file. Further details for installing the Java 1.1.2 plug-in are shown below:



Java support for the 32bit version

Opera 3.50 now supports Java applets! Not natively, but via the plug-in from Sun. However, this is **only** working in the 32bit version, as the plug-in itself is only available in a 32bit version. It is large though. The U.S. version is 4.6 MB and the International version is 7.9 MB

How to get it to work:

This is how to install the Sun Java Plug-in:

1. Download the plug-in from the **download site** at Sun's site.
2. Make sure the file you downloaded is named "plugin-112-win32.exe" and not "download2.cgi", or you will have to rename it. The file might be named "download2.cgi" if you download it using Opera. Next, after renaming the file, double-click it or right-click it and press 'Open' to run the installer.
3. Find "NPJava32.dll" in the "bin" folder of the plug-in's directory, and place it in Opera's plug-in folder. In order to view *.dll files by default, you will need to set Windows up so that it will show you all files on your system, even hidden ones and *.dll files. Do so by going to "My computer/View/[Folder] Options..." and click the "View" tag and elect to "Show all files". This will make the "NPJava32.dll"-file visible. Copy the file "NPJava32.dll" from the the plug-ins "bin" directory to Opera's "plugins" folder.
4. Go to "Preferences/Associate..." and press the "Find Plugins" button in the "Action" part of the menu. Alternately, you can close Opera down and open it again, which will make the program find and activate the file itself.

Note: Please note you cannot install the plug-in in Opera's plug-in directory, as this will make the program **not** find the plug-in instead of fixing it as it's supposed to. Instructions are also available on the **Support Site**.

It is noted the Java plug-in is not needed to run Javascript, which is alleged to be supported in the *Opera 3.60* documentation. It is further noted that there was no difference observed when running *Opera 3.60* with or without the Java 1.1.2 plug-in, although *Opera 3.60* was not tested extensively.

It is understood that the USPTO may have rules that prevent examiners from installing software application submitted in this manner for testing purposes. According, Applicants also submit herewith a number of screenshots captured while running *Opera 3.60* on computers running Microsoft Windows 98 and Windows 2000 Professional operating systems. Applicants acknowledge the screen shots are merely representative of the behavior of *Opera 3.60* when viewing a handful of Web pages; submission of additional screenshots is believed to be cumulative.

Use of Wayback Machine (Internet Archive)

The sets of screenshots that are submitted in the associated Information Disclosure Statement filed herewith were accessed using the "Wayback Machine" (*a.k.a.* Internet Archive), which may be accessed at www.archive.org/. This website is operated as a non-profit organization established to preserve Web sites by taking regular "snapshots." As stated on the website,

> The Internet Archive is a 501(c)(3) non-profit that was founded to build an Internet library, with the purpose of offering

> permanent access for researchers, historians, and scholars to historical collections that exist in digital format. Founded in 1996 and located in the Presidio of San Francisco, the Archive has been receiving data donations from Alexa Internet and others. In late 1999, the organization started to grow to include more well-rounded collections. Now the Internet Archive includes texts, audio, moving images, and software as well as archived web pages in our collections.

For the purpose of this submission, it is presumed that the information concerning the archival dates is valid (or otherwise close to accurate). Several of the Web pages have dates on them, adding validity to the alleged dates.

The purpose of using the Internet Archive was to observe the behavior of *Opera 3.60* when rendering Web pages that were available proximate to its release date (May 12, 1999). Try as he may, the undersigned representative could not find any Web pages with dates from May 12 – June 12 1999 – that is between the release date of *Opera 3.60* and the one year §102(b) date. In view of this, Web pages with publication dates proximate to May 12, 1999 were selected (as available). It is reasonable to believe these Web pages were likely available on May 12, 1999, or shortly thereafter. Accordingly, applicants respectfully assert that the disclosed screenshots qualify as prior art under 35 U.S.C. §102(b) in view of the *In re Epstein*, as discussed above.

Applicants respectfully note that the versions of the Web pages returned by the Internet Archive are augmented with the following script (or similar) located at the end of the page source document:

```
<SCRIPT language="Javascript">
<!--

// FILE ARCHIVED ON 19991010025744 AND RETRIEVED FROM THE
// INTERNET ARCHIVE ON 20080121053652.
// JAVASCRIPT APPENDED BY WAYBACK MACHINE, COPYRIGHT INTERNET ARCHIVE.
// ALL OTHER CONTENT MAY ALSO BE PROTECTED BY COPYRIGHT (17 U.S.C.
// SECTION 108(a)(3)).
```

```
   var sWayBackCGI = "http://web.archive.org/web/19991010025744/";

   function xResolveUrl(url) {
      var image = new Image();
      image.src = url;
      return image.src;
   }
   function xLateUrl(aCollection, sProp) {
      var i = 0;
      for(i = 0; i < aCollection.length; i++) {
         if (typeof(aCollection[i][sProp]) == "string") {
          if (aCollection[i][sProp].indexOf("mailto:") == -1 &&
             aCollection[i][sProp].indexOf("javascript:") == -1) {
            if(aCollection[i][sProp].indexOf("http") == 0) {
                aCollection[i][sProp] = sWayBackCGI +
aCollection[i][sProp];
            } else {
                aCollection[i][sProp] = sWayBackCGI +
xResolveUrl(aCollection[i][sProp]);
            }
         }
         }
      }
   }

   xLateUrl(document.getElementsByTagName("IMG"),"src");
   xLateUrl(document.getElementsByTagName("A"),"href");
   xLateUrl(document.getElementsByTagName("AREA"),"href");
   xLateUrl(document.getElementsByTagName("OBJECT"),"codebase");
   xLateUrl(document.getElementsByTagName("OBJECT"),"data");
   xLateUrl(document.getElementsByTagName("APPLET"),"codebase");
   xLateUrl(document.getElementsByTagName("APPLET"),"archive");
   xLateUrl(document.getElementsByTagName("EMBED"),"src");
   xLateUrl(document.getElementsByTagName("BODY"),"background");
   var forms = document.getElementsByTagName("FORM");
   if (forms) {
       var j = 0;
       for (j = 0; j < forms.length; j++) {
              f = forms[j];
              if (typeof(f.action)  == "string") {
                 if(typeof(f.method)  == "string") {
                     if(typeof(f.method) != "post") {
                        f.action = sWayBackCGI + f.action;
                     }
                  }
              }
        }
    }


//-->
</SCRIPT>
```

Applicants do not believe the added script has any adverse affect to the rendering of the pages. Rather, the script appears to be for the purpose of resolving URLs referenced within the HTML page definition.

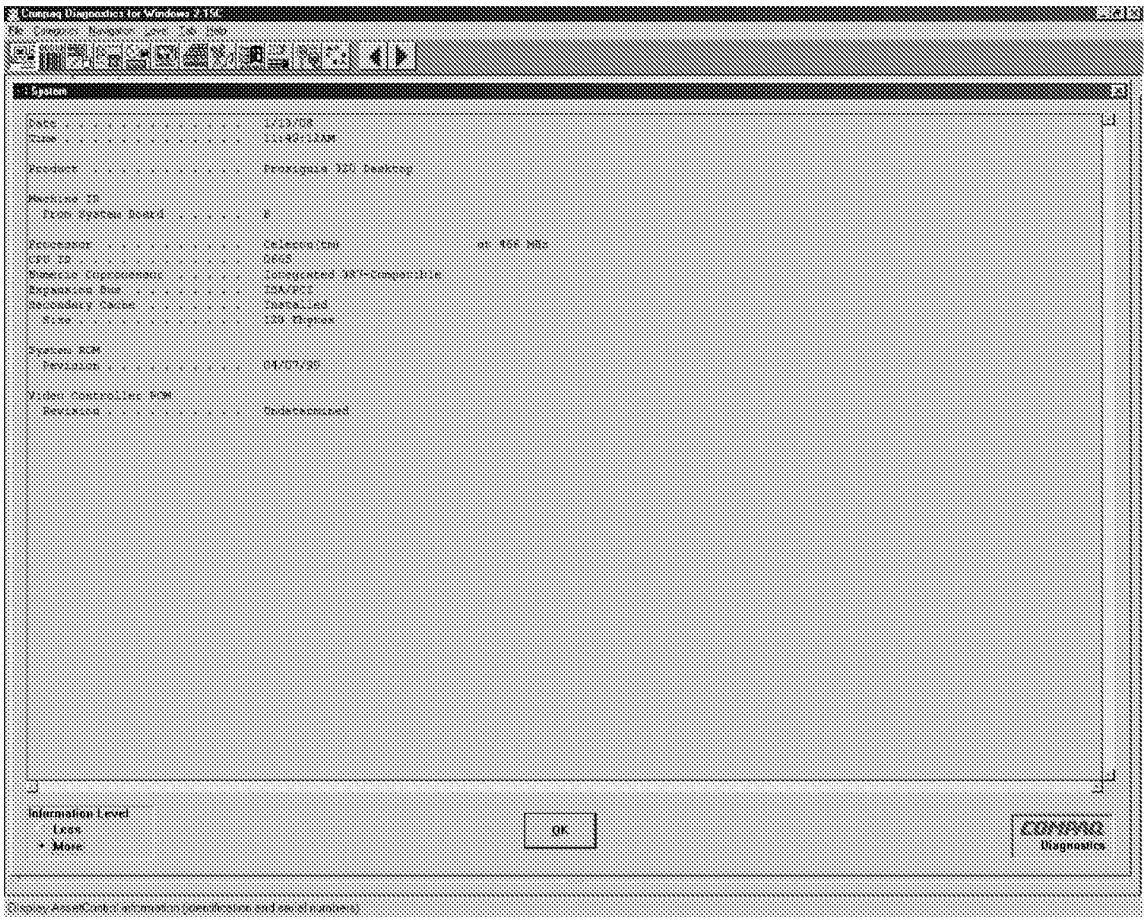
In addition to the screenshot documents identified in the Information Disclosure Statement form PTO/SB/08a, there are some additional screenshots documents that are not being submitted as IDS references (since they are not purported to qualify as prior art references under *Epstein*), but are being submitted for more complete observation of the *Opera 3.60* behavior. It is noted that all of the screenshots captured in the documents listed in the IDS were captured using a machine running the Windows 2000 Professional operating system. Applicants note that there was no observed behavior difference of any significance when rendering pages with *Opera 3.60* under Windows 98 and Windows 2000 Professional, as evidenced by the screenshot documents submitted herewith but not listed in on IDS form PTO/SB/08a. It is noted that Windows 2000 was not available at the time of *Opera 3.60's* release date (it became available in early 2000).

Test Environments

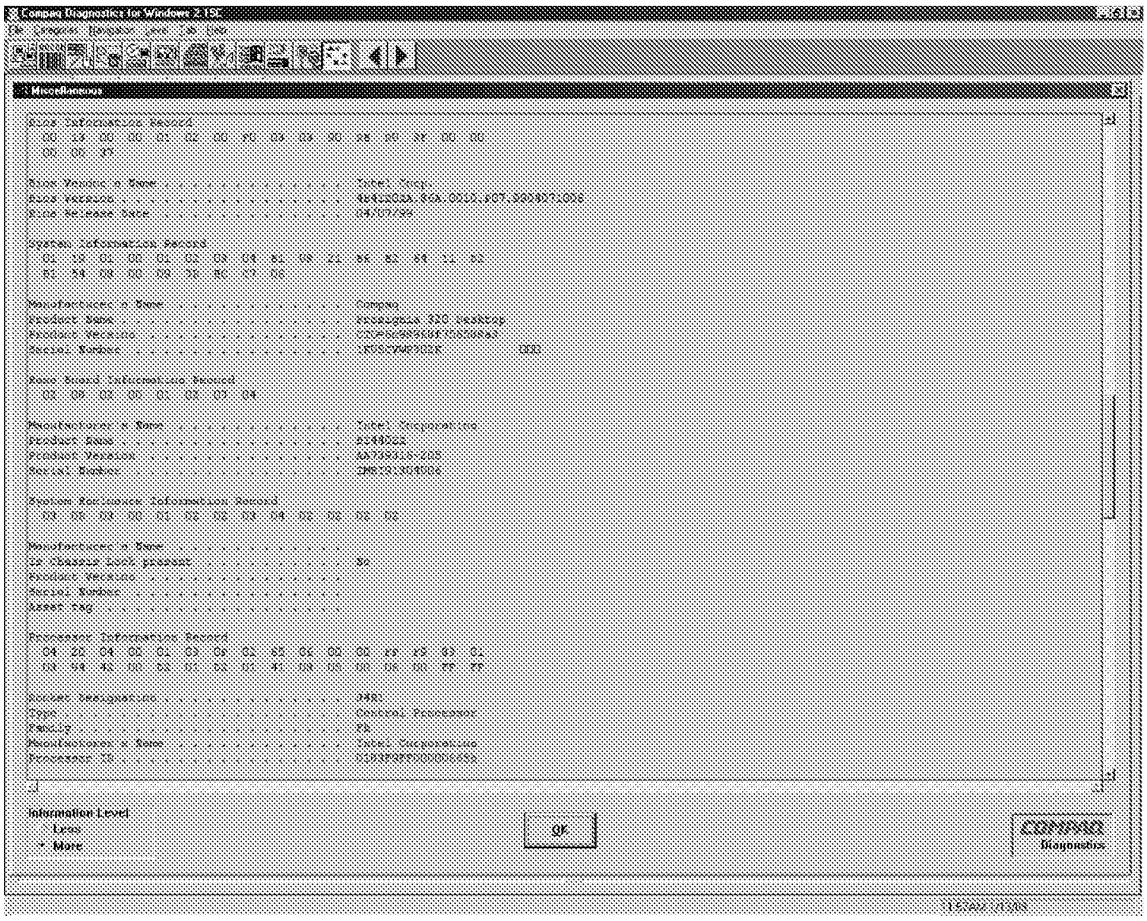
As discussed above, *Opera 3.60* was tested on computers running Microsoft Windows 98, Windows 2000 Professional, and Windows XP operating systems. However, only screenshots from computers running Windows 98 and Windows 2000 Professional are submitted herewith.

In general, the purpose of the screenshots is to demonstrate the behavior of the self-described (by *Opera 3.60* documentation) "page zooming" feature. The page zooming feature is (presumably) designed to enable users to view Web pages at different zoom levels; however, the performance of this feature was rather unpredictable and inconsistent, as evidence by the attached screenshots.

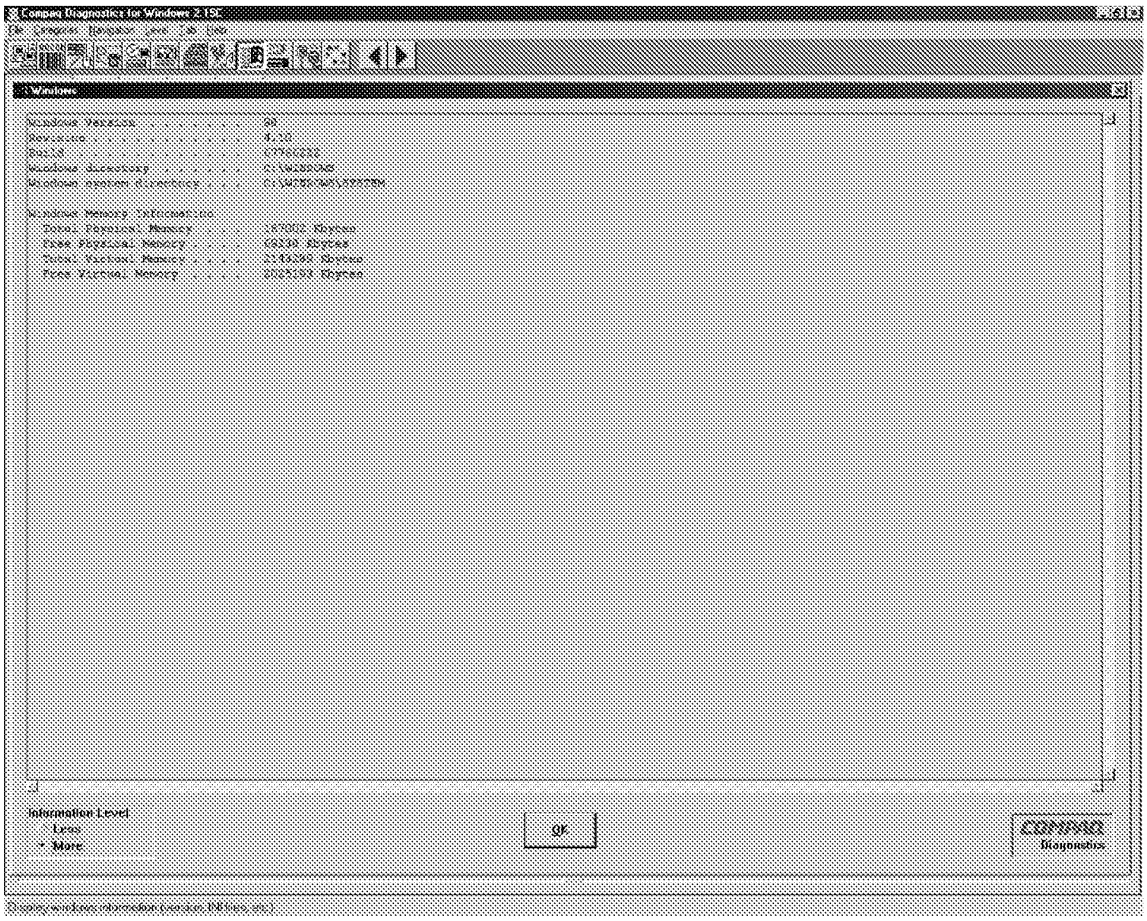
The first test machine comprised a Compaq Prosignia 320 desktop computer running Windows 98. More specific details of this computer and operating system are evidenced by the following screenshots, which were generated by a Compaq Diagnostics utility application. It is noted the Java 1.1.2 Plug-in was not installed on this computer.



This screenshot shows a System Panel identifying basic system information, including the system having an Intel Celeron processor running at 466 MHz and a System ROM revision date of 04/07/99



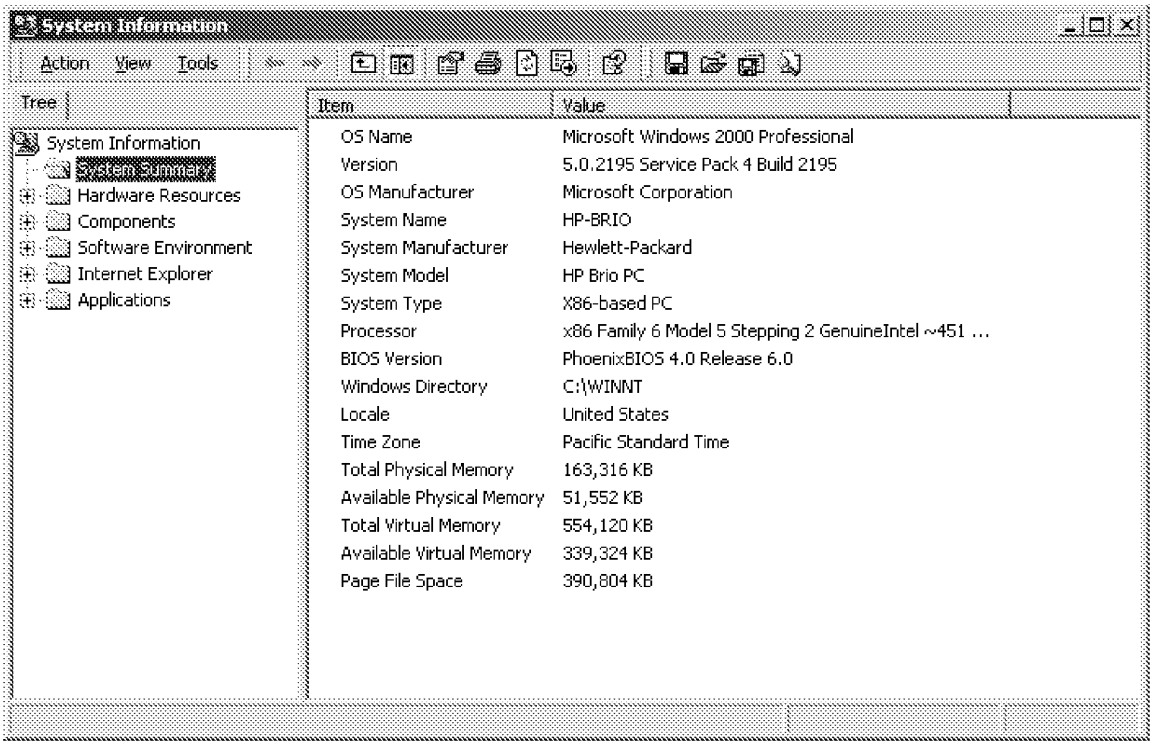
Screen shot of a portion of a Miscellaneous screen providing further details of the System, including Bios version, processor details, etc.



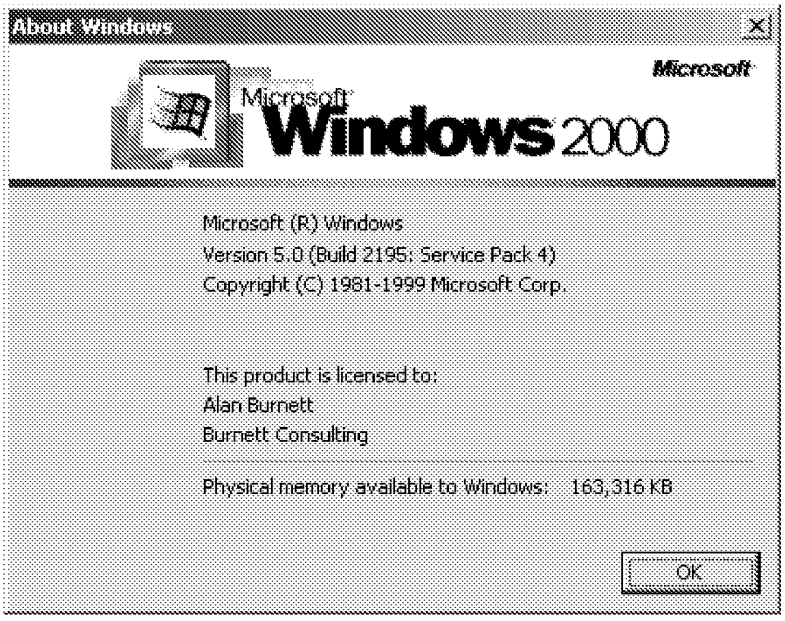
Screenshot of Windows version information. The Windows version is Windows 98, revision 4.10, build 67766222.

Screenshot that were captured using this computer are labeled "Compaq Prosignia 320 – Windows 98."

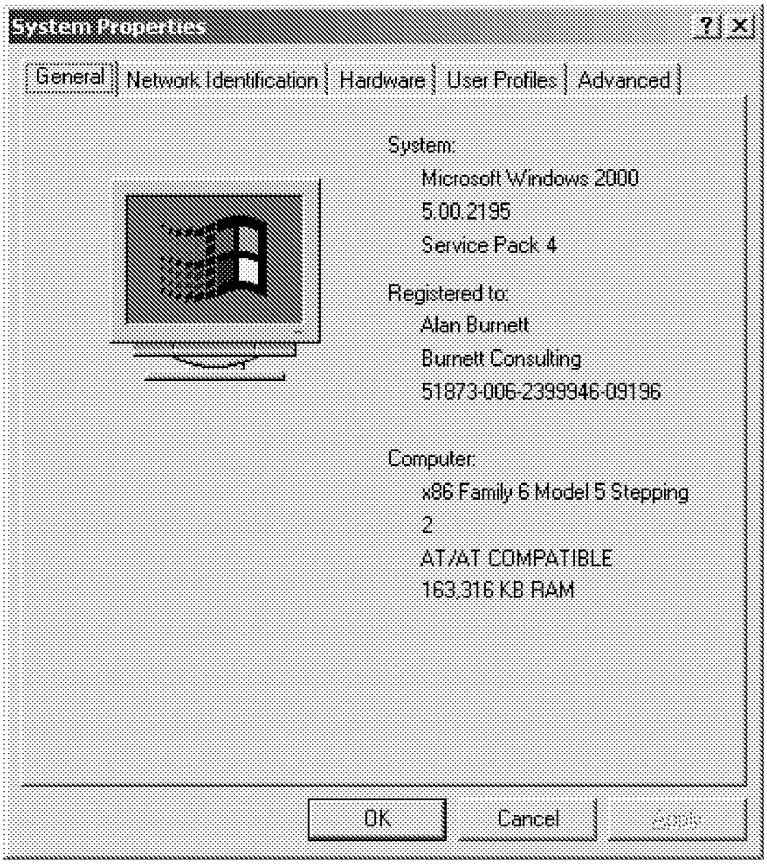
The second computer used for the screenshots was a Hewlett-Packard Brio computer running Windows 2000 Professional. Unfortunately, the Brio did not come with a diagnostics utility similar to the Compaq. Accordingly, the following configuration information generated by a Windows utility is provided.



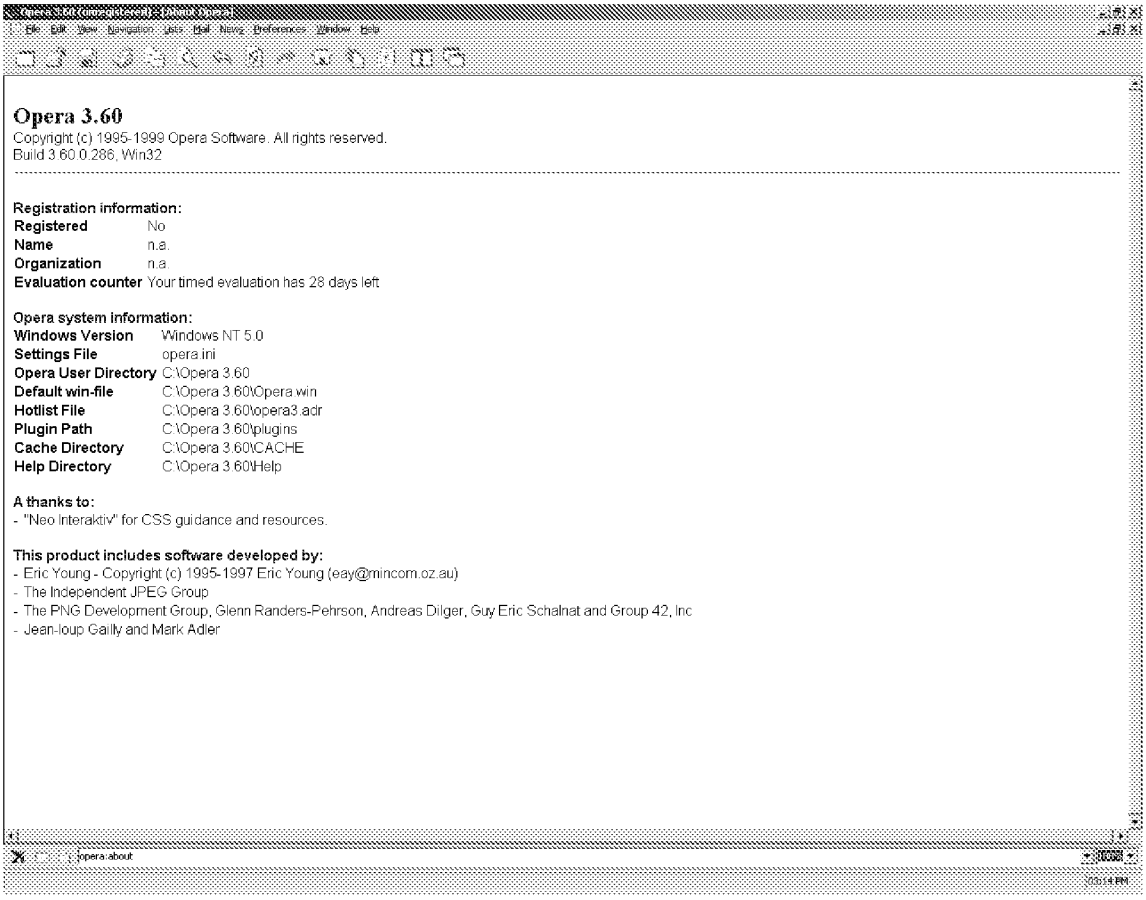
This screenshot shows basic system information, including identifying the OS name and version, system (computer) information, BIOS version, etc.



This screenshot was generated by selecting the About Windows option



This screenshot was generated by selecting System from the Control Panel Window



This screenshot was captured by selecting the *Opera 3.60* help menu item "About Opera." It is unknown why Opera detected the Windows version as Windows NT 5.0 – the actual OS was Windows 2000 Professional.

Screenshots that were captured using this second computer are labeled "HP Brio – Windows 2000 Professional." It is noted that the Java 1.1.2 Plug-in was installed on the HP Brio computer.

Brief Discussion of Results

First, *Opera 3.60* behaved similarly on both operating systems. In general, there was no perceptible difference in behavior between *Opera 3.60* running on Windows 98 or Windows 2000 Professional, which is expected, since

allegedly these Microsoft Windows operating systems are backwards compatible, meaning an application that would run on Windows 98 should run in a similar manner on Windows 2000.

As discussed above, the overall behavior of the "page zooming" feature was inconsistent and somewhat unpredictable. More specific details of the results of various example Web pages are contained in the auxiliary screenshot documents submitted herewith; however, the screenshot documents listed in the IDS are submitted without comment[1].

Of the auxiliary screenshot documents, the most demonstrable one includes screenshots illustrating the comparison between the www.arbidol.org original home page and its modified version. At 100% (that is, the rendering engine's interpretation of the Web page's content, layout, and attributes as defined by the page's HTML-based content), the original and modified versions of the page render substantially identically (at the browser window size used in for the comparison test). However, while page zooming of the original page functions fairly well (that is, it substantially preserves the page layout and attributes at most zoom levels), the page layout and attributes of the modified page are clearly not preserved at many zoom levels. This demonstrates that the rendered versions of the pages at zoom levels other than 100% are not based on the rendering engine's interpretation of the page layout and design at 100% - that is the interpretation of the page designer's intent of what the page is designed to render like. Thus, Opera 3.60 does not generate scalable vector-based page layout information in accordance with the pending claims of the present application.

[1] There is textual information provided with these documents identifying various test parameters.

In addition to reviewing the submitted screenshots, the Examiner is encouraged to install *Opera 3.60* and test it on his own. Applicant's note, it is easier to observe how the page zooming feature behaves when zooming in person. For example, one can observe the page layout change using incremental zooming. Using the CTRL key in combination with the mouse scroll wheel (if available) is particularly useful for incremental zooming.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: June 22, 2010

/S/ R. Alan Burnett

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Electronic Patent Application Fee Transmittal	
Application Number:	11735482
Filing Date:	15-Apr-2007
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	R. Burnett
Attorney Docket Number:	005207.P001XC2
Filed as Large Entity	

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt	
EFS ID:	7869131
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	22-JUN-2010
Filing Date:	15-APR-2007
Time Stamp:	17:20:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$180
RAM confirmation Number	4443
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Information Disclosure Statement (IDS) Filed (SB/08)	P001XC2_IDS_Form_SB_08a.pdf	612569 dc73e7c98df817cd4fe3af985938f8d98f0473d3	no	4
Warnings:					
Information:					
A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.					
2	Transmittal Letter	P001XC2_IDS_Submission_Letter.pdf	37593 0e53cbc7796ba6e628e2cf0d4f6e5887726d7b07	no	4
Warnings:					
Information:					
3	Transmittal Letter	P001XC2_S_IDS_Remarks_Opera.pdf	753658 f78bb85039e27ec3d3f999a8b64d6a66803d5e78	no	18
Warnings:					
Information:					
4	NPL Documents	opera-document-combined.pdf	1242750 e574601b57e3fc14197ba735ccc2fc325ea7ce8e	no	87
Warnings:					
Information:					
5	NPL Documents	3_60_Win_2K_Altavista_5-1-99.pdf	539015 191a1e234ccaa4ab477fd84cf41bbb02fc039043	no	13
Warnings:					
Information:					
6	NPL Documents	3_60_Win_2K_CNET_5-8-99.pdf	1446018 3d283657a3e10da7acb06b0d00d6bbfd92ce0d9e	no	23
Warnings:					
Information:					
7	NPL Documents	3_60_Win_2K_Excite_5-8-99.pdf	849496 282c39473a531f5cf2cba86096f5fbf712a338b8	no	14
Warnings:					
Information:					
8	NPL Documents	3_60_Win_2K_NYTimes_4-22-99.pdf	1497889 8a3b74abcc8eff77ab178abe9f1343969849 55f4	no	15
Warnings:					
Information:					

9	NPL Documents	3_60_Win_2K_Softsource_4-17-99.pdf	1150160 f932159bfc6a478b2f3ccbde978cd3ca83e819b5	no	16
Warnings:					
Information:					
10	NPL Documents	3_60_Win_2K_Texas_4-27-99.pdf	1741068 571bde5aa6bdc6640a8a6efc423091919f42115e	no	12
Warnings:					
Information:					
11	NPL Documents	3_60_Win_2K_USPTO_5-5-99.pdf	1082388 328b2cb893e907799d87933565fc5d73433373c6	no	13
Warnings:					
Information:					
12	NPL Documents	3_60_Win_2K_Yahoo_5-8-99.pdf	558222 ab44e05c603576361c059e024bc9d2cc1a79c996	no	10
Warnings:					
Information:					
13	NPL Documents	11738486_NOA.pdf	1327585 a68a9d60b6578bedde9964824ed7240d66ea16a2	no	38
Warnings:					
Information:					
14	NPL Documents	11738932_NOA.pdf	178549 6cdc23bbddb741a7fa723c7a7e18daf78d9a2214	no	3
Warnings:					
Information:					
15	NPL Documents	11735482-Non_Final_4-27-10.pdf	260801 e0f99c56c8bebc587be639a4bd9ed2930ec89aeb	no	8
Warnings:					
Information:					
16	Miscellaneous Incoming Letter	3_60_Arbidol_Win_2K_and_98.pdf	986485 a161aba4e221d640133eef42569640215b325e92	no	15
Warnings:					
Information:					
17	Miscellaneous Incoming Letter	3_60_Arbidol_Win_2K_Compare.pdf	2130953 7710ed8682f437a7dfc4f2556bb371c07b6f1319	no	33
Warnings:					
Information:					

18	Miscellaneous Incoming Letter	3_60_Google_Win_2K_and_98.pdf	879474 c3242b390dabfae661faa4cd4e7d8cce6435cfdb	no	15
Warnings:					
Information:					
19	Miscellaneous Incoming Letter	3_60_Newport_Win_2K_and_98.pdf	1986774 8ede46d4319c0ba4d11cab6dd202c2d7c2e8eba3	no	19
Warnings:					
Information:					
20	Miscellaneous Incoming Letter	3_60_Opera_Company_Win_2K_and_98.pdf	1097856 8caf44adbcc35830d2137c09b54482e47fd9991c	no	15
Warnings:					
Information:					
21	Fee Worksheet (PTO-875)	fee-info.pdf	30387 ee9c7e0097369932ff0ed1c996ff95187b933bff	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	20389690		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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Electronic Acknowledgement Receipt	
EFS ID:	7869190
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	22-JUN-2010
Filing Date:	15-APR-2007
Time Stamp:	17:23:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	3_60_Win_2K_Opera_10-10-99.pdf	1310361 13e789b7f9591e4ad978b4a1c163b928390b2f25	no	14

Warnings:
Information:

2	Miscellaneous Incoming Letter	Die_inoffizielle_Opera-Fansite_Download_alte_Versionen.pdf	25214 8d359c307a9aaa37739f8d9f26f9c7d028fb0dfe	no	2

Warnings:	
Information:	
Total Files Size (in bytes):	1335575

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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New International Application Filed with the USPTO as a Receiving Office
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Certificate of Electronic Filing

I hereby certify that this correspondence is being Electronically Filed via EFS on July 21, 2010
Date of Electronic Filing

R. Alan Burnett
Name of Person Filing Correspondence

/S/ R. Alan Burnett — July 21, 2010
Signature — Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Rohrabaugh et al.	)	Examiner: Tran, Quoc A.
	)	
Serial No. 11/735,482	)	Art Unit: 2176
	)	
Filed: April 21, 2007	)	
	)	
For: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	)	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO OFFICE ACTION

Sir:

In response to the non-final Office Action mailed April 27, 2010, the Applicant requests the Examiner to enter the amendment and reconsider all pending claims in view of the amendment and the following remarks.

Amendments begin on page 2.

Remarks begin on page 37.

AMENDMENT

In the Specification

Please amend the Title, with the following amended Title:

Resolution Independent ~~Vector~~ Display of Internet Content

Please replace paragraph [0001] with the following amended paragraph:

[0001] This application is a Continuation of U.S. Non-provisional Application No. 09/878,097, filed June 8, 2001, (issued as U.S. 7,210,099) entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," which is a Continuation-in-Part of U.S. Non-provisional Application No. ~~09/825,511~~ 09/828,511, filed April 7, 2001, (Abandoned) entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," the benefit of the filing ~~date~~ dates of which is claimed under 35 U.S.C. § 120. ~~This application~~ U.S. Non-provisional Application No. 09/878,097 further claims the benefit of the filing dates of U.S. Provisional Application No. 60/211,019, filed June 12, 2000, entitled "METHOD AND SYSTEM FOR RESOLUTION INDEPENDENT DISPLAY OF HTML AND XML CONTENT" and U.S. Provisional Application No. 60/217,345, filed July 11, 2000, entitled "METHOD AND SYSTEM FOR SELECTION, RETRIEVAL, AND CONVERSION OF COMPUTER CONTENT TO VECTOR FORMAT FOR RESOLUTION INDEPENDENT DISPLAY," under 35 U.S.C. § 119(e). The disclosure of each of the foregoing applications is incorporated by reference in its entirety herein for all purposes.

Please replace paragraph [0007] with the following amended paragraph:

[0007] Techniques for supporting resolution-independent ~~vector~~ display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing and/or to fit any resolution or screen size. According to one aspect, novel client-side processing of markup language-based Web content is provided that

~~translates~~ employs a rendering engine to interpret original page layout information ~~into scalable vector-based page layout information~~. The ~~scalable vector-based~~ page layout information is ~~then~~ scaled and employed to enable the Web content to be rapidly rendered, zoomed, and panned. According to another aspect, ~~vector-based~~ display lists are generated to provide further enhancements in rendering speed. According to other aspects, bounding boxes are generated and scaled to lay out text and/or images on scaled Web content that is used to facilitate browsing of Web pages with zooming and panning.

Please replace paragraph [0034] with the following amended paragraph:

[0034] The present invention may be provided as a computer program product that may include one or more machine-readable mediums having stored thereon instructions, which may be used to program a computer (or other electronic devices) to perform a process according to the present invention. The machine-readable medium may include, but is not limited to, floppy diskettes, optical disks, CD-ROMs, and magneto-optical disks, ROMs, RAMs, EPROMs, EEPROMs, magnetic or optical cards, flash memory, or other type of media / machine-readable medium suitable for storing electronic instructions. Moreover, the present invention may also be downloaded as a computer program product~~, wherein the program may be transferred from a remote computer (*e.g.*, a server) to a requesting computer (*e.g.*, a client) by way of data signals embodied in a carrier wave or other propagation medium via a communication link (*e.g.*, a modem or network connection). Accordingly, herein, a carrier wave shall be regarded as comprising a machine-readable medium~~.

Abstract

Please amend the Abstract, as follows:

Apparatus, methods and software for creating resolution-independent ~~vector~~ display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing and/or to fit any resolution or screen size. According to one aspect, novel client-side processing of markup language-based Web content is provided that ~~translates~~ employs a rendering engine to interpret original page layout information ~~into scalable vector-based page layout information~~. The ~~scalable vector-based~~ page layout information is ~~then~~ scaled and employed to enable the Web content to be rapidly rendered, zoomed, and panned. According to another aspect, ~~vector-based~~ display lists are generated to provide further enhancements in rendering speed. According to other aspects, bounding boxes are generated and scaled to lay out text and/or images on scaled Web content that is used to facilitate browsing of Web pages with zooming and panning.

In the Claims

This listing of claims replaces all prior versions and listing of claims in the application. Amendments or cancellations of any claims are done without prejudice, waiver and/or disclaimer. Applicant reserves the right to claim the subject matter of any amendment and/or cancellation in a continuing application.

1. (Currently Amended) A method comprising:

in response to a request to access a Web page made via a client,

retrieving markup language-based Web content associated with the Web page having an original format defining an original page layout, functionality and design of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

~~translating~~ processing, via the client, the markup language-based Web content with a rendering engine to ~~produce~~ generate ~~scalable vector-based~~ page layout information corresponding to the original page layout of content on the Web page as interpreted by the rendering engine including a width of the Web page; ~~and~~

employing ~~the scalable vector-based~~ scaled page layout information and/or data derived thereform to generate views of the Web page on a display, including,

~~render~~ a view under which the width ~~at least a portion~~ of the Web page ~~on a display using a first scale factor~~ is fully displayed; and

~~re-render~~ views of the Web page generated in response to associated user inputs to enable a user to ~~iteratively~~ zoom in and out a display of the Web page while preserving the original page layout, functionality, and design of the content on the Web page defined by the markup language-based Web content,

wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

2. (Currently Amended) The method of claim 1, wherein re-rendering ~~the display~~ views of the Web page is performed in real-time.

3. (Original) The method of claim 1, wherein the client comprises a browser.

4. (Original) The method of claim 3, wherein the browser is configured to run on at least one of a desktop computer, workstation, and laptop computer.

5. (Currently Amended) The method of claim 3, wherein the browser is configured to run on a wireless handheld device or wireless palm-held device.

6. (Currently Amended) The method of claim 1, wherein the client comprises a mobile device having a touch-sensitive display on which the Web page is displayed when rendered.

7. (Currently Amended) The method of claim 1, ~~wherein the markup language-based Web content includes at least one hyperlink, the method~~ further comprising:

enabling the user to select ~~the~~ a hyperlink; and, in response thereto,

retrieving and ~~translating~~ processing ~~the~~ markup language-based Web content associated with the hyperlink to produce additional ~~scalable vector-based~~ page layout information; and

~~employing the additional scalable vector-based~~ scaling additional page layout information and/or data derived therefrom to ~~render~~ generate ~~the display~~ a view of the Web content associated with the hyperlink.

8. (Currently Amended) The method of claim 1, further comprising:

parsing and processing markup language code with the rendering engine to determine the original page layout of display content within the Web page as interpreted by the rendering engine, wherein the original page layout defines a layout location for a plurality of objects, including text objects associated with the text content~~, graphic layout~~

~~objects, graphic objects and/or~~ and image objects associated with the plurality of images included in the Web page; and

~~defining a primary datum corresponding to the original~~ a page layout; ~~and,~~

for each object,

defining an object datum corresponding to the layout location for the object on the original page layout; and

~~generating a vector from the primary datum to the object datum for the object; and~~

~~creating a reference that links~~ associating the object [[to]] and its ~~corresponding vector~~ object datum.

9. (Currently Amended) The method of claim 8, further comprising translating at least one ~~graphic or~~ image object from an original format into a scalable format.

10. (Currently Amended) The method of claim 8, further comprising:

~~storing attribute information pertaining to each text object, said~~ associating attribute information including a color and typefont for each text object; and

employing the attribute information to render text content corresponding to text objects shown in views of the Web page.

11. (Canceled)

12. (Currently Amended) The method of claim 1, further comprising enabling the Web content to be displayed at different resolutions by scaling the ~~scalable vector-based~~ page layout information to determine ~~appropriate~~ corresponding layout locations for the Web content ~~within~~ on at least a portion of a scaled Web page for each of a plurality of scale factors. [[.]]

13. (Currently Amended) The method of claim 1, further comprising:

enabling a user of the client to select an area of the display to zoom in on ~~by defining a bounding box over the area~~ via the client; and

in response thereto,

re-rendering the display such that content ~~in the bounding box is scaled to be rendered substantially across at least one of a width and a height of the display~~ in the area that is selected is enlarged.

14. (Canceled)

15. (Currently Amended) The method of claim 1, further comprising enabling a user to pan ~~a display~~ views of the Web ~~content~~ page in response to a corresponding user input.

16. (Currently Amended) The method of claim 15, further comprising enabling the ~~display~~ views of the Web ~~content~~ page to be panned in real-time.

17. (Canceled)

18. (Currently Amended) The method of claim 1, further comprising enabling a user to ~~view~~ zoom on a column of the Web content ~~at a higher resolution than a current resolution~~ via an associated user input, wherein in response to the user input, the display is re-rendered such that content corresponding to the selected column is displayed across the display.

19. (Original) The method of claim 18, wherein the user input comprises tapping the column.

20. (Canceled)

21. (Currently Amended) The method of claim 1, ~~wherein the Web content includes at least one image, the method~~ further comprising enabling a user to ~~view~~ zoom on an image ~~at a higher resolution than a current resolution~~ via an associated user input,

wherein in response to the user input, the ~~display~~ view is re-rendered such that the image is displayed ~~substantially~~ to fit across ~~at least one of~~ a width ~~and height~~ of the display.

22. (Original) The method of claim 21, wherein the user input comprises tapping the image.

23. (Currently Amended) The method of claim 1, further comprising enabling a user to ~~view~~ zoom on a paragraph of the Web content ~~at a higher resolution than a current resolution~~ via an associated user input, wherein in response to the user input, the ~~display~~ view is re-rendered such that content corresponding to the selected paragraph is displayed ~~substantially~~ to fit across the display.

24. (Original) The method of claim 23, wherein the user input comprises tapping the paragraph.

25. (Currently Amended) The method of claim 23, wherein the content of the paragraph is reformatted ~~to fit characteristics of the display~~ when the ~~display~~ view is re-rendered.

26. (Canceled)

27. (Currently Amended) The method of claim 1, further comprising:

generating a display list ~~of vectors~~ derived, at least in part, via use of the ~~vector-based~~ page layout information; and

employing the display list to ~~re-render~~ generate ~~the display~~ views of the Web page.

28. (Currently Amended) The method of claim 1, further comprising:

parsing and processing, with the rendering engine, markup language code corresponding to the received Web content to determine page layout information corresponding to ~~the~~ an original page layout of the content on the Web page as interpreted by the rendering engine, the content including a plurality of objects comprising text objects associated with the text content and image objects associated with the plurality of images, wherein for each object the layout information includes object layout information identifying a coordinate location of the object on the page layout; and

~~logically grouping selected content into objects based on relative locations of the content in the original page layout~~;

~~defining a primary datum corresponding to the original page layout; and,~~

~~for each object,~~

~~defining an object datum corresponding to a layout location datum for the object's associated display content;~~

~~generating a vector from the primary datum to the object datum for the object; and~~

~~creating a reference that links~~ associating ~~the~~ each object [[to]] and its ~~corresponding vector~~ object layout information.

29. (Currently Amended) The method of claim 28 further comprising:

generating page layout information including ~~a vector-based~~ an object bounding box for each object~~, the object bounding box representing a portion of a rendered display page occupied by the object's associated group of content~~.

30. (Currently Amended) The method of claim [[29]] 28, further comprising:

for each of the plurality of objects,

mapping the coordinate location associated with the object layout information for the object ~~vectors and associated vector-based bounding boxes~~ to a corresponding object datum coordinate on a virtual display area ~~in memory~~.

31. (Currently Amended) The method of claim 30, further comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan position corresponding to a ~~rendered display~~ view of the Web content desired by a user;

determining a virtual display bounding box for the virtual display area associated with the first scale factor and offset;

identifying ~~object bounding boxes~~ objects having at least a portion falling within the virtual display bounding box; and[[,]]

~~for each of such object bounding boxes,~~

~~retrieving content associated with that object bounding box; and~~

~~applying an applicable scale factor to the content to render~~ rendering a view of the Web page corresponding to the zoom level and pan position on the display including the at least a portion of the objects falling within the virtual display bounding box.

32. (Currently Amended) The method of claim [[31]] 30, wherein the virtual display area ~~has a much greater resolution than the display~~ is resolution-independent.

33. (Currently Amended) The method of claim [[31]] 30, wherein the virtual display area is associated with a fixed reference frame~~, and the virtual display bounding box is maintained to have a size matching the resolution of the content display area defined for the display~~.

34. (Currently Amended) The method of claim [[31]] 1, wherein the content includes a plurality of text objects having associated text content, the method further comprising:

for at least a portion of the plurality of text objects,

scaling a scalable font to render the text content associated with the text object.

35. (Currently Amended) The method of claim [[31]] 1, wherein the content includes a plurality of text objects having associated text content, the method further comprising:

for at least a portion of the plurality of text objects,

determining an applicable font size based on an applicable scale factor associated with a zoom level; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content associated with the text object.

36. (Original) The method of claim 1, further comprising reformatting a text object so as to fit the text object on the display when it is rendered.

37. (Currently Amended) The method of claim 1, ~~wherein the original format of the Web page defines a height and width for the Web page, the method~~ further comprising:

~~determining an applicable scale factor to display~~ generating a view under which ~~at least one of~~ the width ~~and height~~ of the Web page ~~substantially~~ is fit across the display~~; and~~

~~employing the scale factor that is determined as the first scale factor~~.

38. (Currently Amended) The method of claim 1, wherein ~~the Web page includes one or more images, and~~ in ~~the~~ a rendered ~~displays~~ view at least one image ~~from among the one or more images~~ is scaled.

39. (Currently Amended) An apparatus, comprising:

a processor,

a communications ~~means~~ device operatively coupled to the processor, to enable the ~~device~~ apparatus to be linked to a network ~~via which~~ to access Web content ~~may be accessed~~;

a display; and

storage means, operatively coupled to the processor, in which a plurality of instructions, including instructions corresponding to a browser having a rendering engine and instructions corresponding to an operating system, are stored that when executed by the processor enable the apparatus to perform operations including,

in response to a request to access a Web page made via a user of the apparatus,

retrieving markup language-based Web content associated with the Web page having an original format defining an original page layout, functionality and design of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

~~translating, via the client,~~ processing the markup language-based Web content with the rendering engine to ~~produce~~ generate ~~scalable vector-based~~ page layout information corresponding to the original page layout as interpreted by the rendering engine including a width of the Web page; and

employing ~~the scalable vector-based~~ scaled page layout information and/or data derived thereform to generate views of the Web page on a display, including,

~~render~~ a view under which the width ~~at least a portion~~ of the Web page ~~on a display using a first scale factor~~ is fit across the display; and

~~re-render~~ views of the Web page generated in response to associated user inputs to enable a user to ~~iteratively zoom in and out~~ view ~~a display of~~ the Web page at multiple zoom levels while preserving the original page layout, functionality, and design of the content on the Web page defined by the markup language-based Web content,

wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

40. (Currently Amended) The apparatus of claim 39, wherein zooming ~~the display~~ views of the Web content is enabled to be performed in real-time.

41. (Original) The apparatus of claim 39, wherein the apparatus comprises a mobile device and the communication device supports wireless communication with the network.

42 (Original) The apparatus of claim 41, wherein the mobile device comprises a mobile phone.

43. (Original) The apparatus of claim 39, wherein the apparatus comprises one of a desktop computer, workstation, and laptop computer.

44. (Currently Amended) The apparatus of claim 39, wherein ~~the markup language-based Web content includes at least one hyperlink, and wherein~~ execution of the instructions performs further operations comprising:

enabling the user to select ~~the~~ a hyperlink; and, in response thereto,

retrieving and ~~translating~~ processing the markup language-based Web content associated with the hyperlink to produce additional ~~scalable vector-based~~ page layout information; and

employing the additional ~~scalable vector-based~~ page layout information and/or data derived therefrom to ~~render~~ generate ~~the display~~ a view of the Web content associated with the hyperlink.

45. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

parsing and processing markup language code with the rendering engine to determine the original page layout of display content within the Web page as interpreted by the rendering engine, wherein the original page layout defines a layout location for a

plurality of objects, including text objects associated with the text content~~, graphic layout objects, graphic objects and/or~~ and image objects ~~-~~associated with the plurality of images included in the Web page; and

~~defining a primary datum corresponding to the original~~ a ~~page layout; and,~~

for each object,

defining an object datum corresponding to the layout location for the object on the original page layout; and

~~generating a vector from the primary datum to the object datum for the object; and~~

~~creating a reference that links~~ associating the object [[to]] and its ~~corresponding vector~~ object datum.

46. (Currently Amended) The apparatus of claim 45, wherein execution of the instructions performs further operations comprising translating at least one ~~graphic or~~ image object from an original format into a scalable format.

47. (Original) The apparatus of claim 45, wherein execution of the instructions performs further operations comprising:

~~storing attribute information pertaining to each text object, said~~ associating attribute information including a color and typefont for each text object; and

employing the attribute information to render text content corresponding to text objects shown in views of the Web page.

48. (Canceled)

49. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling the Web content to be displayed at different resolutions by scaling the ~~scalable vector-based~~ page layout information to determine ~~appropriate~~ corresponding layout locations for the Web content

~~within~~ on at least a portion of a scaled Web page for each of a plurality of scale factors. [[.]]

50. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

enabling a user of the ~~client~~ apparatus to select an area of ~~the display~~ a view to zoom in on ~~by defining a bounding box over the area~~ via the ~~client~~ apparatus; and

in response thereto,

~~re-rendering~~ regenerating the ~~display~~ view such that content ~~in the bounding box is scaled to be rendered substantially across at least one of a width and a height of the display~~ in the area that is selected is enlarged.

51. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising scaling the ~~scalable vector-based~~ page layout information and/or data derived therefrom ~~using applicable scale factors~~ to ~~re-render~~ regenerate views of the Web content in response to associated user inputs to enable the user to iteratively zoom in and out a display of the Web page.

52. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to pan a ~~display~~ view of the Web content in response to a corresponding user input.

53. (Currently Amended) The apparatus of claim 52, wherein execution of the instructions performs further operations comprising enabling the ~~display~~ view of the Web content to be panned in real-time.

54. (Canceled)

55. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to ~~view~~ zoom on a

column of the Web content ~~at a higher resolution than a current resolution~~ via an associated user input, wherein in response to the user input, the ~~display~~ view is re-rendered such that content corresponding to the selected column is displayed across the display.

56. (Original) The apparatus of claim 55, wherein the user input comprises tapping the column.

57. (Canceled)

58. (Currently Amended) The apparatus of claim 39, ~~wherein the Web content includes at least one image, and~~ wherein execution of the instructions performs further operations comprising enabling a user to ~~view~~ zoom on an image ~~at a higher resolution than a current resolution~~ via an associated user input, wherein in response to the user input, the display is re-rendered such that the image is displayed ~~substantially~~ to fit across ~~at least one of~~ a width ~~and height~~ of the display.

59. (Original) The apparatus of claim 58, wherein the user input comprises tapping the image.

60. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to ~~view~~ zoom on a paragraph of the Web content ~~at a higher resolution than a current resolution~~ via an associated user input, wherein in response to the user input, the ~~display~~ view is re-rendered such that content corresponding to the selected paragraph is displayed across the display.

61. (Original) The apparatus of claim 60, wherein the user input comprises tapping the paragraph.

62. (Currently Amended) The apparatus of claim 60, wherein the content of the paragraph is reformatted ~~to fit characteristics of the display~~ when the ~~display~~ view is re-rendered.

63. (Canceled)

64. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

generating a display list derived, at least in part, via use of the ~~vector-based~~ page layout information; and

employing the display list to ~~re-render~~ generate ~~the display~~ views of the Web page.

65. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

parsing and processing, with the rendering engine, markup language code corresponding to the received Web content to determine page layout information corresponding to ~~the~~ an original page layout of the content on the Web page as interpreted by the rendering engine, the content including a plurality of objects comprising text objects associated with the text content and image objects associated with the plurality of images, wherein for each object the layout information includes object layout information identifying a coordinate location of the object on the page layout; and

~~logically grouping selected content into objects based on relative locations of the content in the original page layout~~;

~~defining a primary datum corresponding to the original page layout; and,~~

~~for each object,~~

~~defining an object datum corresponding to a layout location datum for the object's associated display content;~~

~~generating a vector from the primary datum to the object datum for the object; and~~

~~creating a reference that links~~ associating ~~the~~ each object [[to]] and its ~~corresponding vector~~ object layout information.

66. (Currently Amended) The apparatus of claim 65 wherein execution of the instructions performs further operations comprising:

generating page layout information including ~~a vector-based~~ an object bounding box for each object, the object bounding box representing a portion of ~~a rendered display~~ the page layout occupied by the object's associated ~~group of~~ content.

67. (Currently Amended) The apparatus of claim 65, wherein execution of the instructions performs further operations comprising:

for each of the plurality of objects,

mapping the coordinate location associated with the object layout information for the object ~~vectors and associated vector-based bounding boxes~~ to a corresponding object datum coordinate on a virtual display area ~~in memory~~.

68. (Currently Amended) The apparatus of claim 67, wherein execution of the instructions performs further operations comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan position corresponding to a ~~rendered display~~ view of the Web content desired by a user;

determining a virtual display bounding box for the virtual display area associated with the first scale factor and offset;

identifying ~~object bounding boxes~~ objects having at least a portion falling within the virtual display bounding box; and[[,]]

~~for each of such object bounding boxes,~~

~~retrieving content associated with that object bounding box; and~~

~~applying an applicable scale factor to the content to render~~ rendering a view of the Web page corresponding to the zoom level and pan position on the display including the at least a portion of the objects falling within the virtual display bounding box.

69. (Currently Amended) The apparatus of claim [[68]] 67, wherein the virtual display area ~~has a much greater resolution than the display~~ is resolution-independent.

70. (Currently Amended) The apparatus of claim [[68]] 67, wherein the virtual display area is associated with a fixed reference frame~~, and the virtual display bounding box is maintained to have a size matching the resolution of the content display area defined for the display~~.

71. (Currently Amended) The apparatus of claim [[68]] 39, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

scaling a scalable font to render the text content associated with the text object.

72. (Currently Amended) The apparatus of claim [[68]] 39, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

determining an applicable font size based on an applicable scale factor associated with a zoom level; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content associated with the text object.

73. (Original) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising reformatting a text object so as to fit the text object on the display when it is rendered.

74. (Canceled)

75. (Currently Amended) The apparatus of claim 39, wherein the Web page includes text content and graphic layout objects, and ~~in the rendered displays~~ views are generated through use of ~~the~~ scaled text content and graphic layout objects ~~are scaled~~.

76. (Currently Amended) The apparatus of claim 39, wherein ~~the Web page includes one or more images, and~~ in ~~the~~ a ~~rendered displays~~ generated view at least one image from ~~among the one or more images~~ is scaled.

77. (Original) The apparatus of claim 39, wherein the display comprises a touch-sensitive display via which user inputs may be received.

78. (Currently Amended) The apparatus of claim 39, wherein the storage means comprises a ~~non-volatile~~ flash memory.

79. (Currently Amended) A tangible non-transitory machine-readable medium having stored thereon a plurality of instructions comprising a browser including a rendering engine configured to be executed by a machine having a display and an operating system ~~communications device~~ and configured to access Web content via a network ~~and having a display~~, wherein execution of the instructions in conjunction with execution of the operating system enables the machine to ~~performs~~ perform operations comprising:

in response to a request to access a Web page made via a user of the machine,

retrieving markup language-based Web content associated with the Web page having an original format defining an original page layout, functionality and design of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

~~translating, via the client,~~ processing the markup language-based Web content with the rendering engine to ~~produce~~ generate ~~scalable vector-based~~ page layout information corresponding to the original page layout as interpreted by the rendering engine including a width of the Web page; and

employing ~~the scalable vector-based~~ scaled page layout information and/or data derived thereform to generate views of the Web page on the display, including,

~~render~~ a view under which the width ~~at least a portion~~ of the Web page ~~on a display using a first scale factor~~ is fully displayed; and

~~re-render~~ views of the Web page generated in response to associated user inputs to enable a user to ~~iteratively zoom in and out~~ view ~~a display of~~ the Web page at multiple zoom levels while preserving the original page layout, functionality, and design of the content on the Web page defined by the markup language-based Web content,

wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

80. (Currently Amended) The machine-readable medium of claim 79, wherein zooming the ~~display~~ views of the Web content is enabled to be performed in real-time.

81. (Currently Amended) The machine-readable medium of claim 79, wherein the machine comprises a mobile hand-held device ~~and the communication device~~ that supports wireless communication with the network.

82. (Original) The machine-readable medium of claim 79, wherein the machine comprises one of a desktop computer, workstation, and laptop computer.

83. (Original) The machine-readable medium of claim 79, wherein ~~the markup language-based Web content includes at least one hyperlink, and wherein~~ execution of the instructions performs further operations comprising:

enabling ~~the~~ a user to select ~~the~~ a hyperlink; and, in response thereto,

retrieving and ~~translating~~ processing the markup language-based Web content associated with the hyperlink to produce additional ~~scalable vector-based~~ page layout information; and

employing the additional ~~scalable vector-based~~ page layout information and/or data derived therefrom to ~~render the display~~ generate a view of the Web content associated with the hyperlink.

84. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

parsing and processing markup language code with the rendering engine to determine the original page layout of display content within the Web page as interpreted by the rendering engine, wherein the original page layout defines a layout location for a plurality of objects, including text objects associated with the text content~~, graphic layout objects, graphic objects and/or~~ and image objects associated with the plurality of images included in the Web page; and

~~defining a primary datum corresponding to the original~~ a page layout; ~~and,~~

for each object,

defining an object datum corresponding to the layout location for the object on the original page layout; and

~~generating a vector from the primary datum to the object datum for the object; and~~

~~creating a reference that links~~ associating the object [[to]] and its ~~corresponding vector~~ object datum.

85. (Currently Amended) The machine-readable medium of claim 84, wherein execution of the instructions performs further operations comprising translating at least one ~~graphic or~~ image object from an original format into a scalable format.

86. (Original) The machine-readable medium of claim 84, wherein execution of the instructions performs further operations comprising:

~~storing attribute information pertaining to each text object, said~~ associating attribute information including a color and typefont for each text object; and

employing the attribute information to render text content corresponding to text objects shown in views of the Web page.

87. (Canceled)

88. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling the Web content to be displayed at different resolutions by scaling the ~~scalable vector-based~~ page layout information to determine ~~appropriate~~ corresponding layout locations for the Web content ~~within~~ on at least a portion of a scaled Web page for each of a plurality of scale factors.

89. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

enabling a user of the client to select an ~~area~~ object of the display to zoom in on ~~by defining a bounding box over the area~~ via the client; and

in response thereto,

re-rendering the display such that content ~~in the bounding box~~ associated with the object is ~~scaled to be~~ rendered ~~substantially~~ to fit across ~~at least one of~~ a width ~~and a height~~ of the display.

90. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising scaling the ~~scalable vector-based~~ page layout information and/or data derived therefrom ~~using applicable scale factors~~ to ~~re-render~~ regenerate views of the Web content in response to associated user inputs to enable the user to iteratively zoom in and out a display of the Web page.

91. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to pan a ~~display~~ view of the Web ~~content~~ page in response to a corresponding user input.

92. (Currently Amended) The machine-readable medium of claim 91, wherein execution of the instructions performs further operations comprising enabling the ~~display~~ view of the Web ~~content~~ page to be panned in real-time.

93. (Canceled)

94. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to ~~view~~ zoom on a column of the Web content ~~at a higher resolution than a current resolution~~ via an associated user input, wherein in response to the user input, the ~~display~~ view is re-rendered such that content corresponding to the selected column is displayed across the display.

95. (Original) The machine-readable medium of claim 94, wherein the user input comprises tapping the column.

96. (Canceled)

97. (Currently Amended) The machine-readable medium of claim 79, ~~wherein the Web content includes at least one image, and~~ wherein execution of the instructions performs further operations comprising enabling a user to ~~view~~ zoom on an image ~~at a higher resolution than a current resolution via an associated user input~~, wherein in response to the user input, the ~~display~~ view is re-rendered such that the image is displayed ~~substantially~~ to fit across at least one of a width and height of the display.

98. (Original) The machine-readable medium of claim 97, wherein the user input comprises tapping the image.

99. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to ~~view~~ zoom on a paragraph of the Web content ~~at a higher resolution than a current resolution~~ via an associated user input, wherein in response to the user input, the ~~display~~ view is re-rendered such that content corresponding to the selected paragraph is displayed across the display.

100. (Original) The machine-readable medium of claim 99, wherein the user input comprises tapping the paragraph.

101. (Currently Amended) The machine-readable medium of claim 99, wherein the content of the paragraph is reformatted ~~to fit characteristics of the display~~ when the ~~display~~ view is re-rendered.

102. (Canceled)

103. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

generating a display list ~~derived, at least in part, via use of the vector-based page layout information~~; and

employing the display list to ~~re-render the display~~ generate views of the Web page.

104. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

parsing and processing, with the rendering engine, markup language code corresponding to the received Web content to determine page layout information corresponding to ~~the~~ an original page layout of the content on the Web page as interpreted by the rendering engine, the content including a plurality of objects comprising text objects associated with the text content and image objects associated with the plurality of images, wherein for each object the layout information includes object layout information identifying a coordinate location of the object on the page layout; and

~~logically grouping selected content into objects based on relative locations of the content in the original page layout~~;

~~defining a primary datum corresponding to the original page layout; and,~~

~~for each object,~~

~~defining an object datum corresponding to a layout location datum for the object's associated display content;~~

~~generating a vector from the primary datum to the object datum for the object; and~~

~~creating a reference that links~~ associating ~~the~~ each object [[to]] and its ~~corresponding vector~~ object layout information.

105. (Currently Amended) The machine-readable medium of claim 104 wherein execution of the instructions performs further operations comprising:

generating page layout information including ~~a vector-based~~ an object bounding box for each object, the object bounding box representing a portion of ~~a rendered display~~ the page layout occupied by the object's associated ~~group of~~ content.

106. (Currently Amended) The machine-readable medium of claim 104, wherein execution of the instructions performs further operations comprising:

for each of the plurality of objects,

mapping the coordinate location associated with the object layout information for the object ~~vectors and associated vector-based bounding boxes~~ to a corresponding object datum coordinate on a virtual display area ~~in memory~~.

107. (Currently Amended) The machine-readable medium of claim 106, wherein execution of the instructions performs further operations comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan position corresponding to a ~~rendered display~~ view of the Web content desired by a user;

determining a virtual display bounding box for the virtual display area associated with the first scale factor and offset;

identifying ~~object bounding boxes~~ objects having at least a portion falling within the virtual display bounding box; and[[,]]

~~for each of such object bounding boxes,~~

~~retrieving content associated with that object bounding box; and~~

applying an applicable scale factor to the object's content to render a view corresponding to the zoom level and pan position on the display.

108. (Currently Amended) The machine-readable medium of claim ~~107~~ 106, wherein the virtual display area ~~has a much greater~~ is resolution-independent.

109. (Currently Amended) The machine-readable medium of claim ~~107~~ 106, wherein the virtual display area is associated with a fixed reference frame~~, and the virtual display bounding box is maintained to have a size matching the resolution of content display area defined for the display~~.

110. (Currently Amended) The machine-readable medium of claim [[107]] 79, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

scaling a scalable font to render the text content associated with the text object.

111. (Currently Amended) The machine-readable medium of claim [[107]] 79, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

determining an applicable font size based on an applicable scale factor associated with a zoom level; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content associated with the text object.

112. (Original) The machine-readable medium of claim 79, wherein at least a portion of the instructions comprise Java-based instructions configured to be executed on a Java virtual machine.

113. (Canceled)

114. (Canceled)

115. (Canceled)

116. (Currently Amended) The machine-readable medium of claim 79, ~~wherein the original format of the Web page defines a height and width for the Web page, and~~ wherein execution of the instructions performs further operations comprising:

~~determining an applicable scale factor to display~~ generating a view under which ~~at least one of~~ the width ~~and height~~ of the Web page ~~substantially~~ is fit across the display~~; and~~

~~employing the scale factor that is determined as the first scale factor~~.

117. (Currently Amended) The machine-readable medium of claim 79, wherein the Web page includes text content and graphic layout objects, and in ~~the rendered~~ generated ~~displays~~ views the text content and graphic layout objects are scaled.

118. (Currently Amended) The machine-readable medium of claim 79, wherein ~~the Web page includes one or more images, and~~ in ~~the rendered displays~~ at least one view at least one image ~~from among the one or more images~~ is scaled.

-- 119. (New) The method of claim 1, further comprising maintaining at least one instance of the page layout information in a manner that is independent of the zoom levels used to view the web page.

120. (New) The method of claim 1, further comprising:

employing the page layout information to produce scalable vector-based page layout information; and

scaling the scalable vector-based page layout information to effect scaling of the page layout information.

121. (New) The method of claim 120, wherein scaling operations are effected by applying a mathematical transformation to a plurality of points in a two-dimensional

coordinate system comprising X and Y axes, including points comprising datum points having corresponding vectors included in the scalable vector-based page layout information defining page layout locations of corresponding text and image objects mapped to the two-dimensional coordinate system, wherein the mathematical transformation comprises,

$$X' = X * SF;$$

$$Y' = Y * SF;$$

wherein X, Y is the location of a point prior to transformation, X', Y' is the location of the point after transformation, and SF is the scale factor.

122. (New) The method of claim 121, wherein the mathematical transformation is applied to points in a first coordinate system comprising a resolution independent coordinate system associated with a virtual display area onto which page layout information is mapped to a second coordinate system comprising a device coordinate system corresponding to a pixel resolution of the display of the client, wherein points are mapped from the first coordinate system to the second coordinate system using the mathematical transformation.

123. (New) The method of claim 8, further comprising effecting a zoom operation by,

for each of a plurality of objects to be included in a zoomed view of the Web page to be rendered on the display,

scaling page layout information associated with the object using a scale factor corresponding to a zoom level associated with the zoom operation to determine a scaled datum; and

scaling content associated with the object using the scale factor and rendering the scaled content at a location corresponding to the scaled datum.

124. (New) The method of claim 123, further comprising effecting a zoom operation combined with a pan operation by,

determining an offset corresponding to the pan operation; and

employing the offset to at least a portion of the content that has been scaled and rendered to produce a view of the web page on the display.

125. (New) The method of claim 123, wherein rendering scaled content associated with a text object comprises:

employing presentation attributes for the text object, the presentation attributes including a font typeface, size and color;

employing a scalable font associated with the font typeface to render text associated with the text object in a color associated with the color attribute, wherein the text is rendered by the operating system relative to a location associated with the scaled datum for the text object, and wherein the scale applied to the scalable font is a function of at least one of the scale factor and the font size.

126. (New) The method of claim 1, wherein the markup language-based Web content includes cascading style sheet content defining layout and presentation attributes for the Web page.

127. (New) The method of claim 1, wherein the markup language-based Web content comprises HTML-based Web content that is processed by the rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine.

128. (New) The apparatus of claim 39, wherein the markup language-based Web content comprises HTML-based Web content that is processed by the rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine.

129. (New) The apparatus of claim 41, wherein the network comprises a mobile service provider network and the mobile device comprises a mobile phone.

130. (New) The method of claim 1, wherein the Web page content includes a plurality of images, the method further comprising:

generating page layout information including a bounding box for each of the plurality of images;

scaling the bounding box associated with an image to produce a scaled bounding box; and

rendering bitmap content associated with the image to fit within the scaled bounding box.

131. (New) The method of claim 1, wherein text content in a view is rendered to have a resolution that is approximately proportional to the zoom level of the view, such that as the zoom level increases the resolution of text content increases approximately proportionally.

132. (New) The apparatus of claim 39, wherein text content in a view is rendered to have a resolution that is approximately proportional to the zoom level of the view, such that as the zoom level increases the resolution of text content increases approximately proportionally.

133. (New) The machine-readable medium of claim 79, wherein text content in a view is rendered to have a resolution that is approximately proportional to the zoom level of the view, such that as the zoom level increases the resolution of text content increases approximately proportionally.

134. (New) The method of claim 1, wherein the layout of content for views associated with a zoom level is effected by scaling page layout information using a scale factor associated with the zoom level.

135. (New) The apparatus of claim 39, wherein the layout of content for views associated with a zoom level is effected by scaling page layout information using a scale factor associated with the zoom level.

136. (New) A method comprising:

in response to a request to access a Web page made via a mobile hand-held device,

retrieving HTML-based Web content associated with the Web page having an original format defining an original page layout, functionality, and design of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

processing the HTML-based Web content with a rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine;

employing scaled page layout information and/or data derived thereform to generate scaled Web page content at multiple scale factors; and

employing the scaled Web page content to enable a user to browse the Web page at multiple zoom levels on the mobile hand-held device while preserving the original page layout, functionality, and design of the content on the Web page defined by the HTML-based Web content as interpreted by the rendering engine,

wherein preservation of the functionality includes preservation of hyperlink functionality.

137. (New) The method of claim 136, wherein the page layout information that is generated includes a bounding box for each of the plurality of images, and wherein a scaled Web page content including one or more images is generated by scaling bounding boxes corresponding to the one or more images to produce scaled bounding boxes and, for each of the one or more images, scaling content associated with the image to produce a scaled image that fits within its corresponding scaled bounding box.

138. (New) The method of claim 136, further comprising:

processing the HTML-based Web content with the rendering engine to parse the text content into a plurality of text objects;

generating page layout information including a bounding box for each of the plurality of text objects; and

employing page layout information associated with the bounding boxes to effect preservation of the original page layout of the text content.

139. (New) The method of claim 138, further comprising:

scaling bounding boxes for text objects corresponding to text content in a view; and

employing the scaled bounding boxes to lay out corresponding text content within the scaled bounding boxes.

140. (New) The method of claim 139, further comprising:

employing a scalable font to scale text content for a text object to fit within a scaled bounding box.

141. (New) The method of claim 139, further comprising:

in conjunction with rendering a view of the Web page content,

employing the bounding boxes and/or data derived therefrom to determine image and text objects to be rendered.

142. (New) The method of claim 136, further comprising:

in response to a user input to pan a current view of the Web page to a new view displaying a portion of the Web page that is entirely not shown in the current view,

generating scaled Web page content in real-time.

143. (New) The method of claim 142, wherein the scaled Web page content is generated in a fraction of a second. --

REMARKS

This amendment and remarks are made in response to the non-final Office Action dated April 1, 2010. In the Office Action 12, 21, 23-25, 32, 49, 50, 55-58, 60-62, 70, 88, 89, 94, 97, 99, 108, and 109 were rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. Claims 79-118 were rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter.

In the amendment herein, claims 1, 2, 5-10, 12, 13, 15, 16, 18, 21, 23, 25, 27-35, 37-40, 44-47, 49-53, 55, 58, 60, 62, 64-72, 75, 76, 78-81, 83-86, 88-92, 94, 97, 99, 101, 103-111 and 116-118 are amended to more clearly recite the claimed invention of each claim. Claims 11, 14, 17, 20, 26, 48, 54, 57, 63, 74, 83, 87, 93, 96, 102, and 113-115 are canceled. New claims 119-143 have been added. Accordingly, claims 1-10, 12, 13, 15, 16, 18, 19, 21-25, 27-47, 49-53, 55, 56, 58-62, 64-73, 75-82, 84-86, 88-92, 94, 95, 97-101, 103-112, and 116-143 are now pending.

Information Disclosure Statement

Applicant acknowledges that many of the references cited in the information statements filed on 4/18/2009 and 08/05/2007 did not contain references to page numbers. To address this, reference to page numbers for these references were added in the IDS filed 11/28/2009. However, there were four items contained in the 11/28/2009 IDS that did not include page numbers. These were copies of the Official USPTO Actions for applications related to the present application (09/878,097, 11/045,649, 11/045,757 and 11/738,932) and were submitted in the IDS of 11/28/1009. A supplemental IDS is submitted herewith identifying the entirety of the references are deemed relevant (further noting that there are no explicit page numbers for a printed or scanned version of the Official USPTO Actions for each application, since they each include copies of multiple Official Actions issued over the course of prosecution for each application). Applicant further notes that copies of the Official USPTO Actions for

09/878,097, 11/045,649, 11/045,757 and 11/738,932 were submitted electronically on 11/28/2009 and are not being resubmitted electronically herewith.

Correction of Application Serial Number in Specification

Applicant thanks the Examiner for identifying the inadvertent error in identification of U.S. Non-provisional Application No. 09/82**5**,511 in paragraph [0001] of the specification. The application number has been corrected to 09/82**8**,511.

Claim Rejections – 35 U.S.C. §112, Second Paragraph

Claims 12, 21, 23-25, 32, 49, 50, 55-58, 60-62, 70, 88, 89, 94, 97, 99, 108, and 109 were rejected under 35 U.S.C. §112, second paragraph, as being indefinite for recitation of the limitations "substantially," "appropriate location," "much greater resolution"; "higher resolution"; and "have a size". Although the Applicant does not agree that these terms render their corresponding claims indefinite, Applicant has removed the forgoing terms via amendments to each of claims 12, 21, 23-25, 32, 49, 50, 55-58, 60-62, 70, 88, 89, 94, 97, 99, 108, and 109.

Claim Rejections – 35 U.S.C. §101

Claims 79-118 were rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter. In particular, the terminology "machine-readable medium" was alleged to include covering a carrier wave. In view of the memorandum issued by Director Kappos on January 26, 2010 entitled "Subject Matter Eligibility of Computer Readable Media," Applicant has further amended independent claim 79 (and by way of dependency, each of non-canceled dependent claims 80-118), to recite "a tangible non-transitory machine-readable medium …". As stated in the Kappos memorandum, "A claim drawn to such a computer readable medium that covers both transitory and non-transitory embodiments may be amended to narrow the claim to cover only statutory embodiments to avoid a rejection under 35 U.S.C. § 101 by adding the limitation "non-transitory" to the claim." Applicant has further removed language in paragraph [0034] with reference to "wherein the program may be transferred from a remote computer

(*e.g.*, a server) to a requesting computer (*e.g.*, a client) *by way of data signals embodied in a carrier wave or other propagation medium via a communication link (e.g., a modem or network connection). Accordingly, herein, a carrier wave shall be regarded as comprising a machine-readable medium.*" No new matter has been added. Applicant notes that while the form of a computer program product during a download (e.g., carrier wave) is transitory, and thus non-statutory and now explicitly not covered by claim 79, the form of the computer program when stored on a tangible non-transitory computer readable medium once the download is completed is statutory. Thus, the remaining portion of the amended language in paragraph [0034] of, "Moreover, the present invention may also be downloaded as a computer program product" is a correct and accurate statement that does not cover a form of a transitory computer readable medium.

Scope of the terminology "in real-time"

The term "real-time" is included as a limitation in each of claims 2, 16, 40, 53, 80 and 92. In general, "in real-time" pertains to zooming and/or panning operations (as applicable) in each of these claims. The scope of the terminology "in real-time" is intended to pertain to the concept of real-time as perceived by humans when interacting with software, as opposed to the use of real-time to describe machine operations (*e.g.,* a real-time operating system), as discussed below.

One of skill in the art would recognize the meaning of the terminology "real time" varies depending on the particular use context. For example, for an embedded real-time operating system or implementation, real-time might mean a timeframe in the millisecond or even microsecond range. In this context, the time context is machine time and real-time means instantaneous. In another use context, such as replying to e-mail, real-time is significantly longer. For example, many people refer to responding to e-mail in "real time" – this means the people respond to new e-mails as they come in, as compared with waiting until the end of the day or

some other time to respond to e-mails in more of a batch manner. In a real time flight tracking context, the data that is provided may actually reflect a tracking position that is several seconds, or even minutes, old.

One of skill in the art would recognize that in a software user-interface context, which is applicable to the present claims, the use of real-time typically means the user is enabled to continue an operation in a non-disrupted manner, meaning the user doesn't have to wait a period of time of significance for the operation to be performed. In this context, real-time is perceived by the user's sense of time.

As defined by SearchSMB.com Definitions[1]

real time

DEFINITION- Also see real-time clock and real-time operating system.

Real time is a level of computer responsiveness that a user senses as sufficiently immediate or that enables the computer to keep up with some external process (for example, to present visualizations of the weather as it constantly changes). *Real-time* is an adjective pertaining to computers or processes that operate in real time. Real time describes a human rather than a machine sense of time.

In the days when mainframe batch computers were predominant, an expression for a mainframe that interacted immediately with users working from connected terminals was *online in real time*.

The inclusion of "substantially' in the use of a "substantially in real-time" context (as recited in the claims prior to the instant amendments) was to differentiate the claim from meaning it occurs instantaneously, which would be an erroneous interpretation under the proper use context. Rather, the operation is performed in a non-disrupted manner, as experienced by the user. For the purpose of a defined time period, "in real time" as used herein means the operation is performed in a few seconds or less.

Terminology "in a fraction of a second"

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[1] http://searchsmb.techtarget.com/sDefinition/0,,sid44_gci214344,00.html

New dependent claim 143 recites, in part, "wherein the scaled Web page content is generated in a fraction of a second." Support for this limitation is provided in paragraph [0037], which recites, in part (emphasis added, text in brackets added),

> The graphics rendering engine within the client is so efficient that file manipulation happens in ***a fraction of a second***. There is no perceptible wait for the user as the file is resized [i.e., for zooming], or the window is repositioned [i.e., for panning].

In the foregoing recitation, the "file" refers to the SVF (simple vector format) content, which comprises SVF drawing commands that are processed by the graphics rendering engine to support rapid zooming and panning of content. It will be understood that while the terminology "in real-time" may encompass "a fraction of a second," the scope of real-time shall not be limited to a fraction of a second, but rather have the scope discussed above. It is further noted that the graphics rendering engine discussed in paragraph [0037] is different than the rendering engine employed for interpreting the markup language- and HTML-based content.

Preservation of Original Page Layout, (Hyperlink) Functionality, and Design

Each of independent claims 1 and 39 was in allowable condition prior to amendments herein. Independent claim 79 was also in an allowable condition absent the §101 rejection, which has been addressed herein as discussed above. Applicant has chosen to amend independent claims 1, 39, and 79 to provide further patentability. The amendments include language associated with preserving an original page layout, functionality (including hyperlink functionality), and design of Web page content defined by corresponding markup language-based content. The following discussion is provided to better clarify the scope of these added elements. It is to be understood that the scope of each claim is defined by that claim's elements, and any exemplary uses discussed below are to be non-limiting.

A discussion of operations pertaining to an exemplary use case of a method and apparatus (embodied as a mobile device) enabled by the presented application was first

presented in the December 9, 2007 response of Application Serial No. 11/045,757, which is a divisional of the parent (Application Serial No. 09/878,097) of the present application; for clarity, much of this description is repeated below, while some details are omitted for brevity. The operations are discussed in the context of the following FIG. 1.

The schematic drawing shows an exemplary infrastructure comprising well-known components for facilitating access to and delivery of Web pages. Web page content (*i.e.,* Web content) is served by servers that are accessed via the Internet, also commonly referred to as the World Wide Web (WWW). Accordingly, these servers are typically referred to as "Web" servers. More accurately, they are HTTP (Hypertext Transport Protocol) servers, as they serve content of various types using the HTTP protocol. FIG. 1 shows a pair of exemplary Web servers, including a New York Times (NYT) Web server and an Advertisement (ADV) Web server. It will be appreciated that literally millions of similar Web servers are connected to the Internet across the world, thus forming the World Wide Web.

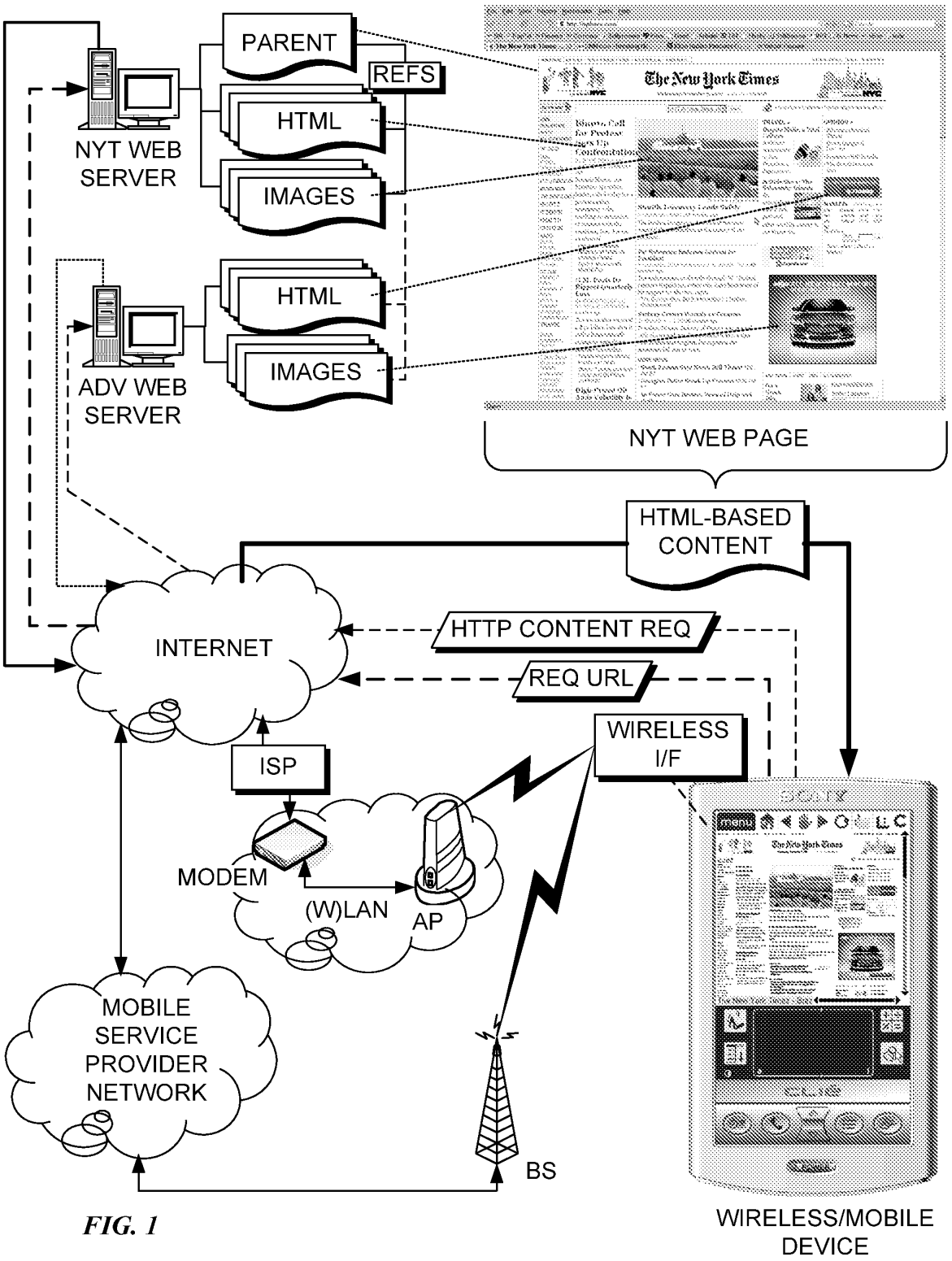

PARENT
REFS
HTML
IMAGES
NYT WEB SERVER
HTML
IMAGES
ADV WEB SERVER
The New York Times
NYT WEB PAGE
HTML-BASED CONTENT
INTERNET
HTTP CONTENT REQ
REQ URL
WIRELESS I/F
ISP
MODEM
(W)LAN
AP
MOBILE SERVICE PROVIDER NETWORK
BS
WIRELESS/MOBILE DEVICE

FIG. 1

To access WWW web servers, users use client devices that are communicatively coupled to the Internet through applicable network infrastructure. In the desktop environment, desktop clients, such as personal computers and workstations, are typically coupled to a Local Area Network (LAN) via an Ethernet link to a LAN host device. (It is noted that some desktop clients may wirelessly connect to a Wireless LAN (WLAN), in a manner similar to that discussed below for wireless clients.) The LAN, in turn is usually connected to the Internet via network infrastructure provided by an Internet Service Provider (ISP). Connection between the LAN and the ISP is typically provided by some type of Modem (*e.g.,* Cable or xDSL Modem) or dedicated hardware (for larger customers, such as businesses). (It is also noted that many individual users still connect to their ISP through a telephone modem.)

Wireless and mobile devices, including those devices covered by the claims herein, typically connect to the Internet in one of the manners illustrated in FIG. 1, or otherwise described in the December 9, 2007 response for Application Serial No. 11/045,757. (Further details are omitted here for brevity.) By way of example but not limitation, wireless access to the Internet may typically be provided via a mobile service provider, or via other types of wireless connections, such as via WiFi or WIMAX connection, for example.

Now that the infrastructure of FIG. 1 has been described, we proceed with discussion of retrieving and processing the Web page content such that the Web page can be accessed via a wireless/mobile device. In the illustrated example, the process is initiated by a user desiring to access the New York Times (*i.e.,* and electronic version of the New York Times published to the Internet on a given day). This is facilitated by a browser in accordance with teaching of the present application running on the wireless/mobile device. The New York Times may be accessed via the Internet by downloading corresponding Web pages from the NYT Web server. More specifically,

the New York Times home page may be accessed by entering the URL (Universal Resource Locator) www.nytimes.com via the browser's user interface.

As discussed above and in further detail in the present specification, Web pages comprise HTML-based[2] content which may be stored in one or more documents commonly referred to as HTML documents. In addition, Web pages may include dynamically-generated content. Each Web page has a corresponding main or "parent" HMTL document that includes HTML code defining the Web page content layout, at least at some level. The parent HTML document may reference other HTML documents, as well as other content (such as image content) that further define the layout of content contained in the referenced documents. This may proceed in a hierarchical or nested fashion.

To access the Web page, the browser initiates an HTTP connection with the Web server hosting the Web page, and begins downloading the parent HTML document. Depending on how the Web server and/or Web page is configured, additional content (*i.e.,* beyond that included in the parent HTML document) referenced by the parent HTML document, may be retrieved by the Web page host server and then downloaded to the requesting client device, or a portion of this content may be downloaded by the client device via a separate connection. Generally, content that is hosted by a Web server or Web site is assembled by the Web server and downloaded to the client device. On the other hand, externally-referenced content (that is, content that is not stored on the Web server or Web site), is often left to the client device (*i.e.,* the browser) to retrieve.

An example New York Times home page (dated November 7, 2007, 2:22PM ET), as rendered by the Mozilla Firefox browser running on a desktop or laptop computer, is shown at the upper right-hand portion of FIG. 1. The same Web page is shown

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[2] The terminology "markup language-based Web content" in the claims herein may include HTML content.

rendered on a Sony Clié using a SoftView™ browser at the lower right-hand portion of FIG. 1.[3] Notably, the same HTML-based content defining the page layout, functionality, and design of the Web page content is downloaded by each of the Mozilla Firefox and SoftView™ implementation. Moreover, the same HTML-based content would be retrieved by other desktop browsers, such as Microsoft Internet Explorer, Apple Safari, and Opera browsers, to render the New York Times home page.

As discussed above, the Parent HTML document typically includes HTML code to define the overall layout of the Web page and its content. For example, the HTML code will define whether the Web page includes frames, and, if so, where those frames are located on the rendered page. The Parent HTML document may also contain Cascaded Style Sheet (CSS) data defining various design aspects of the page, or contain one or more references to other documents containing such CSS data. Various content displayed on the Web page may be stored in the Parent HTML document and/or one or more other HTML documents referenced by the Parent HTML document. If the content is to be rendered in a frame referenced by the Parent HTML document but whose content is not defined within the Parent HTML document, the actual reference to the HTML document storing the content may be in the document defined by the frame reference. For example, for illustration purposes, the content in the column with the heading "U.S. Rejected Aid for Israeli Raid on Iranian Nuclear Site" is depicted to be stored in an HTML document that is hosted by the NYT Web server, but is separate from the Parent HTML document.

Likewise, image content may be stored separate from the Parent HTML document. This is typically done since images, which often contain a large amount of

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[3] It is noted that the use of the Sony Clie and corresponding SoftView browser screenshots are for illustrative purposes to demonstrate how web page views on a mobile device in accordance with the claims herein might appear. The screenshots were produced using a SoftView proxy server and browser client running on a Palm OS Emulator 3.0a8S1.0, 2000-2001 using a Sony Clie PEG-700 Skin.

data due to the nature of image data, may require significant download time, especially over a slow connection. By putting image content in (a) separate document(s), the basic page layout and text content can be rendered much faster. Typically, HTML code defining the page layout location of an image on the page may be used to place an image "placeholder" or other indicia on the screen prior to rendering of the image.

As discussed above, various portions of the Web page content may be stored on Web servers that are external to the Web page host server. This is often the case with advertisement content. Rather than have the advertisement content stored locally on each Web server, the advertiser will use an advertisement host site to store and serve the advertisement content. For example, in Fig. 1, image data for rendering the "DON'T MISS HISTORY IN THE MAKING" advertisement is depicted as being stored in an image document on the Advertisement Web server.

Under a typical conventional approach, externally referenced advertisement content is downloaded by the browser directly from the advertisement content host site, rather than from the Web page host site. The network location of the advertisement content host server is identified by parsing the retrieved HTML-based content, and an HTTP GET request is used to download the associated advertisement content from its host server.

Some Web pages may include "embedded" content hosted by an external site. Oftentimes, such embedded content may be dynamic in nature (that is, may change over time or differ depending on identification of the target user). Generally, embedded content may be retrieved by the browser from an external host site (*e.g.,* advertisement Web server depicted in Fig. 1), or such content may be first retrieved by the Web page host site and served to the browser.

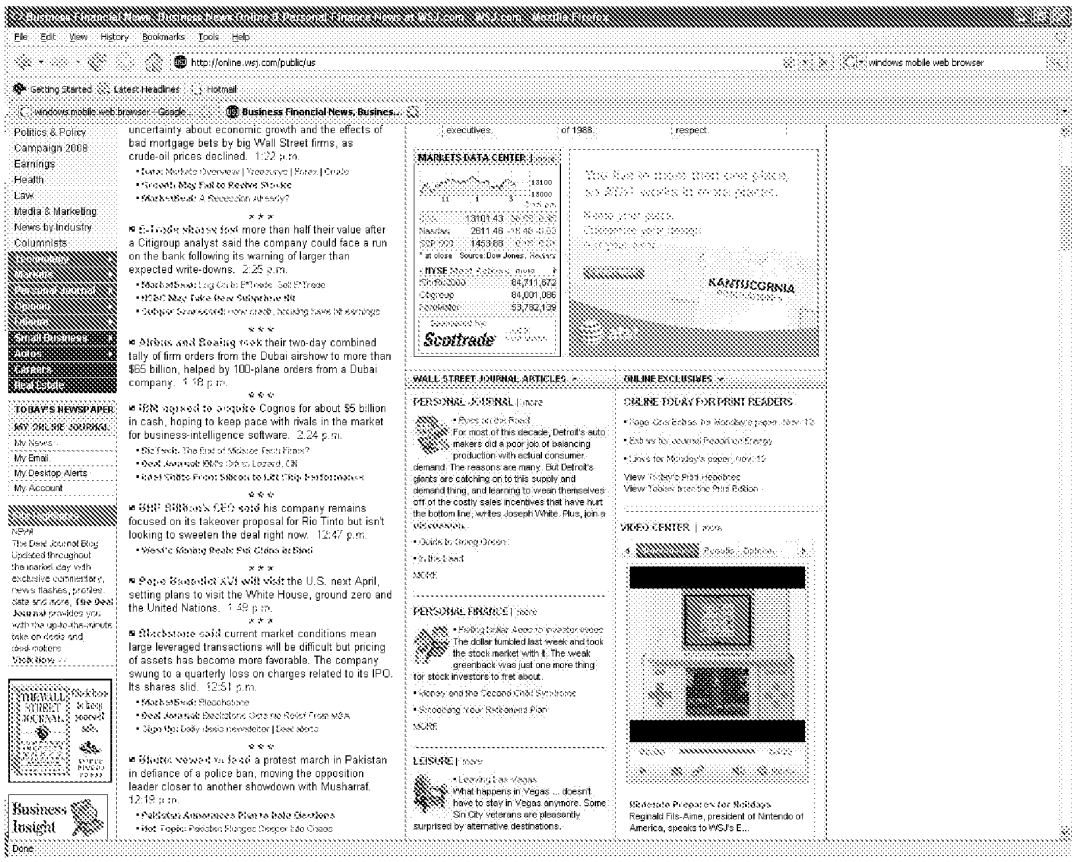
It is common terminology to refer to a browser "retrieving" or "downloading" a Web page. For example, upon entry of a new URL in the browser Web address box of a desktop browser, the browser will download the Web page referenced by the URL. It

is well understood that this doesn't imply that all of the content associated with the Web page must be retrieved or downloaded. Some of the content is typically used for search engine purposes, such as Metatag header information, or is otherwise not used for rendering purposes. In other cases, content may be referenced that is not supported by the requesting browser. For example, "Flash" content typically requires a Flash plug-in viewer (or built-in Flash support provided by some browsers); if the plug-in viewer is not loaded by the browser (or such support isn't built in), the Flash content cannot be displayed. This is also true for TIFF images on the USPTO Web site. Unless an appropriate TIFF plug-in viewer is loaded, the TIFF images will not be displayed.

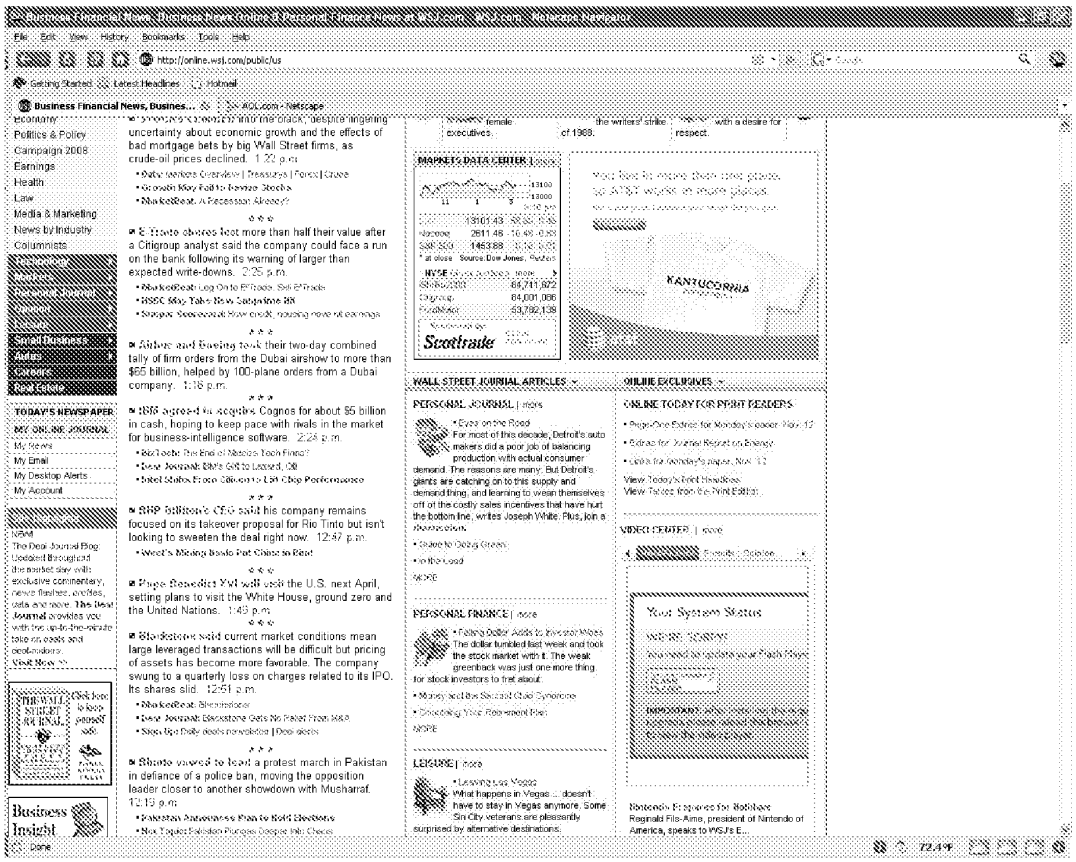
A similar situation exists with Active-X controls. In order to use the Active-X controls, the browser needs to provide support for Active-X controls. Since Active-X controls were developed by Microsoft, all recent versions of Microsoft Internet Explorer provide support for Active-X controls. Meanwhile, browsers from other vendors, such as Apple Safari, Mozilla Firefox, and Opera, do not support Active-X controls.

When a browser encounters content that is not supported "natively" by the browser, the browser will typically check to see if an appropriate plug-in is available. Depending on the browser and/or particular Web site, if an appropriate plug-in cannot be found, the browser or Web site may apprise the user of the situation and enable the user to download the plug-in. In other instances, the content is simply ignored. Thus, in some cases, the Web page may reference content that is never retrieved when the Web page is retrieved by the browser.

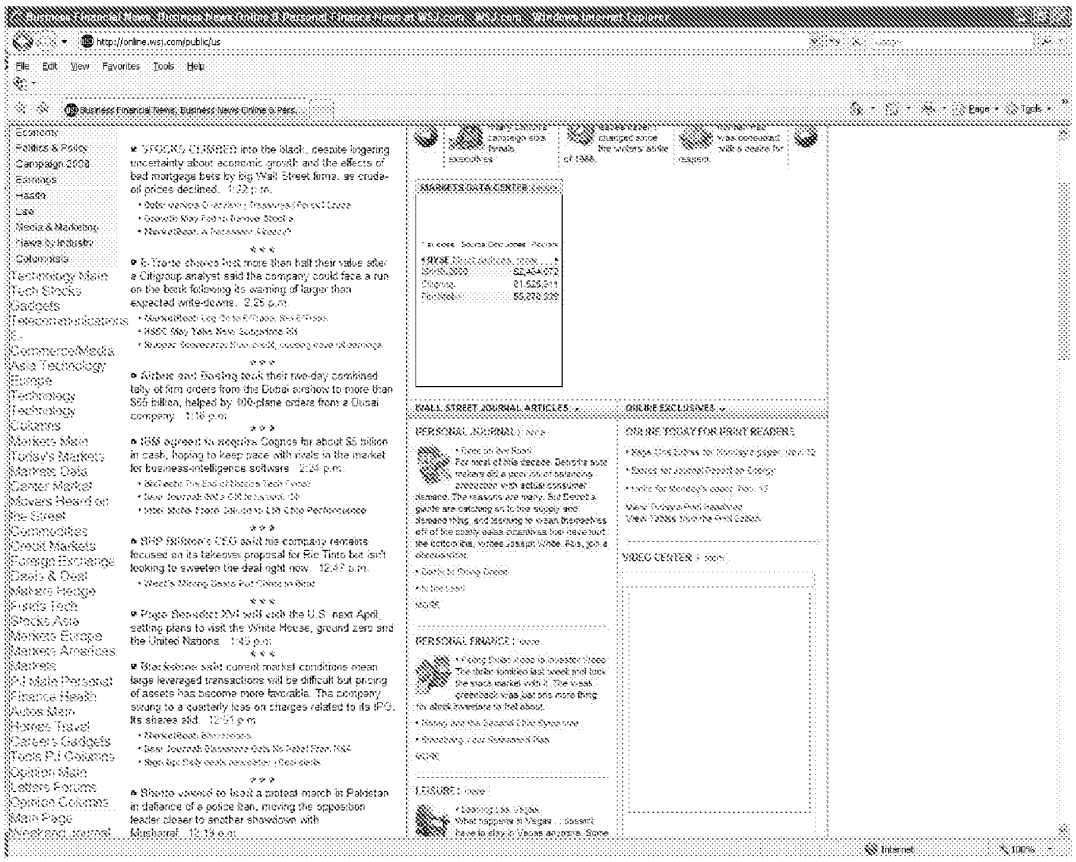
The three screen shots below respectively show the same Web page (WSJ.com home page) rendered on a Netscape Navigator 9 browser, a Mozilla Firefox 2.0 browser, and an Internet Explorer 7 (IE 7) browser. In this particular instance, certain features of the IE7 browser are disabled for security reasons. It is also missing some plug-ins. Each of these browsers is running on the Microsoft Windows XP operating system.



Mozilla Firefox 2.0 Browser



Netscape Navigator 9 Browser



Microsoft Internet Explorer 7 Browser

It will be observed that the Web page is rendered substantially the same by the Netscape Navigator 9 and FireFox 2 browsers, while portions of the Web page are rendered in a different manner by the IE 7 browser (notably the left-hand column). The similarity between Netscape and Firefox is expected since they both use the same Mozilla core rendering code, while IE 7 uses Microsoft's rendering code. It is further noted that some Web pages are coded to account for different browser features. For example, some Web pages will have provisions for Active-X controls for pages to be viewed by Internet Explorer browsers, while possibly including provisions for alternate mechanisms when using other browsers.

This example Wall Street Journal Web page includes various embedded ***non-HTML content*** requiring support of one or more plug-ins[4] or otherwise built in support for rendering ***non-HTML*** content of a particular content type. In particular, the VIDEO CENTER object in the lower right-hand corner requires an Adobe (formerly Macromedia[5]) Flash viewer for rendering Flash content, which uses vector and raster graphics, a native scripting language called ActionScript and bidirectional streaming of video and audio.[6]

It is noted that there is a message in the VIDEO CENTER box in the Web page rendered by the Netscape Navigator 9 browser indicating that the browser needs to update its Flash player. In the case of the Firefox 2 browser, either the appropriate Flash player was found or an appropriate level of support for Flash content is built into the browser. In this case, the Flash .SWF file including data to render a video image of a Nintendo DS console is retrieved from a corresponding host server and rendered by the browser (if it has built-in support) or Flash player, as applicable. In the case of the Netscape Navigator 9 browser, the appropriate Flash player plug-in is not available; accordingly, the video image of the Nintendo DS console is not retrieved.

In the case of the particular IE 7 browser configuration used to obtain the IE7 screen shot, the Flash player is either missing or blocked. As a result, the aforementioned VIDEO CENTER image is missing (just an empty box is rendered, as defined by corresponding HTML). Moreover, the IE 7 browser did not render a

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[4] As defined by Wikipedia, A **plugin** (**plug-in**, **addin**, **add-in**, **addon** or **add-on**) is a computer program that interacts with a host application (a web browser or an email client, for example) to provide a certain, usually very specific, function "on demand". Applications support plugins for many reasons. Some of the main reasons include: enabling third-party developers to create capabilities to extend an application, to support features yet unforeseen, reducing the size of an application, and separating source code from an application because of incompatible software licenses.

[5] Macromedia is now a division of Adobe Systems

[6] For more details on the Adobe Flash Player, see, *e.g.,* http://en.wikipedia.org/wiki/Adobe_Flash_Player

message indicating the Flash player needed to be upgraded. In addition, the source for the AT&T advertisement in the upper right-hand portion is blocked via a security setting, resulting in this portion of the page being rendered using the same background color as the frame it (would be) embedded in.

A point for discussing the foregoing is to make it clear that,

1. Even when rendering the same Web page source content (*i.e.,* the HTML code definition of the Web page), conventional Web browsers may not render the (non-scaled) Web page identically. Under aspects of embodiments of the invention the overall layout and appearance (design) of the Web page representations defined by the HTML code for the Web page (as interpreted by the rendering/layout engine) are preserved at various zoom levels and panned views. That is, the preservation is relative to how the page layout and design of the Web page content is interpreted by the rendering/layout engine employed for a particular implementation, and is not relative to how the Web page might appear on a particular desktop browser, although they might appear the same or substantially similar if using the same rendering/layout engine.
2. Plug-ins may be required to render ***non-HTML content*** that is embedded within some web pages or used in a separate window launched from a web page. Notably, the plug-in content is not a Web page, but rather a specific type of content requiring a corresponding plug-in application to render the content.

As discussed above, new claim language has been added by way of amendment that includes the language "preserving the original page layout, functionality, and design" of the markup language-based Web content. With respect to preserving the original page layout, the page layout (to be preserved) is determined as interpreted by

rendering/layout engine components, rather than as a comparison to how the page might be rendered by a particular desktop browser. As described above and in other remarks, browsers often do not render Web pages derived from the same HTML-based definition identically. Accordingly, one of ordinary skill in the browser art would not expect Web pages rendered using an implementation in accordance with the teachings disclosed in the present application to render pages as *exact* scaled replicas of the same page rendered by a conventional desktop browser, such as Internet Explorer or Safari, for example. Due to rendering limitations such as fixed size fonts, limited font typefaces, etc., renderings of the same page when viewed at different zoom levels may result in small variations, as opposed to an exact scaled version of the same content (*i.e.*, as if viewed by a magnifying glass). While conceivably an implementation might produce this exact (*i.e.*, perfect magnification) result, such results are not required by the scope of the terminology "preserving the original page layout … of the content."

A similar context exists with respect to "preserving the [original page layout, functionality, and] design" of the content. Preserving the design of a Web page's HTML-based content corresponds to support for rendering of a Web page at different zoom levels and panned views in accordance with its design as defined by corresponding HTML-based content, which includes such things as type fonts, separator bars, tables, columns, *etc.* Again, the Web page's design is a matter of interpretation by the particular browser (typically via its rendering/layout engine), as, for example, the same content (as defined by its corresponding HTML definition) may be rendered using different colors by different browsers. Similarly, browsers may substitute fonts for original fonts (as defined by corresponding HTML code) that are not supported by the browser or operating system used by a given host device. With respect to the scope of the terminology "preserving the [overall layout, function and] design" of the content, this refers to preserving the design as interpreted by the rendering engine while at different zoom levels and panned views, as opposed to

rendering the content identically to how it is rendered by a particular desktop browser that may interpret the page design differently. As discussed above, some design aspects relating the Cascading Style Sheets may not be implemented or may be implemented incorrectly by some browsers and/or rendering/layout engines. The preservation of the design is relative to the interpretation of the design aspects of the Web page.

Examples of SoftView™ Browser Screen Shots

The following pages illustrate various screen shots of the aforementioned nytimes.com Web page as translated by the SoftView™ proxy server and rendered on a SoftView™ browser client running on a Sony Clie emulator[7]. Under the claims herein, operations performed by a proxy server in accordance with these examples would be performed by a mobile device via use of browser software in conjunction with an operating system and potentially other facilities on the mobile device, as would be understood by one skilled in the art. This would yield similar results to those presented herein. Figs. 2a-2d further include screen shots of the Web page as rendered on a Firefox 3.0.5 desktop browser for comparison purposes.

As can be readily observed, the SoftView™ implementation produces a Web page with substantially similar display content to that rendered by the Firefox browser. However, there are some differences, which are to be expected. For example, since the nytimes.com site uses rotating advertisements, different advertisements will appear at different times, depending on exactly when the screen shots are captured. In addition, since some types of content, such as flash content, were not supported by the SoftView™ implementation employed to take the screen shots, this content is not displayed on the rendered page. For example, the nytimes.com web page includes

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[7] Palm OS Emulator 3.0a8S1.0, 2000-2001 using a Sony Clie PEG-700 Skin. The emulator was used for the purpose of creating the screen shots – similar page renderings are produced using an actual Sony Clie PDA.

code referencing a flash-based video (*i.e.*, the Play Video content under the VIDEO header). The corresponding area is rendered blank, such as shown in SoftView™ browser screen shot of Fig. 2b. Also, portions of the page layout may be adjusted in position depending on whether the content is supported or was available or successfully retrieved. Adjustments of this type are typically defined by layout rules implemented by the rendering/layout engine. For example, in the SoftView™ implementation an advertisement occupying the position of the "DON"T MISS HISTORY IN THE MAKING" in the desktop browser screenshots was either unable to be retrieved (potentially due to a timeout error or some other undetermined reason) or was of an incompatible type (*e.g.*, a flash advertisement that was one of multiple rotating advertisements used for this area on the nytimes.com home page[8]), and thus content below the missing advertisement is shifted upward in accordance with interpretation of the page by the version of the Mozilla rendering engine employed by the SoftView™ proxy server.

As discussed above, different browsers may render the same HTML-based Web page content slightly differently. Also, since aspects of Web page design and implementation have become more standardized, new types of content and design elements have been added or are otherwise now supported by some rendering/layout engines, and more are likely to be added in the future. As a result, earlier browsers using rendering/layout engines that were developed prior to the definitions of the new types of content and/or design elements or otherwise did not include support for such content or design elements will not display the content or design element(s) or may attempt to display them in an erroneous manner. Typically, when a browser rendering engine encounters content or a CSS element it doesn't recognize, it simply ignores is. In other cases, the HTML-based content may include support for functionality that is

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[8] It has been observed that the nytimes.com home page uses both external img (image)-based advertisements and flash-based advertisement in this portion of the page.

applicable to a desktop environment, but not applicable to a mobile device. For example, there are several web sites that include mouse "hover-over" menus under which a menu will pop-up or otherwise appear when a user places a mouse or pointer cursor over a corresponding portion of the screen. Since there is no mouse or equivalent on a typically mobile device, the browser's rendering/layout engine may be configured to ignore support of such functionality.

The claim language "preservation of the original page layout, functionality and design" is to be considered in the context of the browser implementation itself. That is, the preservation is relative to the interpretation of the page by the browser implementation itself, as opposed to preservation of the original layout, functionality and design based on some rigid consideration of a "perfect" interpretation of the page. As discussed above, a perfect interpretation does not realistically exist, as the HTML and related design specifications are too imprecise to begin with, and due to legacy considerations may remain so in the future.

Returning to the screen shots, Figs. 2a-d represent comparisons between the nytimes.com home page using Firefox 3.0.5 and the SoftView™ proxy server – browser client implementation. It is noted that the SoftView™ implementation (employed for the screenshots herein) uses a version of the Mozilla rendering engine from approximately 2002. As a result, there may be certain types of page design aspects that are not included in the rendered page, since corresponding aspects of the Cascading Style Sheets (CSS) specifications were not supported by this earlier version of the Mozilla rendering engine.[9] These include support for rendering some of the thin light gray column separator elements, which are defined in the common layout CSS document for the nytimes.com Web site.

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[9] See http://en.wikipedia.org/wiki/Cascading_Style_Sheets for an excellent discussion of the Cascading Style Sheets, their history, and in particular the section concerning difficulty with adoption.


The New York Times
U.S. Rejected Aid for Israeli Raid on Iranian Nuclear Site
DON'T MISS HISTORY IN THE MAKING.

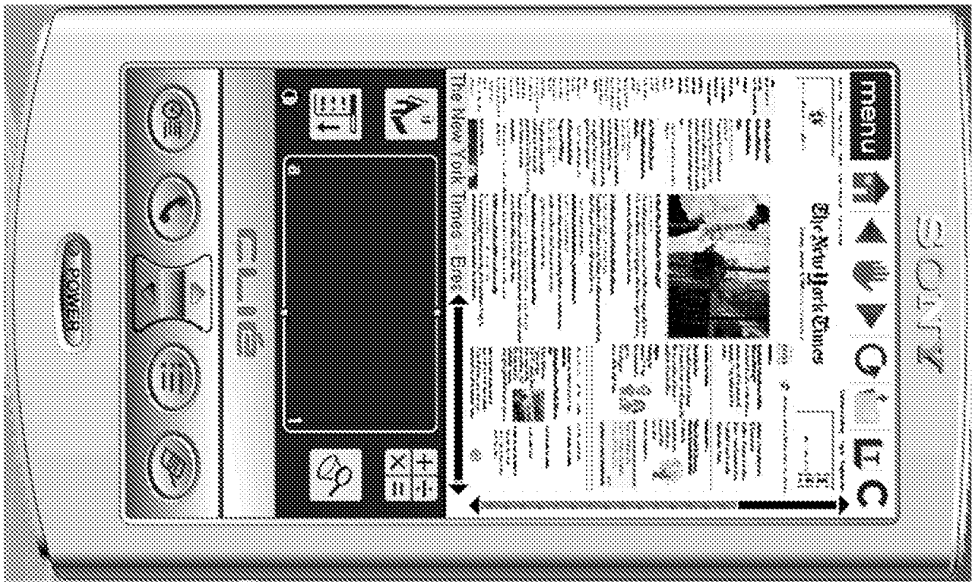
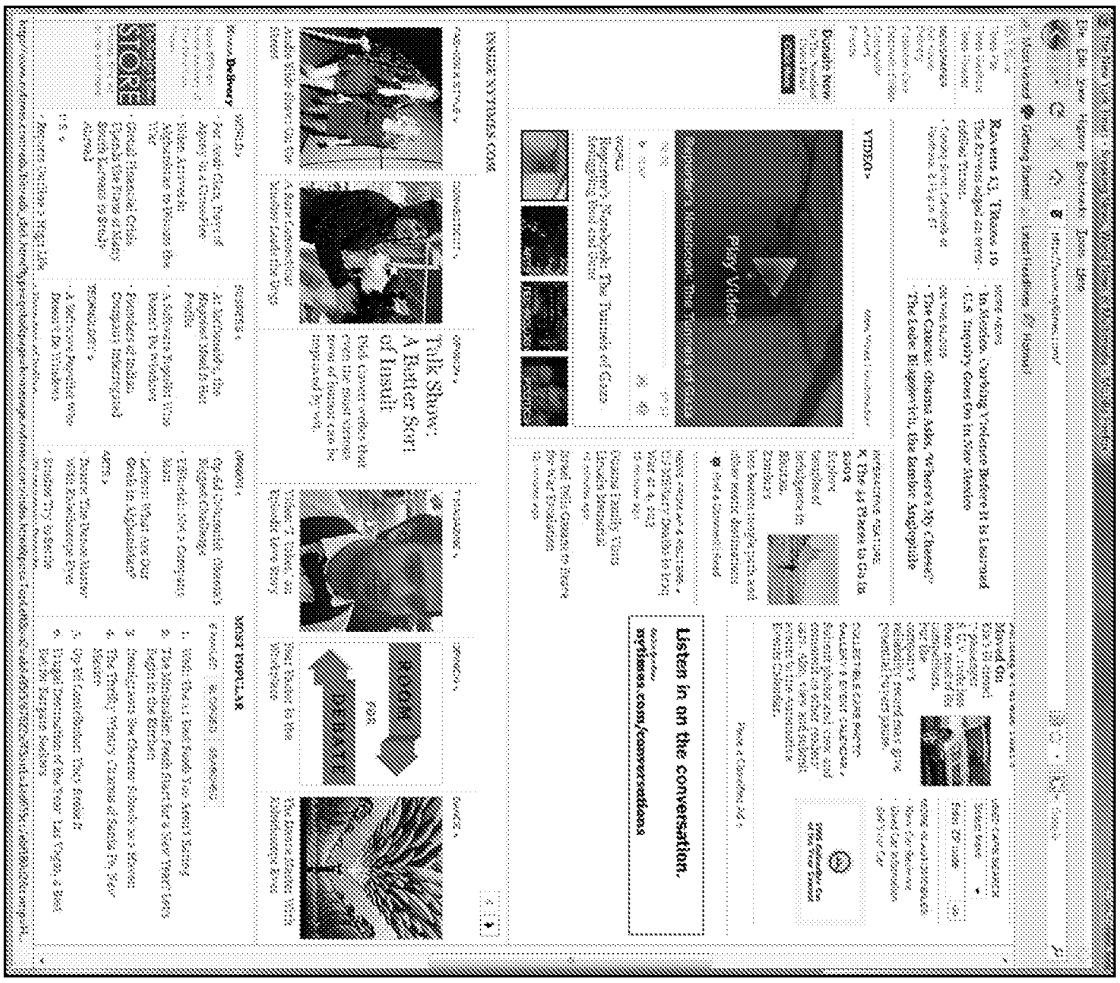

menu
The New York Times
CLUE

Fig. 2a



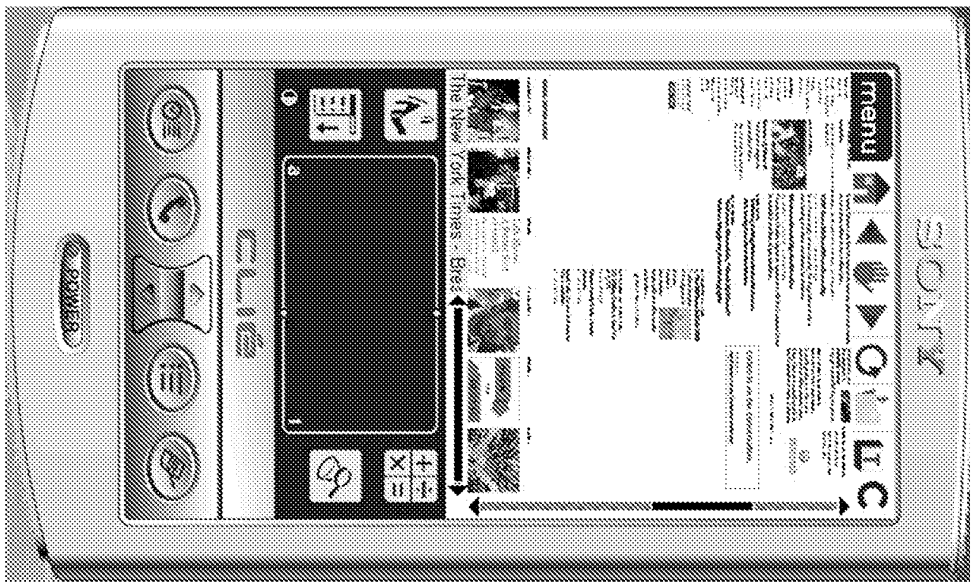
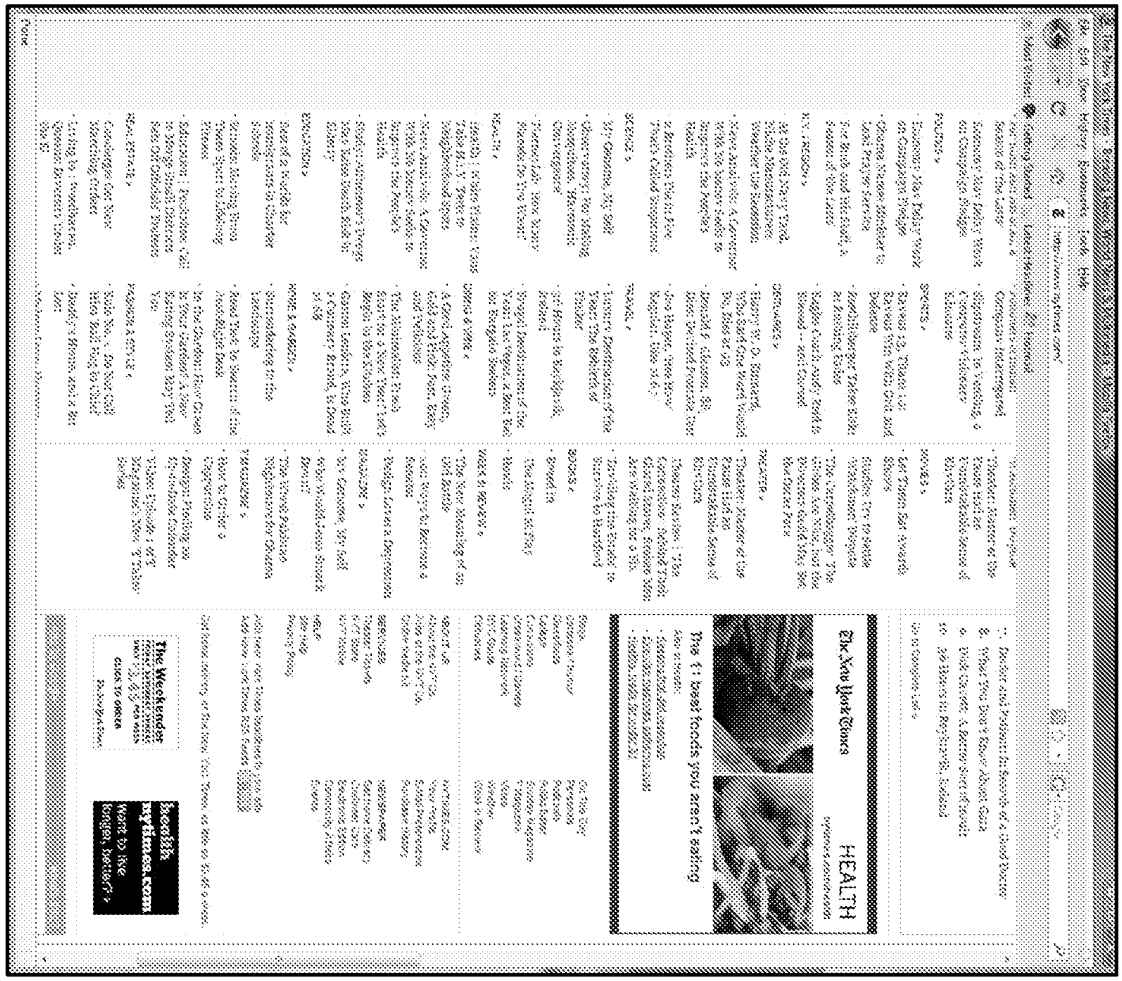


Fig. 2b



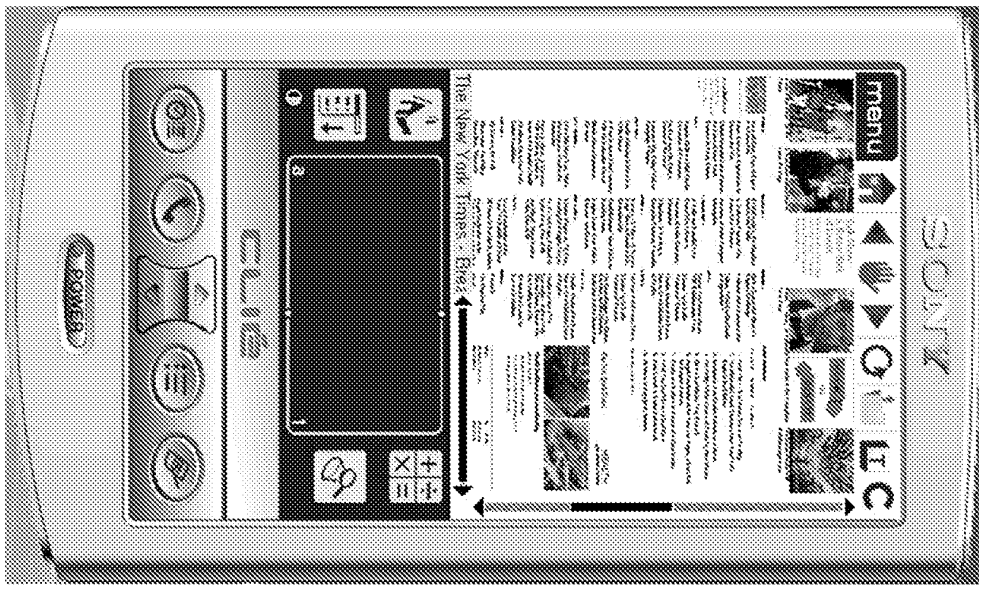
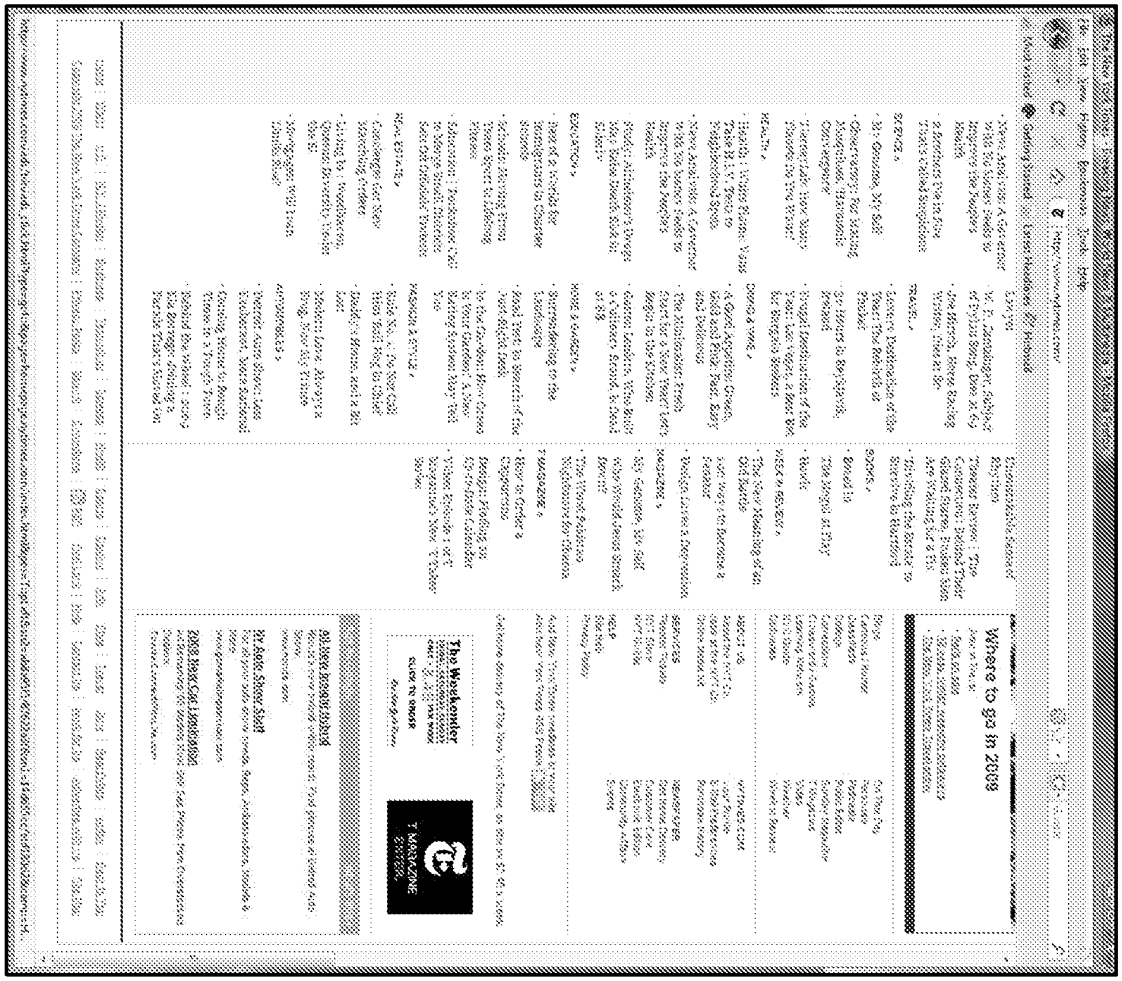


Fig. 2c



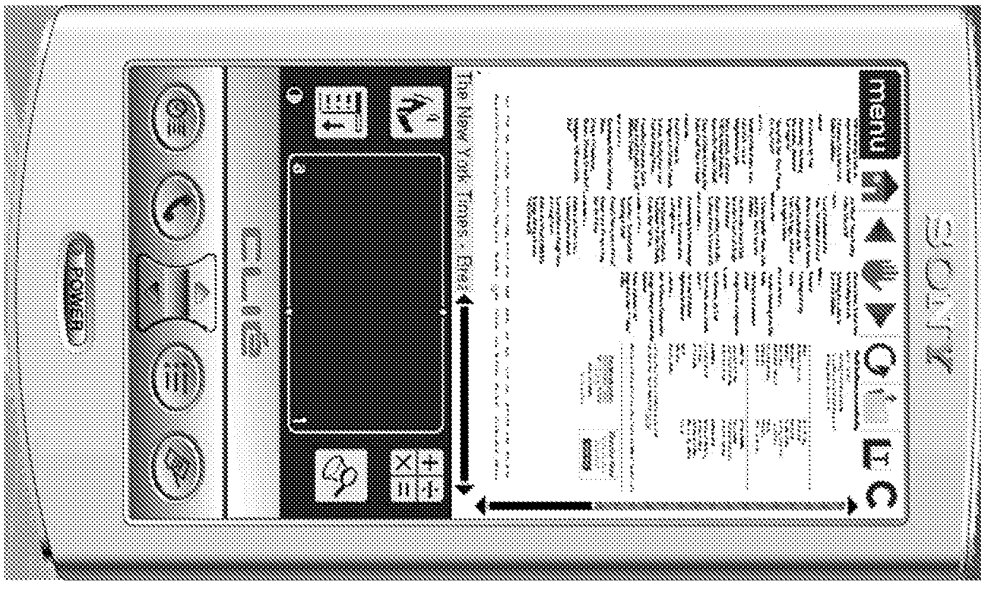


Fig. 2d

Figs. 3a-3f show various portions of the nytimes.com Web page in a full-width view (above) and corresponding zoom views (below) using the SoftView™ implementation. The above view shows a screen capture of the emulator, while the below views comprise screen captures of just the display. As can be readily observed, each zoomed-in view preserves the original page layout and design of the Web page, as interpreted by the SoftView™ implementation.


SONY
menu
The New York Times
The New York Times - Brea
menu
The New Yor
The New York Times - Brea
menu
The New York Times - Brea

Fig. 3a

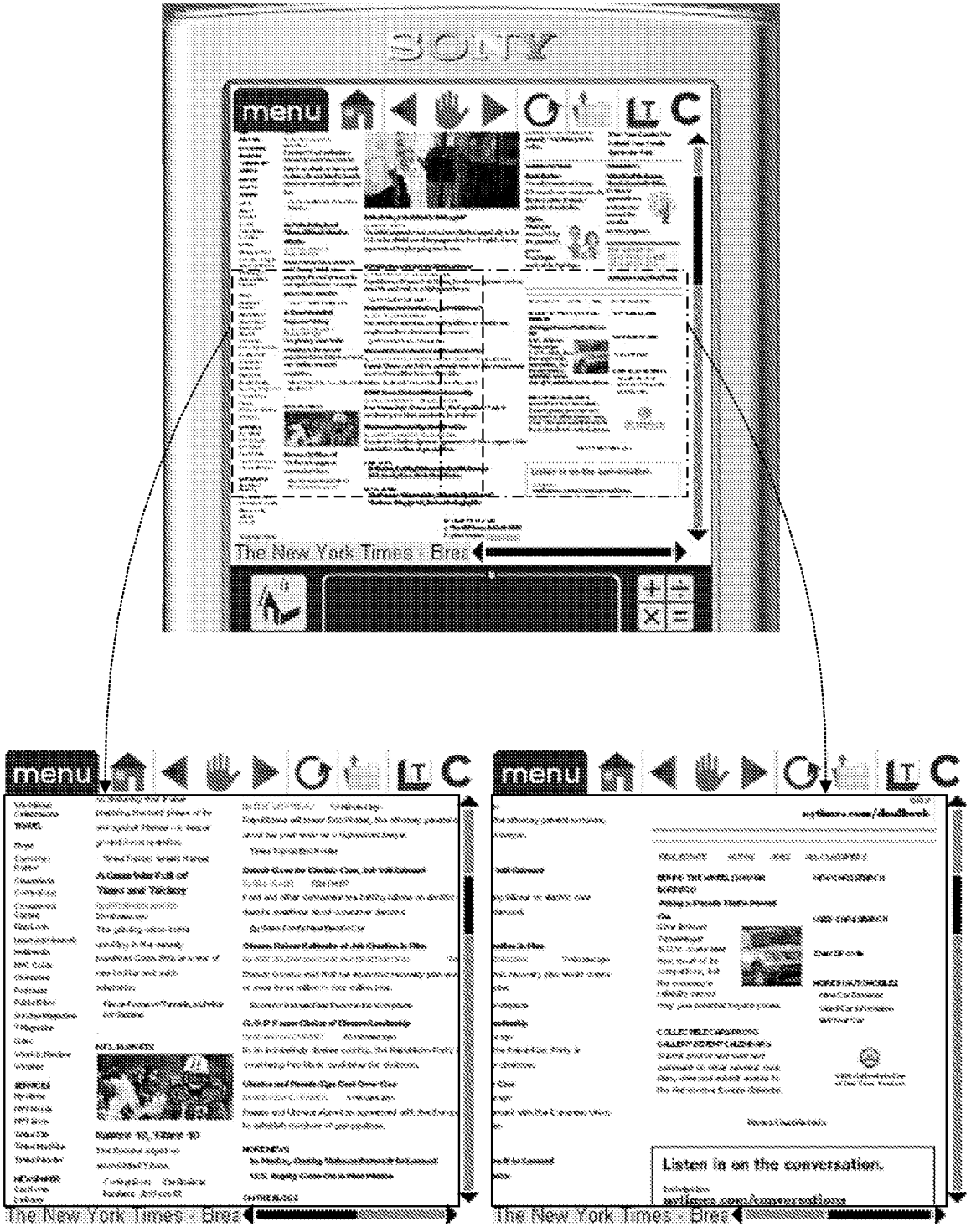

SONY
menu
The New York Times - Brea
menu
The New York Times - Brea
menu
Listen in on the conversation.
The New York Times - Brea

Fig. 3b

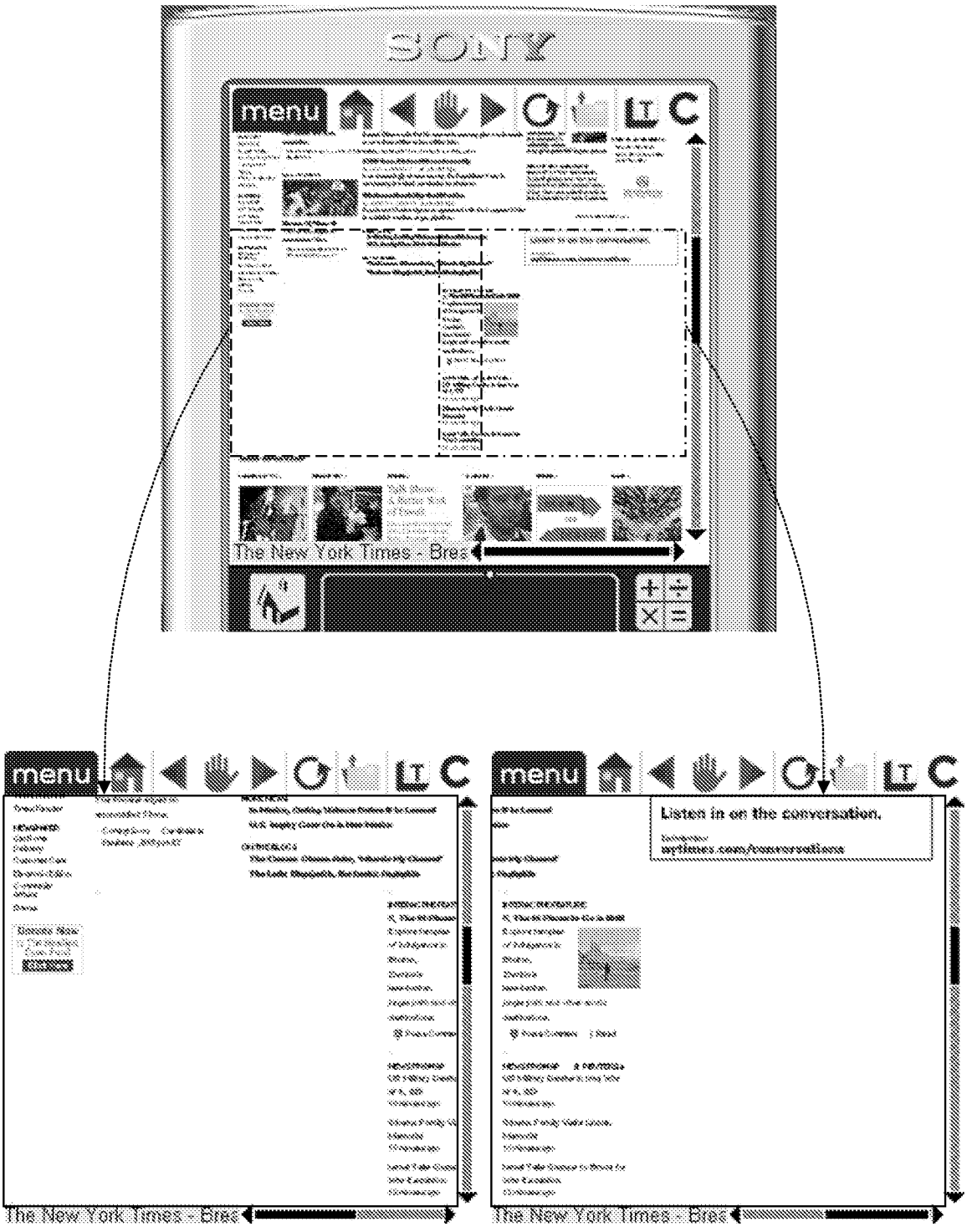

SONY
menu
The New York Times - Bres
menu
The New York Times - Bres
menu
Listen in on the conversation.
The New York Times - Bres

Fig. 3c

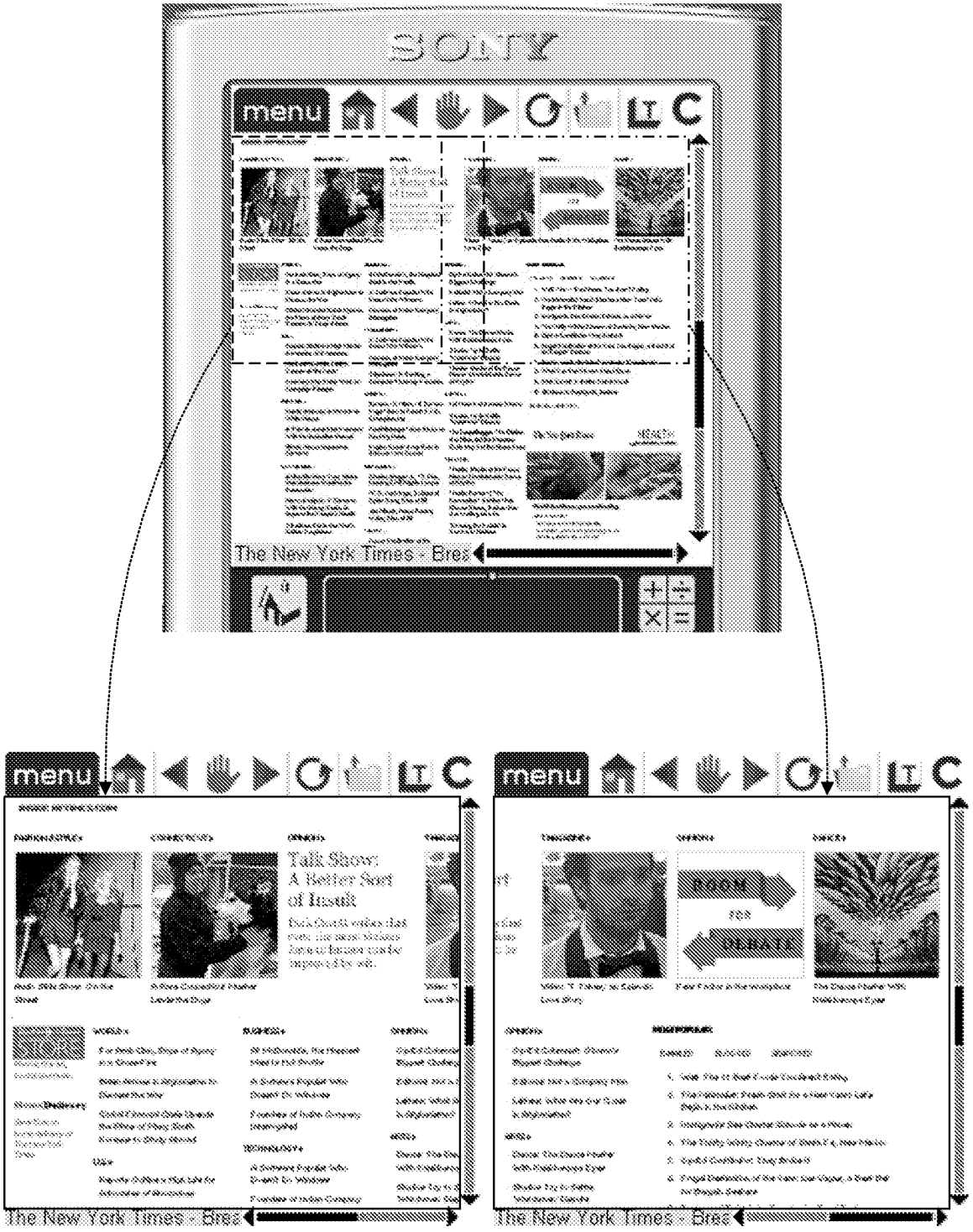

SONY
menu
The New York Times - Brez
menu
Talk Show:
A Better Sort
of Insult
The New York Times - Brez
menu
The New York Times - Brez

Fig. 3d

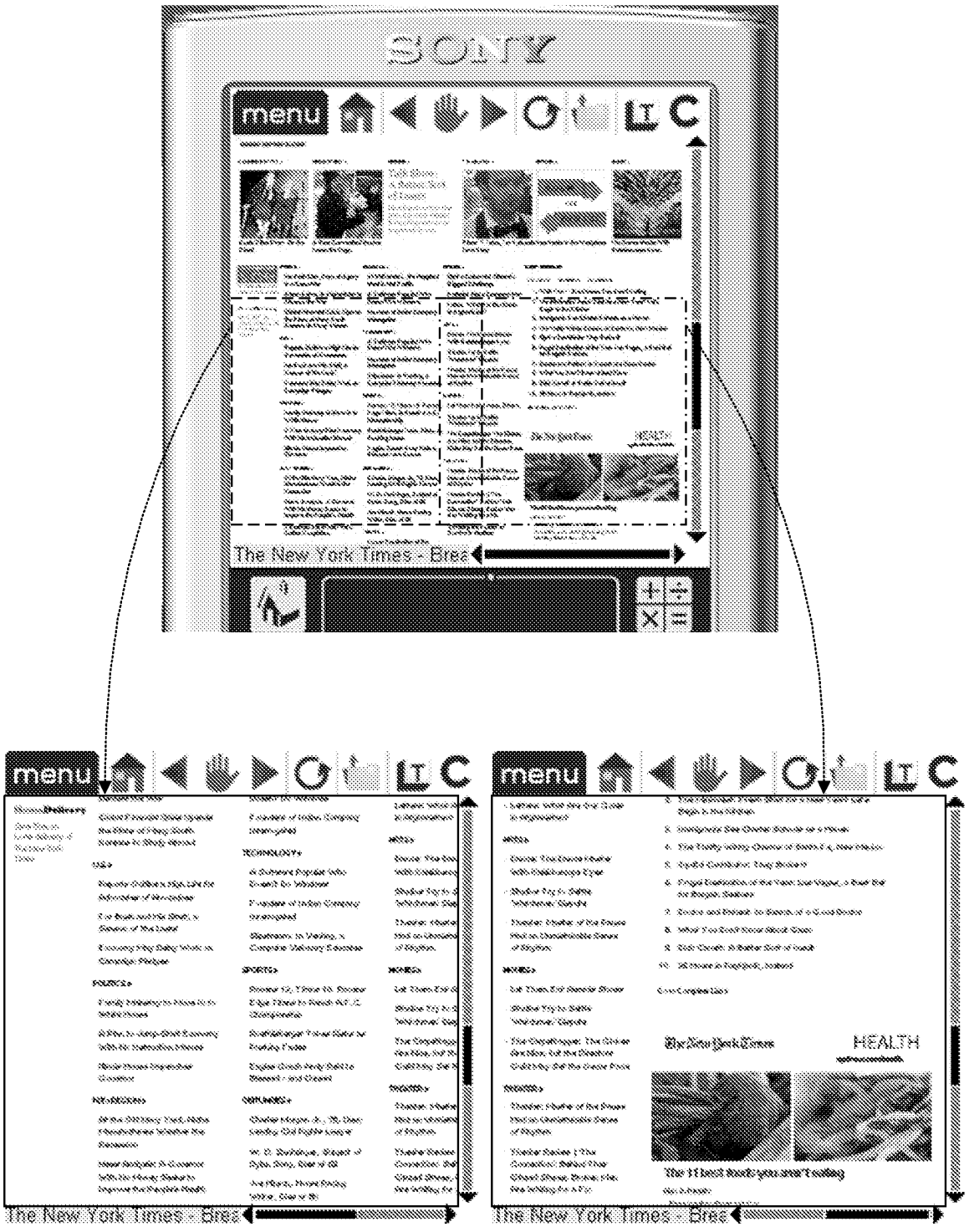

SONY
menu
The New York Times - Brea
menu
The New York Times - Brea
menu
HEALTH
The New York Times - Brea

Fig. 3e

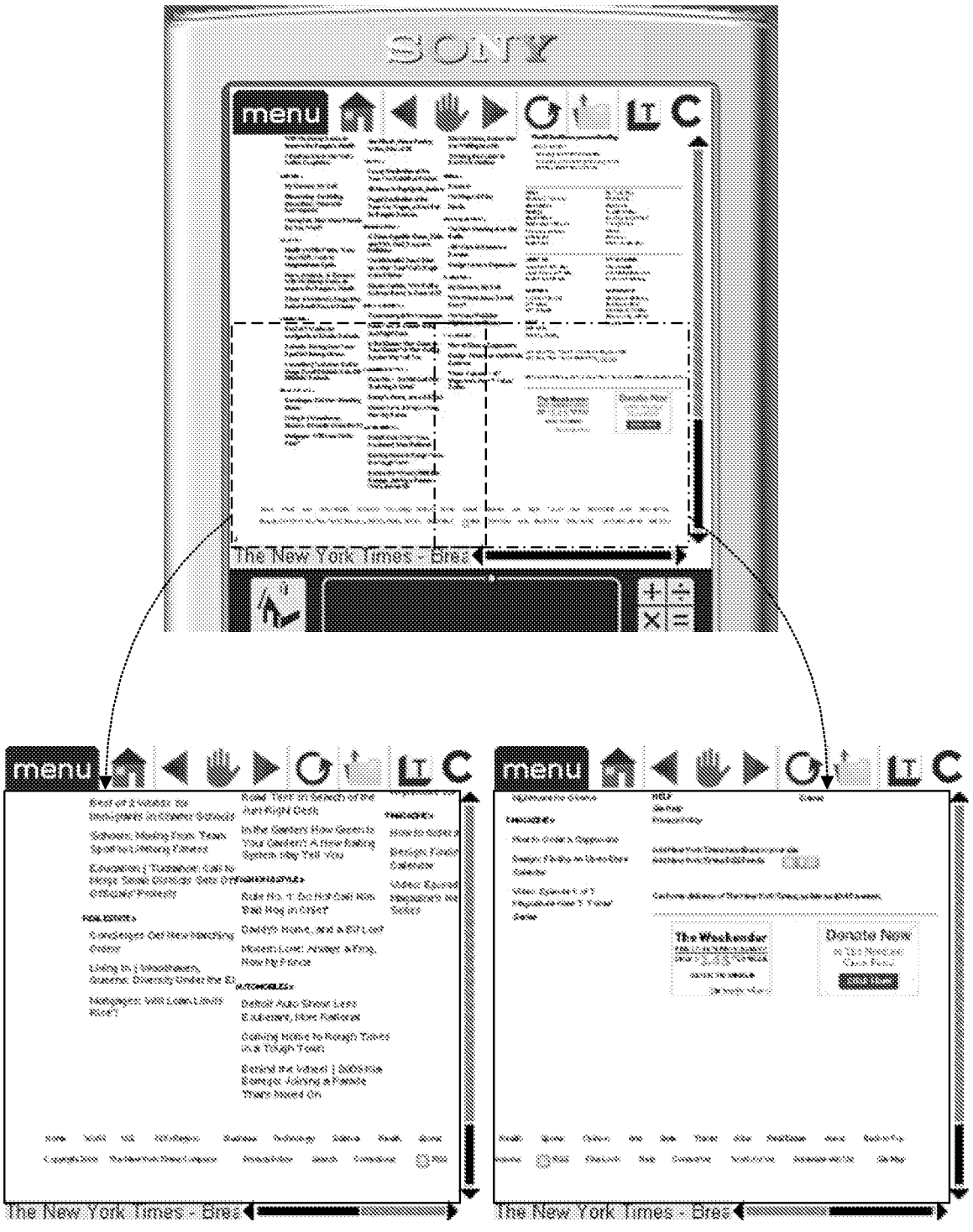

SONY
menu
The New York Times - Brea
menu
The New York Times - Brea
menu
The New York Times - Brea

Fig. 3f

Figs. 4 and 4a show various zoomed-in views of an INSIDE NYTIMES.COM content "ribbon." Figs. 5-7 show selected zoomed-in views of the upper portion of the page, while Figs. 8 and 9 show various zoomed-in portions of the bottom portion of the page. It is noted that the "Ads by Google" portion is missing on the SoftView™ browser screen shots due to a server connection timeout error (which caused this content to not be retrieved).

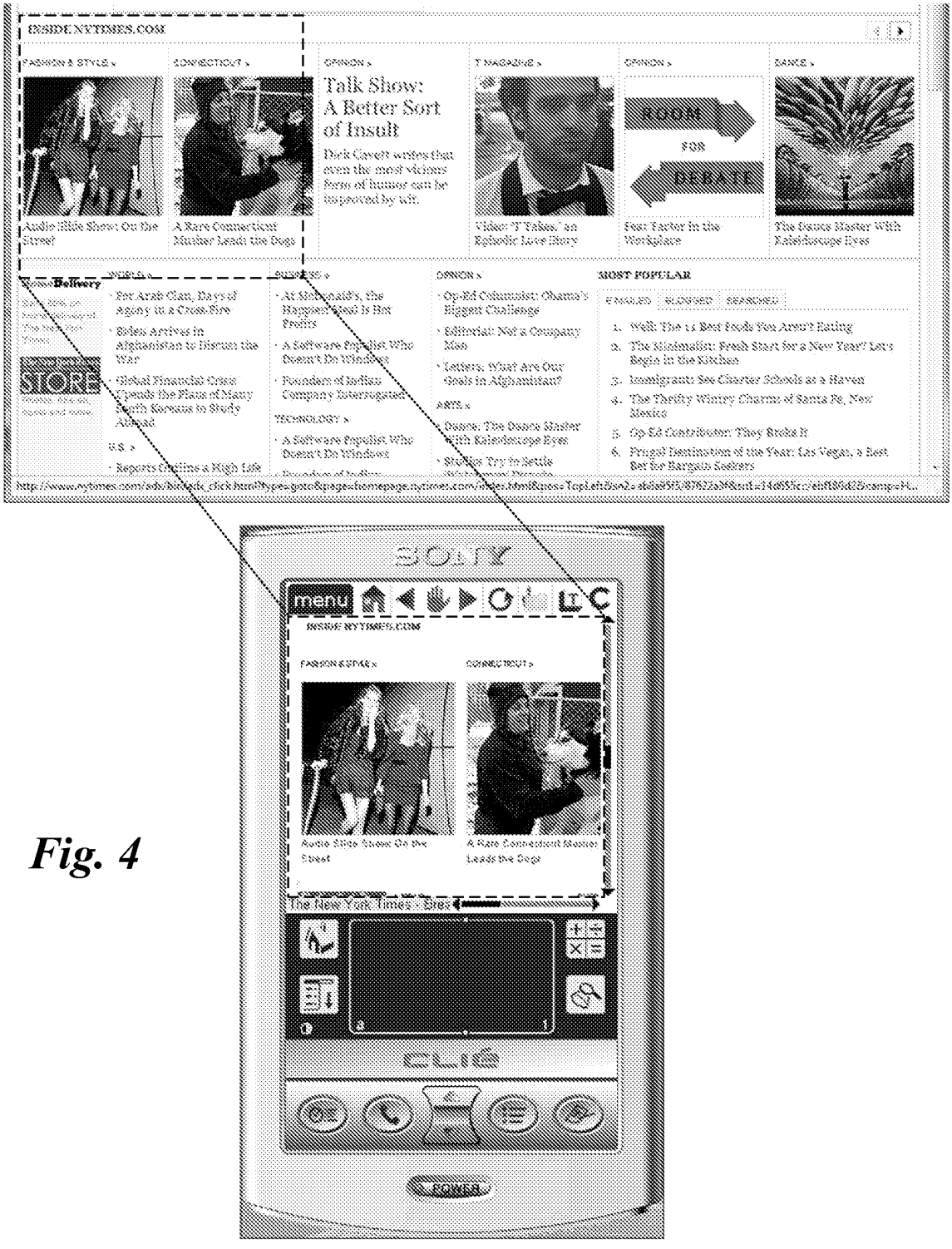

INSIDE NYTIMES.COM
Talk Show: A Better Sort of Insult
ROOM FOR DEBATE
MOST POPULAR
STORE
SONY
menu
INSIDE NYTIMES.COM
The New York Times - Elec
POWER

Fig. 4


Play Video
Listen in on the conversation.
nytimes.com/conversations
WORLD
Reporter's Notebook: The Tunnels of Gaza
Smuggling Food and Guns
INSIDE NYTIMES.COM
Talk Show:
A Better Sort
of Insult
Dick Cavett writes that even the most vicious form of humor can be improved by wit.
ROOM
FOR
DEBATE
MOST POPULAR
STORE

Fig. 4a

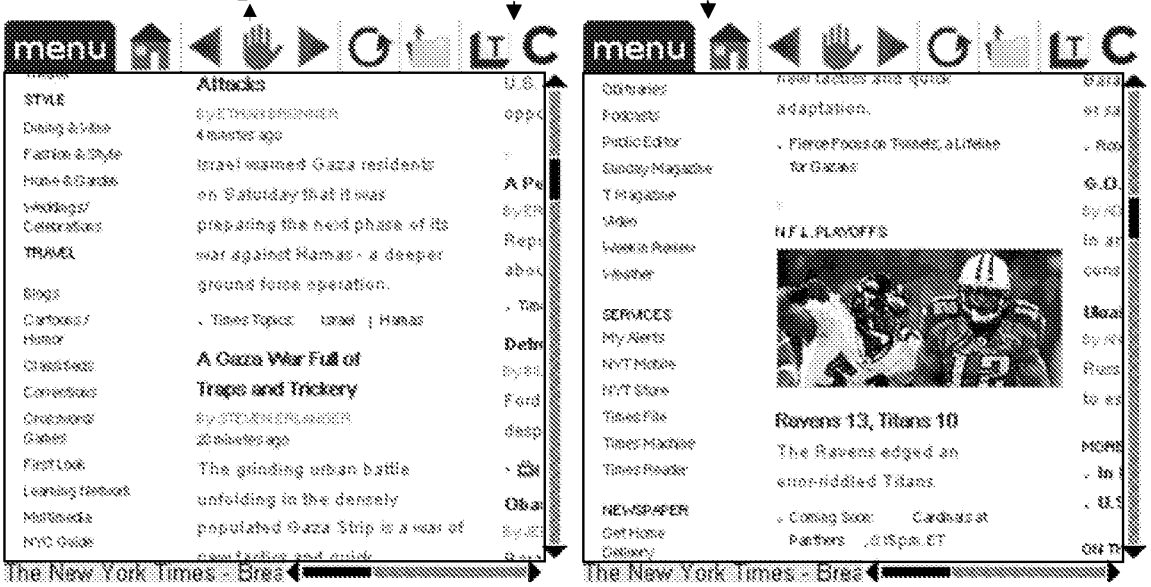

menu
INSIDE NYTIMES.COM
FASHION & STYLE »
CONNECTICUT »
OPINION »
MAGAZINE »
Talk Show:
A Better Sort
of Insult
Dick Cavett writes that even the most vicious form of humor can be improved by wit.
Audio Slide Show: On the Street
A Rare Connecticut Musher Leads the Dogs
The New York Times - Bree


Fig. 5
The New York Times
U.S. Rejected Aid for Israeli Raid on Iranian Nuclear Site
As Talks Falter, Israel Warns of More Extensive Attacks
In Nashville, A Ballot to Go 'All English'
A Public Servant's Private Stint Is at Issue
Detroit Goes for Electric Cars, but Will Drivers?
OPINION
Editorial: Who Owns White House History?
IN SUNDAY'S TIMES
YOUR MONEY
When Cash Is Scarce, There's Comfort in Miles
THE LATEST ON DEAL MAKERS AND DEAL BREAKERS
nytimes.com/dealbook
DON'T MISS HISTORY
menu
Iranian Nuclear Site
menu


Fig. 6
The New York Times
U.S. Rejected Aid for Israeli Raid on Iranian Nuclear Site
In Nashville, A Ballot to Go 'All English'
A Public Servant's Private Stint Is at Issue
Detroit Goes for Electric Cars, but Will Drivers?
DON'T MISS HISTORY IN THE MAKING
menu
In Nashville, A Ballot to Go 'All English'
A Public Servant's Private Stint Is at Issue
Detroit Goes for Electric Cars, but Will Drivers?


In Nashville, A Ballot to Go 'All English'
As Talks Falter, Israel Warms of More Extensive Attacks
A Gaza War Full of Traps and Trickery
Obama Raises Estimate of Job Creation in Plan
G.O.P Faces Choice of Diverse Leadership
Ukraine and Russia Sign Deal Over Gas
Ravens 13, Titans 10
DON'T MISS HISTORY IN THE MAKING.
November 4 was just the beginning.
Subscribe now to The New York Times and get 50% off.
Click here. ›
The New York Times

Fig. 6


menu
menu
Attacks
A Gaza War Full of Traps and Trickery
Ravens 13, Titans 10
The New York Times - Brea
The New York Times - Brea

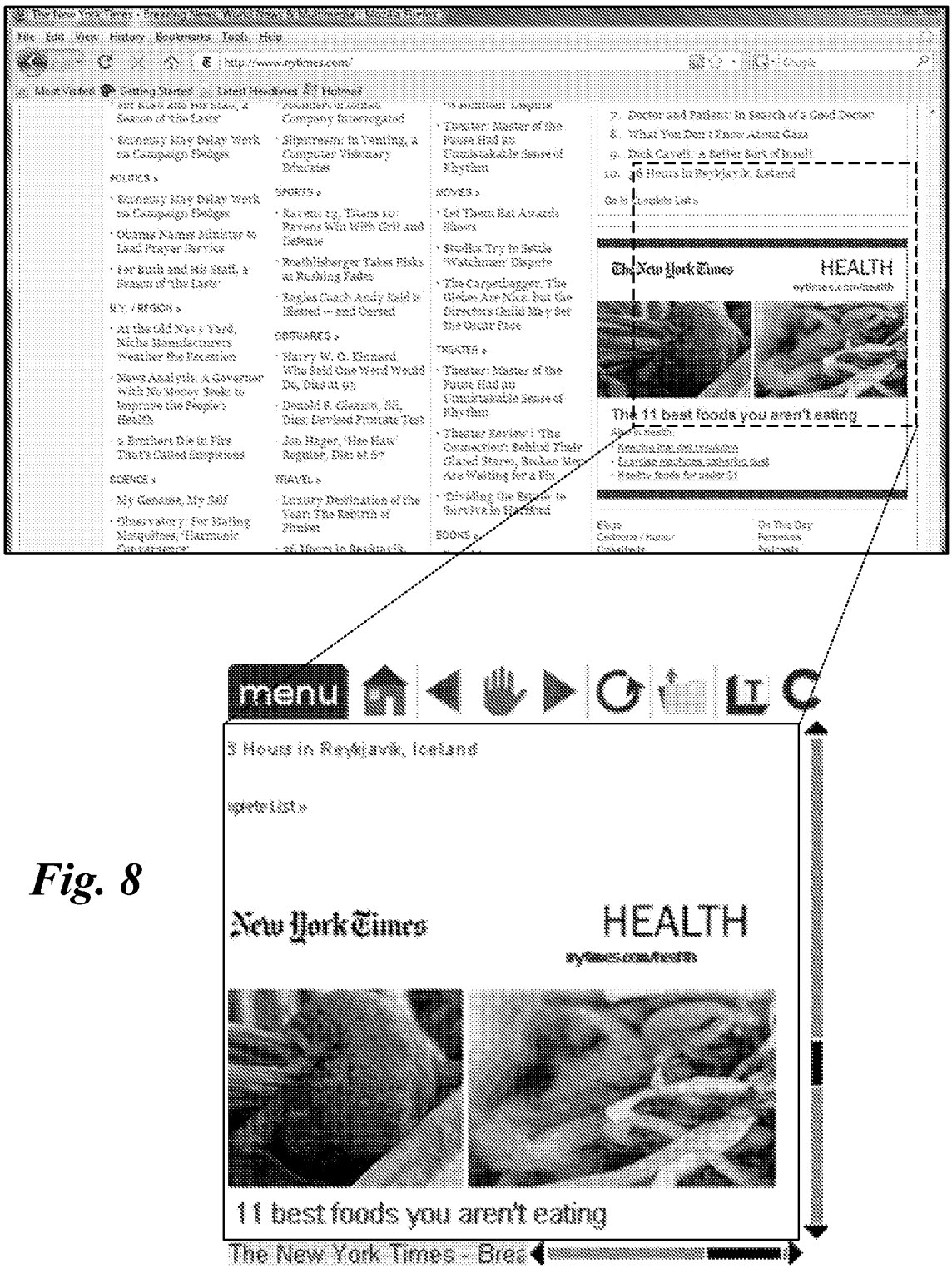

menu
3 Hours in Reykjavik, Iceland
New York Times
HEALTH
11 best foods you aren't eating
The New York Times - Brea

Fig. 8

The new claim language also introduces the term preservation of "functionality." Preserving functionality generally pertains to preserving the interoperability of various HTML-based Web page content, such as hyperlinks and UI controls such as input forms defined via corresponding HTML-based code. It is noted that the HTML code defining a Web page's overall layout, functionality and design does not define how a user interaction with the Web content is to be supported, but rather defines the existence of a corresponding function within the Web content to support the interaction. For example, a hyperlink definition within a Web page merely defines a link (hyperlink reference of *href*) to corresponding content, it does not define how the hyperlink associated control is to appear on the screen nor how the hyperlink is to be activated. That is up to the browser's implementation, which varies by browser. For example, some browsers underline text content associated with a hyperlink, while others change the appearance of a pointer when over a control (*e.g.,* text content) associated with a hyperlink (or otherwise change the appearance of such content). Moreover, how the hyperlink is activated is not defined by the corresponding HTML-based definition, but again is left to the browser implementation. Accordingly, preserving content functionality means that functionality defined by corresponding HTML code (*e.g.,* activation of a hyperlink in the present example) is supported, without limiting the particular user interface for how that activation is facilitated.

In the implementation of a zoomable browser, it may be desirable to change user interface behavior depending on a current use and/or view context. For example, the hyperlink controls of a conventional Web page designed to be viewed with a desktop browser are typically activated via the same user interface input (*e.g.,* clicking with a mouse), since all of the hyperlinks controls (on at least well-designed Web pages) are (presumably) designed to be viewable on the desktop browser (at least viewable to most users). In contrast, when the same page is rendered so as to fit on a handheld device's display, corresponding hyperlink controls may not be readable. As a result, it

may be advantageous to implement a context-based user interface that may result in a different action for the same user input depending on a current user and/or zoom context. For example, under the zoom to column, image, and paragraph user interface features disclosed in the present application, touching proximate to content associated with a hyperlink control may or may not activate the hyperlink control, depending on a current zoom level. By way of illustration, when touching content proximate to a hyperlink control that is also contained within a column when in a zoomed-out view, such as a full page view, the browser may interpret the input as an input to zoom to the column rather than an input to link to a hyperlinked reference associated with the content, particularly when the content is not readable in the current view.

One of skill in the art will recognize that the principles and teachings disclosed in the present application may be applied in a browser implementation employing one of many different rendering engines, such as but not limited to today's version of the Mozilla rendering engine (code-named "Gecko") used by the Firefox and Netscape Navigator browsers, the rendering engine employed by Microsoft Internet Explorer (code-named "Trident" (*aka* MSHTML)), or the Webkit rendering engine use by Apple's Safari browser. Since each of these rendering engines are capable of rendering the vast majority of today's Web pages[10], a browser implementing such a rendering engine in combination with the principles and teachings disclosed in the present application would likewise be capable of rendering the vast majority of billions of today's Web

---

[10] One of skill in the browser art would recognize that rendering engines do not render Web pages completely by themselves, but rather employ various support functions provided by the host operating system for particular rendering operations. Among these support functions is support for rendering text in various languages. The particular languages that are supported will vary depending on the operating system and/or extensions to the operating system (or otherwise add-on functionality provided by the browser) for rendering text of a particular language. If support for rendering text in a given language via either the operating system or a particular extension is not available, the text content in such a language will not be able to be rendered on pages that include such text content.

pages while preserving the page layout, functionality, and design of the Web pages under various zoom levels and panned views.

Resolution of Text Content Approximately Proportional to Zoom Level

Each of new claims 131-133 recite, in part,

"wherein text content in a view is rendered to have a resolution that is approximately proportional to the zoom level of the view, such that as the zoom level increases the resolution of text content increases approximately proportionally."

Under implementation of aspects of the present disclosure, the resolution of text content is approximately proportional to the zoom level being used to display the Web page view. As will be understood by those skilled in the art, the proportionality is approximate in consideration of how fonts and font glyphs are rendered and pixel boundary considerations. For example, consider the case where bitmap fonts are employed. Since the bitmap fonts have fixed sizes (e.g., 6, 8, 9, 10, 11, 12, 14, etc.), the same size font may be used over a small change in zoom level. As the zoom level is increased, the next available font size (as applied by the font selection logic) is substituted, resulting in step changes in text resolution. In addition, for scalable fonts[11], such as TrueType fonts and similar fonts, there will still be step-changes in font glyph widths when a font is gradually scaled, although not as pronounced. This is based, in part, on the mathematical vector definition of the font glyph outlines. Although the glyph outlines may be defined using high-precision math, there ultimately is a rasterizing operation that maps the mathematically-defined glyph outlines onto pixels, which reduces the precision and sharpness of corresponding text characters. As is well known, various approaches such as anti-aliasing is employed to make the outlines of the characters appear smoother (i.e., less jagged). As the size of the text (and/or the text representation) decreases, the affect of the pixel resolution becomes more

[11] See http://en.wikipedia.org/wiki/Computer_font for an excellent discussion of computer fonts.

pronounced (referred to as “pixilation”), leading to non-linearities. Thus, even when using scalable fonts such as TrueType fonts, the proportionality is approximate.

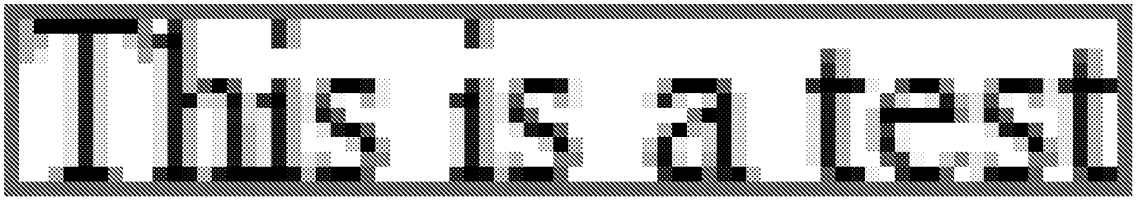
The following screenshots illustrate an example of text content having a resolution that is approximately proportional to the zoom level of a view. These screenshots, which are reduced in scale herein to fit the width of the page, where obtained using a desktop SoftView browser client implementation running on a version of the Microsoft Windows 7 operating system. It is noted the same proxy server as used in the www.nytimes.com examples presented above was used. However, the text is now rendered by the Windows 7 OS using scalable fonts, as opposed to the text in the Palm emulator examples, which employ a bitmap font at a lower resolution. The text is from a portion of the www.softview.us page.



The top example shows the text “SoftView:” at a zoom level of 100%, or 1x. The middle shows the text when the browser client was at a zoom level of 200% or 2x, and the bottom shows the text when the browser client was at a zoom level of 400% or 4x. Each of these screenshots comprises a bitmap. In the following representation, the bitmap of the text at 100% has been scaled by a factor of 4x, while the bitmap of the text at 200% has been scaled by a factor of 2x such that the text is now the same size.



The screenshot of the scaled bitmaps were derived by copying the original 1x and 2x text into Microsoft Paint, changing the zoom level to 400% and 200% respectively, and then capturing new screen shots. It is believed that Microsoft Paint employs a simple bit "blowup" when the zoom level is changed, as demonstrated below:

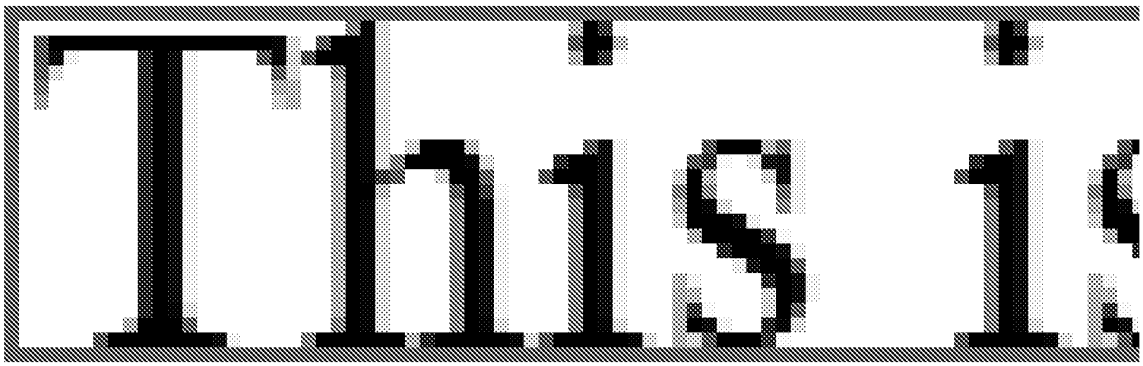


In this screenshot, each square block represents an original pixel of a 12 point Times New Roman font that has been blown up by a factor of 800%. This also shows an example of anti-aliasing, wherein pixels of different colors are selectively employed to make the font outline look smoother to the naked eye.

In general, the relative portion of pixels employed for anti-aliasing of a font glyph to the pixels in the glyph is not proportional with font size. As the font size is increased, the relative portion of pixels employed for anti-aliasing is reduced, since these pixels are usually employed using different colors to augment the outline of the font glyphs. This

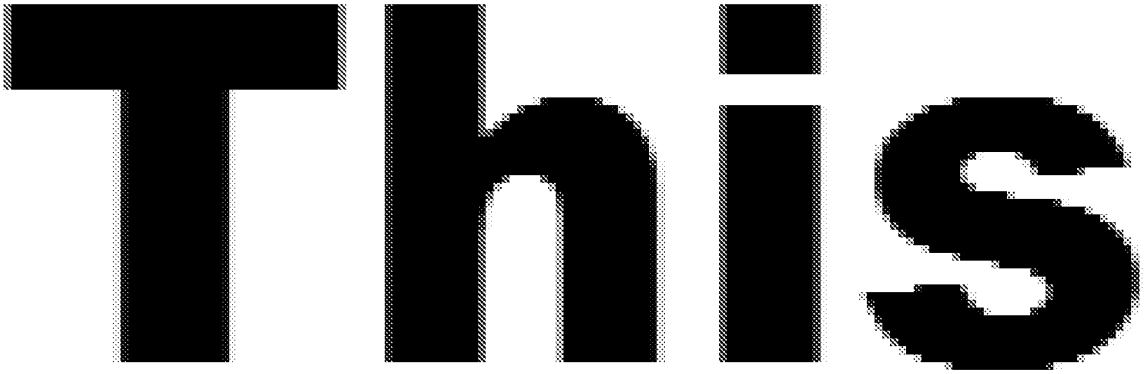
can be shown graphically by comparing text using various fonts (and corresponding font glyphs) at different sizes. The following screenshots respectively show the same text as above using a 48 point Times New Roman font blown up by 200% and a portion of the text using the 48 point Times New Roman font blown up by 800%:



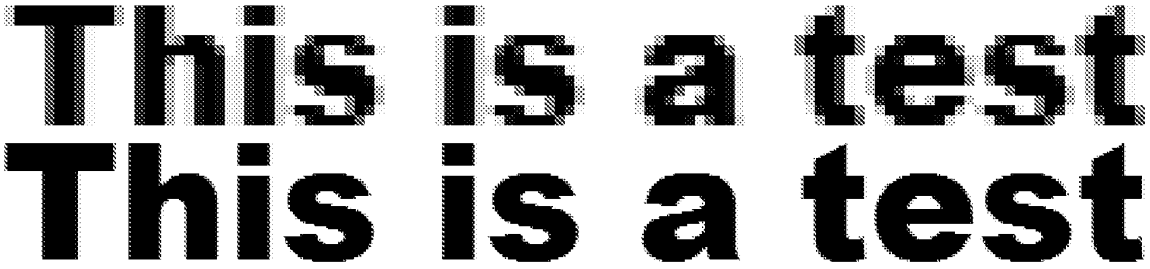


The effect is more pronounced with fonts employing wider glyphs, such as bolded fonts. For example, the following screen shots show 12-point and 48-point Arial Bold font blown up by 800%:





The following screen shots show the same 12-point Arial Bold font blown up by 800% compared with a 48-point Arial Bold font blown up by 200%:



In the above example, as well as the SoftView: screenshots, the portion of pixels along an axis employed for rendering a font glyph is proportional to the zoom level. As a result, there are more pixels available for rendering the outline of the font glyphs at relatively higher zoom levels, resulting in increased sharpness in text content as the zoom level is increased. For bitmap fonts, there are simply more pixels for rendering the same glyphs as the font size increases, resulting in sharper resolution. A similar result is achieved with scalable fonts. In the typical case, a scalable font such as a TrueType font employing glyphs, the number of pixels along an axis used to render the mathematically-defined (i.e., vector definition of the) glyph outlines increases proportionally with zoom level. As a result, since there are more pixels available to render a given glyph outline, the outlines look sharper at increased zoom levels.

In accordance with various teachings of the present disclosure, as the zoom level is increased, the resolution of text content is increased approximately proportionally. For example, if the zoom level is doubled from 1x (100%) to 2x (200%) or from 2x to 4x (400%), the resolution of the text content is approximately doubled. Applicant acknowledges that the number of pixels used in the portion of the display occupied by the same content (e.g., a rectangular portion of the pixels on a display) is increased by a factor of four when the zoom level is doubled – however, in the claims herein it will be understood that the resolution will be deemed to increase by a factor of two (2x, i.e.,

doubled) when the zoom level is doubled, not by a factor of four (4x). It will further be understood that the approximate proportionality applies to zoom levels above a practical text size threshold, since scaling of even mathematically scalable text becomes non-linear (and thus non-proportional) as text sizes become smaller.

Conclusion

In consideration of the claim amendments and remarks submitted herewith, Applicant respectfully asserts that all pending claims are in condition for allowance. If, however, the Examiner believes that there are any unresolved issues requiring adverse action in any of the claims now pending in the application, it is requested that the Examiner telephone R. Alan Burnett at (425) 417-4729 or (425) 562-0923 so that appropriate arrangements can be made for resolving such issues as expeditiously as possible.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: *July 21, 2010* */S/ R. Alan Burnett*

R. Alan Burnett
Reg. No. 46,149

4108 131st Ave SE
Bellevue, WA 98006

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(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	11735482
Filing Date	2007-04-15
First Named Inventor	Rohrabaugh
Art Unit	2176
Examiner Name	Tran, Quoc A.
Attorney Docket Number	005207.P001XC2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	Official USPTO Actions for Application Serial No. 09/878,097. (Entirety - pages not numbered)	
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	3	Official USPTO Actions for Application Serial No. 11/045,757. (Entirety - pages not numbered)	
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Electronic Patent Application Fee Transmittal

Application Number:	11735482
Filing Date:	15-Apr-2007
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	R. Burnett
Attorney Docket Number:	005207.P001XC2

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
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Pages:				
Claims:				
Claims in excess of 20	2202	7	26	182
Independent claims in excess of 3	2201	1	110	110
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

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			Total in USD ($)	**292**

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Application Number:	11735482
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First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
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Attorney Docket Number:	005207.P001XC2
Receipt Date:	21-JUL-2010
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Warnings:					
Information:					
2	NPL Documents	P001XC2_US_IDS_Form_SB_08b_supp3.pdf	325776 6406dcdc89a909ed7551abbd4632d57abc244f53	no	2
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	31913 42f8e8cc83cdaf82991a63475210a950084da6c0	no	2
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FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)		RATE ($)	FEE ($)
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☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 07/21/2010	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 125	Minus	** 118	= 7	X $26 =	182	OR	X $ =	
Independent (37 CFR 1.16(h))	* 4	Minus	***3	= 1	X $110 =	110	OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE	292	OR	TOTAL ADD'L FEE	

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))									
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/GYZELL P. JOHNSON/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	005207.P001XC2

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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If you wish to add additional U.S. Patent citation information please click the Add button.						Add

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					
If you wish to add additional U.S. Published Application citation information please click the Add button.						Add

FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐
If you wish to add additional Foreign Patent Document citation information please click the Add button							Add	

NON-PATENT LITERATURE DOCUMENTS			Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	005207.P001XC2

	1	Official USPTO Action for Application Serial No. 11/868,124 Mailed 8/24/2010 pp 1-15.	☐
	2	Defendant Apple Corporation Answer to Complaint (Revised), SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS	☐
	3	Defendant AT&T Corporation Answer to Complaint, SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS	☐
	4	SoftView LLC reply to Apple's Answer (Revised), SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS	☐
	5		☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	005207.P001XC2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/R. Alan Burnett/	Date (YYYY-MM-DD)	2010-09-09
Name/Print	R. Alan Burnett	Registration Number	46149

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	8385282
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	09-SEP-2010
Filing Date:	15-APR-2007
Time Stamp:	15:51:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	P001XC2_IDS_Form_SB_08a-9-9-10.pdf	612550 7587cad5527e0509dcac6f0559336f4c6cf45423	no	4

Warnings:
Information:

A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.

2	NPL Documents	11868124_1st_Office_Action.pdf	504199 7771440295cdcd4c6e3c415e5b0a81bea37c622a	no	17
Warnings:					
Information:					
3	NPL Documents	Apple_Answer-revised.pdf	409573 48c5ca8a54740b4c9320832089d55cf1e1eb103d	no	10
Warnings:					
Information:					
4	NPL Documents	ATT_Answer.pdf	422939 137d1c94c6d0db53b6d6a81fb1033fd8fbc4899e	no	10
Warnings:					
Information:					
5	NPL Documents	SoftView_Reply_to_Apple_Answer-revised.pdf	177583 9fb279c8f90739838a739a45108494df1a1c1fe1	no	5
Warnings:					
Information:					
		Total Files Size (in bytes):	2126844		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
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NOTICE OF ALLOWANCE AND FEE(S) DUE

59860 7590 10/04/2010

LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

EXAMINER	
TRAN, QUOC A	
ART UNIT	PAPER NUMBER
2176	

DATE MAILED: 10/04/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2	2111

TITLE OF INVENTION: RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$300	$0	$1055	01/04/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

59860 7590 10/04/2010

LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2	2111

TITLE OF INVENTION: RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$300	$0	$1055	01/04/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRAN, QUOC A	2176	715-200000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

❑ A check is enclosed.

❑ Payment by credit card. Form PTO-2038 is attached.

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2	2111

59860 7590 10/04/2010

LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

EXAMINER	
TRAN, QUOC A	
ART UNIT	PAPER NUMBER
2176	

DATE MAILED: 10/04/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 631 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 631 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	11/735,482	ROHRABAUGH ET AL.	
	Examiner	Art Unit	
	QUOC A. TRAN	2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *Applicant's amendments dated 07/21/2010 & Telephone interview dated 09/23/2010*.
2. ☒ The allowed claim(s) is/are *(see index of Claims listing for details)*.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *09/23/2010* .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/DOUG HUTTON/
Supervisory Patent Examiner, Art Unit 2176

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 05/23/2010;06/22/2010;07/21/2010 & 09/09/2010.

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	11/735,482	ROHRABAUGH ET AL.	
	Examiner	Art Unit	
	QUOC A. TRAN	2176	

All Participants:

(1) *QUOC A. TRAN (USPTO)*.

(2) *Allan Burnett (Attorney)*.

Status of Application: *Pending*

(3) _____.

(4) _____.

Date of Interview: *23 September 2010*

Time: *11AM*

Type of Interview:
☒ Telephonic
☐ Video Conference
☐ Personal (Copy given to: ☐ Applicant ☐ Applicant's representative)

Exhibit Shown or Demonstrated: ☐ Yes ☒ No
If Yes, provide a brief description: .

Part I.

Rejection(s) discussed:
No

Claims discussed:
1-2, 6-10, 12-13, 15-16, 18-19, 21-25, 27-31, 33-40, 42, 44-47, 49-50, 52-53, 55-56, 58-62, 64-68, 70-73, 75-80, 83-86, 88-92, 94-95, 97-101, 103-107, 109-112, & 116-143

Prior art documents discussed:
No

Part II.

SUBSTANCE OF INTERVIEW DESCRIBING THE GENERAL NATURE OF WHAT WAS DISCUSSED:
See Continuation Sheet

Part III.

☒ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview directly resulted in the allowance of the application. The examiner will provide a written summary of the substance of the interview in the Notice of Allowability.
☐ It is not necessary for applicant to provide a separate record of the substance of the interview, since the interview did not result in resolution of all issues. A brief summary by the examiner appears in Part II above.

/Quoc A. Tran/
Examiner, Art Unit 2176

(Applicant/Applicant's Representative Signature – if appropriate)

Continuation of Substance of Interview including description of the general nature of what was discussed: The Examiner is invited to contract the undersigned for any reason related to the advancement of this case. Applicant's Attorney agrees to the following: amending claims 1, 6-7, 12-13, 27, 30, 39, 42, 47, 64, 67, 77, 79, 88-89, 106, 119, 120, 122, 129 and 136 and cancelling claims 3-5,11,14,17,20,26,32,41,43,48,51,54,57,63,69,74,81-82,87,93,96,102,108,113-115. The claims have been amended in accordance with the substance of the telephone interview. Favorable consideration of the pending claims and passing them allowance is agreed upon. . .

DETAILED ACTION

In response to Amendments/Remarks filed 07/21/2010 and telephone interviewed on 09/23/2010, the examiner's amendment was authorized by attorney of record Allan Burnett, Attorney for Applicants. The current patent application originally filed 04/15/2007; which is a continuation of 09/878,097 now is US Patent 7,210,099 filed 06/08/2001 issued 04/24/2007, which is a continuation in part of ***09/828,511***, which Claims Priority from Provisional Application 60/211,019 filed ***06/12/2000***, which claims Priority from Provisional Application 60/217,345 filed 07/11/2000.

- Claims 1-2, 6-10, 12-13, 15-16, 18-19, 21-25, 27-31, 33-40, 42, 44-47, 49-50, 52-53, 55-56, 58-62, 64-68, 70-73, 75-80, 83-86, 88-92, 94-95, 97-101, 103-107, 109-112, & 116-143 are pending.
- ***Claims 1, 6-7, 12-13, 27, 30, 39, 42, 47, 64, 67, 77, 79, 88-89, 106, 119, 120, 122, 129 and 136 are currently amended***.

Information Disclosure Statement

At least one of the information disclosure statements filed on 05/23/2010; 06/22/2010; 07/21/2010 & 09/09/2010, do not fully comply with the requirements of 37 CFR 1.98(b) because the at least one of the listed publications identified as “non-patent literature documents” fails to identify at least one of the following, as required in 37 CFR 1.98(b)(5):

1. publisher;
2. author (if any);

3. title;
4. relevant pages of the publication;
5. publication date; and
6. place of publication.

Additionally, at least one of the listed publications in at least one of the information disclosure statements attempts to list **multiple** references in a **single** listing. This is not proper under 37 CFR. Each publication must be listed separately.

Also, at least one of the information disclosure statements fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited non-patent literature publication.

The IDS has been placed in the application file, but at least one of the listed references in the non-patent literature portion thereof has not been considered.

Lastly, regarding the Office Action listed as a "non-patent literature document," the examiner notes that the text contained in that document has been considered and found to be non-evidentiary opinion regarding claims which are not under consideration in the present application.

The information disclosure statements have been placed in the application file, but those portions that do not comply with 37 CFR have not been considered.

Applicant is advised that the date of any re-submission of any item of information contained in this Information Disclosure Statement or the submission of any missing elements will be the date of submission for purposes of determining compliance with the

requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

EXAMINER'S AMENDMENT

The application has been amended as follows:

- Please replace the claims with the following claim set:

In the Claims

1. (Currently Amended) A method comprising:

in response to a request to access a Web page made via a ~~client~~ wireless hand-held device including a display,

retrieving markup language-based Web content associated with the Web page having an original format defining an original page layout of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

processing, via the ~~client~~ wireless hand-held device, the markup language-based Web content with a rendering engine to generate page layout information corresponding to the original page layout of content on the Web page as interpreted by the rendering engine including a width of the Web page;

employing the page layout information to generate scalable page layout information; and

employing scalable page layout information and/or data derived therefrom to generate views of the Web page on [[a]] the display, including,

a view under which the width of the Web page is fully displayed; and

views of the Web page generated in response to associated user inputs to enable a user to iteratively zoom in ~~and out a display of~~ on a portion of the Web

page while preserving the original page layout, functionality, and design of the content on the Web page defined by the markup language-based Web content,

wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

2. (Previously Presented) The method of claim 1, wherein re-rendering views of the Web page is performed in real-time.

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Currently Amended) The method of claim 1, wherein the ~~client~~ display of the wireless hand-held device comprises ~~a mobile device having~~ a touch-sensitive display ~~on which the Web page is displayed when rendered~~ configured to receive user inputs to control display of the Web page.

7. (Currently Amended) The method of claim 1, further comprising:

enabling the user to select a hyperlink; and, in response thereto,

retrieving and processing markup language-based Web content associated with the hyperlink to produce additional scalable page layout information; and

employing the additional scalable ~~scaling additional~~ page layout information and/or data derived therefrom to generate a view of the Web content associated with the hyperlink.

8. (Previously Presented) The method of claim 1, further comprising:

parsing and processing markup language code with the rendering engine to determine the original page layout of display content within the Web page as interpreted by the rendering engine, wherein the original page layout defines a layout location for a plurality of objects, including text objects associated with the text content and image objects associated with the plurality of images included in the Web page; and

for each object,

defining an object datum corresponding to the layout location for the object on the original page layout; and

associating the object and its object datum.

9. (Previously Presented) The method of claim 8, further comprising translating at least one image object from an original format into a scalable format.

10. (Previously Presented) The method of claim 8, further comprising:

associating attribute information including a color and typefont for each text object; and

employing the attribute information to render text content corresponding to text objects shown in views of the Web page.

11. (Canceled)

12. (Currently Amended) The method of claim 1, further comprising enabling the Web content to be displayed at different resolutions by scaling ~~the~~ scalable page layout information to determine corresponding layout locations for the Web content on at least a portion of a scaled Web page for each of a plurality of scale factors.

13. (Previously Presented) The method of claim 1, further comprising:

enabling a user of the ~~client~~ wireless hand-held device to select an area of the display to zoom in on via the ~~client~~ display; and

in response thereto,

re-rendering the display such that content in the area that is selected is enlarged.

14. (Canceled)

15. (Previously Presented) The method of claim 1, further comprising enabling a user to pan views of the Web page in response to a corresponding user input.

16. (Previously Presented) The method of claim 15, further comprising enabling the views of the Web page to be panned in real-time.

17. (Canceled)

18. (Previously Presented) The method of claim 1, further comprising enabling a user to zoom on a column of the Web content via an associated user input, wherein in response to the user input, the display is re-rendered such that content corresponding to the selected column is displayed across the display.

19. (Original) The method of claim 18, wherein the user input comprises tapping the column.

20. (Canceled)

21. (Previously Presented) The method of claim 1, further comprising enabling a user to zoom on an image via an associated user input, wherein in response to the user input, the view is re-rendered such that the image is displayed to fit across a width of the display.

22. (Original) The method of claim 21, wherein the user input comprises tapping the image.

23. (Previously Presented) The method of claim 1, further comprising enabling a user to zoom on a paragraph of the Web content via an associated user input, wherein in response to the user input, the view is re-rendered such that content corresponding to the selected paragraph is displayed to fit across the display.

24. (Original) The method of claim 23, wherein the user input comprises tapping the paragraph.

25. (Previously Presented) The method of claim 23, wherein the content of the paragraph is reformatted when the view is re-rendered.

26. (Canceled)

27. (Currently Amended) The method of claim 1, further comprising:

generating a display list derived, at least in part, via use of the scalable page layout information; and

employing the display list to generate views of the Web page.

28. (Previously Presented) The method of claim 1, further comprising:

parsing and processing, with the rendering engine, markup language code corresponding to the received Web content to determine page layout information corresponding to an original page layout of the content on the Web page as interpreted by the rendering engine, the content including a plurality of objects comprising text objects associated with the text content and image objects associated with the plurality

of images, wherein for each object the layout information includes object layout information identifying a coordinate location of the object on the page layout; and

associating each object and its object layout information.

29. (Previously Presented) The method of claim 28 further comprising:

generating page layout information including an object bounding box for each object.

30. (Currently Amended) The method of claim 28, further comprising:

for each of the plurality of objects,

mapping the coordinate location associated with the object layout information for the object to a corresponding object datum coordinate on a virtual display area employing a resolution-independent coordinate system.

31. (Previously Presented) The method of claim 30, further comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan position corresponding to a view of the Web content desired by a user;

determining a virtual display bounding box for the virtual display area associated with the first scale factor and offset;

identifying objects having at least a portion falling within the virtual display bounding box; and

rendering a view of the Web page corresponding to the zoom level and pan position on the display including the at least a portion of the objects falling within the virtual display bounding box.

32. (Canceled)

33. (Previously Presented) The method of claim 30, wherein the virtual display area is associated with a fixed reference frame.

34. (Previously Presented) The method of claim 1, wherein the content includes a plurality of text objects having associated text content, the method further comprising:

for at least a portion of the plurality of text objects,

scaling a scalable font to render the text content associated with the text object.

35. (Previously Presented) The method of claim 1, wherein the content includes a plurality of text objects having associated text content, the method further comprising:

for at least a portion of the plurality of text objects,

determining an applicable font size based on an applicable scale factor associated with a zoom level; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content associated with the text object.

36. (Original) The method of claim 1, further comprising reformatting a text object so as to fit the text object on the display when it is rendered.

37. (Previously Presented) The method of claim 1, further comprising:

generating a view under which the width of the Web page is fit across the display.

38. (Previously Presented) The method of claim 1, wherein in a view at least one image is scaled.

39. (Currently Amended) An apparatus <u>comprising a hand-held mobile device</u>, ~~comprising~~ <u>including</u>:

a processor,

a communications device operatively coupled to the processor, to enable the apparatus to be wirelessly linked to a network to access Web content;

a display; and

storage means, operatively coupled to the processor, in which a plurality of instructions, including instructions corresponding to a browser having a rendering engine and instructions corresponding to an operating system, are stored that when executed by the processor enable the apparatus to perform operations including,

in response to a request to access a Web page made via a user of the apparatus,

retrieving markup language-based Web content associated with the Web page having an original format defining an original page layout, functionality and design of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

processing the markup language-based Web content with the rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine including a width of the Web page; and

employing scaled page layout information and/or data derived therefrom to generate views of the Web page on a display, including,

a view under which the width of the Web page is fit across the display; and

views of the Web page generated in response to associated user inputs to enable a user to ~~view~~ iteratively zoom in on a portion of the Web page ~~at multiple zoom levels~~ while preserving the original page layout,

functionality, and design of the content on the Web page defined by the markup language-based Web content,

wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

40. (Previously Presented) The apparatus of claim 39, wherein zooming views of the Web content is enabled to be performed in real-time.

41. (Canceled)

42. (Currently Amended) The apparatus of claim [[41]] 39, wherein the hand-held mobile device comprises a mobile phone.

43. (Canceled)

44. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

enabling the user to select a hyperlink; and, in response thereto,

retrieving and processing the markup language-based Web content associated with the hyperlink to produce additional layout information; and

employing the additional page layout information and/or data derived therefrom to generate a view of the Web content associated with the hyperlink.

45. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

parsing and processing markup language code with the rendering engine to determine the original page layout of display content within the Web page as interpreted by the rendering engine, wherein the original page layout defines a layout location for a

plurality of objects, including text objects associated with the text content and image objects associated with the plurality of images included in the Web page; and

for each object,

defining an object datum corresponding to the layout location for the object on the original page layout; and

associating the object and its object datum.

46. (Previously Presented) The apparatus of claim 45, wherein execution of the instructions performs further operations comprising translating at least one image object from an original format into a scalable format.

47. (Currently Amended) The apparatus of claim 45, wherein execution of the instructions performs further operations comprising:

associating attribute information including a color and typefont for each text object; and

employing the attribute information to render text content corresponding to text objects shown in views of the Web page.

48. (Canceled)

49. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling the Web content to be displayed at different resolutions by scaling the page layout information to determine corresponding layout locations for the Web content on at least a portion of a scaled Web page for each of a plurality of scale factors.

50. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

enabling a user of the apparatus to select an area of a view to zoom in on via the apparatus; and

in response thereto,

regenerating the view such that content in the area that is selected is enlarged.

51. (Canceled)

52. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to pan a view of the Web content in response to a corresponding user input.

53. (Previously Presented) The apparatus of claim 52, wherein execution of the instructions performs further operations comprising enabling the view of the Web content to be panned in real-time.

54. (Canceled)

55. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to zoom on a column of the Web content via an associated user input, wherein in response to the user input, the view is re-rendered such that content corresponding to the selected column is displayed across the display.

56. (Original) The apparatus of claim 55, wherein the user input comprises tapping the column.

57. (Canceled)

58. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to zoom on an image via an associated user input, wherein in response to the user input, the display is re-rendered such that the image is displayed to fit across a width of the display.

59. (Original) The apparatus of claim 58, wherein the user input comprises tapping the image.

60. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising enabling a user to zoom on a paragraph of the Web content via an associated user input, wherein in response to the user input, the view is re-rendered such that content corresponding to the selected paragraph is displayed across the display.

61. (Original) The apparatus of claim 60, wherein the user input comprises tapping the paragraph.

62. (Previously Presented) The apparatus of claim 60, wherein the content of the paragraph is reformatted when the view is re-rendered.

63. (Canceled)

64. (Currently Amended) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

generating a display list derived, at least in part, via use of the scalable page layout information; and

employing the display list to generate views of the Web page.

65. (Previously Presented) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising:

parsing and processing, with the rendering engine, markup language code corresponding to the received Web content to determine page layout information corresponding to an original page layout of the content on the Web page as interpreted by the rendering engine, the content including a plurality of objects comprising text objects associated with the text content and image objects associated with the plurality of images, wherein for each object the layout information includes object layout information identifying a coordinate location of the object on the page layout; and

associating each object and its object layout information.

66. (Previously Presented) The apparatus of claim 65 wherein execution of the instructions performs further operations comprising:

generating page layout information including an object bounding box for each object, the object bounding box representing a portion of the page layout occupied by the object's associated content.

67. (Currently Amended) The apparatus of claim 65, wherein execution of the instructions performs further operations comprising:

for each of the plurality of objects,

mapping the coordinate location associated with the object layout information for the object to a corresponding object datum coordinate on a virtual display area employing a resolution-independent coordinate system.

68. (Previously Presented) The apparatus of claim 67, wherein execution of the instructions performs further operations comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan position corresponding to a view of the Web content desired by a user;

determining a virtual display bounding box for the virtual display area associated with the first scale factor and offset;

identifying objects having at least a portion falling within the virtual display bounding box; and

rendering a view of the Web page corresponding to the zoom level and pan position on the display including the at least a portion of the objects falling within the virtual display bounding box.

69. (Canceled)

70. (Previously Presented) The apparatus of claim 67, wherein the virtual display area is associated with a fixed reference frame.

71. (Previously Presented) The apparatus of claim 39, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

scaling a scalable font to render the text content associated with the text object.

72. (Previously Presented) The apparatus of claim 39, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

determining an applicable font size based on an applicable scale factor associated with a zoom level; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content associated with the text object.

73. (Original) The apparatus of claim 39, wherein execution of the instructions performs further operations comprising reformatting a text object so as to fit the text object on the display when it is rendered.

74. (Canceled)

75. (Previously Presented) The apparatus of claim 39, wherein the Web page includes text content and graphic layout objects, and views are generated through use of scaled text content and graphic layout objects.

76. (Previously Presented) The apparatus of claim 39, wherein in a generated view at least one image from is scaled.

77. (Currently Amended) The apparatus of claim 39, wherein the display comprises a touch-sensitive display ~~via which~~ configured to receive user inputs ~~may be received~~ to control display of the Web page.

78. (Previously Presented) The apparatus of claim 39, wherein the storage means comprises a flash memory.

79. (Currently Amended) A tangible non-transitory machine-readable medium having stored thereon a plurality of instructions comprising a browser including a rendering engine configured to be executed by a ~~machine~~ wireless hand-held device having a display and an operating system and configured to access Web content via a network,

wherein execution of the instructions in conjunction with execution of the operating system enables the machine to perform operations comprising:

in response to a request to access a Web page made via a user of the machine,

retrieving markup language-based Web content associated with the Web page having an original format defining an original page layout, functionality and design of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

processing the markup language-based Web content with the rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine including a width of the Web page; [[and]]

employing the page layout information to generate scalable page layout information; and

employing ~~scaled~~ the scalable page layout information and/or data derived therefrom to generate views of the Web page on the display, including,

a view under which the width of the Web page is fully displayed; and

views of the Web page generated in response to associated user inputs to enable a user to iteratively zoom in on ~~view~~ a portion of the Web page ~~at multiple zoom levels~~ while preserving the original page layout, functionality, and design of the content on the Web page defined by the markup language-based Web content,

wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

80. (Previously Presented) The machine-readable medium of claim 79, wherein zooming the views of the Web content is enabled to be performed in real-time.

81. (Canceled)

82. (Canceled)

83. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

enabling a user to select a hyperlink; and, in response thereto,

retrieving and processing the markup language-based Web content associated with the hyperlink to produce additional scalable page layout information; and

employing the additional scalable-page layout information and/or data derived therefrom to generate a view of the Web content associated with the hyperlink.

84. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

parsing and processing markup language code with the rendering engine to determine the original page layout of display content within the Web page as interpreted by the rendering engine, wherein the original page layout defines a layout location for a plurality of objects, including text objects associated with the text content and image objects associated with the plurality of images included in the Web page; and

for each object,

defining an object datum corresponding to the layout location for the object on the original page layout; and

associating the object and its object datum.

85. (Previously Presented) The machine-readable medium of claim 84, wherein execution of the instructions performs further operations comprising translating at least one image object from an original format into a scalable format.

86. (Original) The machine-readable medium of claim 84, wherein execution of the instructions performs further operations comprising:

associating attribute information including a color and typefont for each text object; and

employing the attribute information to render text content corresponding to text objects shown in views of the Web page.

87. (Canceled)

88. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling the Web content to be displayed at different resolutions by scaling the scalable page layout information to determine corresponding layout locations for the Web content on at least a portion of a scaled Web page for each of a plurality of scale factors.

89. (Currently Amended) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

enabling a user of the ~~client~~ wireless hand-held device to select an object of the display to zoom in on via the ~~client~~ display; and

in response thereto,

re-rendering the display such that content associated with the object is rendered to fit across a width of the display.

90. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising scaling the scalable page layout information and/or data derived therefrom to regenerate views of the Web content in response to associated user inputs to enable the user to iteratively zoom in and out a display of the Web page.

91. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to pan a view of the Web page in response to a corresponding user input.

92. (Previously Presented) The machine-readable medium of claim 91, wherein execution of the instructions performs further operations comprising enabling the view of the Web page to be panned in real-time.

93. (Canceled)

94. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to zoom on a column of the Web content via an associated user input, wherein in response to the user input, the view is re-rendered such that content corresponding to the selected column is displayed across the display.

95. (Original) The machine-readable medium of claim 94, wherein the user input comprises tapping the column.

96. (Canceled)

97. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to

zoom on an image, wherein in response to the user input, the view is re-rendered such that the image is displayed to fit across at least one of a width and height of the display.

98. (Original) The machine-readable medium of claim 97, wherein the user input comprises tapping the image.

99. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising enabling a user to zoom on a paragraph of the Web content via an associated user input, wherein in response to the user input, the view is re-rendered such that content corresponding to the selected paragraph is displayed across the display.

100. (Original) The machine-readable medium of claim 99, wherein the user input comprises tapping the paragraph.

101. (Previously Presented) The machine-readable medium of claim 99, wherein the content of the paragraph is reformatted when the view is re-rendered.

102. (Canceled)

103. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

generating a display list; and

employing the display list to generate views of the Web page.

104. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

parsing and processing, with the rendering engine, markup language code corresponding to the received Web content to determine page layout information

corresponding to an original page layout of the content on the Web page as interpreted by the rendering engine, the content including a plurality of objects comprising text objects associated with the text content and image objects associated with the plurality of images, wherein for each object the layout information includes object layout information identifying a coordinate location of the object on the page layout; and

associating each object and its object layout information.

105. (Previously Presented) The machine-readable medium of claim 104 wherein execution of the instructions performs further operations comprising:

generating page layout information including an object bounding box for each object, the object bounding box representing a portion of the page layout occupied by the object's associated content.

106. (Currently Amended) The machine-readable medium of claim 104, wherein execution of the instructions performs further operations comprising:

for each of the plurality of objects,

mapping the coordinate location associated with the object layout information for the object to a corresponding object datum coordinate on a virtual display area employing a resolution-independent coordinate system.

107. (Previously Presented) The machine-readable medium of claim 106, wherein execution of the instructions performs further operations comprising:

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and pan position corresponding to a view of the Web content desired by a user;

determining a virtual display bounding box for the virtual display area associated with the first scale factor and offset;

identifying objects having at least a portion falling within the virtual display bounding box; and

applying an applicable scale factor to the object's content to render a view corresponding to the zoom level and pan position on the display.

108. (Canceled)

109. (Previously Presented) The machine-readable medium of claim 106, wherein the virtual display area is associated with a fixed reference frame.

110. (Previously Presented) The machine-readable medium of claim 79, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

scaling a scalable font to render the text content associated with the text object.

111. (Previously Presented) The machine-readable medium of claim 79, wherein the content includes a plurality of text objects having associated text content, and wherein execution of the instructions performs further operations comprising:

for at least a portion of the plurality of text objects,

determining an applicable font size based on an applicable scale factor associated with a zoom level; and

selecting a corresponding bitmapped font and employing the bitmapped font to render the text content associated with the text object.

112. (Original) The machine-readable medium of claim 79, wherein at least a portion of the instructions comprise Java-based instructions configured to be executed on a Java virtual machine.

113. (Canceled)

114. (Canceled)

115. (Canceled)

116. (Previously Presented) The machine-readable medium of claim 79, wherein execution of the instructions performs further operations comprising:

generating a view under which the width of the Web page is fit across the display.

117. (Previously Presented) The machine-readable medium of claim 79, wherein the Web page includes text content and graphic layout objects, and in generated views the text content and graphic layout objects are scaled.

118. (Previously Presented) The machine-readable medium of claim 79, wherein at least one view at least one image is scaled.

119. (Currently Amended) The method of claim 1, further comprising maintaining at least one instance of the page layout information in a manner that is independent of [[the]] zoom levels used to view the web page.

120. (Currently Amended) The method of claim 1, wherein the scalable page layout information comprises scalable vector-based page layout information ~~further comprising:~~

~~employing the page layout information to produce scalable vector-based page layout information; and~~

~~scaling the scalable vector-based page layout information to effect scaling of the page layout information~~.

121. (Previously Presented) The method of claim 120, wherein scaling operations are effected by applying a mathematical transformation to a plurality of points in a two-dimensional coordinate system comprising X and Y axes, including points comprising datum points having corresponding vectors included in the scalable vector-based page layout information defining page layout locations of corresponding text and image objects mapped to the two-dimensional coordinate system, wherein the mathematical transformation comprises,

$$X' = X * SF;$$

$$Y' = Y * SF;$$

wherein X, Y is the location of a point prior to transformation, X', Y' is the location of the point after transformation, and SF is the scale factor.

122. (Currently Amended) The method of claim 121, wherein the mathematical transformation is applied to points in a first coordinate system comprising a resolution independent coordinate system associated with a virtual display area onto which page layout information is mapped to a second coordinate system comprising a device coordinate system corresponding to a pixel resolution of the display ~~of the client~~, wherein points are mapped from the first coordinate system to the second coordinate system using the mathematical transformation.

123. (Previously Presented) The method of claim 8, further comprising effecting a zoom operation by,

for each of a plurality of objects to be included in a zoomed view of the Web page to be rendered on the display,

scaling page layout information associated with the object using a scale factor corresponding to a zoom level associated with the zoom operation to determine a scaled datum; and

scaling content associated with the object using the scale factor and rendering the scaled content at a location corresponding to the scaled datum.

124. (Previously Presented) The method of claim 123, further comprising effecting a zoom operation combined with a pan operation by,

determining an offset corresponding to the pan operation; and

employing the offset to at least a portion of the content that has been scaled and rendered to produce a view of the web page on the display.

125. (Previously Presented) The method of claim 123, wherein rendering scaled content associated with a text object comprises:

employing presentation attributes for the text object, the presentation attributes including a font typeface, size and color;

employing a scalable font associated with the font typeface to render text associated with the text object in a color associated with the color attribute, wherein the text is rendered by the operating system relative to a location associated with the scaled datum for the text object, and wherein the scale applied to the scalable font is a function of at least one of the scale factor and the font size.

126. (Previously Presented) The method of claim 1, wherein the markup language-based Web content includes cascading style sheet content defining layout and presentation attributes for the Web page.

127. (Previously Presented) The method of claim 1, wherein the markup language-based Web content comprises HTML-based Web content that is processed by the rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine.

128. (Previously Presented) The apparatus of claim 39, wherein the markup language-based Web content comprises HTML-based Web content that is processed by the rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine.

129. (Currently Amended) The apparatus of claim [[41]] 39, wherein the network comprises a mobile service provider network and the hand-held mobile device comprises a mobile phone.

130. (Previously Presented) The method of claim 1, wherein the Web page content includes a plurality of images, the method further comprising:

generating page layout information including a bounding box for each of the plurality of images;

scaling the bounding box associated with an image to produce a scaled bounding box; and

rendering bitmap content associated with the image to fit within the scaled bounding box.

131. (Previously Presented) The method of claim 1, wherein text content in a view is rendered to have a resolution that is approximately proportional to the zoom level of the view, such that as the zoom level increases the resolution of text content increases approximately proportionally.

132. (Previously Presented) The apparatus of claim 39, wherein text content in a view is rendered to have a resolution that is approximately proportional to the zoom level of the view, such that as the zoom level increases the resolution of text content increases approximately proportionally.

133. (Previously Presented) The machine-readable medium of claim 79, wherein text content in a view is rendered to have a resolution that is approximately proportional to the zoom level of the view, such that as the zoom level increases the resolution of text content increases approximately proportionally.

134. (Previously Presented) The method of claim 1, wherein the layout of content for views associated with a zoom level is effected by scaling page layout information using a scale factor associated with the zoom level.

135. (Previously Presented) The apparatus of claim 39, wherein the layout of content for views associated with a zoom level is effected by scaling page layout information using a scale factor associated with the zoom level.

136. (Currently Amended) A method comprising:

in response to a request to access a Web page made via a mobile hand-held device,

retrieving HTML-based Web content associated with the Web page having an original format defining an original page layout, functionality, and design of content on the Web page, the content including text content, a plurality of hyperlinks, and a plurality of images;

processing the HTML-based Web content with a rendering engine to generate page layout information corresponding to the original page layout as interpreted by the rendering engine;

employing scaled page layout information and/or data derived therefrom to generate scaled Web page content at multiple scale factors; and

employing the scaled Web page content to enable a user to browse the Web page at multiple zoom levels on the mobile hand-held device while preserving the original page layout, functionality, and design of the content on the Web page defined by the HTML-based Web content as interpreted by the rendering engine,

wherein preservation of the functionality includes preservation of hyperlink functionality, and wherein the user is enabled to iterative zoom in on a portion of the Web page.

137. (Previously Presented) The method of claim 136, wherein the page layout information that is generated includes a bounding box for each of the plurality of images, and wherein a scaled Web page content including one or more images is generated by scaling bounding boxes corresponding to the one or more images to produce scaled bounding boxes and, for each of the one or more images, scaling content associated with the image to produce a scaled image that fits within its corresponding scaled bounding box.

138. (Previously Presented) The method of claim 136, further comprising:

processing the HTML-based Web content with the rendering engine to parse the text content into a plurality of text objects;

generating page layout information including a bounding box for each of the plurality of text objects; and

employing page layout information associated with the bounding boxes to effect preservation of the original page layout of the text content.

139. (Previously Presented) The method of claim 138, further comprising:

scaling bounding boxes for text objects corresponding to text content in a view; and

employing the scaled bounding boxes to lay out corresponding text content within the scaled bounding boxes.

140. (Previously Presented) The method of claim 139, further comprising:

employing a scalable font to scale text content for a text object to fit within a scaled bounding box.

141. (Previously Presented) The method of claim 139, further comprising:

in conjunction with rendering a view of the Web page content,

employing the bounding boxes and/or data derived therefrom to determine image and text objects to be rendered.

142. (Previously Presented) The method of claim 136, further comprising:

in response to a user input to pan a current view of the Web page to a new view displaying a portion of the Web page that is entirely not shown in the current view,

generating scaled Web page content in real-time.

143. (Previously Presented) The method of claim 142, wherein the scaled Web page content is generated in a fraction of a second.

Allowable Subject Matter

Claims 1-2, 6-10, 12-13, 15-16, 18-19, 21-25, 27-31, 33-40, 42, 44-47, 49-50, 52-53, 55-56, 58-62, 64-68, 70-73, 75-80, 83-86, 88-92, 94-95, 97-101, 103-107, 109-112, & 116-143, are allowed.

The following is a statement of reasons for the indication of allowable subject matter: Under the broadest reasonable interpretation of the claimed limitation consistence with the Applicant's Specification, the claimed invention advantageously provides a method and device for creating resolution-independent vector display of Intemet content to allow it to be scaled (zoomed) larger and smaller for better viewing or to fit any resolution or screen size, which are designed for a WIRELESS HAND-HELD DEVICE.

In particular, the claimed invention takes **a web page**; wherein the web content in its original page layout of the web page and *translates* the HTML-based Web content into “scalable content” that supports a scalable of the HTML-based Web content that for enabling Web pages in their ***original HTML-based content form to be accessed via*** WIRELESS HAND-HELD DEVICE; enable a user to ***iteratively zoom in on a portion of the Web page while preserving the original page layout***, functionality, and design of the content on the Web page defined by the markup language-based Web content, wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is 571-272-8664. The examiner can normally be reached on Mon through Fri 8AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on (571)272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Quoc A. Tran/
Examiner, Art Unit 2176

/DOUG HUTTON/
Supervisory Patent Examiner, Art Unit 2176

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	Art Unit
	Quoc A Tran	2176

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/24/2010	09/26/2010							
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28	34	=	=							
29	35	=	=							
30	36	=	=							

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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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CLAIM		DATE								
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97	105	✓	=							
98	106	✓	=							
99	107	✓	=							
	108	✓	-							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	**Art Unit**
	Quoc A Tran	2176

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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CLAIM		DATE								
Final	Original	04/24/2010	09/26/2010							
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113	141		=							
114	142		=							
115	143		=							

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21 SVG rendering of real images using data dependent triangulation

Sebastiano Battiato, Giovanni Gallo, Giuseppe Messina

April 2004 **SCCG '04:** Proceedings of the 20th spring conference on Computer graphics

Publisher: ACM

Full text available: Pdf (5.09 MB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Downloads (Overall): 539, Citation Count: 4

This paper presents a novel technique to convert raster images in a Scalable Vector Graphic (SVG) format using Data Dependent Triangulation (DDT). The triangulation, a classical 3D graphic rendering approach, is here applied to digital images acquired ...

Keywords: SVG, data dependent triangulation, imaging devices

22 Proceeding of the 16th ACM international conference on Multimedia

Abdulmotaleb El Saddik, Son Vuong, Carsten Griwodz, Alberto Del Bimbo, K. Selcuk Candan, Alejandro Jaimes

October 2008 **MM '08:** Proceeding of the 16th ACM international conference on Multimedia

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Welcome to the sixteenth ACM International Conference on Multimedia (ACM MM 2008), held October 27-31, 2008 at the Pan Pacific Hotel in Vancouver, BC, Canada. Vancouver, situated on Canada's east coast, enjoys a milder climate than much of Canada. As ...

23 Communications of the ACM: Volume 52 Issue 1

January 2009 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (7.72 MB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 218, Downloads (12 Months): 218, Downloads (Overall): 1195, Citation Count: 0

24 Communications of the ACM: Volume 53 Issue 8

August 2010 Communications of the ACM

Publisher: ACM

Full text available: Digital Edition, Pdf (14.13 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 9497, Downloads (12 Months): 9497, Downloads (Overall): 9497, Citation Count: 0

25 Color in image and video processing: most recent trends and future research directions

Alain Trémeau, Shoji Tominaga, Konstantinos N. Plataniotis

January 2008 **Journal on Image and Video Processing** , Volume 2008

Publisher: Hindawi Publishing Corp.

Full text available: Pdf (766.30 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 406, Downloads (Overall): 718, Citation Count: 0

The motivation of this paper is to provide an overview of the most recent trends and of the future research directions in color image and video processing. Rather than covering all aspects of the domain this survey covers issues related to the most active ...

26 Survey and analysis of multimodal sensor planning and integration for wide area surveillance

Besma R. Abidi, Nash R. Aragam, Yi Yao, Mongi A. Abidi

December 2008 **Computing Surveys (CSUR)** , Volume 41 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (1.86 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 112, Downloads (12 Months): 978, Downloads (Overall): 1958, Citation Count: 1

Although sensor planning in computer vision has been a subject of research for over two decades, a vast majority of the research seems to concentrate on two particular applications in a rather limited context of laboratory and industrial workbenches, ...

Keywords: Sensor planning, cooperative sensing, multimodal sensing, persistent surveillance, threat object recognition, ubiquitous surveillance, wireless sensor network

27 Cumulvs: Interacting with High-Performance Scientific Simulations, for Visualization, Steering and Fault Tolerance

James A. Kohl, Torsten Wilde, David E. Bernholdt

May 2006 **International Journal of High Performance Computing Applications** , Volume 20 Issue 2

Publisher: Sage Publications, Inc.

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

High-performance computer simulations are an increasingly popular alternative or complement to physical experiments or prototypes. However, as these simulations grow more massive and complex, it becomes challenging to monitor and control their execution. ...

Keywords: CCA, CUMULVS, ECho, Global Arrays, MPI, MxN, PVM, computational steering, fault tolerance, model coupling, visualization

28 Visual search in dynamic 3D visualisations of unstructured picture collections

Olivier Christmann, Noëlle Carbonell, Simon Richir

September 2010 **Interacting with Computers** , Volume 22 Issue 5

Publisher: Elsevier Science Inc.

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

We present two empirical studies of visual search in dynamic 3D visualisations of large, randomly ordered, photo collections. The aim is to assess the possible effects of geometrical distortions on visual search effectiveness, efficiency and comfort, ...

Keywords: Ergonomic evaluation, Interaction metaphors, Interactive 3D visualisations, Picture browsers, Usability, Visual search

29 iVIBRATE: Interactive visualization-based framework for clustering large datasets

Keke Chen, Ling Liu
April 2006 **Transactions on Information Systems (TOIS)** , Volume 24 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (4.48 MB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 96, Downloads (Overall): 819, Citation Count: 2

With continued advances in communication network technology and sensing technology, there is astounding growth in the amount of data produced and made available through cyberspace. Efficient and high-quality clustering of large datasets continues to ...

Keywords: Clustering, interactive visualization, labeling, large datasets, performance

30 Middleware for streaming 3D progressive meshes over lossy networks

H. Li, M. Li, S. Prabhakaran
November 2006 **Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)** , Volume 2 Issue 4
Publisher: ACM Request Permissions
Full text available: Pdf (1.16 MB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 59, Downloads (Overall): 456, Citation Count: 7

Streaming 3D graphics have been widely used in multimedia applications such as online gaming and virtual reality. However, a gap exists between the zero-loss-tolerance of the existing compression schemes and the lossy network transmissions. In this article, ...

Keywords: 3D streaming, progressive compression

31 Technical Section: CGV-An interactive graph visualization system

Christian Tominski, James Abello, Heidrun Schumann
December 2009 **Computers and Graphics** , Volume 33 Issue 6
Publisher: Pergamon Press, Inc.
Additional Information: full citation, abstract, references
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

Previous work on graph visualization has yielded a wealth of efficient graph analysis algorithms and expressive visual mappings. To support the visual exploration of graph structures, a high degree of interactivity is required as well. We present a fully ...

Keywords: 68U05, 68U35, Graph visualization, Interaction, Multiple coordinated views

32 A Multiuser Multiperspective Stereographic QTVR Browser Complemented by Java3D Visualizer and Emulator

Michael Cohen, Noor Alamshah Bolhassan, Owen Noel Newton Fernando
August 2007 **Presence: Teleoperators and Virtual Environments** , Volume 16 Issue 4
Publisher: MIT Press
Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

To support multiperspective and stereographic image display systems intended for multiuser applications, we have developed two integrated multiuser multiperspective stereographic browsers, respectively featuring IBR-generated egocentric and CG exocentric ...

33 GUESS: a language and interface for graph exploration

Eytan Adar

April 2006 **CHI '06:** Proceedings of the SIGCHI conference on Human Factors in computing systems

Publisher: ACM Request Permissions

Full text available: Pdf (1.05 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 127, Downloads (Overall): 775, Citation Count: 12

As graph models are applied to more widely varying fields, researchers struggle with tools for exploring and analyzing these structures. We describe GUESS, a novel system for graph exploration that combines an interpreted language with a graphical front ...

Keywords: domain-specific embedded language, graph layout, graph visualization

34 NewsStand: a new view on news

Benjamin E. Teitler, Michael D. Lieberman, Daniele Panozzo, Jagan Sankaranarayanan, Hanan Samet, Jon Sperling

November 2008 **GIS '08:** Proceedings of the 16th ACM SIGSPATIAL international conference on Advances in geographic information systems

Publisher: ACM Request Permissions

Full text available: Pdf (357.50 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 114, Downloads (Overall): 286, Citation Count: 5

News articles contain a wealth of implicit geographic content that if exposed to readers improves understanding of today's news. However, most articles are not explicitly geotagged with their geographic content, and few news aggregation systems expose ...

Keywords: clustering, geotagging, knowledge discovery, text mining

35 Locawe: a novel platform for location-aware multimedia services

Mika Luimula, Kari Kuutti

December 2008 **MUM '08:** Proceedings of the 7th International Conference on Mobile and Ubiquitous Multimedia

Publisher: ACM Request Permissions

Full text available: Pdf (1.46 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 96, Downloads (Overall): 142, Citation Count: 3

In this paper we present a suggestion for a next generation mobile GIS architecture. The proposed architecture enables to use GIS data also in mobile devices and to handle information received from local sensors. The architecture has been used to design ...

Keywords: location-awareness, ubiquitous computing, wireless sensor networks

36 ACM Transactions on Graphics (TOG): Volume 27 Issue 3

August 2008 Transactions on Graphics (TOG)

Publisher: ACM

Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

I have often been asked for suggestions on how to manage one's time at SIGGRAPH, given that there are always so many things going on at once. My answer is always the same. I prefer to immerse myself in as many technical papers sessions as possible ...

37 Visualization of large spatial data in networking environments

Liqiang Zhang, Chongjun Yang, Xiaohua Tong, Xiaoping Rui

September 2007 **Computers & Geosciences** , Volume 33 Issue 9

Publisher: Pergamon Press, Inc.

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Rendering and interacting with high-resolution geographical data sets and complex models have become integral parts in a 3D GIS, in particular, in a web-based 3D GIS. Due to large data sets and narrow network bandwidth, general-purpose GIS can no longer ...

Keywords: 3D GIS, Client/server, Data models, Interactive visualization, Progressive data transfer

38 An a posteriori error estimator for adaptive mesh refinement using parallel in-element particle tracking methods

Jing-Ru C. Cheng, Paul E. Plassmann

June 2002 **VECPAR'02:** Proceedings of the 5th international conference on High performance computing for computational science

Publisher: Springer-Verlag

Full text available: Pdf (588.59 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 1, Downloads (Overall): 1, Citation Count: 0

Particle tracking methods are a versatile computational technique central to the simulation of a wide range of scientific applications. In this paper we present an a posteriori error estimator for adaptive mesh refinement (AMR) using particle tracking ...

39 Visualizing attack graphs, reachability, and trust relationships with NAVIGATOR

Matthew Chu, Kyle Ingols, Richard Lippmann, Seth Webster, Stephen Boyer

September 2010 **VizSec '10:** Proceedings of the Seventh International Symposium on Visualization for Cyber Security

Publisher: ACM

Full text available: Pdf (1.02 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 7, Downloads (Overall): 7, Citation Count: 0

A new tool named NAVIGATOR (Network Asset VIsualization: Graphs, ATtacks, Operational Recommendations) adds significant capabilities to earlier work in attack graph visualization. Using NAVIGATOR, users can visualize the effect of server-side, client-side, ...

Keywords: attack graph, attack path, client-side vulnerability, treemap, visualization

40 Geovisualisation service for grid-based assessment of natural disasters

Peter Slížik, Ladislav Hluchý

September 2007 **PPAM'07:** Proceedings of the 7th international conference on Parallel processing and applied mathematics

Publisher: Springer-Verlag

Full text available: Pdf (821.37 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 2, Downloads (Overall): 2, Citation Count: 0

The Medigrid Geovisualisation Service brings together the power of Grid computation and the flexibility of web mapping. The Service provides visualisation of the simulations of natural disasters, such as floods, forest fires, and soil erosion. It was ...

Result page: << previous 1 **2** 3

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EAST Search History (Prior Art)

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L2	3	("7461353" "7584423").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L3	1	L2 & touch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L4	12	(Gary near rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L5	1	L4 & (touch near (screen display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L6	12	L4 & ((touch near (screen display)) stylus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
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L8	384	715/800.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L9	87	715/238.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L10	483	715/249.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L11	2600	715/205.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L12	5467	715/234.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
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L29	3	L27 & ((original source) near format)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L30	3	L29 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas $3 adj size) siz$3 (re adj siz $3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L31	485	L27 & (zoom$3 enlarg$3 (make adj bigger) extend$3 (increas $3 adj size) siz$3 (re adj siz $3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
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L38	3	L36 & Zoom$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L39	4	L36 & (SVG (scal$4 near vector $5 near graphic$2) vector scal $4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
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L45	1	L44 & substantial$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
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L47	9	(((translat$3 convert$3 transform$3 raster$3) near (HTML xml markup web) near (page document)) same(SVG (scal$4 near vector$5 near graphic$2))) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
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L49	34	(((translat$3 convert$3 transform$3 raster$3) with (HTML xml markup web) with (page document)) same(SVG (scal$4 near vector$5 near graphic$2))) & (pda handheld (small near display$3 near device) mobile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L50	1	L49 & (@ad<"20000612" @rlad<"20000612")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L51	0	L49 & (((re adj (render$3 execut$3 author$3 raster$3 translat$3 convert$3)) (render $3 execut$3 author$3 raster$3 translat$3 convert$3)) same (user near input near (client mobile handhelp pda)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32
L52	2	"7461353".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/26 19:32

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	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	005207.P001XC2

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	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	005207.P001XC2

	1	Combined Printout of HTML Help Files for Opera 3.60 (HTML pages printed to PDF docs and combined). Available on May 12, 1999.	☐
	2	Screenshots compilations of Web pages using Opera 3.60, including: www.Altavista.com – May 1, 1999 www.cnet.com – May 8, 1999 www.excite.com – May 8, 1999 www.nytimes.com – April 22, 1999	☐
	3	Non-Final Office Action for US Application Serial No. 09/828,511, Mailed on March 22, 2004. Not publicly available via PAIR – check USPTO paper file wrapper.	☐
	4	Notice of Allowance for US Application Serial No. 11/738,486	☐
	5	Notice of Allowance for US Application Serial No. 11/738,932	☐
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Sheet 1 of 1

Complete if Known	
Application Number	11735482
Filing Date	2007-04-15
First Named Inventor	Rohrabaugh
Art Unit	2176
Examiner Name	Tran, Quoc A.
Attorney Docket Number	005207.P001XC2

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	2	Report on the Filing or Determination of an Action Regarding a Patent or Trademark Case 1:10-cv-00389-JJF-LPS	
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HM Chen, P Mohapatra - University of California, Davis January 2003 - Citeseer

... fetching [6][7][8] has been proposed to expedite downloading of multiple objects **via** slow data ... fetch-on- demand technique can amortize network activity, which is beneficial to **wireless** devices. ... same, the familiarity with the **web** sites is retained while using the **handheld** devices. ...

Cited by 7 - Related articles - View as HTML - All 4 versions

Handheld devices for applications using dynamic multimedia data psu.edu [PDF]

B Pham, O Wong - ... international conference on Computer graphics ..., 2004 - portal.acm.org

... "ZIPCAD: A **HANDHELD** CAD SYSTEM FOR PALM OS." http://www.zipcad.com/aboutus.**html**. ... "Viability of Deploying **Wireless** Stadium Networks." http://citeseer.nj.nec.com/594259.**html**. 128 ... "Point-of- View: Custom Information Delivery **via Hand-Held** Devices." Proceedings of ...

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Method, proxy and system to support full-**page web** browsing on **hand-held** devices

GB Rohrabaugh, SA Sherman - US Patent 7,584,423, 2009 - Google Patents

... Moreover, since the original form of the **HTML**- based **Web** content is employed, **hand-held** device users are enabled to browse from among billions of **Web** pages avail- able **via** the Internet. ... 1999. Lhryft, "**Wireless** link ramped for 'always on' Internet," EELimes, Mar. 23, 1999. ...

Related articles

Scalable Display of Internet Content on Mobile Devices

GB Rohrabaugh, SA Sherman - US Patent App. 11/868,124, 2007 - Google Patents

... SERVER NO **HTML**, XML, CSS CONTENT IS TRANSLATED INTO **SCALABLE VECTOR** REPRESENTATION •114 ... 6; LINK#5230A TEXT OBJECT #1 ^2586 260B **GRAPHICS**?; LINK#6232B -X ... Sheet 16 of 22 US 2008/0028335 Al GATHER **VECTOR** REPRESENTATION ...

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N SI, MK AL HR LT LV - data.epo.org

... As stated above, the alternative protocols and display standards, such as **Handheld** Device Markup Language ... a transmitter 52 transmits **graphic** 80 and as- sociated hyperlinks 78 **via wireless** network 14 ... 12 with the option of selecting one or more of the hyperlinks 78 **via** a pop ...

View as HTML

Resolution independent **vector** display of internet content
GB Rohrabaugh, SA Sherman - US Patent App. 11/735,482, 2007 - Google Patents
... APPROPRIATE SERVER **HTML**, XLM, CSS CONTENT IS TRANSLATED INTO **SCALABLE VECTOR** REPRESENTATION IMAGE **...** 2 **GRAPHIC** #6; LINK#5230A TEXT OBJECT #1 **GRAPHIC** #7; LINK **...** 16 of 22 US 2007/0198917 Al GATHER **VECTOR** REPRESENTATION DATA **...**
All 4 versions

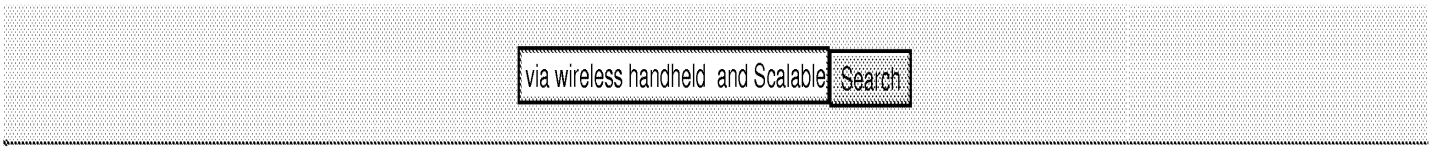
[PDF] A network architecture for heterogeneous mobile computing psu.edu [PDF]
EA Brewer, RH Katz, E Amir, H Balakrishnan, Y ... - IEEE Personal ..., 1998 - Citeseer
... Server **Scalable**, highly available proxy Internet **...** We can also support "mobile" wired networks, such as dynamically connecting to a local Ethernet subnet **via** DHCP. We must depend on existing networking technologies and **wireless** data providers to have a full range of **wireless ...**
Cited by 216 - Related articles - View as HTML - BL Direct - All 40 versions

[PDF] Ubiquitous access for collaborative information system using SVG psu.edu [PDF]
S Lee, G Fox, S Ko, M Wang, X Qiu - Proceedings of SVGOpen ..., 2002 - Citeseer
... **Web**-based systems allowing the users to access their resources **via** browsers, also meets the users **...** is one of critical issues for this system due to the unstable **wireless** network. **...** Palm m505 **Handheld** Product Details, http://www.palm.com/products/palmm505/details.**html** [12] J **...**
Cited by 16 - Related articles - View as HTML - All 2 versions

Method of adaptive data transmission
IK Clemens - US Patent App. 10/352,317, 2003 - Google Patents
... or work- stations to provide **web** client services, but increasingly may be found on **wireless** devices such as cell phones, personal data assistants, **handhelds**, etc. **...** transmission of claim 4 wherein the **vector** format is produced pursuant to a **Scalable Vector Graphics** standard **...**
All 3 versions

Web page filtering and re-authoring for mobile users psu.edu [PDF]
T Bickmore, A Girgensohn, JW Sullivan - The Computer Journal, 1999 - Br Computer Soc
... documents designed for desktop viewing into formats appropriate for **handheld** devices with **...** Digestor can also be instructed, **via** a scripting language, to **render** portions of **...** platforms [5]. Today, technologies already provide computational mobility and **wireless** connectivity, but **...**
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[PDF] Real and Emulated Experiments for e-Learning and m-Learning Implemented by Virtual Instrumentation — psu.edu [PDF]

F SANDU, PN BORZA - Workshop on using VR in education, 2007 - Citeseer

... connected by infrared, as "mobile terminal" to a mobile phone used as "**wireless** modem) that ... 11–Mobile remote PID control **via** Mitsubishi " Trium-Mondo" Pocket PC Smartphone GPRS ... Out of the three approaches to create **Web** sites accessible for **handheld** devices (creating ...

Related articles - View as HTML - All 4 versions

[PDF] Augmented Reality Application For the Educational System — academia.edu [PDF]

DT Bulent - pub.academia.edu

... The **wireless** connection allows the soldier to access repair manuals and images of the ... as a device of information presentation, though it was adapted for a **handheld** type. ... how FLARManager can improve the accuracy and reliability of those processes **via** simple configuration ...

Related articles - View as HTML

Integration of geo-referenced data for visual simulation in location-based mobile computing

AC Lopes, JMS Dias - Computer-Aided Civil and ..., 2006 - interscience.wiley.com

... be delivered on demand to the GeoClient application, which will be running on a mobile **hand-held** unit (PDA ... in modem or network card that the device might have (modern PDA devices are already WiFi compatible), or as an alterna- tive, using a SmartPhone **via** a Bluetooth ...

Cited by 1 - Related articles - BL Direct - All 4 versions

Personalizing **web** sites for mobile users — psu.edu [PDF]

CR Anderson, P Domingos, DS Weld - ... on World Wide **Web**, 2001 - portal.acm.org

... scrolling (to find the links) and waiting for intermedi- ate pages to download over the **wireless** network. ... A single screen sij is composed of **web** content (ie, the text and **graphics** that are displayed), 3We will ... Let WT be the word **vector** for content Tij, and consider a particular word ...

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[PDF] Real-time **Scalable** Visualization of Network Data on Smartphones — psu.edu [PDF]

A Pattath, D Ebert - Citeseer

... **Scalability** is very important when a variety of **handheld** devices are available in the market ... To maintain consis- tency across any device (from **handhelds** to desktop PCs), we took the ... analysts may need to make adjustments to load balancing factors, such as **wireless** AP power ...

Related articles - View as HTML - All 2 versions

[PDF] Message-based MVC architecture for distributed and desktop applications psu.edu [PDF]

X Qiu - 2005 - Citeseer

... **wireless**, and virtual private network (VPN) [VPN] subsystems), and customized communication services for specific applications. ... application as services with interoperability and **scalability**. ... further interconnected to other networks **via** wide area network (WAN) [WAN], which ...

Cited by 9 - Related articles - View as HTML - All 6 versions

[BOOK] Mobile web design

C Moll - 2008 - books.google.com

... For example, a **wireless** router enables me to roam from room to room within my house or to ... or a contact's number, rather than the plethora of data at my disposal **via** a desktop ... Location-specific data, on-the-go messaging, and of course **handheld** voice communication are just a ...

Cited by 4 - Related articles - All 2 versions

[PDF] Stylesheet Translations of SVG to VML sjsu.edu [PDF]

J Nabong - 2004 - cs.sjsu.edu

... be viewed in different screen sizes, such as PC displays and **handheld** devices. ... In addition, XSLT can be used to display data on **wireless** devices using WML (**Wireless** Markup Language) as explained in [L04]. ... **Scalable Vector Graphics** (SVG) is a specification based on XML. ...

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[PDF] The Third Dimension-Human-centred approach to designing new mobile services for different terminal equipment eurescom.de [PDF]

W Milszus, A Rigallo, T Syversen, B Thorstensen, T ... - 2001 - eurescom.de

... Telecommunication operators and service providers are already providing a wide range of services that can be accessed **via** mobile terminals, like GSM/WAP phones, PDAs, communicators ... HDML **Handheld** Device Markup Language ... WLAN **Wireless** Local Area Network ...

Related articles - View as HTML - All 8 versions

LabVIEW-based remote and mobile access to real and emulated experiments in electronics

F Sandu, P Nicolae, E Kayafas, SA ... - Proceedings of the 1st ..., 2008 - portal.acm.org

... mobile configurations were tested using notebook PC-s with high-speed **wireless** modems (internal ... of the three approaches to create **Web** sites accessible for **handheld** devices (creating ... bit-map) format – that would create restrictions to "backward" access **via** normal browsers ...

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System and method for delivery of documents over a computer network

JD Ko, BM Boghosian, CA Traynor - US Patent 7,343,555, 2008 - Google Patents

... called WBMP (**Wireless** BitMaP) that is unsupported by major **graphics** software packages ... also encouraged developers to use their own proprietary language called **Handheld** Device Markup ... maintain more than one **web** site to separately accommodate **wireless** and broadband ...

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Instant Learning For Crisis Response gmu.edu [PDF]

M Suydam - 2008 - digilib.gmu.edu

... networking (both wired and **wireless**) • database creation and update in networked environment ... Rapid and effective distribution and update of data, not just pictures, **via** the Internet and ... system that is quickly and easily **scalable**, can readily **zoom**, and loads much faster in a ...

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[HTML] **Handhelds**' limitations computer.org [HTML]

T Capin, T Akenine-Möller - computer.org

... and Guifeng Zheng's solution for transmitting meshes, the mobile device communicates with a wired IP server **via** an IP network and a **wireless** channel. ... was tethered to a workstation, Daniel Wagner and Dieter Schmalstieg created the first autonomous **handheld** AR system. ...

Cached

[BOOK] Special edition using Adobe GoLive 6

B Dunning, A Knox, L Becker - 2002 - books.google.com

... for Adobe GoLive 431 IX **Wireless** and Collaboration 25 Developing for **Wireless** Devices 467 ... Using Scenes 349 SWF and SVG 350 Shockwave Flash (SWF) 350 **Scalable Vector Graphics** (SVG) 351 ... Smart Object 371 Creating a Bitmap 372 Creating a SVG File **via** an Illustrator ...

[BOOK] **Web** design in a nutshell oreilly.de [PDF]

JN Robbins - 2006 - books.google.com

... And with competition came new concerns about **rendering**, feature support, and bugs. ... The cornerstones of digital design—usability, content reuse, accessibility—buckled under the hubris of **graphic** artists. ... The book now opens with an overview of **web** standards and the xxi ...

Cited by 10 - Related articles - Library Search - All 12 versions

A **Web**-Based Java Framework for Cross-Platform Mobile GIS and Remote Sensing Applications

MH Tsou, L Guo, A Howser - GIScience & Remote Sensing, 2005 - Bellwether Publishing
... for the access of geospatial data and services through mobile devices **via** wireline or ... very small footprint Java programs to execute on smartcard and other **handheld** devices with ... of GIS or remote sensing data viewers, best practices include utilization of **wireless** client-server ...
Related articles - BL Direct

[PDF] MapInfo psu.edu [PDF]
L Mobile - Citeseer
... digital assistants), Java phones, WAP phones, RIM pagers, **wireless** PCs and other mobile **handheld** devices. ... drivers with up-to-date traffic information on their home PC, **via** their mobile ... or **wireless** application protocol (WAP) or by their Telematik system available in their vehicle ...
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[PDF] Mobile Guide For The Enterprise 130.75.2.171 [PDF]
C SCHMITT - 130.75.2.171
... will describe in more detail the selected solution which is based on **Wireless** LAN. ... Using these lessons we started a more ambitious project based on **Scalable Vector Graphics** (SVG) for ... Information System as an Exhibition Guide" in Proceedings of the **Handheld** and Ubiquitous ...
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[PDF] The Convergence of Aesthetics and Technologies badmindtime.com [PDF]
J Bargsten - badmindtime.com
... installation, a video game, or a **Web** site delivered **via** computer or a **wireless** device. ... compressing CD-quality music data to file sizes small enough for easy transmission **via** the Internet ... A pressure-sensitive pad and **hand- held** stylus (pen) often replace the mouse pad/mouse as ...
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[PDF] Beyond-the-Desktop Interactive Visualizations lmu.de [PDF]
T Baliendat - medien.ifi.lmu.de
... of **web** content is explicitly provided for mobile devices, like using the **wireless** application protocol ... which requires a lot of screen space like being provided by modern PDAs and **handhelds**. ... Efficient **Web** Browsing on **Handheld** Devices Using **Page** and Form Summarization. ...
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[HTML] Radiology on **Handheld** Devices: Image Display, Manipulation, and PACS Integration Issues1 — rsna.org [HTML]

B Raman, R Raman, L Raman, CF ... - Radiographics, 2004 - radiographics.rsna.org

... "Palm reading": 1. **Handheld** hardware and operating systems. CMAJ 2002; 167: 775-780. ↵ Goldblum OM. Practical applications of **hand-held** computers in dermatology. ... Accessed April 22 2003. ↵ Yoshihiro A, Nakata N, Harada J, Tada S. **Wireless** local area networking for ...

Cited by 41 - Related articles - BL Direct - All 6 versions

[PDF] Comparing **Scalable Vector Graphics** with Flash as Media for the Delivery of Interactive **Vector Graphics** on the Internet. — savethegaywhale.com [PDF]

JHA Ekwin - 2004 - savethegaywhale.com

... in order for SVG to become a significant format for the delivery of **vector graphics** over the ... that such a series of plans would lend itself to display and navigation **via** SVG. ... With the attributes of **Scalability** and Interoperability discussed earlier this will make design collaboration and ...

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RIMapperWMS: a **Web** Map Service providing SVG maps with a built-in client — ifc.nl [PDF]

B Köbben - The European Information Society, 2007 - Springer

... a wide range of platforms, from the office systems of the local authorities to **hand-held** devices providing ... **Web** based map application that allows inventory of new landslides and submitting them **via** the WWW ... Spatial Database RIMapperWMS SVG-capable (**wireless**) Webclient ...

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[PDF] **SCALABLE** USER INTERFACES FOR THE **WEB** — psu.edu [PDF]

A Danesh - 2004 - Citeseer

... 59 Chapter Four: **Scalable** user interfaces ..... 61 ... 63 A simple Flash movie containing a form on a **handheld** device ..... 64 ... LJ 7 I I CONNECTION **VIA** API **HTML PAGE Page** 14. 1.1.2 Moving to **Web** Services ...

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[PDF] Techniques for LBS Cartography — e-cartouche.ch [PDF]

M Neun, A Edwardes, S Steiniger - e-cartouche.ch

... 8 1.1.2. Displaying Content Coping with Small Displays **Handheld** devices are characterized primarily by a limited display size. ... 11 Identifier of the neares base station in a **wireless** network. ... Thus maps and other data are delivered **via** the internet to the mobile LBS device. ...

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[PDF] MARIA PENAFRANCIA D. LAYSA psu.edu [PDF]
UP Diliman, Q City, C Persons, EJ BAUTISTA - Citeseer
... Ability to support **wireless handheld** devices ... WAV: Waveform audio file format WFS: **Web** Feature Server WMF: Windows Media Format WML: **Wireless** Mark-up Language – a ... **HTML**, however, describes the content of a **Web page** (mainly text and **graphic** images) only in terms of ...
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[PDF] Computational Science and Information Technology: Distance Education and Training psu.edu [PDF]
G Fox - 2001 - Citeseer
... a PDA controller or a wheelchair shopper accessing the mall kiosk from a **hand-held** keyboard. ... sold each year and 65% of all broadband Internet accesses will be **via** non-desktop ... standards for productivity tools; WML is potentially important for content aimed at **wireless** devices ...
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Smartview and searchmobil: Providing overview and detail in **handheld** browsing
N Milic-Frayling, R Sommerer, K Rodden, A ... - Mobile and Ubiquitous ..., 2004 - Springer
... material specifically targeted to small devices, for example, by use of the **Wireless** Application Protocol ... be taken straight to a suitable detail view, instead of navigating **via** an intermediate ... A.: Seeing the Whole in Parts: Text Summarization for **Web** Browsing on **Handheld** Devices ...
Cited by 7 - Related articles - BL Direct - All 4 versions

Method and apparatus for extracting data objects and locating them in virtual space
J Orbanes, A Guzman - US Patent App. 09/783,717, 2001 - Google Patents
... not limited to, financial, educational, governmental, sports, media, retail, travel, geo- **graphic**, real estate ... be significant when small displays are used, such as those found on **wireless** telephones and ... In a further embodiment, the invention creates an array of **vector** elements or ...
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First Named Inventor	Rohrabaugh
Art Unit	2176
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41 Pareto based optimization of multi-resolution geometry for real time rendering

Nicolaas Tack, Gauthier Lafruit, Francky Catthoor, Rudy Lauwereins

March 2005 **Web3D '05:** Proceedings of the tenth international conference on 3D Web technology

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1 A tactile web browser for the visually disabled

Martin Rotard, Sven Knödler, Thomas Ertl

September 2005 **HYPERTEXT '05:** Proceedings of the sixteenth ACM conference on Hypertext and hypermedia

Publisher: ACM Request Permissions

Full text available: Pdf (3.81 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 97, Downloads (Overall): 744, Citation Count: 2

The dissemination of information available through the World Wide Web makes universal access more and more important and supports visually disabled people in their everyday life. In this paper we present a new approach for visually disabled people to ...

Keywords: adaptive hypertext, multi-modal interfaces, tactile graphics, universal access

2 DENIM: an informal web site design tool inspired by observations of practice

Mark W. Newman, James Lin, Jason I. Hong, James A. Landay

September 2003 **Human-Computer Interaction** , Volume 18 Issue 3

Publisher: L. Erlbaum Associates Inc.

Full text available: Pdf (3.50 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 121, Downloads (Overall): 157, Citation Count: 14

Through a study of Web site design practice, we observed that designers employ multiple representations of Web sites as they progress through the design process and that these representations allow them to focus on different aspects of the design. In ...

3 Collision detection and proximity queries

Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson

August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

Publisher: ACM Request Permissions

Full text available: Pdf (11.22 MB) Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 489, Downloads (Overall): 3549, Citation Count: 4

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate ...

4 Motivation and challenges

Dave Kasik
August 2007 **SIGGRAPH '07:** SIGGRAPH 2007 courses
Publisher: ACM Request Permissions
Full text available: Pdf (5.32 MB) Additional Information: full citation
Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 158, Downloads (Overall): 785, Citation Count: 0

5 Towards a uniform web application platform for desktop computers and mobile devices

Tommi Mikkonen, Antero Taivalsaari
March 2008 Towards a uniform web application platform for desktop computers and mobile devices
Publisher: Sun Microsystems, Inc.
Full text available: Pdf (719.88 KB) Additional Information: full citation, abstract, references
Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 10, Downloads (Overall): 10, Citation Count: 1

Two parallel emerging trends are currently taking place in the software industry. First, software applications are moving to the World Wide Web: as part of the Web 2.0 transition, web pages are becoming increasingly interactive and will allow the use ...

6 Handheld devices for applications using dynamic multimedia data

Binh Pham, On Wong
June 2004 **GRAPHITE '04:** Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia
Publisher: ACM
Full text available: Pdf (209.86 KB) Additional Information: full citation, abstract, references, cited by, index terms
Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 91, Downloads (Overall): 2622, Citation Count: 4

Growing demand for ubiquitous and pervasive computing has triggered a sharp rise in handheld device usage. At the same time, dynamic multimedia data has become accepted as core material which many important applications depend on, despite intensive costs ...

Keywords: collaborative, computer graphics, handheld devices, image processing, multimedia

7 Creating a mobile web application platform: the lively kernel experiences

Tommi Mikkonen, Antero Taivalsaari
March 2009 **SAC '09:** Proceedings of the 2009 ACM symposium on Applied Computing
Publisher: ACM Request Permissions
Full text available: Pdf (398.73 KB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 134, Downloads (Overall): 187, Citation Count: 1

The software industry is currently in the middle of two transitions -- towards web-based software and towards web-enabled mobile devices. In this paper, we summarize our experiences in porting the Sun Labs Lively Kernel - an interactive web programming ...

Keywords: mobile devices, rich internet applications, web programming

8 Experiences with the development of a reverse engineering tool for UML sequence diagrams: a case study in modern Java development

Matthias Merdes, Dirk Dorsch
August 2006 **PPPJ '06:** Proceedings of the 4th international symposium on Principles and practice of programming in Java
Publisher: ACM
Full text available: Pdf (387.86 KB) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 78, Downloads (Overall): 910, Citation Count: 0

The development of a toot for reconstructing UML sequence diagrams from executing Java programs is a challenging task. We implemented such a tool designed to analyze any kind of Java program. Its implementation relies heavily on several advanced features ...

Keywords: Java technology, UML models, reverse engineering, sequence diagrams

9 Authoring adaptive diagrams

Cameron McCormack, Kim Marriott, Bernd Meyer

September 2008 **DocEng '08:** Proceeding of the eighth ACM symposium on Document engineering

Publisher: ACM Request Permissions

Full text available: Pdf (501.34 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 45, Downloads (Overall): 134, Citation Count: 1

The web and digital media requires intelligent, adaptive documents whose appearance and content adapts to the viewing context and which support user interaction. While previous research has focussed on textual and multimedia content, this is also true ...

Keywords: adaptive layout, authoring, diagrams

10 Tactile web browsing for blind people

Martin Rotard, Christiane Taras, Thomas Ertl

March 2008 **Multimedia Tools and Applications** , Volume 37 Issue 1

Publisher: Kluwer Academic Publishers

Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

Information on the World Wide Web becomes more and more important for our society. For blind people this is a chance to access more information for their everyday life. In this paper we propose novel methods to present web pages including graphical information ...

Keywords: Accessibility, Haptics, Tactile graphics, Web browsers

11 VXT: a visual approach to XML transformations

Emmanuel Pietriga, Jean-Yves Vion-Dury, Vincent Quint

November 2001 **DocEng '01:** Proceedings of the 2001 ACM Symposium on Document engineering

Publisher: ACM Request Permissions

Full text available: Pdf (165.99 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Downloads (Overall): 703, Citation Count: 14

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations ...

Keywords: XML transformations, XSLT, circus, visual programming languages, zoomable user interfaces

12 Mobile interaction with static and dynamic NFC-based displays

Robert Hardy, Enrico Rukzio, Paul Holleis, Matthias Wagner

September 2010 **MobileHCI '10:** Proceedings of the 12th international conference on Human computer interaction with mobile devices and services

Publisher: ACM Request Permissions

Full text available: Pdf (1.38 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 1, Downloads (Overall): 1, Citation Count: 0

This paper reports on a development framework, two prototypes, and a comparative study in the area of multi-tag Near-Field Communication (NFC) interaction. By combining NFC with static and dynamic displays, such as posters and projections, services are ...

Keywords: dynamic display, mobile interaction, near field communication (NFC), static display

13 A constraint extension to scalable vector graphics

Greg J. Badros, Jojada J. Tirtowidjojo, Kim Marriott, Bernd Meyer, Will Portnoy, Alan Borning

April 2001 **WWW '01:** Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (364.10 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 38, Downloads (Overall): 616, Citation Count: 15

Keywords: CSVG, SVG, constraints, differential scaling, interaction, scalable vector graphics, semantic zooming

14 Seamless Merging of Hypertext and Algorithm Animation

Ville Karavirta

June 2009 **Transactions on Computing Education (TOCE)** , Volume 9 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (1.81 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 112, Downloads (Overall): 158, Citation Count: 0

Online learning material that students use by themselves is one of the typical usages of algorithm animation (AA). Thus, the integration of algorithm animations into hypertext is seen as an important topic today to promote the usage of algorithm animation ...

Keywords: Algorithm animation, merging of hypertext and algorithm animation, online learning

15 Retargeting vector animation for small displays

Vidya Setlur, Yingqing Xu, Xuejin Chen, Bruce Gooch

December 2005 **MUM '05:** Proceedings of the 4th international conference on Mobile and ubiquitous multimedia

Publisher: ACM

Full text available: Pdf (519.01 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 51, Downloads (Overall): 309, Citation Count: 0

We present a method that preserves the recognizability of key object interactions in a vector animation. The method allows an artist to author an animation once, and then output it to any display device. We specifically target mobile devices with small ...

Keywords: WWW applications, XML, animation, information visualization, non-photorealistic rendering, perception, small displays, vector graphics

16 XSLT for tailored access to a digtal video library

Michael G. Christel, Bryan Maher, Andrew Begun

January 2001 **JCDL '01:** Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM Request Permissions

Full text available: Pdf (892.07 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 20, Downloads (Overall): 431, Citation Count: 4

Surrogates, summaries, and visualizations have been developed and eval uated for accessing a digital video library containing thousands of documents and terabytes of data. These interfaces, formerly implemented within a monolithic stand-alone application, ...

Keywords: XML, XSLT, digital video library, surrogate

17 Visual Analytics: Semantic lenses: Seamless augmentation of web pages with context information from implicit queries

Martin Rotard, Mark Giereth, Thomas Ertl

June 2007 **Computers and Graphics** , Volume 31 Issue 3

Publisher: Pergamon Press, Inc.

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

We propose a novel method to support analytical processes by visually integrating context information directly into web pages. The context information is obtained from knowledge bases or services that provide additional information about certain concepts ...

Keywords: Human-computer interaction, Implicit queries, Semantic web, Visual analytics, World Wide Web

18 Visualizing the results of interactive queries for geographic data on mobile devices

Stefano Burigat, Luca Chittaro

November 2005 **GIS '05:** Proceedings of the 13th annual ACM international workshop on Geographic information systems

Publisher: ACM Request Permissions

Full text available: Pdf (620.99 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 126, Downloads (Overall): 1099, Citation Count: 5

The capabilities of current mobile computing devices such as PDAs and mobile phones are making it possible to design and develop mobile GIS applications that provide users with geographic data management and cartographic presentations in the field. However, ...

Keywords: GIS, dynamic queries, mobile devices, visualization

19 Authorization for digital rights management in the geospatial domain

Andreas Matheus

November 2005 **DRM '05:** Proceedings of the 5th ACM workshop on Digital rights management

Publisher: ACM Request Permissions

Full text available: Pdf (829.98 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 71, Downloads (Overall): 855, Citation Count: 1

Since information is available in digital format, the protection of intellectual property and copyright fraud has become an important issue. This is, because the digital content can be copied without quality loss and with a reasonable effort of time, ...

Keywords: DRM, access control, geoXACML, geospatial

20 Towards an open architecture for vector GIS

Robert I. Dunfey, Bruce M. Gittings, James K. Batcheller

December 2006 **Computers & Geosciences** , Volume 32 Issue 10

Publisher: Pergamon Press, Inc.

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

A range of open source software tools are now available to the Geographical Information Systems (GIS) analyst. However these tools are not necessarily interoperable and rarely significantly interoperable with proprietary systems. The open architectures, ...

Keywords: JavaScript, Open architecture, SVG, Web GIS, Web interface

Result page: **1** 2 3 next >>

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	Art Unit
	QUOC A TRAN	2176

ORIGINAL		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
715	200	G	0	6	F	17 / 00 (2006.0)	G	0	6	F	17 / 00 (2006.0)

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
715	234	243	253		

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	17	21		41	58	61		81	94	101	35	121	113	141
2	2	18	22	44	42	59	62		82		102	36	122	114	142
	3	19	23		43		63	79	83	95	103	8	123	115	143
	4	20	24	45	44	60	64	80	84	96	104	9	124		
	5	21	25	46	45	61	65	81	85	97	105	10	125		
3	6		26	47	46	62	66	82	86	98	106	37	126		
4	7	22	27	48	47	63	67		87	99	107	38	127		
5	8	23	28		48	64	68	83	88		108	73	128		
6	9	24	29	49	49		69	84	89	100	109	74	129		
7	10	25	30	50	50	65	70	85	90	101	110	39	130		
	11	26	31		51	66	71	86	91	102	111	40	131		
11	12		32	51	52	67	72	87	92	103	112	75	132		
12	13	27	33	52	53	68	73		93		113	107	133		
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13	15	29	35	53	55	69	75	89	95		115	76	135		
14	16	30	36	54	56	70	76		96	104	116	108	136		

/QUOC A TRAN/ Examiner.Art Unit 2176 (Assistant Examiner)	09/26/2010 (Date)	**Total Claims Allowed:** 115	
/DOUG HUTTON/ Supervisory Patent Examiner.Art Unit 2176 (Primary Examiner)	09/30/2010 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2C

U.S. Patent and Trademark Office

Part of Paper No. 20100925

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11735482	ROHRABAUGH ET AL.
	Examiner	**Art Unit**
	QUOC A TRAN	2176

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

	17	31	37		57	71	77	90	97	105	117	109	137		
15	18	32	38	55	58	72	78	91	98	106	118	110	138		
16	19	42	39	56	59	77	79	92	99	33	119	111	139		
	20	42	40	57	60	78	80	93	100	34	120	112	140		

/QUOC A TRAN/ Examiner.Art Unit 2176	09/26/2010	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	115	
/DOUG HUTTON/ Supervisory Patent Examiner.Art Unit 2176	09/30/2010	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2C

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(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2	2111

TITLE OF INVENTION: RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$300	$0	$1055	01/04/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRAN, QUOC A	2176	715-200000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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1 Law Office of R. Alan Burnett
2
3

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PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

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(B) RESIDENCE: (CITY and STATE OR COUNTRY): Bellingham, WA

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ■ Corporation or other private group entity ☐ Government

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5. **Change in Entity Status** (from status indicated above)
☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature R. Alan Burnett Date October 8, 2010

Typed or printed name R. Alan Burnett Registration No. 46,149

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Rohrabaugh et al.	)	Examiner: Tran, Quoc A.
	)	
Serial No. 11/735,482	)	Art Unit: 2176
	)	
Filed: April 15, 2007	)	
	)	
For: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	)	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Sir:

In response to the Notice of Allowance and Examiner's statement of reasons of allowance mailed on October 4, 2010, it is respectfully requested that the following comments be entered in the record of the above-referenced patent application.

COMMENTS

In the section entitled "Allowable Subject Matter" on page 28 of the Notice of Allowability, the Examiner states (emphasis in original),

> The following is a statement of reasons for indication of allowable subject matter: Under the broadest reasonable interpretation of the claimed limitation consistent with the Applicant's Specification, the claimed invention advantageously provides a method and device for creating resolution-independent vector display of Internet content to allow it to be scaled (zoomed) larger and smaller for better viewing or to fit any resolution or screen size, which are designed for a WIRELESS HAND-HELD DEVICE.
>
> In particular, the claimed invention takes **a web page**; wherein the web content in its original page layout of the web page and *translates* the HTML-based Web content into "scalable content" that supports a scalable of the HTML-based Web content that for enabling Web pages in their ***original HTML-based content form to be accessed via*** WIRELESS HAND-HELD DEVICE; enable a user to iteratively zoom in on a portion of the Web page while preserving the original page layout, ***functionality and design*** of the Web page defined by the markup language-based Web content, wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality.

The Examiner's statements of reasons for allowance are hereby acknowledged by Applicant. Applicant agrees that the claimed subject matter is patentable; however, the Examiner's reasons for allowance should not be attributed to Applicant as an indication of the basis for Applicant's belief that the claims are patentable.

Patentability of each claim is defined by the elements of that claim

It is well-established that the scope of a claim is defined by the claim elements in that particular claim, and the patentability of each claim is considered individually. Accordingly, elements that are not recited in a given claim are not to be read into the claim when interpreting its claim scope. Rather, the scope of each claim is to be

interpreted based on its plain meaning[1] in view of the written description of the application. In particular, MPEP 2111.01 Plain Meaning [*R-5*] states, in part,

> **II. IT IS IMPROPER TO IMPORT CLAIM LIMITATIONS FROM THE SPECIFICATION**
>
> "Though understanding the claim language may be aided by explanations contained in the written description, it is important not to import into a claim limitations that are not part of the claim. For example, a particular embodiment appearing in the written description may not be read into a claim when the claim language is broader than the embodiment." *Superguide Corp. v. DirecTV Enterprises, Inc.*, 358 F.3d 870, 875, 69 USPQ2d 1865, 1868 (Fed. Cir. 2004). See also *Liebel-Flarsheim Co. v. Medrad Inc.*, 358 F.3d 898, 906, 69 USPQ2d 1801, 1807 (Fed. Cir. 2004)(discussing recent cases wherein the court expressly rejected the contention that if a patent describes only a single embodiment, the claims of the patent must be construed as being limited to that embodiment);< *E-Pass Techs., Inc. v. 3Com Corp.*, 343 F.3d 1364, 1369, 67 USPQ2d 1947, 1950 (Fed. Cir. 2003) ("Interpretation of descriptive statements in a patent's written description is a difficult task, as an inherent tension exists as to whether a statement is a clear lexicographic definition or a description of a preferred embodiment. The problem is to interpret claims 'in view of the specification' without unnecessarily importing limitations from the specification into the claims."); *Altiris Inc. v. Symantec Corp.*, 318 F.3d 1363, 1371, 65 USPQ2d 1865, 1869-70 (Fed. Cir. 2003) (Although the specification discussed only a single embodiment, the court held that it was improper to read a specific order of steps into method claims where, as a matter of logic or grammar, the language of the method claims did not impose a specific order on the performance of the method steps, and the specification did not directly or implicitly require a particular order).

The applicant respectfully asserts the basis for allowance for each claim in the present application is based on the elements recited in that claim alone and is not based on any elements or subject matter that is not recited in the claim.

It is respectfully noted that the element shown above pertaining to "*translates* the HTML-based Web content into "scalable content" that supports a scalable of the HTML-based Web content that for enabling Web pages in their ***original HTML-based content***

---

[1] Plain meaning is to be employed unless that plain meaning is inconsistent with the use of the terminology in the specification, noting that an inventor can be his own lexicographer. See MPEP 2111.01 and MPEP 2173.05(a)

form to be accessed via WIRELESS HAND-HELD DEVICE;" is not recited in any of the claims. Rather, independent claims 1, 39, 79, and 136 include reference to the use of scalable page layout information or scaled page layout information, as applicable to each claim. Accordingly, since none of the claims include recitation of an element pertaining to "*translates* the HTML-based Web content into "scalable content" that supports a scalable of the HTML-based Web content that for enabling Web pages in their ***original HTML-based content form to be accessed via*** WIRELESS HAND-HELD DEVICE;" this element or an element of similar terminology shall not be read into the scope of any of the claims.

It is acknowledged that each of independent claims 1, 39, 79, and 136 include elements relating to "enable[ing] a user to iteratively zoom in on a portion of the Web page" and "preserving the original page layout, functionality and design of the Web page defined by the markup language-based Web content, wherein preservation of the functionality defined by the markup language-based content includes preservation of hyperlink functionality." For instance, by way of example without limitation independent claim 1 recites, in part (emphasis added),

…

processing, via the wireless hand-held device, the markup language-based Web content with a rendering engine to generate page layout information corresponding to the original page layout of content on the Web page as interpreted by the rendering engine including a width of the Web page;

employing the ***page layout information*** *to generate* ***scalable page layout information***; and

employing ***scalable page layout information and/or data derived thereform*** to generate views of the Web page on the display, including,

a view under which the width of the Web page is fully displayed; and

views of the Web page generated in response to associated user inputs to *enable a user to* ***iteratively zoom in*** *on a portion of the Web page* while ***preserving the original page layout, functionality, and design of the content on the Web page defined by the markup language-based Web content***, …

As another example with respect to the scope of claim terminology, some of the claims recite elements such as "scalable" or "scaled," while one of the claims (claim 120) recites the language scalable "vector-based" page layout information. More particularly, dependent claim 120 recites (emphasis added),

The method of claim 1, ***wherein the scalable page layout information comprises scalable vector-based page layout information***.

Accordingly, if the recited claim language includes the term "scalable" or "scaled" without including the term "vector-based," then the scope of the claim does not require the corresponding element to be vector-based, although it doesn't preclude such elements from being vector based.

The applicant acknowledges that a portion of paragraph [0031] of the specification states, "Apparatus and methods are described for creating resolution independent vector display of Internet content to allow it to be scaled (zoomed) larger and smaller for better viewing or to fit any resolution or screen size." Applicant notes that the terminology "resolution independent vector" corresponds to an aspect of one or more particular embodiments disclosed in the application, and as is made clear above, "a particular embodiment appearing in the written description may not be read into a claim when the claim language is broader than the embodiment." At the same time and as discussed above, there are claims among the allowed claims that include language relating to the terminology "resolution independent" and "vector," and the scope of the related elements in these specific claims is to be interpreted in accordingly.

Applicant additionally notes that while the word "display" follows the word "vector" in the foregoing text (*i.e.*, "resolution independent ***vector display***"), the display referred to therein is not a physical "vector display," which was a type of display that existed several decades or more ago (*e.g.*, CRT oscilloscope displays, radar displays), but rather in at least one embodiment resolution independent vectors are employed, in part, to lay out display content in connection with generating scaled views of web content used in connection with generating a display of web page content at different zoom levels that is displayed on a device's screen (also referred to in the present application as a display or display screen).

Reservation of Rights

The foregoing comments are not intended to comprehensively address all issues arising from the statement of reasons for allowance. Failure to specifically object to one or more aspects of the statement of reasons for allowance is not intended to be, and should not understood to be, an acquiescence or concession with respect to the correctness of any aspect or portion of the statement of reasons for allowance.

The Examiner should infer no (i) adoption of a position with respect to patentability, (ii) change in the Applicant's position with respect to any claim or subject matter of the invention, or (iii) acquiescence in any way to any position taken by the Examiner, based on such amendments. It is believed that all of the pending claims have been addressed. However, the absence of a reply to a specific rejection, issue or comment does not signify agreement with or concession of that rejection, issue or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims (or other claims) that have not been expressed. Finally, nothing in this paper should be construed as an intent to concede any issue with regard to any claim, except as specifically stated in this paper, and the amendment of any claim does not signify concession of unpatentability of the claim prior to its amendment.

Status of co-pending cases

Below is a table showing the status of co-pending applications that are related to the present application (status of present application shown in bold).

Application No.	**Filing Date**	**Relationship**	**Status**
60/211,345	06-12-2000	Provisional Application	Expired
60/217,345	07-11-2000	Provisional Application	Expired
09/828,511	04-07-2001	Original Non-provisional application	Abandoned
09/878,097	06-08-2001	Continuation-in-part of 09/828,511	7,210,099
11/045,649	01-28-2005	Divisional of 09/878,097	7,584,423
11/045,757	01-28-2005	Divisional of 09/878,097	7,461,353
11/735,477	04-15-2007	Continuation of 09/878,097	Awaiting First Action
11/735,482	**04-15-2007**	**Continuation of 09/878,097**	**Allowed**
11/738,486	04-21-2007	Continuation of 09/878,097	Allowed
11/738,932	04-23-2007	Continuation of 09/878,097	Allowed
11/868,124	10-05-2007	Divisional of 11/045,757	Non-final Action
12/326,092	12-01-2008	Continuation of 11/045,757	Awaiting First Action

Comments regarding ongoing litigation of US Patent No. 7,451,353

In accordance with the provisions of MPEP 2001.06(c) and 37 C.F.R §§ 1.56, 197, and 1.98, a Notice of Litigation was filed on May 23, 2009 identifying that U.S. Patent No. 7,461,353, which is a divisional of the parent of the present application (U.S.

Application Serial No. 09/878,097 issued as U.S. Patent 7,210,099) is in litigation, Case No. 1:10-cv-00389-JJF-LPS, in the United States District Court for the District of Delaware. Copies of the complaint and Report on the Filing or Determination of an Action Regarding a Patent or Trademark were previously submitted in an IDS filing dated May 23, 2009.

Conclusion

In view of the foregoing and prosecution of record, it is respectfully submitted that all of the claims pending in this patent application are in condition for allowance. If, however, the Examiner believes that there are any unresolved issues requiring adverse action in any of the claims now pending in the application, it is requested that the Examiner telephone R. Alan Burnett at (425) 417-4729 or (425) 562-0923 so that appropriate arrangements can be made for resolving such issues as expeditiously as possible.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: October 8, 2010

/S/ R. Alan Burnett
R. Alan Burnett
Reg. No. 46,149

4108 131st Ave SE
Bellevue, WA 98006

Electronic Patent Application Fee Transmittal

Application Number:	11735482
Filing Date:	15-Apr-2007
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	R. Burnett
Attorney Docket Number:	005207.P001XC2

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl issue fee	2501	1	755	755
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1055**

Electronic Acknowledgement Receipt	
EFS ID:	8594572
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	08-OCT-2010
Filing Date:	15-APR-2007
Time Stamp:	18:57:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1055
RAM confirmation Number	5102
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Issue Fee Payment (PTO-85B)	P001XC2_Issue_Fee.pdf	1164561 4882c15636792356c16ba6f1ab8b50835eb32c27	no	1
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	P001XC2_Comments_on_allowance.pdf	65583 abdc1554c585f74a79a17bb88ca4fdceec38f25d	no	8
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	31617 78514b1bc56d660d3fb4221363198a0d7a87b9ea	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1261761		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11735482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Herndon, Heather R
	Attorney Docket Number	005207.P001XC2

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
CH 11-2-10	1	5897644		1999 ~~2009~~-04-27	~~Nielsen~~ Nielsen	
	2	6449639		2002-09-10	Blumberg	
	3	6456305		2002-09-24	Qureshi et al.	
	4	5615384		1997-03-25	Allard et al.	
	5	5952994		1999-09-14	Ong et al.	
	6	6553410		2003-04-22	Kikinis	
	7	6556217		2003-04-29	Mäkipää	
	8	6829746		2004-12-07	Schwerdtfeger et al.	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.T./

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Approved for use through 07/31/2006. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~11375482~~ 11/735,482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	005207.P001XC2

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6857102	B1	2005-02-15	Bickmore et al.	
QL 11-2-10	2	6674445	B1	2004-~~06-06~~ 01	Chithambaram et al.	
	3	6300947	B1	2001-10-09	Kanevsky, Dimitri	
	4	5966135	A	1999-10-12	Roy et al.	
	5	6011905	A	2000-01-04	Huttenlocher et al.	
	6	6057854	A	2000-05-02	Davis, Jr. et al.	
	7	6337693	B1	2002-01-08	Roy et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~11375482~~ 11/735,482
	Filing Date	2007-04-15
	First Named Inventor	Rohrabaugh
	Art Unit	2176
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	005207.P001XC2

Sdl

11-2-10

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20050144256	A1	2005-06-30	Blumberg, Robert	
	2	20020112237	A1	2002-08-15	Ketts, Brett R.	
	3	20010047428	A1	2001-11-29	Hunter, Kevin D.	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	BENJAMIN B. BEDERSON ET AL., Pad++: A Zoomable Graphical Sketchpad For Exploring Alternate Interface Physics, September 19, 1995, http://www.cs.unm.edu/pad++	☐
	2	BENJAMIN B. BEDERSON ET AL., A Zooming Web Browser, SPIE 1996, http://www.cs.umd.edu/hcil/jazz/learn/papers/spie-96-webbrowser.pdf	☐

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UNITED STATES PATENT AND TRADEMARK OFFICE

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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	11/30/2010	7844889	005207.P001XC2	2111

59860 7590 11/10/2010

LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 848 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Gary B. Rohrabaugh, Bellingham, WA;
Scott A. Sherman, Seattle, WA;

PTO/SB/44 (09-07)
Approved for use through 08/31/2013. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,844,889

APPLICATION NO.: 11/735,482

ISSUE DATE : November 30, 2010

INVENTOR(S) : Gary B. Rohrabaugh, Scott A. Simpson

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

At Col. 6, line 34, delete “of” between “first” and “exemplary”
At Col. 7, line 3, replace “request” with “requested”
At Col. 11, line 28, replace “FIG.” with “FIGS.”
At Col. 12, line 25, replace “TΔX” with “TAX”
At Col. 20, line 48, add --)-- after “FIG. 7B”

In Claim 45,
At Col. 26, line 55, add --page-- between “additional” and “layout”

In Claim 46,
At Col. 27, line 1, please remove the hyphen in “objects-associated”

In Claim 77,
At Col. 29, line 36, replace “machine” with “device”
At Col. 29, line 38, replace “machine” with “device”

In Claim 84,
At Col. 30, line 50, replace “of” with “on”

In Claim 108,
At Col. 33, line 12, replace “iterative” with “iteratively”

In Claim 109,
At Col. 33, line 16, delete “a” between “wherein” and “scaled”

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Law Office of R. Alan Burnett, P.S.
4108 131st Ave SE
Bellevue, WA 98006

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:)
Rohrabaugh et al.)
)
U.S. Patent No. 7,844,889)
Serial No. 11/735,482)
Issue Date: November 30, 2010)
)
For: RESOLUTION INDEPENDENT)
DISPLAY OF INTERNET CONTENT)

Attention Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.R.F. § 1.322

Sir:

In accordance with the provisions of 37 C.F.R. § 1.322 and 35 U.S.C. § 254, the Commissioner is respectfully requested to issue a Certificate of Correction to correct errors in the above-identified patent.

A USPTO form SB/44 is being filed electronically herewith containing the requested corrections. Patentees respectfully assert the errors being corrected were made inadvertently and without deceptive intent.

The fee of $100 under 37 C.F.R. § 120(a) is being submitted herein via EFS.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: *December 5, 2010*

/S/ R. Alan Burnett
R. Alan Burnett
Reg. No. 46,149

4108 131st Ave SE
Bellevue, WA 98006

Electronic Patent Application Fee Transmittal

Application Number:	11735482
Filing Date:	15-Apr-2007
Title of Invention:	RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	R. Burnett
Attorney Docket Number:	005207.P001XC2

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Certificate of correction	1811	1	100	100
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**100**

Electronic Acknowledgement Receipt	
EFS ID:	8968586
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	06-DEC-2010
Filing Date:	15-APR-2007
Time Stamp:	00:57:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$100
RAM confirmation Number	8877
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Request for Certificate of Correction	Rohrabaugh_P001XC2_Certificate_of_Correction_sb0044_print.pdf	202883 67676eb3cfe1af8b0f479349f84b93434ac53e25	no	2
Warnings:					
Information:					
2	Request for Certificate of Correction	Rohrabaugh_P001XC2_Certificate_of_Correction_transmittal.pdf	17487 d05bc5328cbd3cdc1df7fb8d0b2a8f68e3b8cf9a	no	2
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	30076 453f30957ffcd44ff41963d6db04cbc9fa447207	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	250446		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:)
Rohrabaugh et al.)
)
U.S. Patent No. 7,844,889)
Serial No. 11/735,482)
Issue Date: November 30, 2010)
)
For: RESOLUTION INDEPENDENT)
DISPLAY OF INTERNET CONTENT)

Attention Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.R.F. § 1.322 – CORRECTION TO INVENTORSHIP

Sir:

In accordance with the provisions of 37 C.F.R. § 1.322 and 35 U.S.C. § 254, the Commissioner is respectfully requested to issue a Certificate of Correction to correct errors in the above-identified patent.

A previous submission filed electronically on December 6, 2010 contained in error in USPTO form SB/44 for the name of one of the listed inventors. In particular, inventor Scott A. Sherman was incorrectly listed as Scott A. Simpson. The inventorship on the above-identified patent is correct.

A corrected USPTO form SB/44 is being filed electronically herewith with the correct inventorship information. Patentees request that the corrected USPTO form

SB/44 be added to the official record. The fee of $100 under 37 C.F.R. § 120(a) was previously submitted via EFS.

Respectfully submitted,

LAW OFFICE OF R. ALAN BURNETT, PS

Date: December 6, 2010

/S/ R. Alan Burnett
R. Alan Burnett
Reg. No. 46,149

4108 131st Ave SE
Bellevue, WA 98006

PTO/SB/44 (09-07)
Approved for use through 08/31/2013. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,844,889

APPLICATION NO.: 11/735,482

ISSUE DATE : November 30, 2010

INVENTOR(S) : Gary B. Rohrabaugh, Scott A. Sherman

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

At Col. 6, line 34, delete “of” between “first” and “exemplary”
At Col. 7, line 3, replace “request” with “requested”
At Col. 11, line 28, replace “FIG.” with “FIGS.”
At Col. 12, line 25, replace “TΔX” with “TAX”
At Col. 20, line 48, add --)-- after “FIG. 7B”

In Claim 45,
At Col. 26, line 55, add --page-- between “additional” and “layout”

In Claim 46,
At Col. 27, line 1, please remove the hyphen in “objects-associated”

In Claim 77,
At Col. 29, line 36, replace “machine” with “device”
At Col. 29, line 38, replace “machine” with “device”

In Claim 84,
At Col. 30, line 50, replace “of” with “on”

In Claim 108,
At Col. 33, line 12, replace “iterative” with “iteratively”

In Claim 109,
At Col. 33, line 16, delete “a” between “wherein” and “scaled”

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Law Office of R. Alan Burnett, P.S.
4108 131st Ave SE
Bellevue, WA 98006

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	8974219
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	R. Burnett
Filer Authorized By:	
Attorney Docket Number:	005207.P001XC2
Receipt Date:	06-DEC-2010
Filing Date:	15-APR-2007
Time Stamp:	16:48:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	Rohrabaugh_P001XC2_Certificate_of_Correction_Corrected_transmittal.pdf	17944 6a35eb0ae35fa234e21b362eb4998743efe6d008	no	2
Warnings:					
Information:					

2	Request for Certificate of Correction	Rohrabaugh_P001XC2_Certificate_of_Correction_sb0044_print-corrected.pdf	202846 dec4dfbcd9d37720b9f692ecae19f8d99540985e	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	220790	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 7,844,889 B2
APPLICATION NO. : 11/735482
DATED : November 30, 2010
INVENTOR(S) : Gary B. Rohrabaugh et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At Col. 6, line 34, delete "of" between "first" and "exemplary"
At Col. 7, line 3, replace "request" with "requested"
At Col. 11, line 28, replace "FIG." with "FIGS."
At Col. 12, line 25, replace "TΔX" with "TAX"
At Col. 20, line 48, add --)-- after "FIG. 7B"

In Claim 45,
At Col. 26, line 55, add --page-- between "additional" and "layout"

In Claim 46,
At Col. 27, line 1, please remove the "-" in "objects-associated"

In Claim 77,
At Col. 29, line 36, replace "machine" with "device"
At Col. 29, line 38, replace "machine" with "device"

In Claim 84,
At Col. 30, line 50, replace "of" with "on"

In Claim 108,
At Col. 33, line 12, replace "iterative" with "iteratively"

In Claim 109,
At Col. 33, line 16, delete "a" between "wherein" and "scaled"

Signed and Sealed this
First Day of February, 2011

David J. Kappos

David J. Kappos
Director of the United States Patent and Trademark Office

PTO/SB/81 (01-09)
Approved for use through 11/30/2011. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	11/735482
Filing Date	04/15/2007
First Named Inventor	Gary Rohrabaugh
Title	Resolution Independent Display of Inter ...
Art Unit	2176
Examiner Name	Tran, Quoc A.
Attorney Docket Number	005207.P001XC2

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: **29000**

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the:

☐ Applicant/Inventor.

OR

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Assignee of Record

Signature	Gary B Rohrabaugh	Date	3-10-2011
Name	Gary B. Rohrabaugh	Telephone	360 676 0999
Title and Company	Manager, SoftView L.L.C.		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/96 (04-09)
Approved for use through 05/31/2009. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SoftView L.L.C.

Application No./Patent No.: 11/735,482 Filed/Issue Date: 04/15/2007

Titled: Resolution Independent Vector Display of Internet Content

SoftView L.L.C. , a Partnership

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. [X] the assignee of the entire right, title, and interest in;

2. [ ] an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. [ ] the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Gary B. Rohrabaugh and Scott A. Sherman To: SoftSource Corporation

The document was recorded in the United States Patent and Trademark Office at
Reel 020217 , Frame 0564 , or for which a copy thereof is attached.

2. From: SoftSource Corporation To: SoftSource LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 020217 , Frame 0569 , or for which a copy thereof is attached.

3. From: SoftSource LLC To: Gary B. Rohrabaugh

The document was recorded in the United States Patent and Trademark Office at
Reel 020217 , Frame 0574 , or for which a copy thereof is attached.

[X] Additional documents in the chain of title are listed on a supplemental sheet(s).

[ ] As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Gary B Rohrabaugh 3-10-2011

Signature Date

Gary B. Rohrabaugh Manager

Printed or Typed Name Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/96 (04-09)
Approved for use through 05/31/2009. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SoftView L.L.C. (Supplemental Sheet)

Application No./Patent No.: 11/735,482 Filed/Issue Date: 04/15/2007

Titled: Resolution Independent Vector Display of Internet Content

SoftView L.L.C. , a Partnership

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy therefore is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Gary B. Rohrabaugh To: SoftView L.L.C.

The document was recorded in the United States Patent and Trademark Office at
Reel 024358 , Frame 0179 , or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____ , Frame _____ , or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

_____ _____
Signature Date

_____ _____
Printed or Typed Name Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	9791793
Application Number:	11735482
International Application Number:	
Confirmation Number:	2111
Title of Invention:	RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	59860
Filer:	Greg H. Gardella/Cortney Drew
Filer Authorized By:	Greg H. Gardella
Attorney Docket Number:	005207.P001XC2
Receipt Date:	01-APR-2011
Filing Date:	15-APR-2007
Time Stamp:	14:46:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		161539-P001XC2_Power.pdf	205258 02767cf5cb0f1e27a3327e2f2e768e81a9fa81fc	yes	3

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Power of Attorney	1	1
	Assignee showing of ownership per 37 CFR 3.73(b).	2	3
Warnings:			
Information:			
	Total Files Size (in bytes):	205258	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

29000
IRELL & MANELLA LLP
1800 AVENUE OF THE STARS
SUITE 900
LOS ANGELES, CA 90067

POA ACCEPTANCE LETTER

OC000000047012084

Date Mailed: 04/08/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/01/2011.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/hgray/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

59860
LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

POWER OF ATTORNEY NOTICE

OC000000047012063

Date Mailed: 04/08/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/01/2011.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/hgray/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:

Gary B. Rohrabaugh

Patent No.: 7,844,889 11735482

Issued: November 30, 2010

For: RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT

CHANGE IN CLAIM OF ENTITY STATUS

Director of USPTO
Attn: Maintenance Fee
2051 Jamieson Ave., Ste. 300
Alexandria, VA 22314

Dear Sir:

The Patent Owner hereby submits that the above identified Patent is no longer qualifies as a small entity, and therefore requests that the status be changed to large entity.

Respectfully submitted,
IRELL & MANELLA LLP

Babak Redj

Babak Redjaian, Reg. No. 42,096

Dated: March 19, 2014

1800 Avenue of the Stars, Ste. 900
Los Angeles, CA 90067-4276
Telephone: (949) 760-0991

Certificate of Mailing
I hereby certify that this correspondence is being transmitted via facsimile, addressed to the Director of the USPTO on March 19, 2014.

Susan Langworthy

Susan Langworthy

PAGE 3/3 * RCVD AT 3/19/2014 5:48:18 PM [Eastern Daylight Time] * SVR:W-PTOFAX-002/27 * DNIS:2736500 * CSID:NBRGHTFX * DURATION (mm-ss):01-11

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
11/735,482	**12/23/2024 01:40:23 PM Z ET**	**005207.P001XC2**

Title of Invention

RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	7844889
CONFIRMATION #	2111	FILED BY	Alan Burnett
PATENT CENTER #	68492461	FILING DATE	04/15/2007
CUSTOMER #	29000	FIRST NAMED INVENTOR	Gary B. Rohrabaugh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
sb0081a_POA_Patent_7844889_signed.pdf	1	Power of Attorney	401 KB
sb0096_Statement_Under_37_CFR_3.73b_2024_signed.pdf	2	Assignee showing of ownership per 37 CFR 3.73	564 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
sb0081a_POA_Patent_7844889_signed.pdf	28E579EA6D9FEBF8F8E8EA4386BED9D8D6FB9AB195A2D02F74C280671301DBF46AE857010F0CF2E24665C21465047D7F7160B444F4A82F3CCAA2FFC8264D09A5

sb0096_Statement_Under_37_CFR_3.73b_2024_signed.pdf

3725ACB8FE01B37C36FC47B5FAA8876CFDE837BC6A54F24C
FE68092ED6F947574F9B7E8D2E64ACD634505EB59D5FD642E
B595A3D59A9705D69391EC147229710

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/96 (11-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SoftView L.L.C.

Application No./Patent No.: 7844889 Filed/Issue Date: November 30, 2010

Titled:
Resolution Independent Vector Display of Internet Content

Softview L.L.C., a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel_____, Frame_____, or a copy* is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Gary B. Rohrabaugh and Scott A. Sherman To: SoftSource Corporation
The document was recorded in the United States Patent and Trademark Office at
Reel 020217, Frame 0564, or a copy* is attached.

2. From: SoftSource Corporation To: SoftSource LLC
The document was recorded in the United States Patent and Trademark Office at
Reel 020217, Frame 0569, or a copy* is attached.

3. From: SoftSource LLC To: Gary B. Rohrabaugh
The document was recorded in the United States Patent and Trademark Office at
Reel 020217, Frame 0574, or a copy* is attached.

☒ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ *As required by 37 CFR 3.73(b)(1)(i), if a copy/copies is/are attached, the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Richard Paulson
Signature

12/23/24
Date

Richard Paulson
Printed or Typed Name

Manager
Title or Registration Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/96 (11-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SoftView L.L.C.

Application No./Patent No.: 7844889 Filed/Issue Date: November 30, 2010

Titled:
Resolution Independent Vector Display of Internet Content

Softview L.L.C., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ■ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel_____, Frame_____, or a copy* is attached.

OR

B. ■ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Gary B. Rohrabaugh To: SoftView L.L.C.

The document was recorded in the United States Patent and Trademark Office at
Reel 024358, Frame 0179, or a copy* is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ *As required by 37 CFR 3.73(b)(1)(i), if a copy/copies is/are attached, the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

_____ _____
Signature Date

_____ _____
Printed or Typed Name Title or Registration Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/81A (12-08)
Approved for use through 09/30/2025. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	7844889
Issue Date	November 30, 2010
First Named Inventor	Gary B. Rohrabaugh
Title	Resolution Independent Vector Display of Internet Content
Attorney Docket No.	005207.P001XC2

I hereby revoke all previous powers of attorney given in the above-identified patent. X

☐ A Power of Attorney is submitted herewith.

OR

■ I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: **59860**

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified patent to:

■ The address associated with the above-identified Customer Number.

OR

☐ The address associated with the Customer Number identified in the box at right:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the:

☐ Inventor, having ownership of the patent.

OR

☒ Patent owner.

Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Inventor or Patent Owner

Signature	Richard Paulson	Date	12/23/24
Name	Richard Paulson	Telephone	360 733-1087
Title and Company	Manager, SoftView L.L.C.		

NOTE: Signatures of all the inventors or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below.

■ A total of 1 forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **If filing this completed form by mail, send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/66 (11-23)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Docket Number (Optional) 005207.P001XC2

Mail to: **Mail Stop Petition**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. 7844889 Application Number 11/735,482

Issue Date November 30, 2010 Filing Date April 15, 2007

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

Also complete the following information, if applicable.

The above-identified patent

☐ is a reissue of original Patent No. _____ original issue date _____

original application number _____

original filing date _____.

☐ resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____

filed on _____.

NOTE: A grantable petition requires the following items:

(1) Petition fee;
(2) Maintenance fee; and
(3) Statement that the delay in payment of the maintenance fee was unintentional.

CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this paper (* along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or being transmitted to the USPTO by the USPTO patent electronic filing system, or by facsimile to (571) 273-8300, on the date shown below.

December 26, 2024
Date

/s/ R. Alan Burnett
Signature

R. Alan Burnett
Typed or Printed Name of Person Signing Certificate

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0016. Public burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/66 (11-23)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

1. SMALL ENTITY

☐ Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

☐ Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

☐ Patentee certifies, or has previously certified, micro entity status. See 37 CFR 1.29
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

☐ Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(i).

5. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
☐ $	3½ yr fee	(1551)	☐ $	3½ yr fee	(2551)	☐ $	3½ yr fee	(3551)
☐ $	7½ yr fee	(1552)	☐ $	7½ yr fee	(2552)	☐ $	7½ yr fee	(3552)
☑ $ 7700	11½ yr fee	(1553)	☐ $	11½ yr fee	(2553)	☐ $	11½ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED $ 7700

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

$ 2100 Undiscounted (Fee Code 1558); or

$ _____ Small Entity (Fee Code 2558); or

$ _____ Micro Entity (Fee Code 3558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee.

PETITION FEE BEING SUBMITTED $ 2100

7. MANNER OF PAYMENT

☐ Enclosed is a check for the sum of $ _____

☑ Please charge Deposit Account No. 602556 the sum of $ 9800

☐ Payment by credit card. Form PTO-2038 is attached.

☐ Payment made via USPTO patent electronic filing system.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

☑ The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. 602556

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

9. OVERPAYMENT

As to any overpayment made, please

☑ Credit to Deposit Account No. 602556

OR

☐ Send refund check

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information, such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form (PTO-2038) submitted for payment purposes), is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicant should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms (PTO-2038) submitted for payment purposes are not retained in the application file and therefore are not publicly available.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

Petitioner is reminded that a delay resulting from a deliberately chosen course of action or a change in circumstance is not an unintentional delay.

Petitioner is further reminded that a person seeking reinstatement of an expired patent should not make a statement that the delay in payment of the maintenance fee was unintentional unless the entire delay was unintentional, including the period from discovery that the maintenance fee was not timely paid until payment of the maintenance fee. For example, a statement that the delay in payment of the maintenance fee was unintentional would not be proper when the patentee becomes aware of an unintentional failure to timely pay the maintenance fee and then intentionally delays filing a petition for reinstatement of the patent under 37 CFR 1.378. See MPEP 2590.

NOTE: Where the petition under 37 CFR 1.378 is filed more than two years after the date the patent expired for nonpayment of the maintenance fee, the United States Patent and Trademark Office requires an additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional. This requirement is in addition to the requirement to provide a statement that the entire delay was unintentional. See *Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020). See MPEP 711.03(c)(II)(C)-(F) for additional guidance on the information required to establish that the entire delay was unintentional.

☑ Because this petition under 37 CFR 1.378 is being filed more than two years after the date the patent expired for nonpayment of the maintenance fee, additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional is enclosed herewith.

PTO/SB/66 (11-23)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

11. PETITIONER REQUESTS THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT BE REINSTATED.

December 26, 2024
Date

/s/ R. Alan Burnett
Signature(s) of Petitioner

46149
Registration Number, if applicable

R. Alan Burnett
Typed or Printed Name

425 417-4729
Telephone Number

Law Office of R. Alan Burnett, PS
Address

4108 131st Ave SE Bellevue WA 98006
Address

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with § 1.33(b)."

12. ENCLOSURES

- [x] Maintenance Fee Payment
- [x] Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
- [x] Additional sheet(s) containing statement establishing unintentional delay
- [ ] Other: _____

Additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional

I am the attorney who drafted and prosecuted U.S. Patent Application No. 11/735,482, which issued as U.S. Patent No. 7,844,889 on November 30, 2010. On April 1, 2011, a Power of Attorney for the '889 patent was filed by Irell & Manella (Customer Number 29000) with a Correspondence address of:

> Irell & Manella LLP
> 840 Newport Center Dr., Ste. 400
> Newport Beach, CA
> UNITED STATES

On April 8, 2011, the USPTO mailed the NOTICE REGARDING CHANGE OF POWER OF ATTORNEY to my law firm (see below).

Earlier this month I wanted to look at some documents in the prosecution history of the '889 patent, and signed into Patent Center to do so. The Applicant Data page showed the following (same as today):

11/735,482 | 005207.P001XC2:

RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT PUBLIC VIEW

Application #	Confirmation #	Attorney Docket #	Patent #	Filing or 371 (c) date	Status
11/735,482	2111	005207.P001XC2	7844889 Download PDF Text Issued - 11/30/2010	04/15/2007	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362 01/02/2023

This was the first time I became aware that the '889 patent had expired due to nonpayment of maintenance fees.

According to USPTO transaction records, a Maintenance Fee Reminder was mailed (presumably) to Irell and Manella on July 18, 2022.

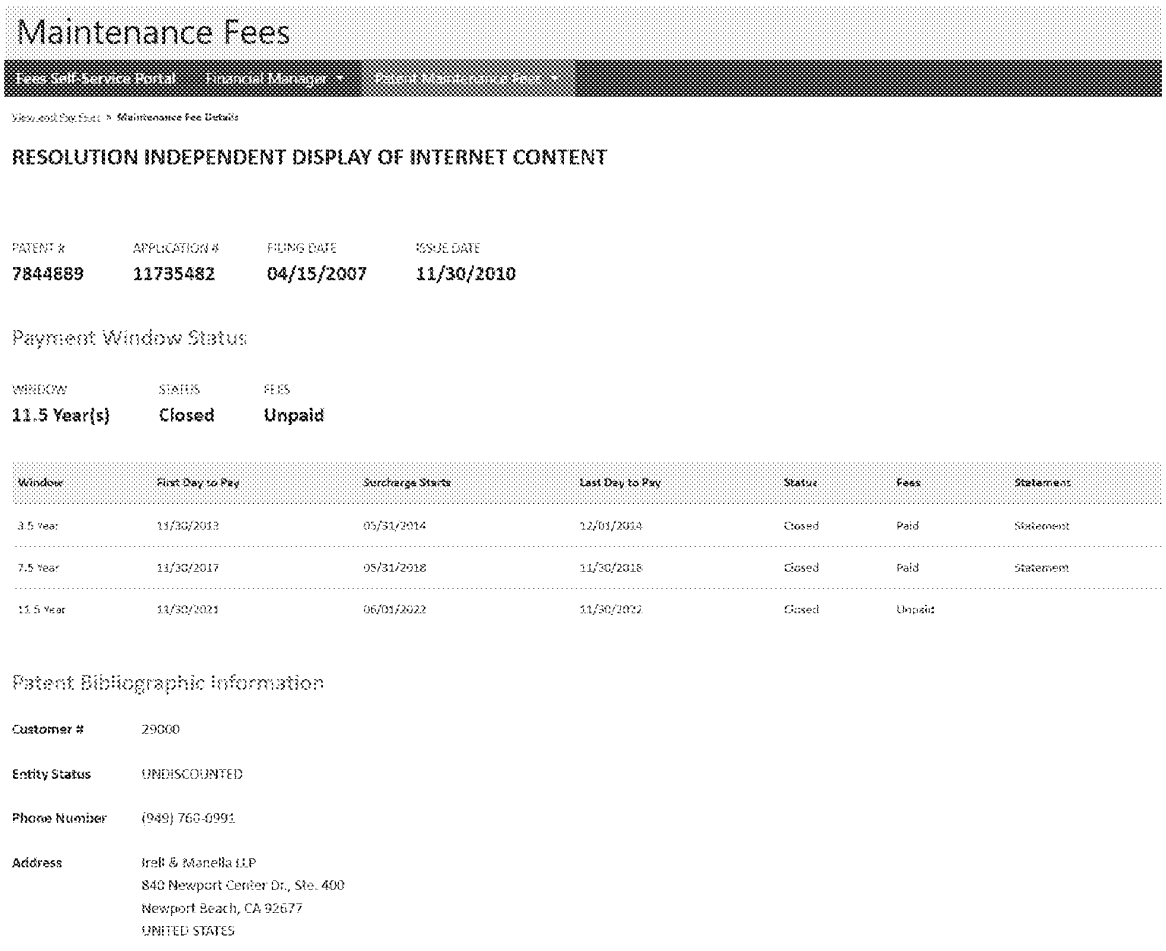
Documents & transaction history

Documents | Transactions

Showing 1 to 68 of 68 entries

Date	Transaction Description
01/02/2023	Expire Patent
07/18/2022	Maintenance Fee Reminder Mailed

I attempted to obtain a copy of the Maintenance Fee Statement from the USPTO Maintenance Fees portal, but an electronic copy of the Statement is not available.



Maintenance Fees

Fees Self-Service Portal | Financial Manager | Patent Maintenance Fees

View and Pay Fees > Maintenance Fee Details

RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT

PATENT #	APPLICATION #	FILING DATE	ISSUE DATE
7844889	11735482	04/15/2007	11/30/2010

Payment Window Status

WINDOW	STATUS	FEES
11.5 Year(s)	Closed	Unpaid

Window	First Day to Pay	Surcharge Starts	Last Day to Pay	Status	Fees	Statement
3.5 Year	11/30/2013	05/31/2014	12/01/2014	Closed	Paid	Statement
7.5 Year	11/30/2017	05/31/2018	11/30/2018	Closed	Paid	Statement
11.5 Year	11/30/2021	06/01/2022	11/30/2022	Closed	Unpaid	

Patent Bibliographic Information

Customer #	29000
Entity Status	UNDISCOUNTED
Phone Number	(949) 760-0991
Address	Irell & Manella LLP 840 Newport Center Dr., Ste. 400 Newport Beach, CA 92677 UNITED STATES

This portal also includes the notice:

Patent expired on 11/30/2022 due to non-payment of maintenance fee.

Return to View and Pay Fees

I have no record of any communication from someone at Irell & Manella concerning the 11 ½ year maintenance fee being due, nor any recollection of communication of this information to me. The named inventor of the '889 patent, Gary Rohrabaugh, died in February 2020. Gary would have been the person Irell & Manella would have contacted regarding payment of maintenance fees, but he was not available.

To file this petition and pay the petition fee and maintenance fee it was my belief I needed to file a Power of Attorney, along with documentation showing assignee ownership per 37 CFR 3.73. The Power of Attorney and 37 CFR 3.73 supporting documentation was filed on December 23, 2024.

I respectfully request this petition be granted and payment of the 11 ½ year maintenance fee be accepted.

Respectfully submitted

/s/ R. Alan Burnett

R. Alan Burnett
Law Office of R. Alan Burnett PS
4108 131st Ave SE
Bellevue WA 98006
425 417-4729

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

59860
LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

POWER OF ATTORNEY NOTICE

OC000000047012063

Date Mailed: 04/08/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/01/2011.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/hgray/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
11/735,482	**12/26/2024 11:11:27 AM Z ET**	**005207.P001XC2**

Title of Invention

RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	7844889
CONFIRMATION #	2111	FILED BY	Alan Burnett
PATENT CENTER #	68516758	FILING DATE	04/15/2007
CUSTOMER #	29000	FIRST NAMED INVENTOR	Gary B. Rohrabaugh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
7844889_SB-66_Petition.pdf	8	Petition for review by the Office of Petitions	450 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
7844889_SB-66_Petition.pdf	43497A399612FB1DA52ECC488C730DFEEA32120E363BA89B7 D566C0314D92A5094C3542EDF369D7FDE5AF441D1C432DF8 5CC028A413C673A3A2E3AF77DA1A4CC

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

59860
LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

POA ACCEPTANCE LETTER

OC000000082809081

Date Mailed: 01/13/2025

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/26/2024.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ggasgedom/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

29000
Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92677

POWER OF ATTORNEY NOTICE

OC000000082808996

Date Mailed: 01/13/2025

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/26/2024.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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/ggasgedom/

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2	2111

59860 7590 02/27/2025

LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

EXAMINER	
TRAN, QUOC A	

ART UNIT	PAPER NUMBER
2176	

MAIL DATE	DELIVERY MODE
02/27/2025	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 7,844,889	:	
Issue Date: 30 Nov 2010	:	DECISION ON PETITION
Application No. 11/735,482	:	
Filing or 371(c) Date: 15 Apr 2007	:	
Attorney Docket No. 005207.P001XC2	:	

This is a decision on the petition under 37 CFR 1.378(b), filed December 26, 2024, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The petition is **DISMISSED**.

Any request for reconsideration under 37 CFR 1.378(d) may be filed within **TWO (2) MONTHS** from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. This is not a final agency action within the meaning of 5 USC 704.

A maintenance fee payment is required in a patent at 3.5 years, 7.5 years, and 11.5 years from the date of issuance. A petition may be filed to accept the unintentionally delayed payment of a maintenance fee in the event that a maintenance fee is not timely paid.

The patent became expired for failure to timely pay the 11 ½-year maintenance fee not later than November 30, 2022.

A petition to accept the unintentionally delayed payment of a maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) must be accompanied by: (1) a statement that the delay was unintentional; (2) payment of the appropriate maintenance fee, unless previously submitted; and (3) payment of the petition fee set forth in 37 CFR 1.17(m). Where there is a question as to whether the delay in payment of the maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) was unintentional, the Director may require additional information. This change went into effect on December 18, 2013, the effective date of the Patent Law Treaties Implementation Act, and applies to this petition. The petition lacks items (1), (2), and (3) above regarding the ~insert 3.5, 7.5 or 11.5- year maintenance fee.

Regarding item (1), the petition does not satisfy 1.378(b)(3). Petitioner has submitted the required statement of unintentional delay. However, the Director may require additional information where there is a question whether the delay was unintentional.

The USPTO requires additional information concerning whether a delay in seeking acceptance of a delayed maintenance fee payment was unintentional where the petition to accept such maintenance fee payment was filed more than two years after the date the patent expired for nonpayment. *See Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020).

In this instance, a petition under 37 CFR 1.378(b) was filed more than two years after the patent expired for nonpayment of a maintenance fee. Therefore, petitioner must provide sufficient information of the facts and circumstances surrounding the entire delay to support a conclusion that the entire delay was unintentional. *Id.* at 12223. Details regarding the cause of petitioner's nonpayment of a maintenance fee that resulted in expiration of the patent, when the expiration of the patent was discovered, and the delay between discovery of the expiration of the patent and filing of the petition under 37 CFR 1.378(b) are of particular relevance. Petitioner should provide relevant dates and identify responsible parties where appropriate.

Petitioner should note that the party whose delay is relevant is the party having the right or authority to make the timely maintenance fee payment in the above-identified patent. When the entire right, title, and interest in patent have been assigned to a third party (and thus does not retain any legal or equitable interest in the invention), the delay of the patentee to whom the patent was issued is irrelevant in evaluating whether the delay was unintentional. *See Kim v. Quigg*, 718 F. Supp. 1280, 1284, 12 USPQ2d 1604, 1607-08 (E.D. Va. 1989).

See MPEP §§ 711.03(c)(II)(C)-(H) and 2590(I) for additional guidance on the information required to establish that the entire delay was unintentional.

Petitioner's counsel, R. Alan Burnett, states that he prosecuted the application on behalf of the inventor, but that in 2011, after the issuance of the patent, a revocation and new power of attorney was filed, naming the firm associated with Customer No. 29000, Irell & Manella LLP (hereinafter I&M) as the attorneys of record. Counsel further states that he discovered earlier this month (December 2024) that the patent had expired while reviewing documents related to the prosecution history of the subject patent. This was the first time petitioner became aware that the patent had expired. Petitioner states that he believes a Maintenance Fee Reminder was mailed to I&M on July 18, 2022, but has no record of any communication from a person at I&M concerning the 11 ½ year maintenance fee being due. Petitioner states that the named inventor Gary Rohrabaugh, died in February of 2020, and would have been the person I&M would have contacted regarding payment of the maintenance fees.

Petitioner must state whether any person or entity was engaged with paying or tracking the maintenance fee at the time the 11 ½ year maintenance fee was due. In this regard, it is noted that a revocation and power of attorney to the attorneys associated with Customer Number 29000 (I&M) was filed April 1, 2011. The revocation and power of attorney was signed by Gary B. Rohrabaugh on behalf of the assignee. As such, petitioner should verify whether I&M was in fact responsible for tracking and/or paying the maintenance fee, and, if so, why I&M did not timely pay the 11.5-year maintenance fee. Petitioner should additionally state whether I&M received the

maintenance fee reminder mailed July 18, 2022, and, if so, what action was taken in response thereto.

Further, it is noted that there are two named inventors, Gary B. Rohrabaugh and Scott A. Sherman. Petitioner should explain whether joint inventor Sherman was involved at all with the tracking and/or payment of the maintenance fee, and, if so, what his involvement was, and why the maintenance fee was not timely paid. Additionally, if inventor Rohrabaugh was responsible for tracking and payment of the maintenance fee at the time he passed away, did another person or entity assume responsibility for tracking and/or payment of the maintenance fee after inventor Rohrabaugh died?

It is further noted that the explanation of the delay is not signed in accordance with 37 CFR 1.33(b) and 1.4(d)(2)(ii) in that the practitioner's registration number is not provided in the S-signature on the paper containing the explanation of the delay. All amendments and other papers filed in the Office must be signed in accordance with 37 CFR 1.33(b) and 1.4.

Receipt of the petition fee and 11.5-year maintenance fee is acknowledged. No further petition fee or maintenance fee is due in connection with this petition.

Further correspondence with respect to this decision should be delivered through one of the following mediums:

By mail: Mail Stop PETITIONS
Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

By hand: Customer Service Window
Mail Stop Petitions, Knox Building
501 Dulany Street, Room 1D80
Alexandria, VA 22314

By fax: (571)273-8300
ATTN: Office of Petitions

By internet: Patent Electronic System[1]

Any questions concerning this decision may be directed to the undersigned at (571)272-3231.

/DOUGLAS I WOOD/
Attorney Advisor, OPET

[1] www.uspto.gov/patents/apply

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
11/735,482	**04/28/2025 07:56:17 PM Z ET**	**005207.P001XC2**

Title of Invention

RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	7844889
CONFIRMATION #	2111	FILED BY	Alan Burnett
PATENT CENTER #	70200943	FILING DATE	04/15/2007
CUSTOMER #	59860	FIRST NAMED INVENTOR	Gary B. Rohrabaugh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Request_for_Reconsideration_7844889_Maintenance_Fee_Filed.pdf	21	Petition for review by the Office of Petitions	5088 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Request_for_Reconsideration_7844889_Maintenance_Fee_Filed.pdf	6BCCE882929D8F2F30E073AA3ABAD47DABF43B7ABD976F381731AF4C85E2135F957EC52E3750C5D3D7A69FF5CD5C5753A2F9BBC80874F5DE941CB7090DEE17A3

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

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In re Patent No. 7,844,889
Issue Date: 30 Nov 2010
Applicant No. 11/735,482
Filing or 371(c) Date: 15 Apr 2007
Attorney Docket No. 005207.P001XC2

Mail Stop PETITIONS
Commissioner for Patents
Post Office Box 1450
Alexandria, VA 223313-1450

Request for Reconsideration to Accept the Unintentionally Delayed Payment of the 11 ½ year Maintenance Fee for U.S. Patent No. 7,844,889 under 37 C.F.R.1.378(b)

The following comments and evidence are respectfully submitted in response to the DECISION ON PETITION to accept the unintentionally delayed payment of maintenance fee for U.S. Patent No. 7,844,889 (appended hereto). After receiving the DECISION ON PETITION, I contacted Douglas I Wood, Attorney Advisor, OPET. We discussed the best course of action to remedy the missing details and evidence in the dismissed petition, which included clarifying that Gary Rohrabaugh was the co-owner and Manager of SoftView L.L.C. and was the person responsible for paying or authorizing payment of maintenance fees for SoftView's patents (while he was alive) and to have someone at Irell & Manella investigate whether the firm received the Maintenance Fee Reminder, and if so, what they did about it.

Party Having the Right and Authority to Make Timely Payment of Maintenance Fee

The party having the right and authority to make timely payment of the maintenance fee for U.S. Patent No. 7,844,889 was SoftView L.L.C., the assignee of the patent. The '889 patent, filed as U.S. Patent Application No. 11/735,482 on April 15, 2007, is a continuation of U.S. Patent Application No. 09/878,097, filed on June 8, 2001, and which issued as U.S. Patent No. 7,210,099 on April 24, 2007. The inventors of the '099 and '889 patents, Gary B. Rohrabaugh and Scott A. Sherman, assigned their rights to U.S. Patent Application No. 09/878,097 on June 8, 2001 to SoftSource Corporation. The assignment (recorded at Reel: 011891 Frame: 0197, https://legacy-assignments.uspto.gov/assignments/assignment-pat-11891-196.pdf) included, in part, assignment to all continuation applications.

Subsequently, as indicated by the chain of title below, the rights to the '097 application and applications claiming priority thereto, including continuations, were assigned from SoftSource Corporation to SoftSource LLC (September 9, 2004), from SoftSource LLC to Mr. Gary Bruce Rohrabaugh on November 1, 2004, and from Gary B. Rohrabaugh to SoftView L.L.C. on April 23, 2010. Gary Rohrabaugh founded SoftSource Corporation in 1982 and was the founder, co-owner and Manager of SoftSource LLC and SoftView L.L.C. Gary was responsible for all financial decisions for SoftView L.L.C., which included authorization for payment of

maintenance fees. Gary suffered a fatal heart attack on February 27, 2020. After Gary's passing, Richard Paulson took over the Manager role for SoftView L.L.C.

On May 10, 2010, Irell & Manella filed a complaint for patent infringement of U.S. Patent No. 7,461,353 against Apple Inc. and AT&T Mobility LLC (District of Delaware Case 1:10-cv-00389-LPS). Also on May 10, 2010, the April 23, 2010 assignment from Gary B. Rohrabaugh to SoftView L.L.C. was recorded with the United States Patent and Trademark Office Assignment Center.

Attorney's Docket No.: 005207.P001X

ASSIGNMENT (For Execution Prior To Filing Patent Application)

PATENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned, Gary B. Rohrabaugh and Scott A. Sherman

hereby sell, assign, and transfer to SoftSource Corporation a corporation of Delaware, having a principal place of business at Suite 300 1101 W. 120th Street, Broomfield, CO 80021, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Rev. 01/01/2000 (A1)

Assignments (4 total)

Assignment 4

Recordation	Execution date	Date recorded	Properties	Pages
024358/0179	Apr 29, 2010	May 10, 2010	11	5

Conveyance
ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)

Assignor
ROHRABAUGH, GARY B

Correspondent
MATTHEW T. GANT
1806 AVENUE OF THE STARS
LOS ANGELES, CA 90067

Assignee
SOFTVIEW L.L.C.
110 OHIO STREET, SUITE 202
BELLINGHAM, WASHINGTON 98225

Assignment 3

Recordation	Execution date	Date recorded	Properties	Pages
015838/0724	Nov 1, 2004	Nov 8, 2004	1	3

Conveyance
ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor
SOFTSOURCE LLC

Correspondent
GARY ROHRABAUGH
3112 MAPLE RIDGE COURT
BELLINGHAM, WA 98229

Assignee
ROHRABAUGH, MR. GARY BRUCE
3112 MAPLE RIDGE COURT
BELLINGHAM, WASHINGTON 98229

Assignment 2

Recordation	Execution date	Date recorded	Properties	Pages
015656/0458	Sep 9, 2004	Oct 1, 2004	1	3

Conveyance
ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor
SOFTSOURCE CORPORATION

Correspondent
RUSSELL PRITCHETT
A/N DEMOCRAT STREET
BELLINGHAM, WA 98229

Assignee
SOFTSOURCE, LLC
ATTN GARY ROHRABAUGH,MGR. 3112 MAPLE RIDGE COURT
BELLINGHAM, WASHINGTON 98229

Assignment 1

Recordation	Execution date	Date recorded	Properties	Pages
011891/0196	Jun 8, 2001	Jun 8, 2001	1	3

Conveyance
ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)

Assignor
ROHRABAUGH, GARY B.
SHERMAN, SCOTT A.

Correspondent
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
R. ALAN BURNETT
12400 WILSHIRE BOULEVARD
7TH FLOOR
LOS ANGELES, CA 90025

Assignee
SOFTSOURCE CORPORATION
SUITE 300 1101 W. 120TH STREET
BROOMFIELD, COLORADO 80021

I am the attorney who drafted and prosecuted U.S. Patent Application No. 11/735,482, which issued as U.S. Patent No. 7,844,889 on November 30, 2010. On April 1, 2011, a Power of Attorney for the '889 patent was filed by Irell & Manella (Customer Number 29000) with a Correspondence address of:

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA
UNITED STATES

On April 8, 2011, the USPTO mailed a NOTICE REGARDING CHANGE OF POWER OF ATTORNEY to my law firm.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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11/735,482	04/15/2007	Gary B. Robrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

59860
LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

POWER OF ATTORNEY NOTICE

OC000000047012083

Date Mailed: 04/08/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

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/hgray/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

On April 8, 2011, the USPTO also mailed a NOTICE OF ACCEPTANCE OF ATTORNEY to Irell & Manella LLP.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2

CONFIRMATION NO. 2111

29000
IRELL & MANELLA LLP
1800 AVENUE OF THE STARS
SUITE 900
LOS ANGELES, CA 90067

POA ACCEPTANCE LETTER

OC00000004012084

Date Mailed: 04/08/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/01/2011.

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/hgray/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

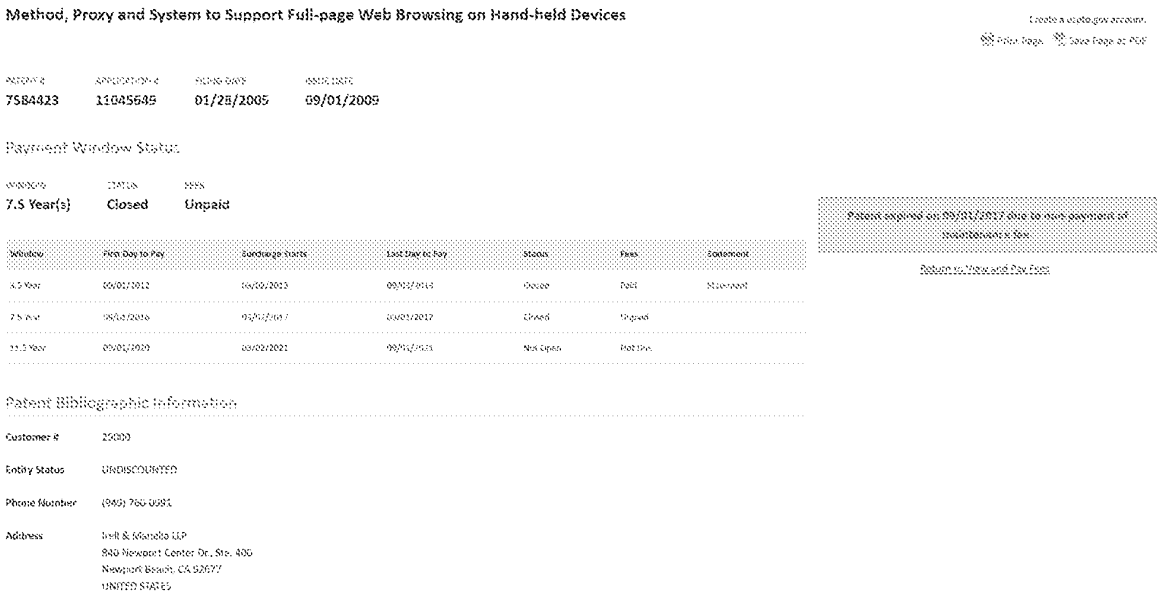
Prior to Gary Rohrabaugh's death, Gary was responsible for authorization and/or payment of all maintenance fees for SoftView's patents. This included the period while representation before the USPTO for these patents was provided by Irell & Manella. At no time was Irell & Manella responsible for payment of any of the maintenance fees (absent authorization from Gary Rohrabaugh) nor required to provide notification to SoftView that any maintenance fee payments were due.

The SoftView Patents include U.S. Patent Nos.
7461353
7210099
7584423
7823083
7831926
7844889
8145995
8386959

8533628
9519729
10083154
10394934

In several (but not all) cases, Gary would call me and discuss whether a maintenance fee should be paid. Gary authorized payment of the maintenance fees for most of SoftView's patents, with the following exceptions.

In the case of the 7.5 year maintenance fee for U.S. Patent No. 7,548,423 it was decided to not pay this maintenance fee and let the '423 patent expire.



Method, Proxy and System to Support Full-page Web Browsing on Hand-held Devices

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Patent #	Application #	Filing Date	Issue Date
7584423	11045645	01/28/2005	09/01/2009

Payment Window Status

Window	Status	Fees
7.5 Year(s)	Closed	Unpaid

Patent expired on 09/01/2017 due to non-payment of maintenance fees

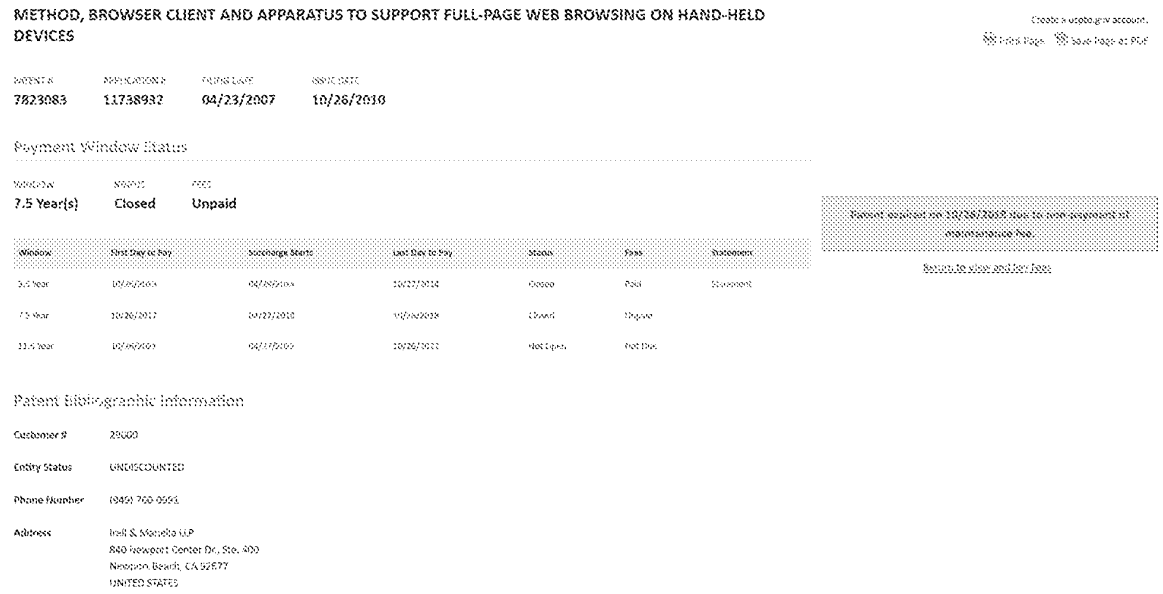
Return to View and Pay Fees

Window	First Day to Pay	Surcharge Starts	Last Day to Pay	Status	Fees	Statement
3.5 Year	09/01/2012	06/02/2013	09/01/2013	Closed	Paid	Statement
7.5 Year	09/01/2016	03/01/2017	09/01/2017	Closed	Unpaid	
11.5 Year	09/01/2020	03/02/2021	09/01/2021	Not Open	Not Due	

Patent Bibliographic Information

Customer #	25000
Entity Status	UNDISCOUNTED
Phone Number	(949) 760-0991
Address	Irell & Manella LLP 840 Newport Center Dr. Ste. 400 Newport Beach, CA 92677 UNITED STATES

In the case of the 7.5 year maintenance fee for U.S. Patent No. 7,823,083 it was decided to not pay this maintenance fee and let the ‘083 patent expire.



METHOD, BROWSER CLIENT AND APPARATUS TO SUPPORT FULL-PAGE WEB BROWSING ON HAND-HELD DEVICES

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PATENT #	APPLICATION #	FILING DATE	ISSUE DATE
7823083	11738932	04/23/2007	10/26/2010

Payment Window Status

WINDOW	STATUS	FEES
7.5 Year(s)	Closed	Unpaid

Patent expired on 10/26/2018 due to non-payment of maintenance fee.

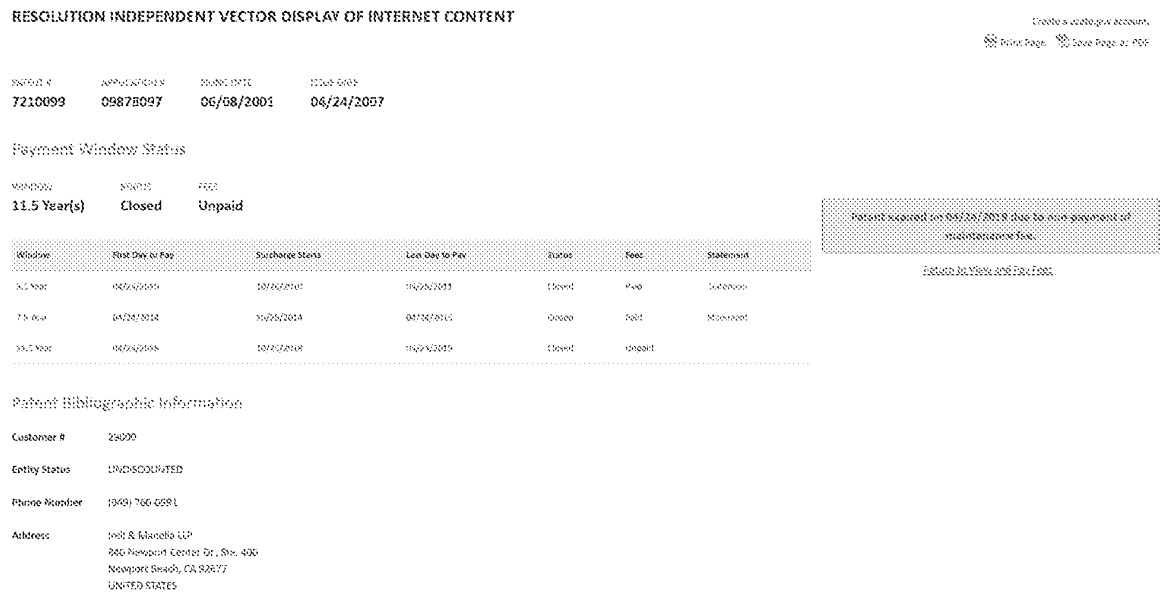
Return to View and Pay Fees

Window	First Day to Pay	Surcharge Starts	Last Day to Pay	Status	Fees	Statement
3.5 Year	10/26/2006	04/26/2007	10/27/2010	Closed	Paid	Statement
7.5 Year	10/26/2010	04/27/2011	10/26/2014	Closed	Unpaid	
11.5 Year	10/26/2014	04/27/2015	10/26/2018	Not Open	Not Due	

Patent Bibliographic Information

Customer #	29600
Entity Status	UNDISCOUNTED
Phone Number	(949) 760-0991
Address	Knobbe Martens LLP 2040 Main Street, 14th Floor Irvine, CA 92614 UNITED STATES

In case of the 11.5 year maintenance fee for U.S. Patent No. 7,210,099, it was decided to not pay this maintenance fee and let the ‘099 patent expire.



RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT

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PATENT #	APPLICATION #	FILING DATE	ISSUE DATE
7210099	09875097	06/08/2001	04/24/2007

Payment Window Status

WINDOW	STATUS	FEES
11.5 Year(s)	Closed	Unpaid

Patent expired on 04/24/2019 due to non-payment of maintenance fee.

Return to View and Pay Fees

Window	First Day to Pay	Surcharge Starts	Last Day to Pay	Status	Fees	Statement
3.5 Year	04/24/2004	10/24/2004	10/24/2007	Closed	Paid	Statement
7.5 Year	04/24/2008	10/24/2008	04/24/2011	Closed	Paid	Statement
11.5 Year	04/24/2012	10/24/2012	10/24/2015	Closed	Unpaid	

Patent Bibliographic Information

Customer #	29600
Entity Status	UNDISCOUNTED
Phone Number	(949) 760-0991
Address	Knobbe Martens LLP 2040 Main Street, 14th Floor Irvine, CA 92614 UNITED STATES

For all the other SoftView patents, Gary authorized payment of their maintenance fees.

At the time of Gary Rohrabaugh's death, there were five pending prosecution matters for SoftView's patents:

- Inter Partes Reexamination 95/000,634 (U.S. Patent No. 7,461,353)
- Inter Partes Reexamination 95/002,132 (U.S. Patent No. 7,461,353)
- Inter Partes Reexamination 95/000,634 (U.S. Patent No. 7,831,926)
- Inter Partes Reexamination 95/000,634 (U.S. Patent No. 7,831,926)
- Ex Partes Reexamination 90/009,995 (U.S. Patent No. 7,831,926)

Representation of these prosecution matters was transferred to my law firm in September of 2020. Representation of all other SoftView patents, including the '889 patent, were not transferred to my law firm and remained with Irell & Manella.

In May 2020, Babak Redjaian of Irell & Manella sent an email to me and Richard Paulson regarding upcoming maintenance fees for U.S. Patent Nos. 7,461,353, 9,519,729, and 8,386,959. I paid (via my law firm's credit card) the maintenance fee for the '353 patent on September 18, 2020, and for the '729 and '959 patents on October 1, 2020.



United States Patent and Trademark Office

Office of the Commissioner for Patents

Patent Maintenance Fee Receipt

PAYER NAME	PAYMENT DATE	RECEIPT GENERATED	PAYMENT TOTAL
Alan Burnett	09/18/2020	09/18/2020 10:31:25	$7,560.00

Payment Details

PAYMENT TYPE	ACCOUNT #	TRANSACTION ID
Credit/Debit Card	******5807	E20209HA31240137

Patent Details

PATENT #	APPLICATION #
7461353	11045757

Fee Code	Attorney Docket #	Fee Code Name	Sale ID	Fee Code Amount
1553		MAINTENANCE FEE DUE AT 11.5 YEARS	E20209HA31240137	$7,400.00
1556		MAINTENANCE FEE SURCHARGE- 11.5 YEAR- LATE PAYMENT WITHIN 6 MONTHS	E20209HA31240137	$160.00



United States Patent and Trademark Office

Office of the Commissioner for Patents

Patent Maintenance Fee Receipt

PAYER NAME	PAYMENT DATE	RECEIPT GENERATED	AMOUNT PAID
Alan Burnett	10/01/2020	10/01/2020 09:22:51	$3,760.00

Payment Details

PAYMENT TYPE	ACCOUNT #	TRANSACTION ID
Credit/Debit Card	******5807	E202001022494235

Patent Details

PATENT #	APPLICATION #
8386959	12955487

Fee Code	Attorney Docket #	Fee Code Name	Sale ID	Fee Code Amount
1552		MAINTENANCE FEE DUE AT 7.5 YEARS	E202001022494235	$3,600.00
1555		MAINTENANCE FEE SURCHARGE- 7.5 YEAR- LATE PAYMENT WITHIN 6 MONTHS	E202001022494235	$160.00



United States Patent and Trademark Office

Office of the Commissioner for Patents

Patent Maintenance Fee Receipt

PAYER NAME	PAYMENT DATE	RECEIPT GENERATED	AMOUNT PAID
Alan Burnett	10/01/2020	10/01/2020 09:22:51	$1,760.00

Payment Details

PAYMENT TYPE	ACCOUNT #	TRANSACTION ID
Credit/Debit Card	******5807	E202001022494235

Patent Details

PATENT #	APPLICATION #
9519729	12941106

Fee Code	Attorney Docket #	Fee Code Name	Sale ID	Fee Code Amount
1551		MAINTENANCE FEE DUE AT 3.5 YEARS	E202001022494235	$1,600.00
1554		MAINTENANCE FEE SURCHARGE- 3.5 YEAR- LATE PAYMENT WITHIN 6 MONTHS	E202001022494235	$160.00

On March 4, 2021, I received an email for Babak Redjaian that included a reminder of a maintenance fee that was due of U.S. Patent No. 8,533,628. I paid the maintenance fee that day.

United States Patent and Trademark Office

Office of the Commissioner for Patents

Patent Maintenance Fee Receipt

PAYER NAME	PAYMENT DATE	RECEIPT GENERATED	PAYMENT TOTAL
Alan Burnett	03/04/2021	03/04/2021 15:20:16	$3,760.00

Payment Details

PAYMENT TYPE	ACCOUNT #	TRANSACTION ID
Credit/Debit Card	******5807	E202134F20130058

Patent Details

PATENT #	APPLICATION #
8533628	11735477

Fee Code	Attorney Docket #	Fee Code Name	Sale ID	Fee Code Amount
1552	181539-0002(P001XC)	MAINTENANCE FEE DUE AT 7.5 YEARS	E202134F20130058	$3,760.00

Discovery of Nonpayment of Maintenance Fee for U.S. Patent No. 7,844,889.

During (approximately) the first week of December 2024 I signed into Patent Center to look at some documents in the prosecution history of the '889 patent. The Applicant Data page showed the following (screenshot from December 26, 2024):

11/735,482 | 005207.P001XC2:

RESOLUTION INDEPENDENT DISPLAY OF INTERNET CONTENT PUBLIC VIEW

Application #	Confirmation #	Attorney Docket #	Patent #	Filing or 371 (c) date	Status
11/735,482	2111	005207.P001XC2	7844889 Download PDF Text Issued - 11/30/2010	04/15/2007	Patent Expired Due to NonPayment of Maintenance Fees Under 37 CFR 1.362 01/02/2023

This was the first time I became aware that the ‘889 patent had expired due to nonpayment of maintenance fees.

According to USPTO transaction records, a Maintenance Fee Reminder was mailed (presumably) to Irell and Manella on July 18, 2022.

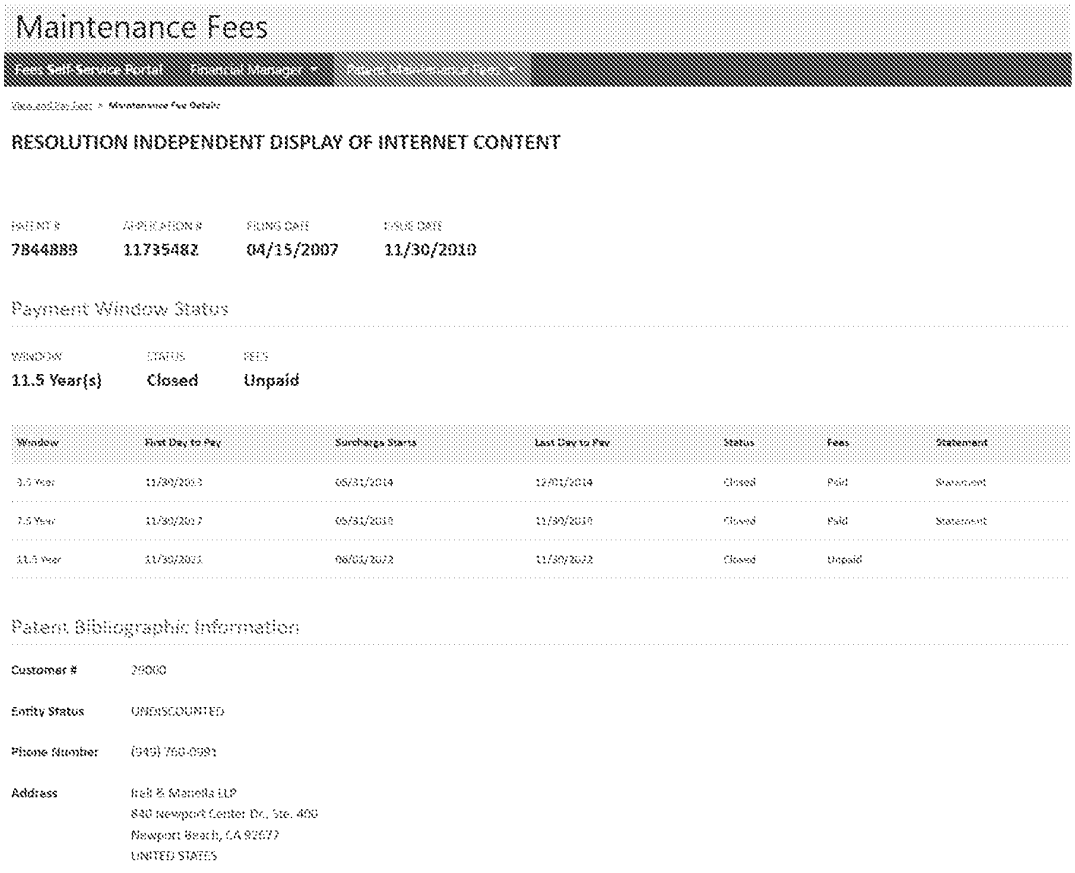
Documents & transaction history

Documents | Transactions

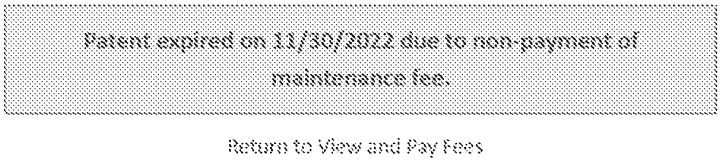
Showing 1 to 68 of 68 entries

Date	Transaction Description
01/02/2023	Expire Patent
07/18/2022	Maintenance Fee Reminder Mailed

I attempted to obtain a copy of the Maintenance Fee Statement from the USPTO Maintenance Fees portal, but an electronic copy of the Statement is not available.



This portal also includes the notice:



Although Irell & Manella was not responsible for tracking when maintenance payments were due (and providing reminders for the same), as a curtesy SoftView was provided with reminders of when maintenance payments were due, which included the email communications discussed above.

Investigation of Maintenance Fee Reminder

I contacted Babak Redjaian of Irell & Manella and requested someone investigate whether the Maintenance Fee Reminder was received and if so, what was done with it. Babak had a paralegal at Irell perform an investigation, which included an inspection of the physical file for the '889 patent and a search of Irell's database records. Babak confirmed the paralegal did not find the Maintenance Fee Reminder in the physical file nor find it in the search of database records.

I have no record of any communication from someone at Irell & Manella concerning the 11 ½ year maintenance fee being due, nor any recollection of communication of this information to me. This is consistent with Irell not receiving the Maintenance Fee Reminder in the mail. Richard Paulson also has no record of any communication from someone at Irell & Manella concerning the 11 ½ year maintenance fee being due, nor any recollection of communication of this information. Had Mr. Paulson been made aware of the maintenance fee, he would have relayed this information to me to have my law firm make payment of the maintenance fee. Had I been made aware of the maintenance fee, I would have obtained authorization from Mr. Paulson to pay the maintenance fee.

I did not track maintenance payment due dates for the '889 patent. My law firm does not (and did not) maintain a docketing system for payment of maintenance fees. As a solo practice my firm's primary patent prosecution client (95+% of my prosecution work from 2010-2021) would file a PTO/SB/47 Fee Address Indication Form proximate to issuance of a patent. For a handful of small clients, I also generally file a PTO/SB/47 Fee Address Indication Form or rely on receiving Maintenance Fee Notices from the USPTO.

I respectfully request this petition be granted and unintentional delay of the payment of the 11 ½ year maintenance fee be accepted.

Respectfully submitted

/R. Alan Burnett/

USPTO Reg. No. 46149

R. Alan Burnett
Law Office of R. Alan Burnett PS
4108 131st Ave SE
Bellevue WA 98006
425 417-4729

Attachments:
DECISION ON PETITION
PTO/SB/66 Form Submitted with Original Petition

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2	2111

59860 7590 02/27/2025

LAW OFFICE OF R. ALAN BURNETT
4108 131ST AVE. SE
BELLEVUE, WA 98006

EXAMINER
TRAN, QUOC A

ART UNIT	PAPER NUMBER
2176	

MAIL DATE	DELIVERY MODE
02/27/2025	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 7,844,889	:	
Issue Date: 30 Nov 2010	:	DECISION ON PETITION
Application No. 11/735,482	:	
Filing or 371(c) Date: 15 Apr 2007	:	
Attorney Docket No. 005207.P001XC2	:	

This is a decision on the petition under 37 CFR 1.378(b), filed December 26, 2024, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The petition is **DISMISSED**.

Any request for reconsideration under 37 CFR 1.378(d) may be filed within **TWO (2) MONTHS** from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. This is not a final agency action within the meaning of 5 USC 704.

A maintenance fee payment is required in a patent at 3.5 years, 7.5 years, and 11.5 years from the date of issuance. A petition may be filed to accept the unintentionally delayed payment of a maintenance fee in the event that a maintenance fee is not timely paid.

The patent became expired for failure to timely pay the 11 ½-year maintenance fee not later than November 30, 2022.

A petition to accept the unintentionally delayed payment of a maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) must be accompanied by: (1) a statement that the delay was unintentional; (2) payment of the appropriate maintenance fee, unless previously submitted; and (3) payment of the petition fee set forth in 37 CFR 1.17(m). Where there is a question as to whether the delay in payment of the maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) was unintentional, the Director may require additional information. This change went into effect on December 18, 2013, the effective date of the Patent Law Treaties Implementation Act, and applies to this petition. The petition lacks items (1), (2), and (3) above regarding the ~insert 3.5, 7.5 or 11.5- year maintenance fee.

Regarding item (1), the petition does not satisfy 1.378(b)(3). Petitioner has submitted the required statement of unintentional delay. However, the Director may require additional information where there is a question whether the delay was unintentional.

The USPTO requires additional information concerning whether a delay in seeking acceptance of a delayed maintenance fee payment was unintentional where the petition to accept such maintenance fee payment was filed more than two years after the date the patent expired for nonpayment. *See Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020).

In this instance, a petition under 37 CFR 1.378(b) was filed more than two years after the patent expired for nonpayment of a maintenance fee. Therefore, petitioner must provide sufficient information of the facts and circumstances surrounding the entire delay to support a conclusion that the entire delay was unintentional. *Id.* at 12223. Details regarding the cause of petitioner's nonpayment of a maintenance fee that resulted in expiration of the patent, when the expiration of the patent was discovered, and the delay between discovery of the expiration of the patent and filing of the petition under 37 CFR 1.378(b) are of particular relevance. Petitioner should provide relevant dates and identify responsible parties where appropriate.

Petitioner should note that the party whose delay is relevant is the party having the right or authority to make the timely maintenance fee payment in the above-identified patent. When the entire right, title, and interest in patent have been assigned to a third party (and thus does not retain any legal or equitable interest in the invention), the delay of the patentee to whom the patent was issued is irrelevant in evaluating whether the delay was unintentional. *See Kim v. Quigg*, 718 F. Supp. 1280, 1284, 12 USPQ2d 1604, 1607-08 (E.D. Va. 1989).

See MPEP §§ 711.03(c)(II)(C)-(H) and 2590(I) for additional guidance on the information required to establish that the entire delay was unintentional.

Petitioner's counsel, R. Alan Burnett, states that he prosecuted the application on behalf of the inventor, but that in 2011, after the issuance of the patent, a revocation and new power of attorney was filed, naming the firm associated with Customer No. 29000, Irell & Manella LLP (hereinafter I&M) as the attorneys of record. Counsel further states that he discovered earlier this month (December 2024) that the patent had expired while reviewing documents related to the prosecution history of the subject patent. This was the first time petitioner became aware that the patent had expired. Petitioner states that he believes a Maintenance Fee Reminder was mailed to I&M on July 18, 2022, but has no record of any communication from a person at I&M concerning the 11 ½ year maintenance fee being due. Petitioner states that the named inventor Gary Rohrabaugh, died in February of 2020, and would have been the person I&M would have contacted regarding payment of the maintenance fees.

Petitioner must state whether any person or entity was engaged with paying or tracking the maintenance fee at the time the 11 ½ year maintenance fee was due. In this regard, it is noted that a revocation and power of attorney to the attorneys associated with Customer Number 29000 (I&M) was filed April 1, 2011. The revocation and power of attorney was signed by Gary B. Rohrabaugh on behalf of the assignee. As such, petitioner should verify whether I&M was in fact responsible for tracking and/or paying the maintenance fee, and, if so, why I&M did not timely pay the 11.5-year maintenance fee. Petitioner should additionally state whether I&M received the

maintenance fee reminder mailed July 18, 2022, and, if so, what action was taken in response thereto.

Further, it is noted that there are two named inventors, Gary B. Rohrabaugh and Scott A. Sherman. Petitioner should explain whether joint inventor Sherman was involved at all with the tracking and/or payment of the maintenance fee, and, if so, what his involvement was, and why the maintenance fee was not timely paid. Additionally, if inventor Rohrabaugh was responsible for tracking and payment of the maintenance fee at the time he passed away, did another person or entity assume responsibility for tracking and/or payment of the maintenance fee after inventor Rohrabaugh died?

It is further noted that the explanation of the delay is not signed in accordance with 37 CFR 1.33(b) and 1.4(d)(2)(ii) in that the practitioner's registration number is not provided in the S-signature on the paper containing the explanation of the delay. All amendments and other papers filed in the Office must be signed in accordance with 37 CFR 1.33(b) and 1.4.

Receipt of the petition fee and 11.5-year maintenance fee is acknowledged. No further petition fee or maintenance fee is due in connection with this petition.

Further correspondence with respect to this decision should be delivered through one of the following mediums:

By mail: Mail Stop PETITIONS
Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

By hand: Customer Service Window
Mail Stop Petitions, Knox Building
501 Dulany Street, Room 1D80
Alexandria, VA 22314

By fax: (571)273-8300
ATTN: Office of Petitions

By internet: Patent Electronic System[1]

Any questions concerning this decision may be directed to the undersigned at (571)272-3231.

/DOUGLAS I WOOD/
Attorney Advisor, OPET

[1] www.uspto.gov/patents/apply

PTO/SB/66 (11-23)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Docket Number (Optional) 005207.P001XC2

Mail to: **Mail Stop Petition**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. 7844889 Application Number 11/735,482

Issue Date November 30, 2010 Filing Date April 15, 2007

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

Also complete the following information, if applicable.

The above-identified patent

☐ is a reissue of original Patent No. _____ original issue date _____

original application number _____

original filing date _____.

☐ resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____

filed on _____.

NOTE: A grantable petition requires the following items:

(1) Petition fee;
(2) Maintenance fee; and
(3) Statement that the delay in payment of the maintenance fee was unintentional.

CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this paper (* along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or being transmitted to the USPTO by the USPTO patent electronic filing system, or by facsimile to (571) 273-8300, on the date shown below.

December 26, 2024
Date

/s/ R. Alan Burnett
Signature

R. Alan Burnett
Typed or Printed Name of Person Signing Certificate

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0016. Public burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/66 (11-23)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

1. SMALL ENTITY

☐ Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

☐ Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

☐ Patentee certifies, or has previously certified, micro entity status. See 37 CFR 1.29
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

☐ Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(i).

5. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
☐ $	3½ yr fee	(1551)	☐ $	3½ yr fee	(2551)	☐ $	3½ yr fee	(3551)
☐ $	7½ yr fee	(1552)	☐ $	7½ yr fee	(2552)	☐ $	7½ yr fee	(3552)
☑ $ 7700	11½ yr fee	(1553)	☐ $	11½ yr fee	(2553)	☐ $	11½ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED $ 7700

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

$ 2100 Undiscounted (Fee Code 1558); or

$ _____ Small Entity (Fee Code 2558); or

$ _____ Micro Entity (Fee Code 3558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee.

PETITION FEE BEING SUBMITTED $ 2100

7. MANNER OF PAYMENT

☐ Enclosed is a check for the sum of $ _____

☑ Please charge Deposit Account No. 602556 the sum of $ 9800

☐ Payment by credit card. Form PTO-2038 is attached.

☐ Payment made via USPTO patent electronic filing system.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

☑ The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. 602556

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

9. OVERPAYMENT

As to any overpayment made, please

☑ Credit to Deposit Account No. 602556

OR

☐ Send refund check

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information, such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form (PTO-2038) submitted for payment purposes), is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicant should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms (PTO-2038) submitted for payment purposes are not retained in the application file and therefore are not publicly available.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

Petitioner is reminded that a delay resulting from a deliberately chosen course of action or a change in circumstance is not an unintentional delay.

Petitioner is further reminded that a person seeking reinstatement of an expired patent should not make a statement that the delay in payment of the maintenance fee was unintentional unless the entire delay was unintentional, including the period from discovery that the maintenance fee was not timely paid until payment of the maintenance fee. For example, a statement that the delay in payment of the maintenance fee was unintentional would not be proper when the patentee becomes aware of an unintentional failure to timely pay the maintenance fee and then intentionally delays filing a petition for reinstatement of the patent under 37 CFR 1.378. See MPEP 2590.

NOTE: Where the petition under 37 CFR 1.378 is filed more than two years after the date the patent expired for nonpayment of the maintenance fee, the United States Patent and Trademark Office requires an additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional. This requirement is in addition to the requirement to provide a statement that the entire delay was unintentional. See *Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020). See MPEP 711.03(c)(II)(C)-(F) for additional guidance on the information required to establish that the entire delay was unintentional.

☑ Because this petition under 37 CFR 1.378 is being filed more than two years after the date the patent expired for nonpayment of the maintenance fee, additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional is enclosed herewith.

PTO/SB/66 (11-23)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

11. PETITIONER REQUESTS THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT BE REINSTATED.

December 26, 2024
Date

/s/ R. Alan Burnett
Signature(s) of Petitioner

46149
Registration Number, if applicable

R. Alan Burnett
Typed or Printed Name

425 417-4729
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Address

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Address

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with § 1.33(b)."

12. ENCLOSURES

- [x] Maintenance Fee Payment
- [x] Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
- [x] Additional sheet(s) containing statement establishing unintentional delay
- [ ] Other: _____



United States Patent and Trademark Office

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Sale Accounting Date:05/07/2025

Sale Item Reference Number	Effective Date
11735482	12/26/2024

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I202557E23376700	1553	MAINTENANCE FEE DUE AT 11.5 YEARS	$7,700.00	Deposit Account
I202557E23376700	1558	PET. DELAY PYMT MAINTAIN PATENT IN FORCE	$2,100.00	Deposit Account

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/735,482	04/15/2007	Gary B. Rohrabaugh	005207.P001XC2	2111

59860 7590 05/09/2025

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TRAN, QUOC A

ART UNIT	PAPER NUMBER
2176	

MAIL DATE	DELIVERY MODE
05/09/2025	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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In re Patent No. 7,844,889	:	
Issue Date: 30 Nov 2010	:	
Application No. 11/735,482	:	DECISION ON PETITION
Filed: 15 Apr 2007	:	
Attorney Docket No. 005207.P001XC2	:	

This is a decision on the renewed petition under 37 CFR 1.378(b), filed April 28, 2025, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The above patent expired for failure to timely submit the 11 ½- year maintenance fee by November 30, 2022. However, since petitioner has demonstrated to the satisfaction of the Director that the delay in timely paying the maintenance fee was unintentional, the petition under 37 CFR 1.378(b) is hereby **GRANTED**.

Petitioner has explained that joint inventor Gary Rohrabaugh was responsible for tracking and payment of all the maintenance fees for patents owned by the assignee, including the subject patent. Inventor Rohrabaugh paid the 3 ½ and 7 ½ year maintenance fees, but passed away on February 27, 2020, however, prior to the due date for the 11 ½ year maintenance fee. Petitioners became aware that the subject patent had expired when current counsel viewed Patent Center during the first week of December, 2024. The initial petition was filed December 26, 2024.

The maintenance fee is hereby accepted and the above-identified patent is reinstated as of the mail date of this decision.

Telephone inquiries should be directed to the undersigned at (571) 272-3231.

/DOUGLAS I WOOD/
Attorney Advisor, OPET