PTO/AIA/15 (03-13)
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	161539-0002(P001XC3)
First Named Inventor	Gary B. Rohrabaugh
Title	SCALEABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
Express Mail Label No.	Electronically Filed

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☐ **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. ☐ **Applicant asserts small entity status.** See 37 CFR 1.27
3. ☐ **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. ☑ **Specification** [*Total Pages* 41] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. ☑ **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 22]
6. **Inventor's Oath or Declaration** [*Total Pages* ____] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. ☐ Newly executed (original or copy)
   b. ☐ A copy from a prior application (37 CFR 1.63(d))
7. ☑ **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   ☐ Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. ☐ Computer Readable Form (CRF)
   b. ☐ Specification Sequence Listing on:
      i. ☐ CD-ROM or CD-R (2 copies); or
      ii. ☐ Paper
   c. ☐ Statements verifying identity of above copies

ADDRESS TO:

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

ACCOMPANYING APPLICATION PAPERS

10. ☐ **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. ☐ **37 CFR 3.73(c) Statement** ☐ **Power of Attorney** (*when there is an assignee*)
12. ☐ **English Translation Document** (*if applicable*)
13. ☐ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☐ Copies of citations attached
14. ☑ **Preliminary Amendment**
15. ☐ **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. ☐ **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. ☐ **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. ☐ **Other:** _____

Note:* (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

☑ The address associated with Customer Number: 29000 **OR** ☐ Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/Babak Redjaian/	Date	November 18, 2016
Name (Print/Type)	Babak Redjaian	Registration No. (Attorney/Agent)	42,096

This collection of information is required by 37 CFR 1.53(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.

GOOGLE EXHIBIT 1003

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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	161539-0002(P001XC3)
	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Gary	B.	Rohrabaugh	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Bellingham	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:

Address 1	3112 Maple Ridge Court		
Address 2			
City	Bellingham	State/Province	WA
Postal Code	98229	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Scott	A.	Sherman	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Seattle	State/Province	WA	Country of Residence	US

Mailing Address of Inventor:

Address 1	2446 Lorentz Pl		
Address 2			
City	Seattle	State/Province	WA
Postal Code	98109	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	161539-0002(P001XC3)
	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	29000		
Email Address	patents@irell.com	Add Email	Remove Email

Application Information:

Title of the Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES		
Attorney Docket Number	161539-0002(P001XC3)	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	22	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	29000		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	161539-0002(P001XC3)
	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	12/941106	2010-11-08

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12/941106	Continuation of	11/738486	2007-04-21	7831926	2010-11-09

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11/738486	Continuation of	09/878097	2001-06-08	7210099	2007-04-24

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
09/878097	Continuation in part of	09/828511	2001-04-07

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
09/878097	Claims benefit of provisional	60/217345	2000-07-11

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
09/878097	Claims benefit of provisional	60/211019	2000-06-12

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	161539-0002(P001XC3)
	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	161539-0002(P001XC3)
	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	161539-0002(P001XC3)
	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Softview L.L.C.

Mailing Address Information For Applicant:

Address 1	112 Ohio Street, Suite 202		
Address 2			
City	Bellingham	**State/Province**	WA
Country	US	Postal Code	98225
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (11-15)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	161539-0002(P001XC3)
	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Babak Redjaian/			Date (YYYY-MM-DD)	2016-11-18
First Name	Babak	Last Name	Redjaian	Registration Number	42096

Additional Signature may be generated within this form by selecting the Add button.

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	Application Number	
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	

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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 records.

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 CooperationTreaty.

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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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TITLE OF THE INVENTION

SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

INVENTORS

GARY B. ROHRABAUGH
SCOTT A SHERMAN

Prepared by

LAW OFFICE OF R. ALAN BURNETT, PS
4108 131ST AVE SE
BELLEVUE, WA 98006
(425) 562-0923

SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

RELATED APPLICATIONS

[0001] This application is a Continuation of U.S. Non-provisional Application No. 11/738,486, filed April 21, 2007, (to be issued as U.S. 7,831,926) entitled "SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES," which 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. 09/828,511, filed April 7, 2001, (Abandoned) entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," the benefit of the filing dates of which is claimed under 35 U.S.C. § 120. 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.

[0002] This application also contains subject matter related to Divisionals (of U.S. Non-provisional Application No. 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. 11/735,477 and 11/735,482, both filed

on April 15, 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.

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BACKGROUND OF THE INVENTION

Field of the Invention

[0004] The invention relates generally to viewing of Internet content on mobile devices, and more particularly concerns to novel processing of Internet and World Wide Web content to scalable forms for resolution-independent rendering and zoom- and pan-enabling the display of content on mobile devices.

Description of the Related Art

[0005] 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.

[0006] 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.

[0007] 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] In accordance with aspects of the invention, mobile devices are enabled to support resolution-independent scalable display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing on smaller screen sizes are disclosed. The mobile devices employ novel processing of original Web content, including HTML-based content, XML, cascade style sheets, etc. to generate scalable content. The scalable content and/or data derived therefrom are then employed to enable the Web content to be rapidly rendered, zoomed, and panned. Display lists may also be employed to provide further enhancements in rendering speed.

[0008] According to further aspects, the mobile devices employ touch-sensitive display screens that enable users to provide various inputs to control display of content within Web pages. Exemplary user inputs include tap-based inputs to selectively zoom in on columns, images, and paragraphs. Users can also define a window to zoom in on via the touch-sensitive display.

[0009] 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 2A (wherein analogous operations now being performed by the client are respectively shown as blocks 117, 119, and 121 in FIGURE 2C), 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 1A. 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"
```

```
 align=center>
    <tr>
            <a href=”URL or path for LINK #9” <img src=”/directory
            path/GRAPHIC#6” height=”50” width =”150></a>
    <tr>
            <a href=”URL or path for LINK #10” <img src=”/directory
            path/GRAPHIC#7” height=”50” width =”150></a>
    <tr>
            <a href=”URL or path for LINK #11” <img src=”/directory
            path/GRAPHIC#8” height=”50” width =”150></a>

</table>
</frame>

<frame>

<table>
    <tr>
            <table width="100%" border=0 cellspacing=15 cellpadding=0
             bgcolor="#000000" align=center>
       <tr>
            <td><a href=”URL or path for link#1”> alt=”QUOTES”</a>
            <td><a href=”URL or path for link#2”> alt=”HOT PICKS”</a>
            <td><a href=”URL or path for link#3> alt=”CALENDERS”</a>
            <td><a href=”URL or path for link#4>alt=”NEWS”</a>
</table><br>
     <br>
            <img src=”URL for GRAPHIC #9” align=center
             border=”0” height=”80” width=”325”>
    <br><t1>HEADLINE TEXT>/t1>
    <table>
        <Colgroup span=”2”>
            <Col width = “400” align=“center”>
            <Col width = “200” align=”center”>
            <tr><td>
                    <img src=”/directory path/GRAPHIC #10” align = center
                    border=“0” height=”180” width=”350”>
            <td>
   /*   INPUT FOR ACCOUNT NUMBER AND ACCESS CODE   */
    <SCRIPT LANGUAGE =”Javascript”>
    <!---
            [Javascript variable declarations]
            [Javascript functions to enable login]  ---!>
    </SCRIPT>
      <table>
        <td>
            <img src=”/directory path/GRAPHIC #11” align = center>
            <table width=”150” height=”25”>
            <td>
            <font size=-2 face="arial,helvetica,verdana">Account #</font>
            <tr><input type=text name="USERID" maxlength=9 size=20>
            <tr><font size=-2 face="arial, helvetica">Access Code:</font>
            <tr><input type=password name="PASSWORD" maxlength=10 size=20
                    onKeyDown="SuppressEnterBell(event)"
                    onKeyPress="SuppressEnterBell(event)"
                    onKeyUp="SubmitOnEnter(event)">
            <br> 
            <br><input type="button" value="Login"
```

```
90.                OnClick="ProcessForm()">&amp;nbsp;&amp;nbsp;<input type="reset">
91.               <br>&amp;nbsp;
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 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 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.

[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 on how the vectors and bounding boxes corresponding to image objects 250B and 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.

[0094] As shown in FIGURE 4G, respective offsets in X and Y, (-ΔX and -ΔY 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:

enabling a user of a mobile device having a touch-sensitive display to request access to a Web page comprising HTML-based Web content defining an original page layout, functionality, and design of content on the Web page;

retrieving and processing the HTML-based Web content to produce scalable content; and

employing the scalable content and/or data derived therefrom to,

render a view of the Web page on the touch-sensitive display; and

re-render the Web page in response to associated user inputs to enable the user to iteratively zoom in and out views of the Web page while preserving an original page layout, functionality, and design defined by the HTML-based Web content as interpreted by a rendering engine,

wherein preservation of the functionality defined by the HTML-based Web content includes preservation of hyperlink functionality.

2. The method of claim 1, wherein the mobile device comprises a mobile phone.

3. The method of claim 1, further comprising enabling the user to zoom in on a user-selectable portion of a display of the Web page in response to a user interface input made via the touch-sensitive display.

4. The method of claim 1, wherein the display of the Web page is re-rendered in real-time to effect zooming operations.

5. The method of claim 1, wherein the Web page includes at least one hyperlink, the method further comprising:

enabling the user to select a hyperlink via the touch-sensitive display; and, in response thereto,

retrieving and processing HMTL-based Web content associated with the hyperlink to produce additional scalable content; and

employing the additional scalable content and/or data derived therefrom to render the Web content associated with the hyperlink on the touch-sensitive display.

6. The method of claim 1, wherein at least a portion of the scalable content comprises scalable vector-based content.

7. The method of claim 1, further comprising enabling a user to pan views of the Web page in real-time in response to corresponding user inputs made via the touch-sensitive display.

8. The method of claim 1, further comprising enabling a user to zoom on a column of the Web content by tapping on the column via the touch-sensitive display, wherein in response thereto, the display is re-rendered such that content corresponding to the selected column is displayed across the touch-sensitive display.

9. The method of claim 1, wherein the Web content includes at least one image, the method further comprising enabling a user to zoom on an image by tapping on the image via the touch-sensitive display, wherein in response thereto, the display is re-rendered such that the image is displayed to fit a width of a display area of the touch-sensitive display used for displaying Web page content.

10. The method of claim 1, wherein the scalable content includes scalable text content, and wherein execution of the instructions performs further operations comprising scaling a scalable font to render the scalable text content.

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

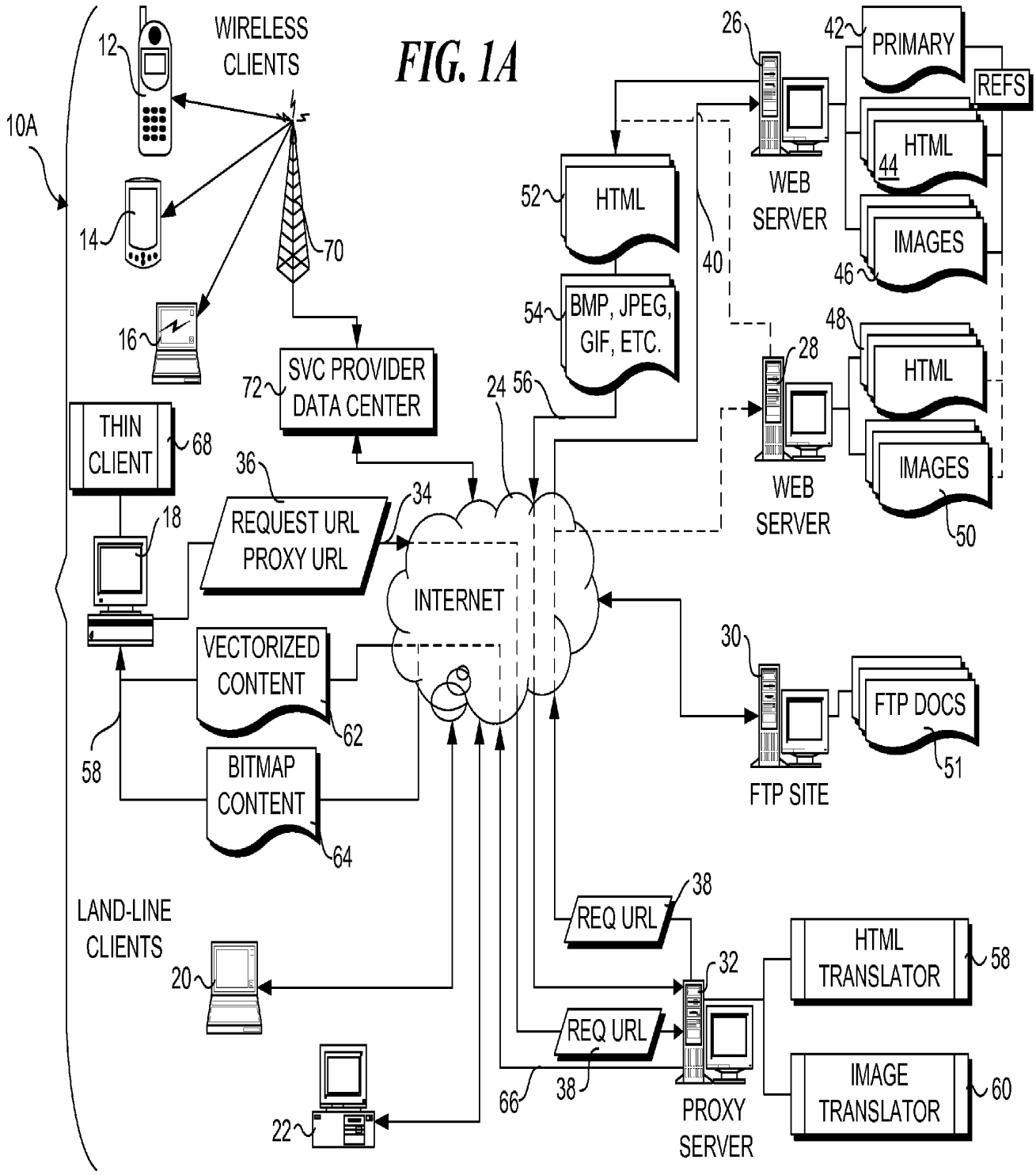
employing the rendering engine to interpret a width of the Web page; and

rendering a view of the Web page wherein the width of the Web page is rendered to fit across a width of a display area on the touchscreen display used for displaying Web page content.

12. The method of claim 1, wherein the method enables the user to access user-selected Web pages from among billions of Web pages available via the World Wide Web while preserving an original page layout, hyperlink functionality, and design defined by the HTML-based Web content as interpreted by a rendering engine for each of the user-selected Web pages.

ABSTRACT OF THE DISCLOSURE

Mobile devices enabled to support resolution-independent scalable display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing on smaller screen sizes. The mobile devices employ software-based processing of original Web content, including HTML-based content, XML, cascade style sheets, etc. to generate scalable content. The scalable content and/or data derived therefrom are then employed to enable the Web content to be rapidly rendered, zoomed, and panned. Display lists may also be employed to provide further enhancements in rendering speed. Context zooms, including tap-based zooms on columns, images, and paragraphs are also enabled.


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

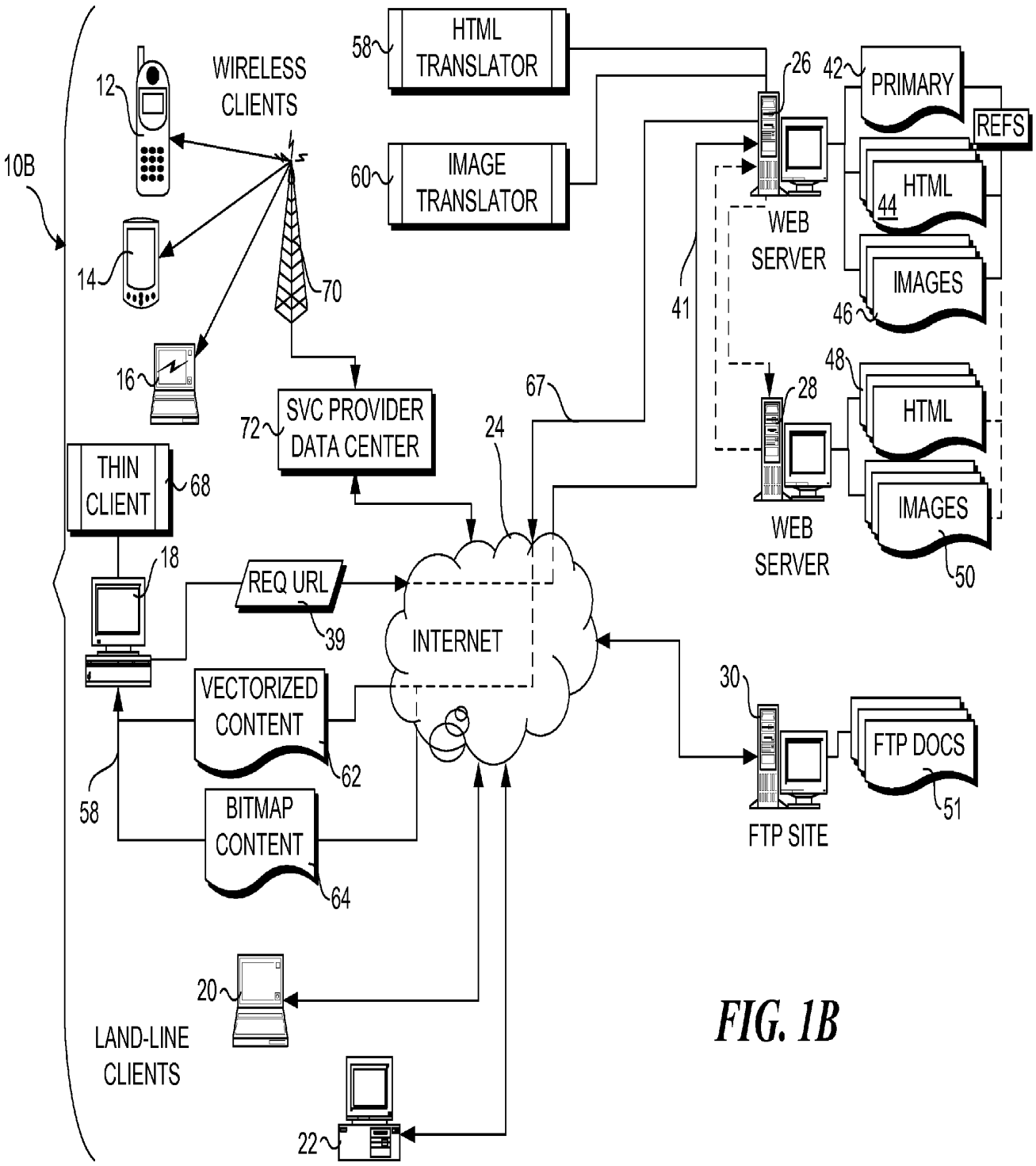

10B
WIRELESS CLIENTS
12
14
16
70
58
HTML TRANSLATOR
60
IMAGE TRANSLATOR
26
WEB SERVER
42
PRIMARY
REFS
HTML
44
IMAGES
46
41
48
HTML
28
WEB SERVER
IMAGES
50
67
24
72
SVC PROVIDER DATA CENTER
THIN CLIENT
68
18
REQ URL
39
INTERNET
VECTORIZED CONTENT
62
58
BITMAP CONTENT
64
30
FTP DOCS
51
FTP SITE
20
LAND-LINE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

FIG. 1B

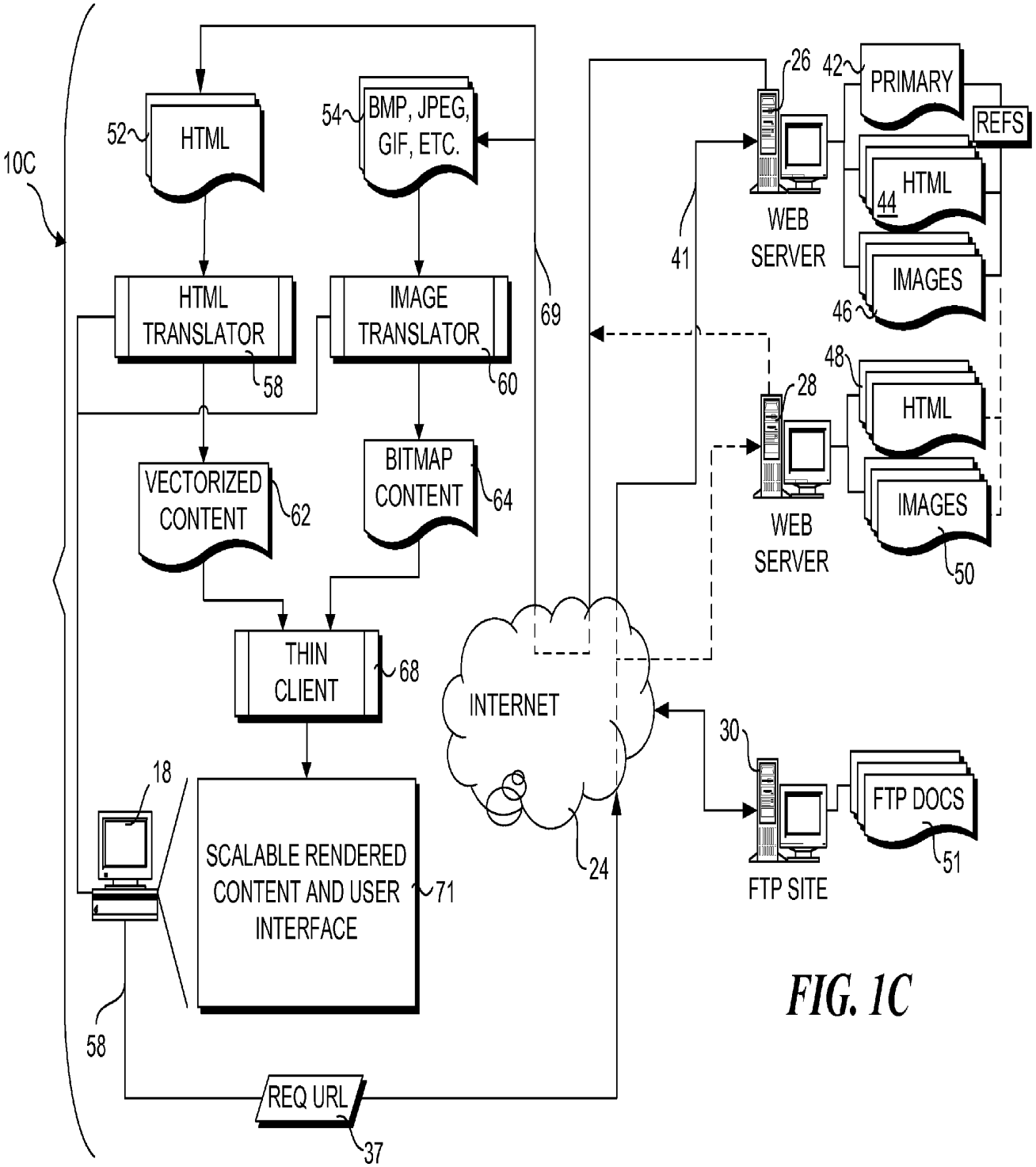

10C
52
HTML
54
BMP, JPEG, GIF, ETC.
HTML TRANSLATOR
58
IMAGE TRANSLATOR
60
69
VECTORIZED CONTENT
62
BITMAP CONTENT
64
THIN CLIENT
68
18
SCALABLE RENDERED CONTENT AND USER INTERFACE
71
58
REQ URL
37
INTERNET
24
26
42
PRIMARY
REFS
HTML
44
WEB SERVER
41
IMAGES
46
48
28
HTML
IMAGES
50
WEB SERVER
30
FTP DOCS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

FIG. 1C

FIG. 2A

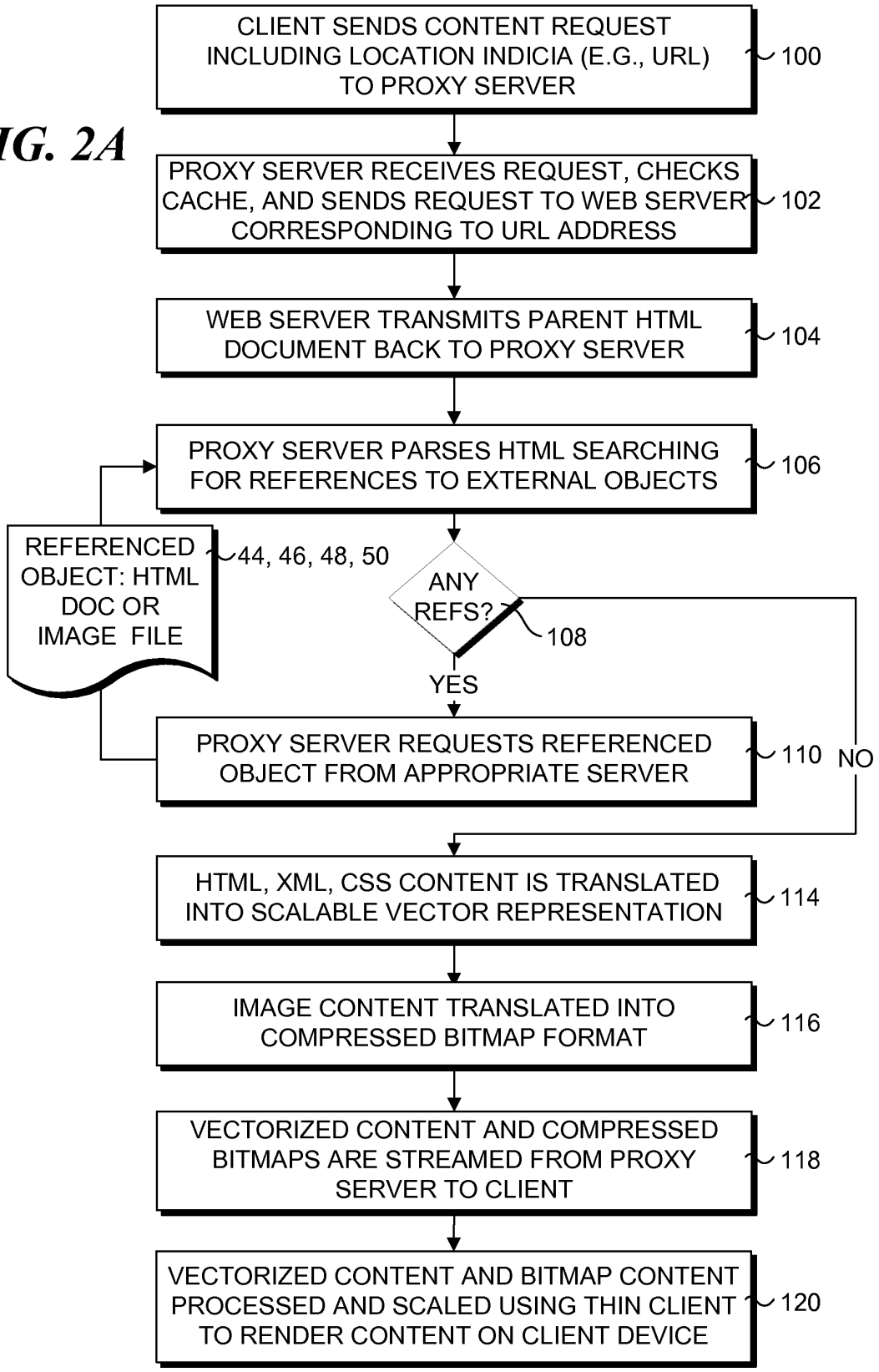

CLIENT SENDS CONTENT REQUEST INCLUDING LOCATION INDICIA (E.G., URL) TO PROXY SERVER
100
PROXY SERVER RECEIVES REQUEST, CHECKS CACHE, AND SENDS REQUEST TO WEB SERVER CORRESPONDING TO URL ADDRESS
102
WEB SERVER TRANSMITS PARENT HTML DOCUMENT BACK TO PROXY SERVER
104
PROXY SERVER PARSES HTML SEARCHING FOR 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, 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

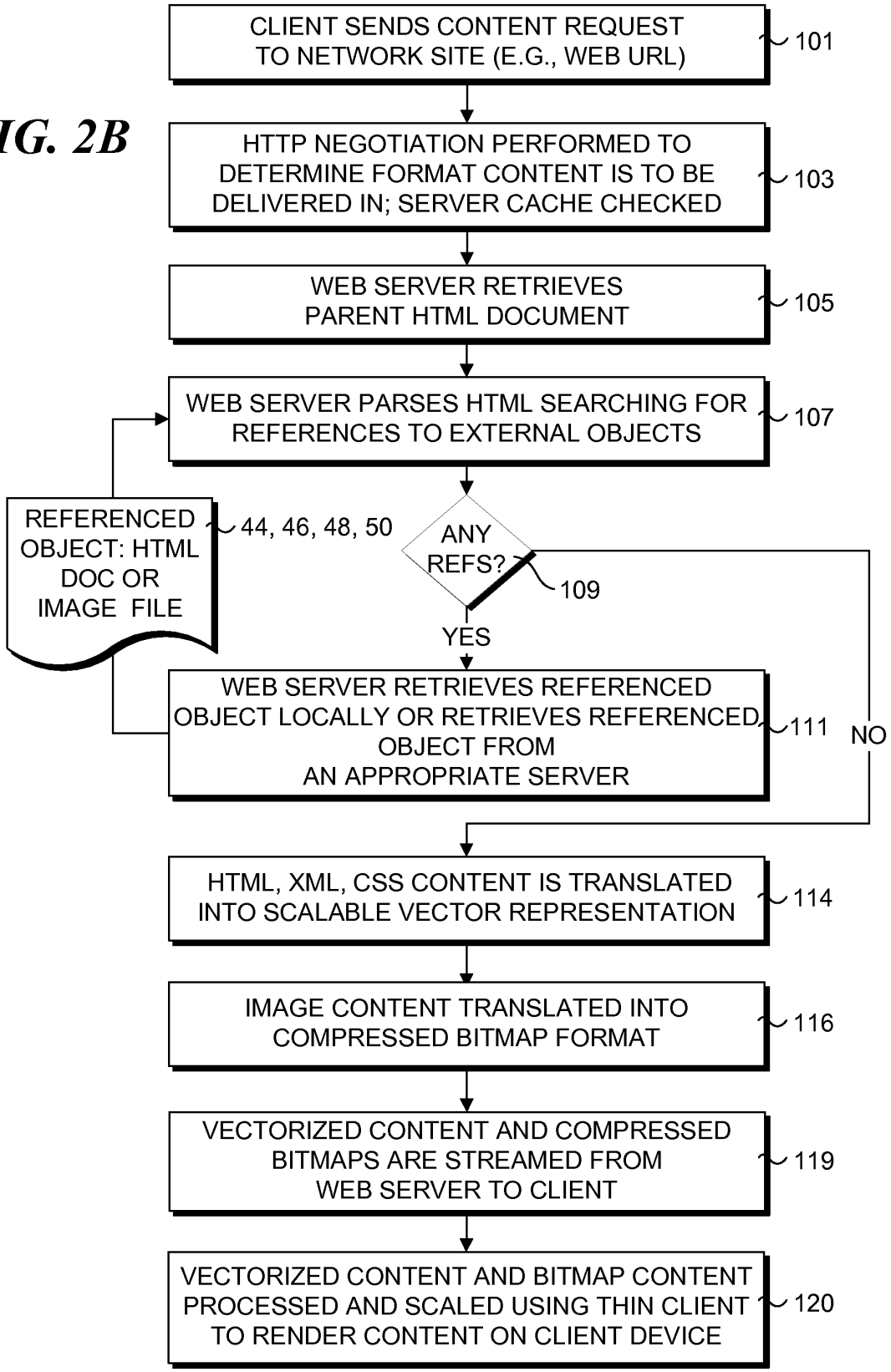
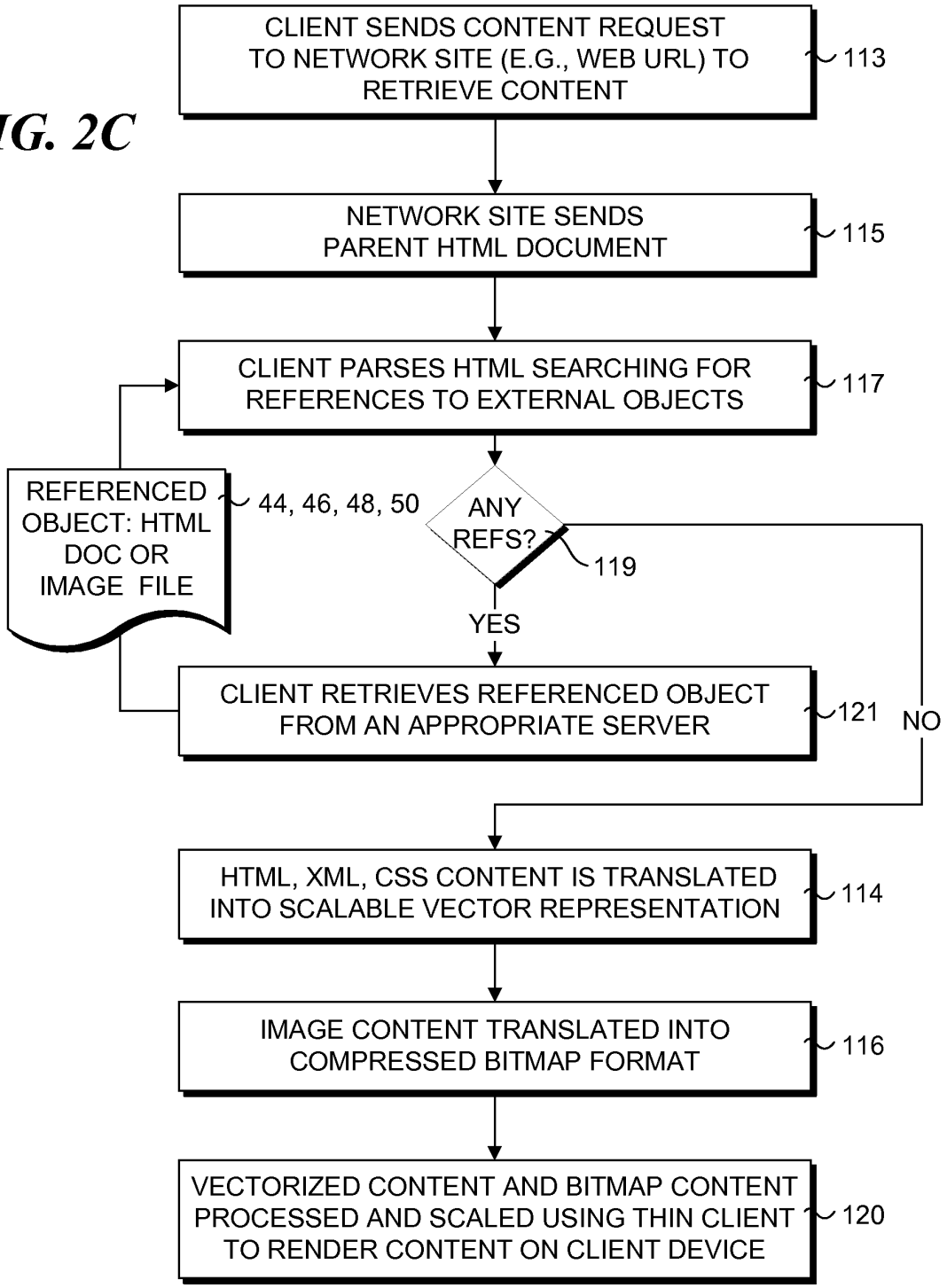

CLIENT SENDS CONTENT REQUEST TO NETWORK SITE (E.G., WEB URL)
101
HTTP NEGOTIATION PERFORMED TO DETERMINE FORMAT CONTENT IS TO BE DELIVERED IN; SERVER CACHE CHECKED
103
WEB SERVER RETRIEVES PARENT HTML DOCUMENT
105
WEB SERVER PARSES HTML SEARCHING FOR REFERENCES TO EXTERNAL OBJECTS
107
REFERENCED OBJECT: 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

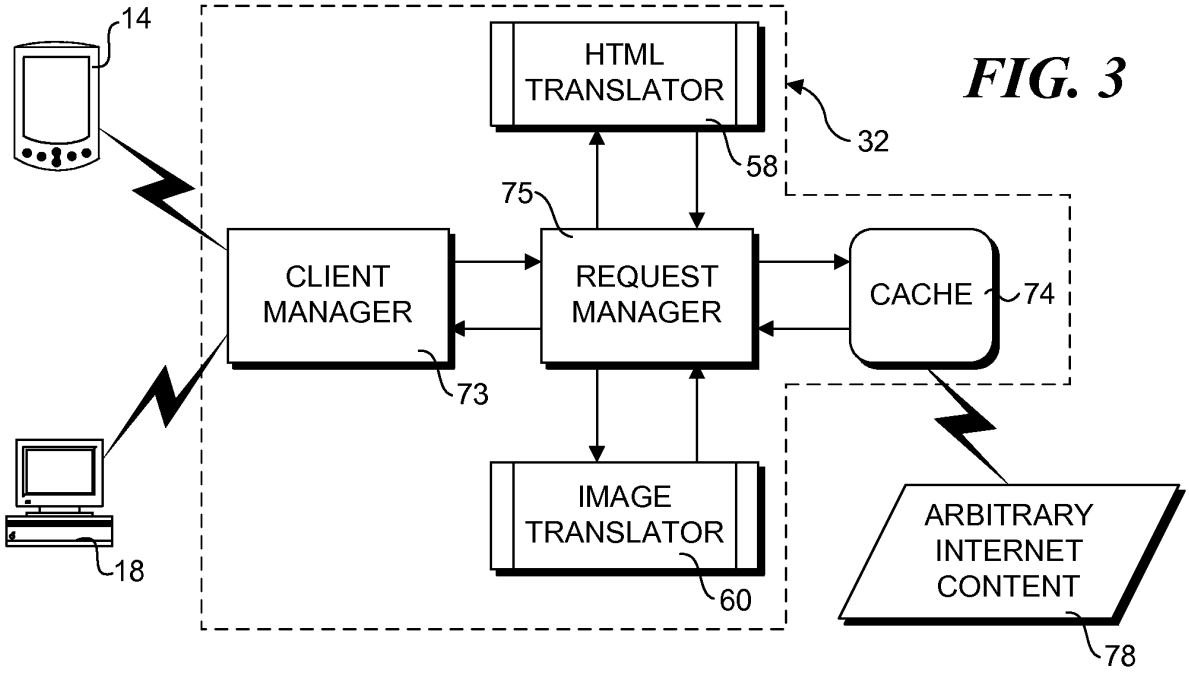

14
HTML TRANSLATOR
58
32
75
CLIENT MANAGER
73
REQUEST MANAGER
CACHE
74
18
IMAGE TRANSLATOR
60
ARBITRARY INTERNET CONTENT
78

FIG. 3

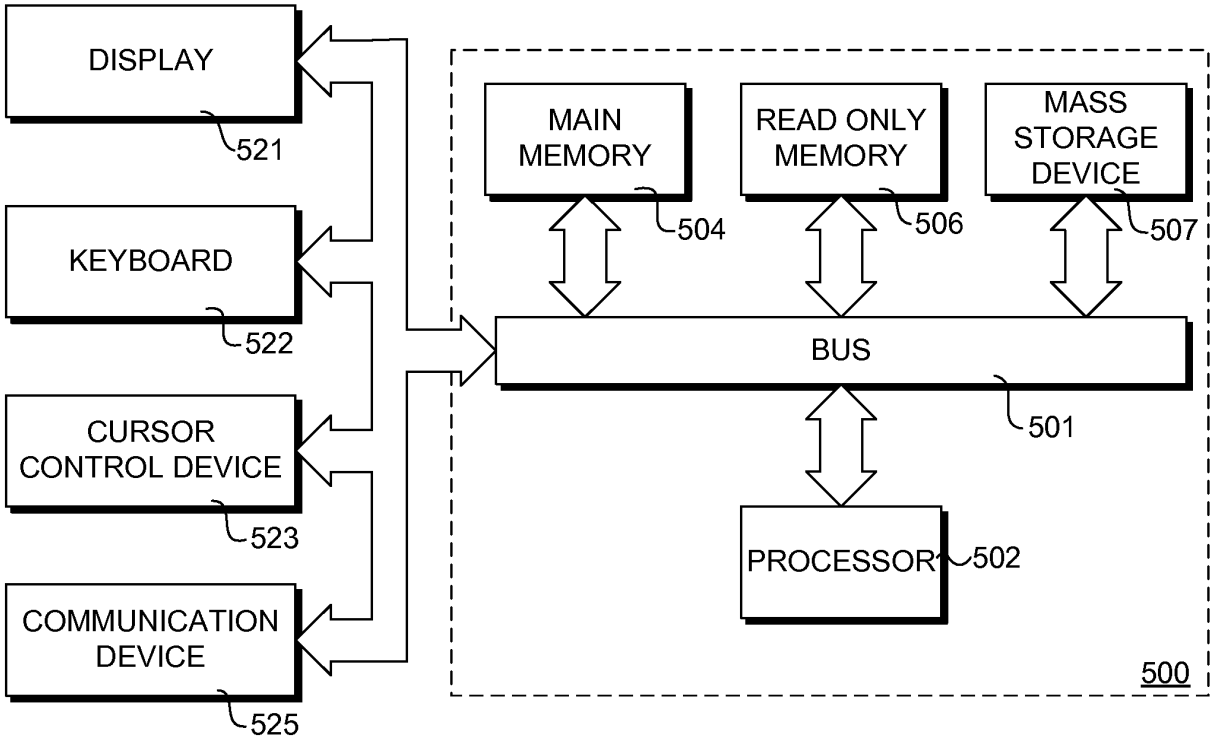

DISPLAY
521
KEYBOARD
522
CURSOR CONTROL DEVICE
523
COMMUNICATION DEVICE
525
MAIN MEMORY
504
READ ONLY MEMORY
506
MASS STORAGE DEVICE
507
BUS
501
PROCESSOR
502
500

FIG. 10

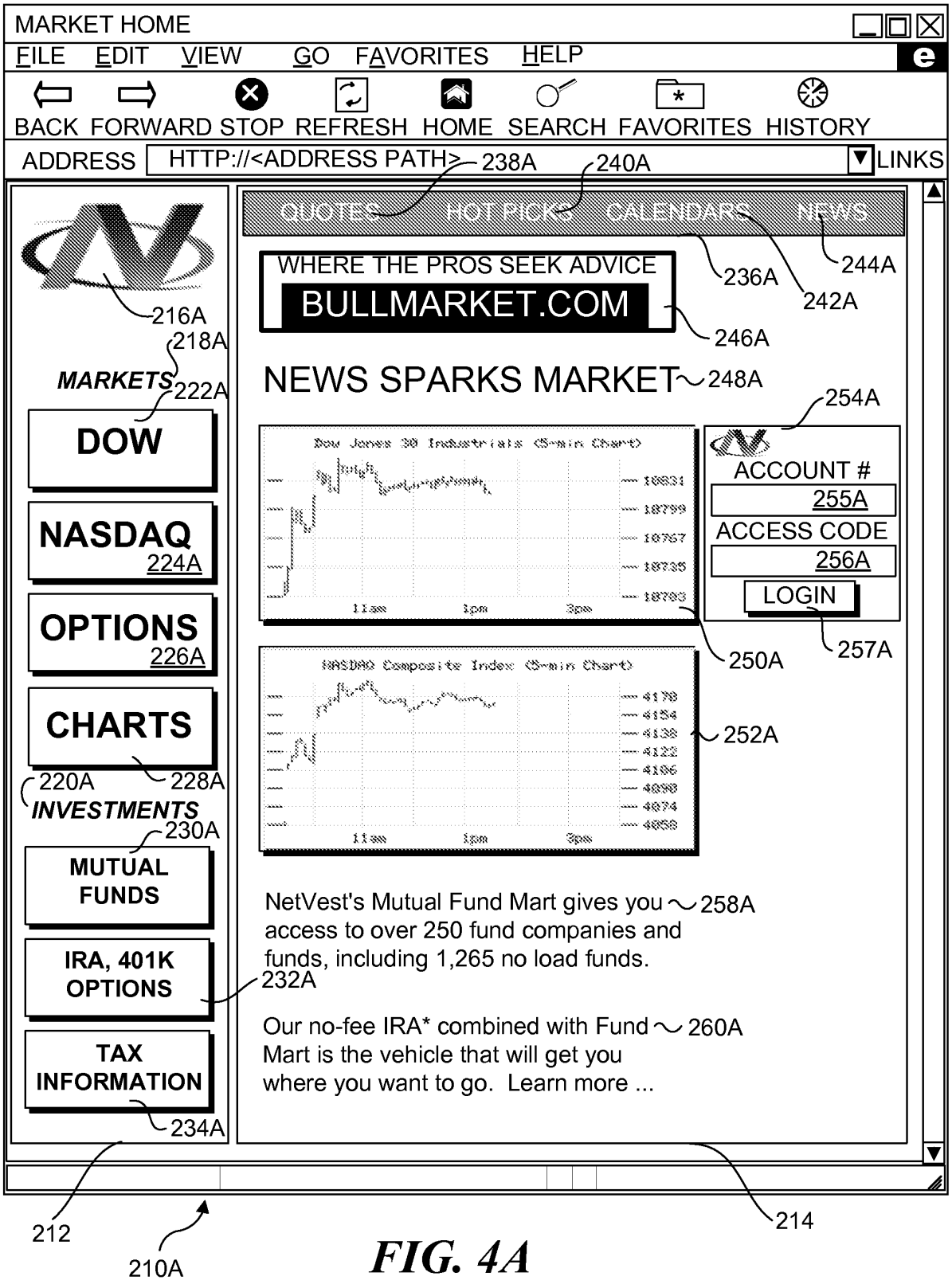

MARKET HOME
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://<ADDRESS PATH>
LINKS
238A
240A
QUOTES
HOT PICKS
CALENDARS
NEWS
244A
236A
242A
WHERE THE PROS SEEK ADVICE
BULLMARKET.COM
246A
216A
218A
MARKETS
222A
NEWS SPARKS MARKET
248A
254A
DOW
NASDAQ
224A
OPTIONS
226A
CHARTS
220A
228A
INVESTMENTS
230A
MUTUAL FUNDS
IRA, 401K OPTIONS
232A
TAX INFORMATION
234A
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

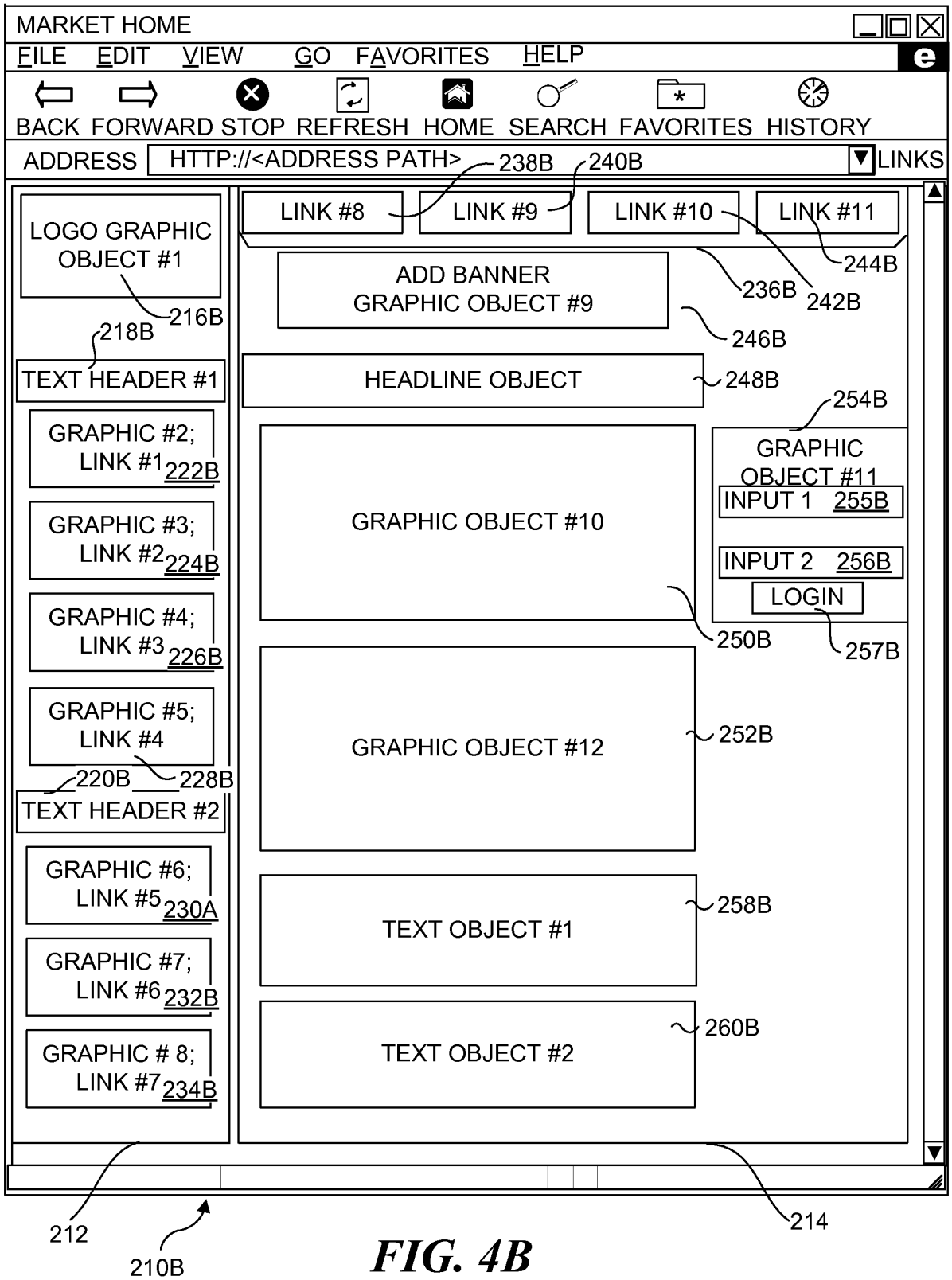

MARKET HOME
FILE EDIT VIEW GO FAVORITES HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://<ADDRESS PATH>
LINKS
238B
240B
LINK #8
LINK #9
LINK #10
LINK #11
244B
236B
242B
LOGO GRAPHIC OBJECT #1
216B
ADD BANNER GRAPHIC OBJECT #9
246B
218B
TEXT HEADER #1
HEADLINE OBJECT
248B
254B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

FIG. 4B

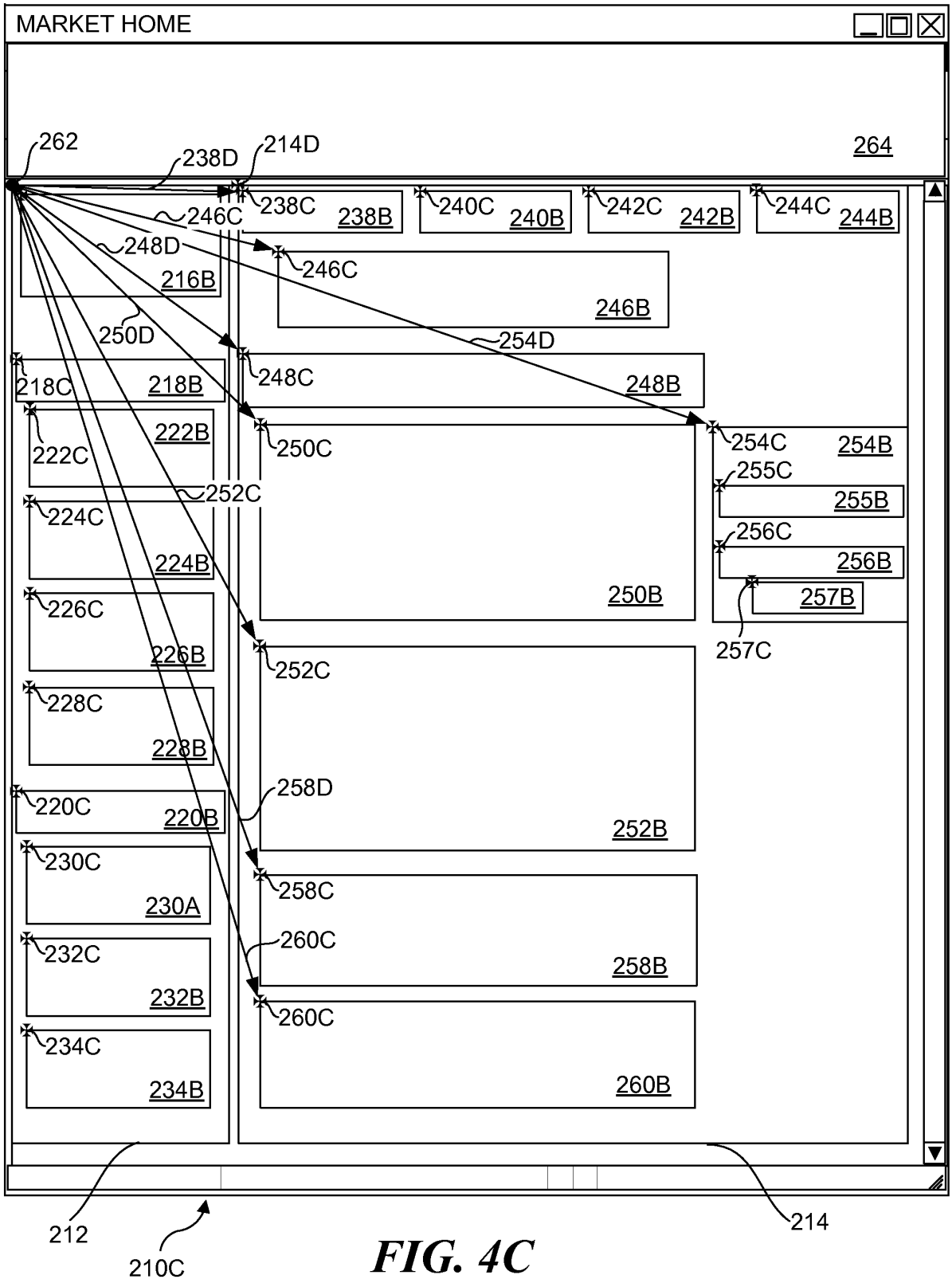

MARKET HOME
262
238D
214D
264
238C
238B
240C
240B
242C
242B
244C
244B
246C
248D
216B
246C
246B
250D
254D
218C
218B
248C
248B
222B
222C
250C
254C
254B
255C
255B
252C
224C
256C
256B
224B
250B
257B
226C
257C
226B
252C
228C
228B
258D
220C
220B
252B
230C
230A
258C
260C
232C
258B
232B
260C
234C
234B
260B
212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

FIG. 4C

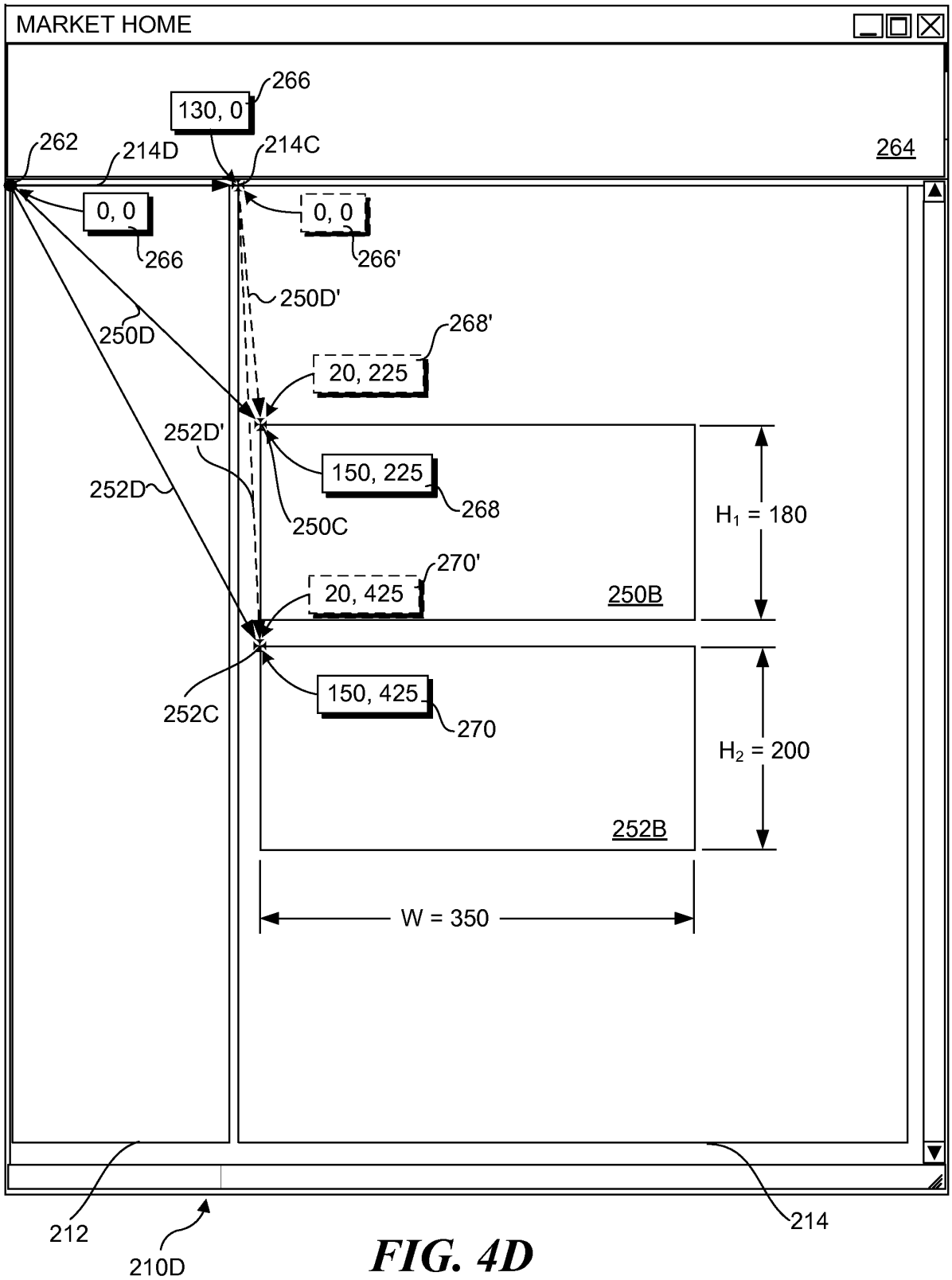
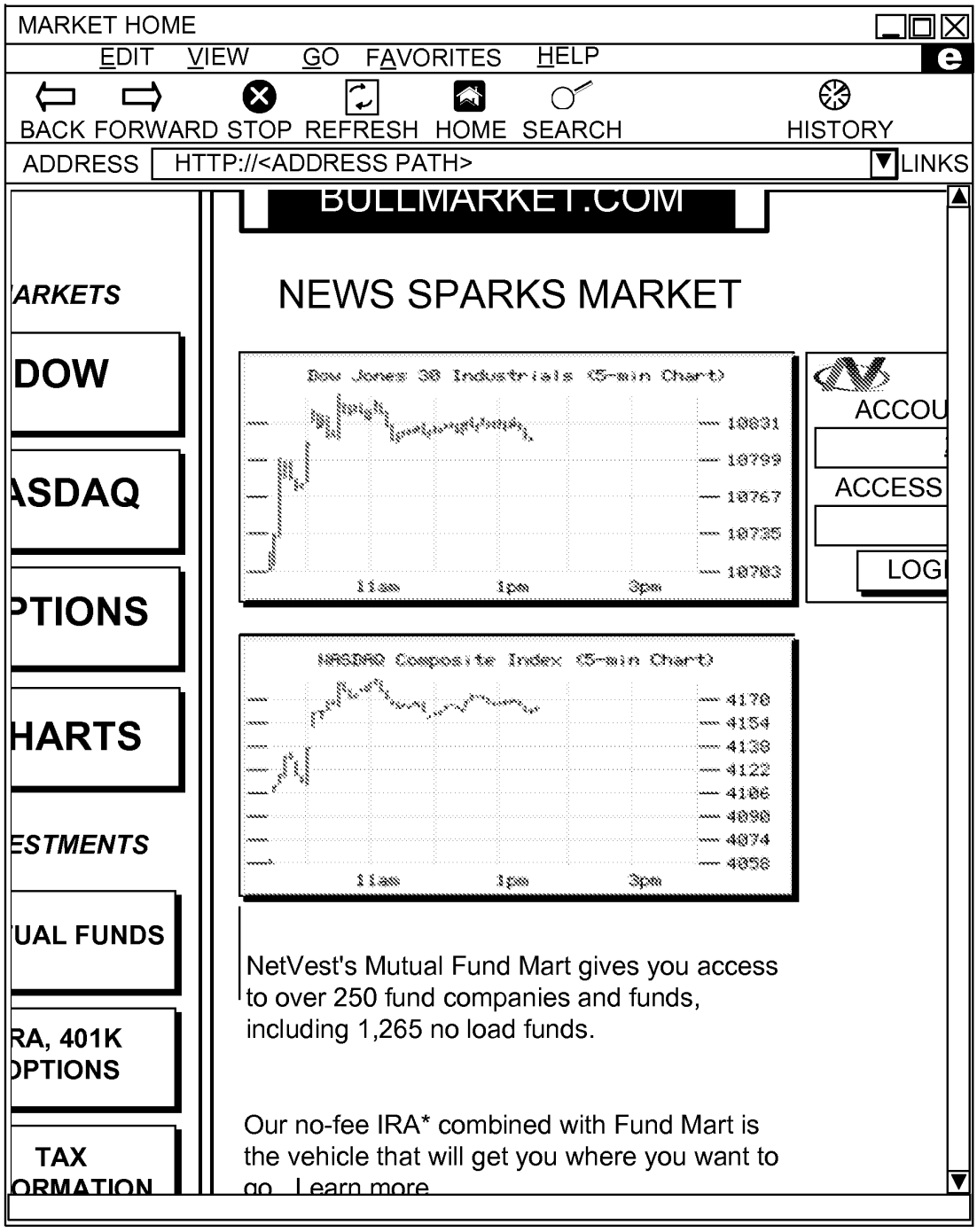

MARKET HOME
266
130, 0
262
214D
214C
264
0, 0
266
0, 0
266'
250D'
250D
268'
20, 225
252D'
252D
150, 225
268
250C
H1 = 180
270'
20, 425
250B
252C
150, 425
270
H2 = 200
252B
W = 350
212
210D
214

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

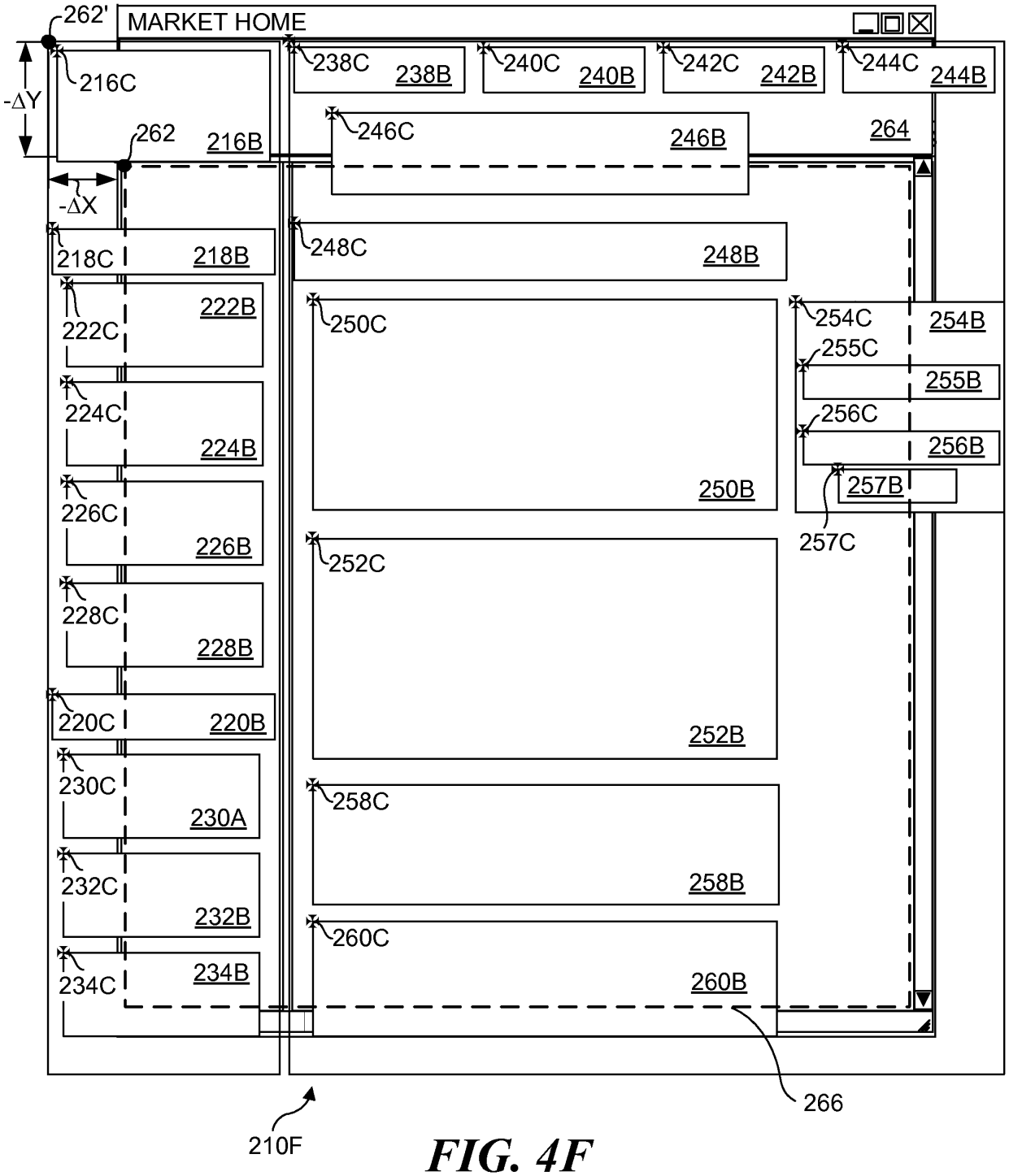

262'
MARKET HOME
216C
-ΔY
262
216B
238C
238B
240C
240B
242C
242B
244C
244B
246C
246B
264
-ΔX
218C
218B
248C
248B
222C
222B
250C
254C
254B
255C
255B
224C
224B
256C
256B
257B
226C
226B
250B
257C
252C
228C
228B
252B
220C
220B
230C
230A
258C
258B
232C
232B
260C
234C
234B
260B
266
210F

FIG. 4F

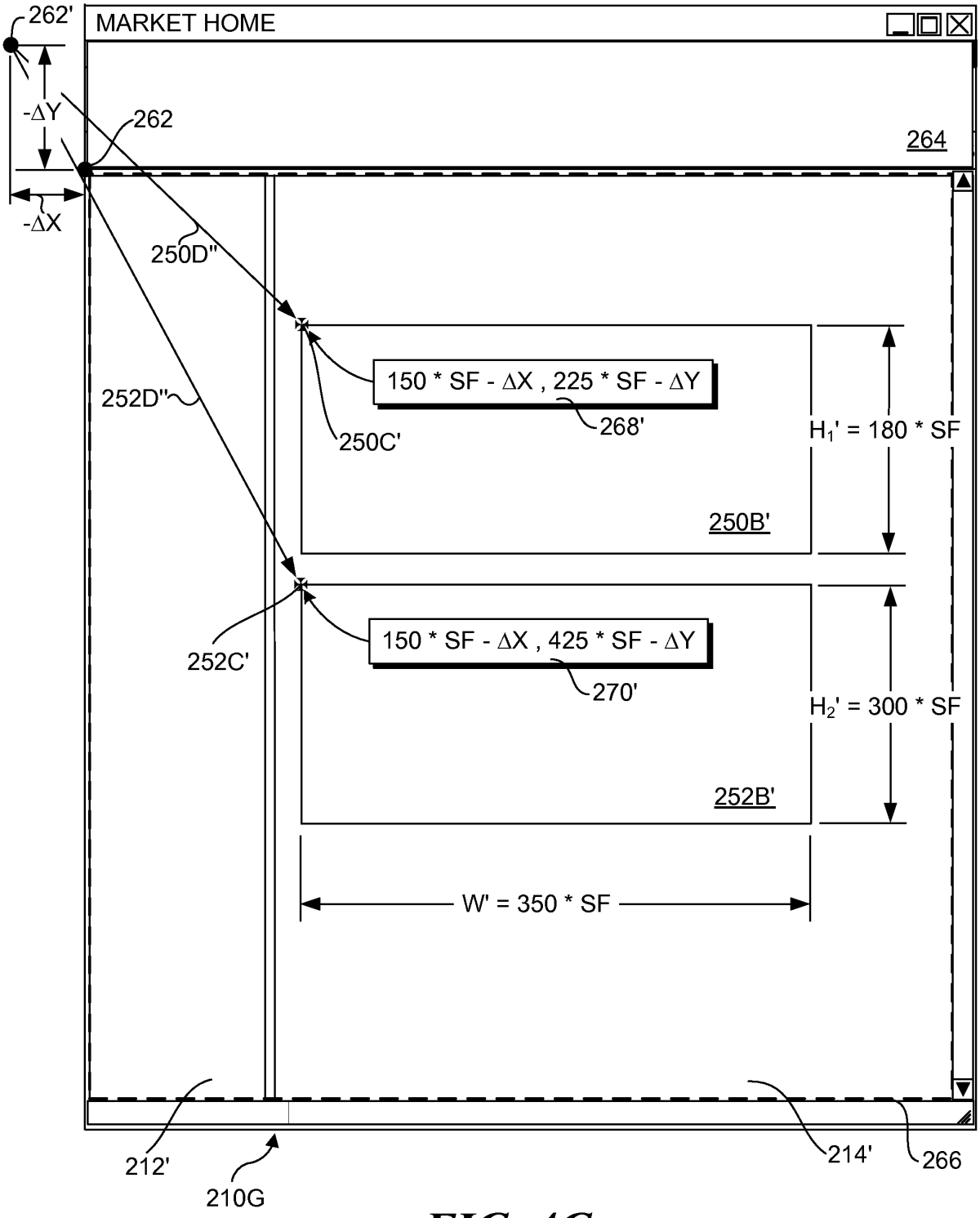

262'
MARKET HOME
-ΔY
262
264
-ΔX
250D"
252D"
150 * SF - ΔX , 225 * SF - ΔY
268'
250C'
H1' = 180 * SF
250B'
252C'
150 * SF - ΔX , 425 * SF - ΔY
270'
H2' = 300 * SF
252B'
W' = 350 * SF
212'
210G
214'
266

FIG. 4G

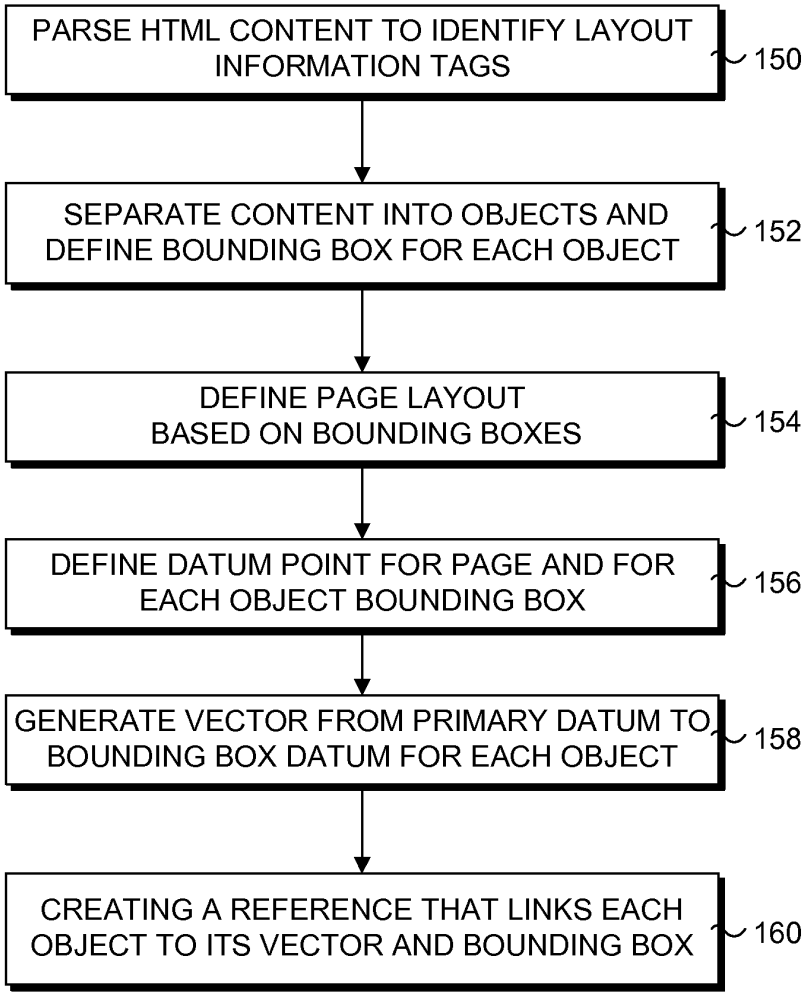

PARSE HTML CONTENT TO IDENTIFY LAYOUT INFORMATION TAGS
150
SEPARATE CONTENT INTO OBJECTS AND DEFINE BOUNDING BOX FOR EACH OBJECT
152
DEFINE PAGE LAYOUT BASED ON BOUNDING BOXES
154
DEFINE DATUM POINT FOR PAGE AND FOR EACH OBJECT BOUNDING BOX
156
GENERATE VECTOR FROM PRIMARY DATUM TO BOUNDING BOX DATUM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

FIG. 5

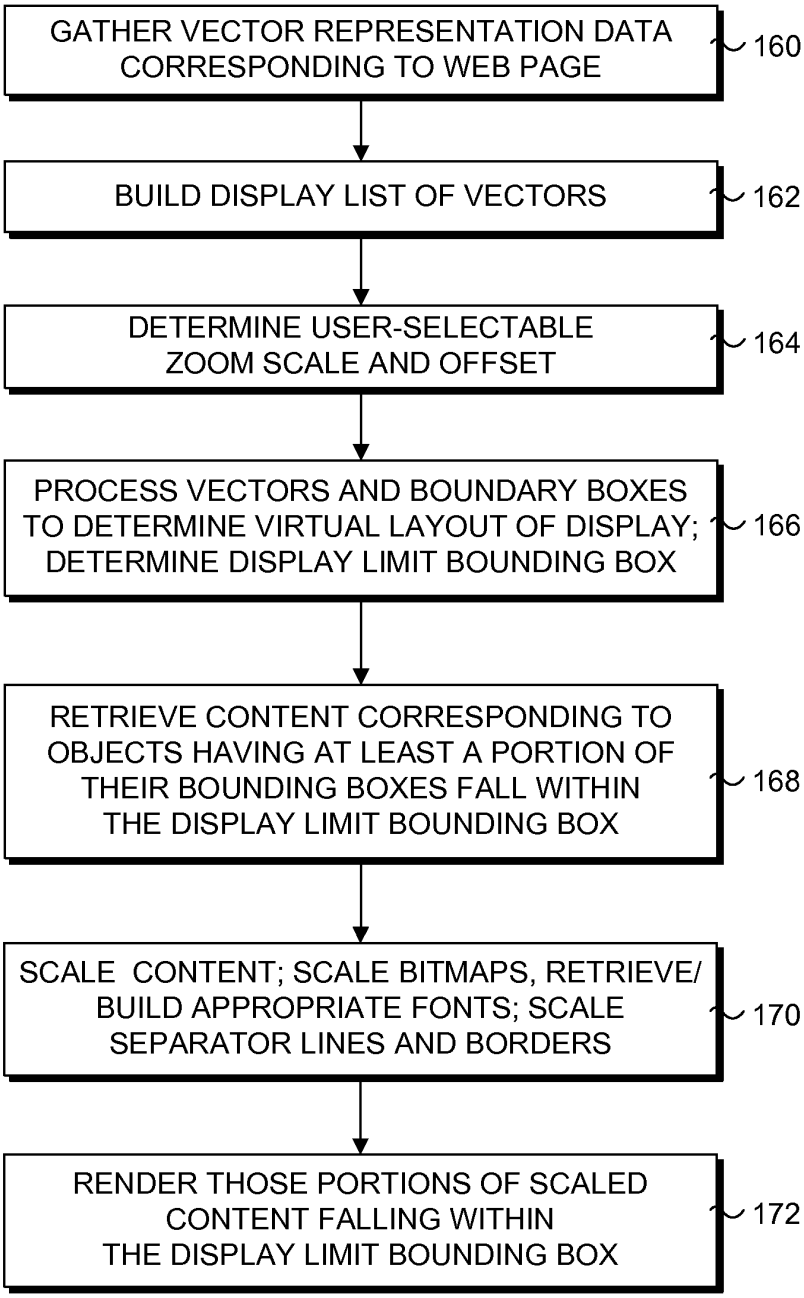

GATHER VECTOR REPRESENTATION DATA CORRESPONDING TO WEB PAGE
160
BUILD DISPLAY LIST OF VECTORS
162
DETERMINE USER-SELECTABLE ZOOM SCALE AND OFFSET
164
PROCESS VECTORS AND BOUNDARY BOXES TO DETERMINE VIRTUAL LAYOUT OF DISPLAY; DETERMINE DISPLAY LIMIT BOUNDING BOX
166
RETRIEVE CONTENT CORRESPONDING TO OBJECTS 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

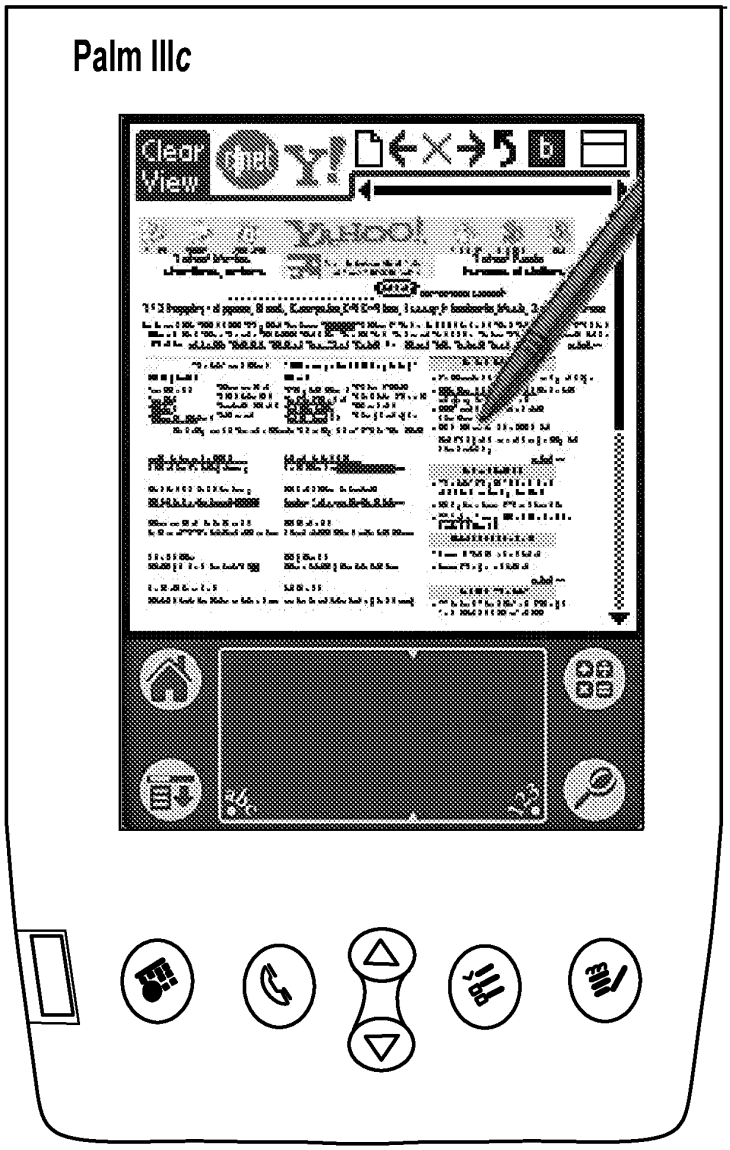


FIG. 7A

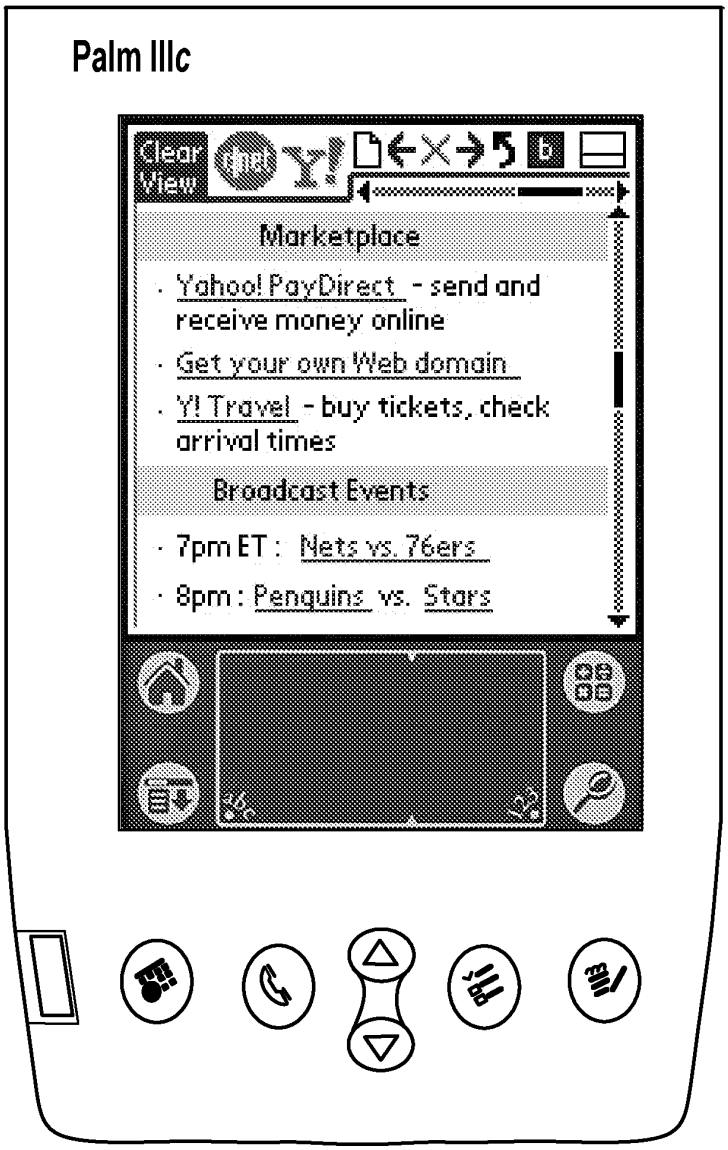

Palm IIIc
Clear View
Marketplace
· Yahoo! PayDirect - send and receive money online
· Get your own Web domain
· Y! Travel - buy tickets, check arrival times
Broadcast Events
· 7pm ET : Nets vs. 76ers
· 8pm : Penguins vs. Stars

FIG. 7B

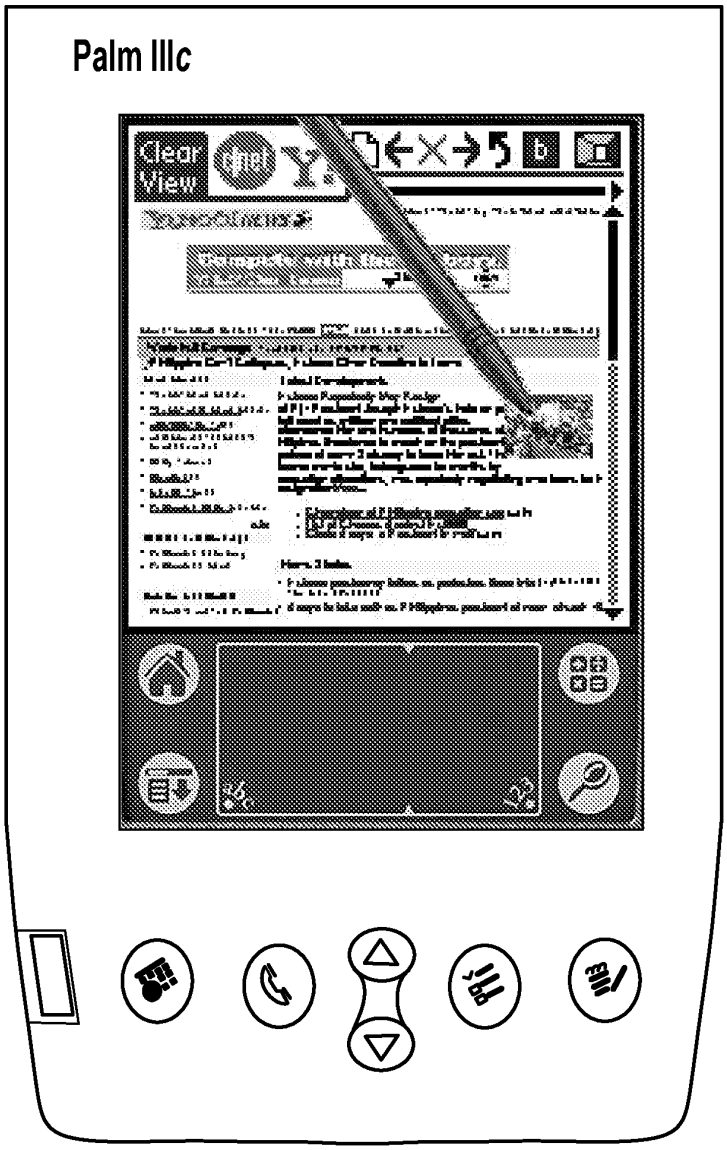


FIG. 8A



FIG. 8B



FIG. 9A

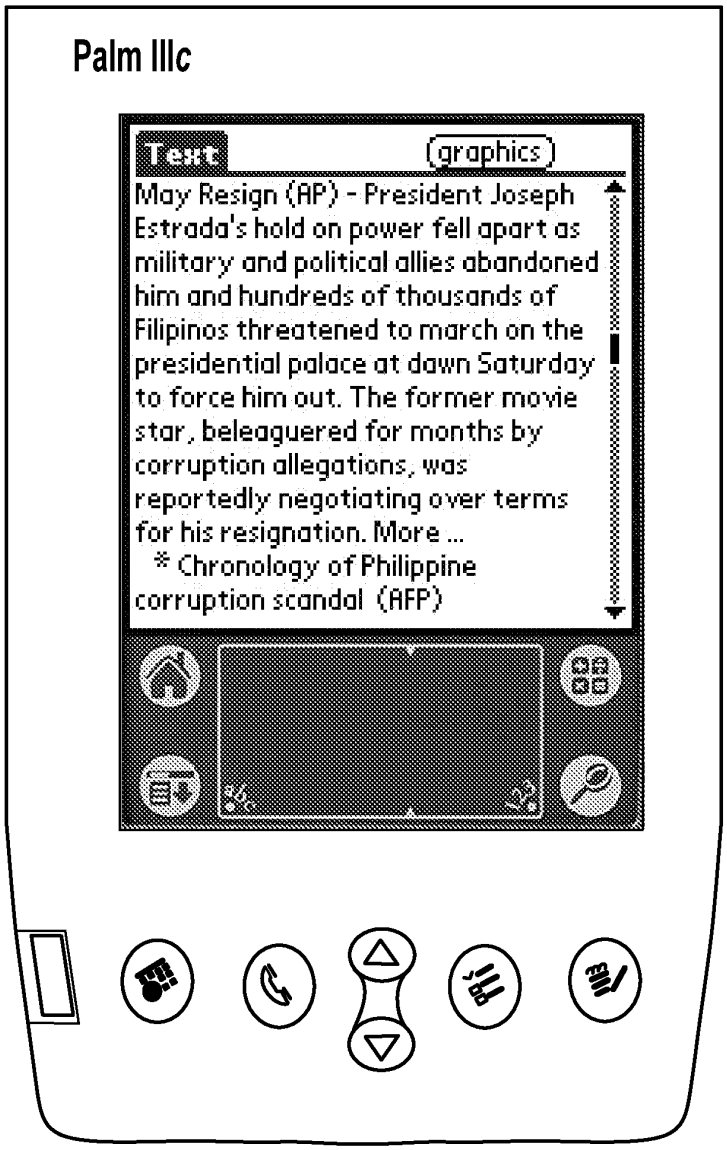

Palm IIIc
Text
(graphics)
May Resign (AP) - President Joseph Estrada's hold on power fell apart as military and political allies abandoned him and hundreds of thousands of Filipinos threatened to march on the presidential palace at dawn Saturday to force him out. The former movie star, beleaguered for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

FIG. 9B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Gary B. Rohrabaugh *et al.* Application No.: TBA Filing Date: November 18, 2016 For: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	Examiner: TBA Art Unit: TBA Conf. No.: TBA

PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

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

Dear Sir:

The Applicant submits instant Preliminary Amendment to be entered before substantive examination.

Amendment to the Specification begins on page 2 of this paper;

Amendments to the Claims begins on page 3 of this paper; and,

Remarks begin on page 4 of this paper.

AMENDMENT TO THE SPECIFICATION

Please replace paragraph [0001] as follows:

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application is a Continuation of U.S. Non-provisional Application No. 12/941,106, filed November 8, 2010, entitled "SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES", which is a Continuation of U.S. Non-provisional Application No. 11/738,486, filed April 21, 2007, (~~to be~~ issued as U.S. 7,831,926) entitled "SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES," which 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. 09/828,511, filed April 7, 2001, (Abandoned) entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," the benefit of the filing dates of which is claimed under 35 U.S.C. § 120. 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.

AMENDMENTS TO THE CLAIMS

Please cancel claims 2-12 without prejudice or disclaimer. This listing of claims will replace all prior versions and listings of claims in the application.

CLAIMS

1. (Original) A method comprising:

enabling a user of a mobile device having a touch-sensitive display to request access to a Web page comprising HTML-based Web content defining an original page layout, functionality, and design of content on the Web page;

retrieving and processing the HTML-based Web content to produce scalable content; and

employing the scalable content and/or data derived therefrom to,

render a view of the Web page on the touch-sensitive display; and

re-render the Web page in response to associated user inputs to enable the user to iteratively zoom in and out views of the Web page while preserving an original page layout, functionality, and design defined by the HTML-based Web content as interpreted by a rendering engine,

wherein preservation of the functionality defined by the HTML-based Web content includes preservation of hyperlink functionality.

Claims 2-12 (Cancelled)

REMARKS

The Applicant hereby requests that Examiner enter this Amendment. No new matter has been introduced by this Preliminary Amendment.

Respectfully submitted,

Dated: November 18, 2016

/Babak Redjaian/
Babak Redjaian, Reg. No. 42,096
IRELL & MANELLA LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660
(949) 760-0991

CERTIFICATE OF TRANSMISSION

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being transmitted via electronic filing (EFS-Web) on the date shown below to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

November 18, 2016
Date of Transmission

/Pia S. Kamath/

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	Babak Redjaian
Attorney Docket Number:	161539-0002(P001XC3)

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	280	280
UTILITY SEARCH FEE	1111	1	600	600
UTILITY EXAMINATION FEE	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	1051	1	140	140
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	1740

Electronic Acknowledgement Receipt	
EFS ID:	27557884
Application Number:	15356456
International Application Number:	
Confirmation Number:	3543
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	29000
Filer:	Babak Redjaian
Filer Authorized By:	
Attorney Docket Number:	161539-0002(P001XC3)
Receipt Date:	18-NOV-2016
Filing Date:	
Time Stamp:	20:03:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1740
RAM confirmation Number	112116INTEFSW00006373090946
Deposit Account	090946
Authorized User	Pia Kamath
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	UtilityApplicationTransmittal.pdf	236894 1c590aff278b67f43098472582edf3485c7aa90e	no	2
Warnings:					
Information:					
2	Application Data Sheet	ApplicationDataSheet.pdf	125446 6d821340b6e15ea94f9bd092c38f615854a5bf84	no	9
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3		Specification.pdf	1717967 d257c65a7880f2042fc1b9a7623c9f35f7ba6657	yes	41

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	37
Claims	38	40
Abstract	41	41

Warnings:					
Information:					
4	Drawings-only black and white line drawings	FormalDrawings.pdf	742946 552e05df7066f2f337383c6e0a621d3dc24c9983	no	22
Warnings:					
Information:					

5	Preliminary Amendment	PreliminaryAmendment.pdf	98389 002dbb87f06c643a496fb784b00532399a6af975	no	4
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	36979 25baec311c56adfdc3310779201ae68afb730be8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2958621		

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.

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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
15/356,456	11/18/2016	2447	1740	161539-0002(P001XC3)	1	1

CONFIRMATION NO. 3543

FILING RECEIPT

29000
IRELL & MANELLA LLP
840 NEWPORT CENTER DR.
SUITE 400
NEWPORT BEACH, CA 92660

OC000000087491537

Date Mailed: 11/30/2016

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. 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 submit a written request for a Filing Receipt Correction. 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**

Inventor(s)

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

Applicant(s)

Softview L.L.C., Bellingham, WA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 12/941,106 11/08/2010 PAT 9519729
which is a CON of 11/738,486 04/21/2007 PAT 7831926
which is a CON of 09/878,097 06/08/2001 PAT 7210099
which is a CIP of 09/828,511 04/07/2001 ABN
and claims benefit of 60/217,345 07/11/2000
and claims benefit of 60/211,019 06/12/2000

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 11/28/2016

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/356,456**

Projected Publication Date: 03/09/2017

Non-Publication Request: No

Early Publication Request: No

Title

SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

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 (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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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.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/356,456

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			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	1 minus 20 =	*			OR	x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 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).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1600

APPLICATION AS AMENDED - PART II

		(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($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	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	

		(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($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	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 found in the appropriate box in column 1.

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)

CONFIRMATION NO. 3543

29000
IRELL & MANELLA LLP
840 NEWPORT CENTER DR.
SUITE 400
NEWPORT BEACH, CA 92660

INFORMAL NOTICE

OC00000087491558

Date Mailed: 11/30/2016

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Gary B. Rohrabaugh
  Scott A. Sherman

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**.

/dmnguyen/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)

CONFIRMATION NO. 3543

29000
IRELL & MANELLA LLP
840 NEWPORT CENTER DR.
SUITE 400
NEWPORT BEACH, CA 92660

PUBLICATION NOTICE



Title:SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

Publication No.US-2017-0068642-A1
Publication Date:03/09/2017

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)	3543

29000 7590 11/16/2017

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

EXAMINER	
TRAN, QUOC A	

ART UNIT	PAPER NUMBER
2177	

NOTIFICATION DATE	DELIVERY MODE
11/16/2017	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patents@irell.com
slangworthy@irell.com
pkamath@irell.com

Office Action Summary	Application No. 15/356,456	Applicant(s) ROHRABAUGH ET AL.	
	Examiner QUOC A. TRAN	Art Unit 2177	AIA (First Inventor to File) Status No

-- 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* MONTHS 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 *11/18/2016*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ 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*

5)☒ Claim(s) *1-12* is/are pending in the application.

5a) Of the above claim(s) *2-12* is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

11)☒ The drawing(s) filed on *11/18/2016* 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).

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).

Certified copies:

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)).

** 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) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

The present application is being examined under the pre-AIA first to invent provisions. This is a Non-Final Office Action in responses to Preliminary Amendments filed 11/18/2016.

It is noted the current application is a continuation of 12/941,106, filed 11/08/2010 ,now U.S. Patent #9519729; 1/2941,106 is a continuation of 11738486, filed 04/21/2007 ,now U.S. Patent #7831926; 11/738,486 is a continuation of 09878097, filed 06/08/2001 ,now U.S. Patent #7210099; 09/878,097 is ***a continuation in part of 09/828,511, filed 04/07/2001*** ,now abandoned; 09/878,097 Claims Priority from Provisional Application 60217345, filed 07/11/2000; 09/878,097 Claims Priority from Provisional Application 60211019, filed 06/12/2000.

Claim(s) 1-12 are pending. Claim(s) 2-12 are cancelled. Claim 1 was original.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees.

A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file

provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains **terminal disclaimer forms** which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

Independent claim 1 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-22 of US patent 9,519,729. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are both exhibiting similar method of Resolution independent vector displaying on Internet content of wireless hand-help devices.

In addition, it is obvious that the claimed limitation cites in claim 1 which enabling a user of a hand-held wireless device to perform full page browsing of Web pages, each Web page having an original format comprising HTML- based Web content defining an original page layout, functionality, and design of content on the Web page, wherein the user is enabled to browse an entirety of each Web page on a display of the hand-held wireless device at multiple zoom levels while the original page layout, functionality, and

design of the HTML-based Web page content is preserved is equivalent to and equated to receiving, at the client device, vector-formatted Web content comprising a scalable vector representation of at least a portion of the Web page that supports a scalable [e.g. Zooming] resolution-independent display of the Web content that substantially retains *the original page layout and attributes of the Web page* when it is rendered on the client device, and rendering the vector-formatted Web content on the client device using a first scaling factor to generate a first display of the Web content on the client device to produce a method of Resolution independent vector displaying [multiples scalable (Zooming) presentation] on Internet content of wireless hand-help devices of US Patent 9,519,729.

Examiner is acknowledged US Patent 9,519,729 and US 7,844, 889 and US 8,386,959 and US 8,145,995, and US 8,386,959 have filed Terminal Disclaimer(s) and Approved.

Claims Rejection – 35 U.S.C. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> ***(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.***

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Van Ee** (US20020030699A1 -Continuation In Part of No.09/062,364 filed 04/17/1998) [hereinafter "Van"], in view of **Chithambaram et al.** (US006674445B1 -Provisional No.60/159,069 filed 10/12/1999) [hereinafter "Chithambaram"].

Regarding ***independent Claim 1,*** *Van discloses*: ***enabling a user of a mobile device having a touch-sensitive display to request access to a Web page comprising HTML-based Web content defining an original page layout, functionality, and design of content on the Web page...,*** In Van @ the Abstract and Para(s) 8-9, which discloses the device has a browser and is capable of retrieving a Web page from the Internet. The page is first displayed in its entirety. The user can recognize the page's ***general lay-out and presence of hyperlinks***. When the user touches a particular location on the touch screen that corresponds to a portion of the page's image, the portion gets displayed so as to fill the display's area. Thus, the user can ***browse the Web with a display of limited size*** [Van: the Abstract]; also Van further includes the "***auto -zoom***", within the context of a user-interface for ***control functionalities represented graphically by icons***. The auto -zoom is also relevant to

the rendering of an***y kind of graphical information on a display too small for the total information content, given the display's resolution and size***. For example, handheld information processing devices with Internet access (browsers) and displays, such as PDA's, palmtops, web pads, mobile phones using, e.g., the WAP (wireless application protocol) technology, etc., can be given browsers for retrieving and navigating web pages from the Internet, but they cannot render a page in its entirety without losing information. The lay-out and general appearance of the image of the page, however, indicate whether portions may or may not be of interest to the user, e.g., as containing hyperlinks. Such handheld devices provided with the auto -zoom feature let the user retrieve graphical information, e.g., a web page or streamed video that is stored, e.g., as a bitmap, in the display's framebuffer or another cache [Van: Para(s) 8-9]. Also Van further discloses the apparatus has a touch screen for enabling a user to interact with the apparatus. The system is operative to enable the user to select via the touch screen a portion (paragraph having width and height, column) of the image when displayed at a first scale. Upon the portion being selected the system renders the selected portion on the display at a second scale larger than the first scale (zoom-in) [Van: Para 10].

In addition, Van further discloses: … ***retrieving and processing the HTML-based Web content to produce scalable content; and employing the scalable content and/or data derived therefrom to, render a view of the Web page on the touch-sensitive display; …. while preserving an original page layout, functionality, and design defined by the HTML-based Web content as interpreted***

by a rendering engine, wherein preservation of the functionality defined by the HTML-based Web content includes preservation of hyperlink functionality... In Van @ the Abstract and Para(s) 8-9, which discloses the device has a browser and is capable of retrieving a Web page from the Internet. The page is first displayed in its entirety. The user can recognize the page's general lay-out and presence of hyperlinks. When the user touches a particular location on the touch screen that corresponds to a portion of the page's image, the portion gets displayed so as to fill the display's area. Thus, the user can browse the Web with a display of limited size [Van: the Abstract]; also Van further includes the "auto -zoom", within the context of a user-interface for control functionalities represented graphically by icons. The auto -zoom is also relevant to the rendering of any kind of graphical information on a display too small for the total information content, given the display's resolution and size. For example, handheld information processing devices with Internet access (browsers) and displays, such as PDA's, palmtops, web pads, mobile phones using, e.g., the WAP (wireless application protocol) technology, etc., can be given browsers for retrieving and navigating web pages from the Internet, but they cannot render a page in its entirety without losing information. The lay-out and general appearance of the image of the page, however, indicate whether portions may or may not be of interest to the user, e.g., as containing hyperlinks. Such handheld devices provided with the auto -zoom feature let the user retrieve graphical information, e.g., a web page or streamed video that is stored, e.g., as a bitmap, in the display's framebuffer or another cache [Van: Para(s) 8-9]. Also Van further discloses the apparatus has a touch screen for enabling a user to interact with

the apparatus. The system is operative to enable the user to select via the touch screen a portion (paragraph having width and height, column) of the image when displayed at a first scale. Upon the portion being selected the system renders the selected portion on the display at a second scale larger than the first scale (zoom-in) [Van: Para 10].

In the BRI –Broadest Reasonable Interpretation, Van's The lay-out and general appearance of the image of the page, however, indicate whether portions may or may not be of interest to the user, e.g., as containing hyperlinks. Such handheld devices provided with the auto -zoom feature let the user retrieve graphical information, e.g., a web page or streamed video that is stored, e.g., as a bitmap, in the display's framebuffer or another cache; which is equivalent to employing the scalable content and/or data derived therefrom to, render a view of the Web page o …. while preserving an original page layout, functionality…as claimed.

In addition, Van does not expressly teach, but Chithambaram discloses…***…; and re-render the Web page in response to associated user inputs to enable the user to iteratively zoom in and out views of the Web page.*** In Chithambaram @ Column 4 Line 60 → Column 5, Line 10, which discloses the indexing raster (i.e. Raster maps provide multiple zoom levels with each zoom level, by scaling existing raster tiles) and vector based for interacting and highlighting with user objects [Chithambaram: @ Column 4 Line 60]; wherein the raster layers are composed from multiple vector layers on servlet 108, resulting in better download and display performance. The raster map on the *PDA allows panning (virtual roaming paradigm), and zooming across discrete*

multiple levels. A smart-cache on thin client 102 allows the swapping of compact tiles from the database to memory, in a manner appropriate to the device [Chithambaram: @ Column 7 lines 1-10]. Additionally, In Chithambaram @ Column 4 Line 60 → Column 5, Line 10, teaching the indexing raster (i.e. Raster maps provide multiple zoom levels with each zoom level, by scaling existing raster tiles) and vector based for interacting and highlighting with user objects. Also see Chithambaram Column 6 Lines 55-65, teaching the SVG (Scalable Vector Graphics) allows vector graphic shapes (e.g., paths consisting of straight lines and curves), images, and text. Graphical objects can be grouped, styled, transformed, and composite into previously rendered objects. Also, see Chithambaram Column 8 Lines 30-65, teaching the offset for location of the object is obtained and the offset is encoded *using bounding box [width and height] to zoom in and filtering out the unwanted object for display on the PDA.* Also In Chithambaram: @ Col. 4 line 66, which discloses Raster maps provide *multiple zoom levels* with each zoom level comprising multiple tiles that allow for " virtual roaming" across a map.

Accordingly, It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified the teaching of Van, to include a means of said … re-render the Web page in response to associated user inputs to enable the user to iteratively zoom in and out views of the Web page… as taught by Chithambaram to produce a predictable result, as evidence, Van's auto Zoom on the screen provides a zoomed in version of that area so that the user can select a desired feature for uses in PDA or small displayed devises (see Van at the Abstract and Para(s)

7-10) in combination with the raster map on the *PDA of Chithambaram allows panning (virtual roaming paradigm), and zooming across discrete multiple levels. A smart-cache on thin client 102* allows the swapping of compact tiles from the database to memory, in a manner appropriate to the device [Chithambaram: @ Column 7 lines 1-10]. It is noted the KSR ruling recommends references directed to similar subject matter to be combined.

It is noted that any citations to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. See, MPEP 2123.

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 9AM - 5PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cesar Paula can be reached on (571)272-4128. 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/QUOC A TRAN/
Primary Examiner, Art Unit 2177

Notice of References Cited	Application/Control No. 15/356,456	Applicant(s)/Patent Under Reexamination ROHRABAUGH ET AL.	
	Examiner QUOC A. TRAN	Art Unit 2177	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2002/0030699 A1	03-2002	Van Ee, Jan	G06F3/0481	715/810
*	B	US-2007/0080958 A1	04-2007	Chithambaram; Nemmara	G01C21/20	345/418
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Innovation Q PLUS
Discover
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0 Filters
STIC
Actions:
Sort: Relevance
Cut-off: None
1 50
2,046,233 results
Page 1 of 40,925

1. **World Wide Web: whence, whither, what next?**

The World Wide Web (WWW) has become, next to electronic mail, the most popular Internet application. It has been a major contributor in turning the Internet into a household word. The WWW allows users to retrieve text and multimedia objects from servers located throughout the world, with objects...

IEEE Xplore | IEEE PERIODICALS | 01-MAR-1996 | IEEE Network

2. **Pixel Navigator - a simple mobile Internet paradigm**

The rise of the World Wide Web and the market growth of mobile devices with advanced data capability make the mobile Internet the inevitable next big wave of technology. Due to the form factor limitation, a mobile device will never be used as a Web browsing tool like its desktop counterpart. People...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | 2003 Symposium on Applications and the Internet, 2003. Proceedings. (Page(s): 394-397)

3. **Improving the performance of the World Wide Web over wireless networks**

The World Wide Web has become the largest source of Internet traffic, but it was not designed for wireless networks. This paper discusses some of the problems encountered when using the Web over wireless networks and describes solutions to those problems. By designing a multithreaded proxy server...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | GLOBECOM 97. IEEE Global Telecommunications Conference. Conference Record

4. **Adapting to network and client variation using infrastructural proxies: lessons and perspectives**

Today's Internet clients vary widely with respect to both hardware and software properties: screen size, color depth, effective bandwidth, processing power, and the ability to handle different data formats. The order-of-magnitude span of this variation is too large to hide at the network level,...

IEEE Xplore | IEEE PERIODICALS | 01-AUG-1998 | IEEE Personal Communications

5. **Thin Client Visualization**

We have developed a Web 2.0 thin client visualization framework called GeoBoostrade. Our framework focuses on geospatial visualization and using scalable vector graphics (SVG), AJAX, RSS and GeoRSS we have built a complete thin client component set. Our component set provides a rich user experience...

IEEE Xplore | IEEE CONFERENCES | 01-OCT-2007 | 2007 IEEE Symposium on Visual Analytics Science and Technology (Page(s): 51-58)

6. **Web interaction using very small Internet devices**

Internet-enabled cell phones typically accommodate only three to 12 text lines, and their design emphasizes portability. Web interaction has, so far, been a secondary concern. For the most part, automated techniques to address the feature gap between the desktop and these phonetops rely on the...

IEEE Xplore | IEEE PERIODICALS | 01-OCT-2002 | Computer

7. **A Hybrid Web Rendering Framework on Cloud**

In web browsers with cloud assisted rendering such as Opera Mini and UC Mini, the rendering information in the HTML file on the cloud server is compressed to an intermediate lightweight format to save speed and bandwidth before sending to the client device. This causes a loss in rendering quality of...

IEEE Xplore | IEEE CONFERENCES | 01-JUN-2016 | 2016 IEEE International Conference on Web Services (ICWS) (Page(s): 602-608)

8. **Visual realism and interactivity for the Internet**

The World Wide Web (Web) has emerged as the preeminent way to publish and access information on networks, both publicly (the Internet) and within companies (intranets). Although nominally based on the HTML standard, there has been a steady stream of innovation in the domains of multimedia and...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | Proceedings IEEE COMPCON 97. Digest of Papers (Page(s): 269-273)

9. **Image transcoding proxy for mobile Internet access**

Relevance
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256 Results
1244 Results
0 Results
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Publication Date
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2017

With advances in wireless and portable devices technologies, a new paradigm called mobile computing is promising to make it possible for mobile users to access information "anywhere anytime". This paradigm, however, faces many technical challenges such as limited wireless bandwidth and high error...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2002 | Proceedings IEEE 56th Vehicular Technology Conference

10. Understanding and reducing Web delays

Slow performance costs e-commerce Web sites as much as $4.35 billion annually in lost revenue. Perceived latency-the amount of time between when a user issues a request and receives a response-is a critical issue. Research into improving performance falls into two categories: work on servers and...

IEEE Xplore | IEEE PERIODICALS | 01-DEC-2001 | Computer

11. FACADE - a framework for context-aware content adaptation and delivery

Modern technology promises mobile users Internet connectivity anytime, anywhere, using any device. However, given the constrained capabilities of mobile devices, the limited bandwidth of wireless networks and the varying personal sphere, effective information access requires the development of new...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2004 | Proceedings. Second Annual Conference on Communication Networks and Services Research, 2004. (Page(s): 46-55)

View More Visualizations

12. Universal WWW access for heterogeneous client devices

With the growth of using World Wide Web (WWW), WWW has become a powerful means of dissemination of information. Thus, the demand for faster, more efficient, and more convenient ways for accessing to WWW are urgently required. Consequently, the heterogeneous I/O client devices, i.e., DTMF telephone...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings 27th EUROMICRO Conference. 2001: A Net Odyssey (Page(s): 315-322)

13. Globally progressive interactive web delivery

This paper suggests that since web browsing is an interactive process and downloading a web page can take several seconds to several minutes over slow links, the information presented to the user during this time is important. We present new metrics and visualization techniques to illustrate and...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | IEEE INFOCOM '99. Conference on Computer Communications. Proceedings. Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies. The Future is Now (Cat. No.99CH36320)

14. Distributing Internet services to the network's edge

In the context of industrial information technology, the Internet and World Wide Web increasingly are seen as a solution to the problem of providing "anywhere, anytime" services. In the classical view of an Internet-enabled IT infrastructure, services are requested and consumed by a user (e.g., a...

IEEE Xplore | IEEE PERIODICALS | 01-JUN-2003 | IEEE Transactions on Industrial Electronics

15. On Web annotations: promises and pitfalls of current Web infrastructure

Annotations are a broadly useful mechanism that can support a number of useful document management applications (third-party commentary, design rationale, information filtering and semantic labelling of document content, to name just a few). The ubiquity of World Wide Web content motivates the needi...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | Proceedings of the 32nd Annual Hawaii International Conference on Systems Sciences. 1999. HICSS-32. Abstracts and CD-ROM of Full Papers

16. Wireless-adaptation of WWW content over CDMA

Information access through the WWW has become one of the most important applications for mobile clients. However, efficient wireless data connectivity is difficult to achieve due to physical and technological limitations. In this paper, we propose a proxy server architecture that facilitates highly...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | 1999 IEEE International Workshop on Mobile Multimedia Communications (MoMuC'99) (Cat. No.99EX384) (Page(s): 368-372)

17. Adapting content for wireless Web services

Motorola Labs' Web-enabled museum system demonstrates how context-aware wireless Web services can adapt their content to a user's dynamic context.

IEEE Xplore | IEEE PERIODICALS | 01-SEP-2003 | IEEE Internet Computing

18. Web page design for HTML (and friends)

In a world where Web pages can be generated automatically what sense does it make to discuss Web page design? Why

can't a technical writer just write a document, "save as HTML" and coordinate with marketing's multimedia expert? The paper examines the presentation triangle as it applies to the First...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1996 | IPCC 96: Communication on the Fast Track. IPCC 96 Proceedings (Page(s): 89-103)

19. **Adapting multimedia Internet content for universal access**

Content delivery over the Internet needs to address both the multimedia nature of the content and the capabilities of the diverse client platforms the content is being delivered to. We present a system that adapts multimedia Web documents to optimally match the capabilities of the client device...

IEEE Xplore | IEEE PERIODICALS | 01-MAR-1999 | IEEE Transactions on Multimedia

20. **Web GIS in practice VIII: HTML5 and the canvas element for interactive online mapping**

HTML5 is being developed as the next major revision of HTML (Hypertext Markup Language), the core markup language of the World Wide Web. It aims at reducing the need for proprietary, plug-in-based rich Internet application (RIA) technologies such as Adobe Flash. The canvas element is part of HTML5...

PMC2838837 | PUBMED CENTRAL | 03-MAR-2010 | International Journal of Health Geographics, 9, 14

21. **Multi-Format Web Content Transcoding for Mobile Devices**

The objective of this work is to allow users of mobile devices to visualize Web sites without mattering if Web sites were designed or not specifically for these types of devices; in that way, it is necessary to adapt Web contents to the limitations of each mobile device. In this paper, Web content...

IEEE Xplore | IEEE CONFERENCES | 01-SEP-2006 | 2006 Seventh Mexican International Conference on Computer Science (Page(s): 109-115)

22. **Caching of large database objects in Web servers**

The popularity of the World Wide Web has been increasing at an exponential rate of late. As such growth was unanticipated, the infrastructure is increasingly experiencing problems. The combination of increased network bandwidth demand and overloaded servers results in increased data retrieval...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | Proceedings Seventh International Workshop on Research Issues in Data Engineering. High Performance Database Management for Large-Scale Applications (Page(s): 10-19)

23. **Device independence and the Web**

Device manufacturers, users, and authors have differing needs and expectations when it comes to Web content. Web software and hardware manufacturers naturally try to differentiate their products by supporting a special combination of capabilities, but few can expect Web authors to create content for...

IEEE Xplore | IEEE PERIODICALS | 01-SEP-2002 | IEEE Internet Computing

24. **Web tools for large-scale 3D biological images and atlases**

Background Large-scale volumetric biomedical image data of three or more dimensions are a significant challenge for distributed browsing and visualisation. Many images now exceed 10GB which for most users is too large to handle in terms of computer RAM and network bandwidth. This is aggravated when...

PMC3412715 | PUBMED CENTRAL | 07-JUN-2012 | BMC Bioinformatics, 13, 122

25. **Web-based distribution of GIS metropolitan maps**

Much research on spatial data retrieval has been accumulated in the past two decades. However, the research of Internet distribution of GIS contents is still in its infancy. This paper describes a systematic approach to optimize Internet distribution of GIS vector maps. The goal is to reduce...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings Fifth International Conference on Information Visualisation (Page(s): 419-424)

26. **WebVideo. A tool for WWW-based teleoperation**

The Internet and the WWW are a ubiquitous network with a media rich interface. WWW browsers display text, graphics, video, audio and data in open and proprietary formats. Forms convey input from the user to the server. Video and form-based feedback in the WWW allow remote control and teleoperation...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | ISIE '97 Proceeding of the IEEE International Symposium on Industrial Electronics

27. **Attenuator: towards preserving the original appearance of large documents when rendered on small screen mobile devices**

Although compact mobile devices are convenient and have many advantages, their small screens can present problems. A significant proportion of HTML documents are optimally designed to look best when rendered on high-resolution

displays of desktop and laptop computers - not small screen mobile...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | 2003 International Conference on Multimedia and Expo. ICME '03. Proceedings (Cat. No.03TH8698)

28. **Mobile web browsing based on content preserving with reduced cost**

Internet has played a drastic change in today's life. Especially, web browsing has become more exclusive in compact devices. This tempts the people to migrate their innovations & skills into an unimaginable world. With these things in mind, it is necessary for us to concentrate more on the...

IEEE Xplore | IEEE CONFERENCES | 01-JUL-2013 | 2013 International Conference on Current Trends in Engineering and Technology (ICCTET) (Page(s): 402-405)

29. **War of the Mobile Browsers**

Wireless applications for mobile Web browsers can enrich user experience beyond the desktop environment. Server-transcoding and client rendering enable the wireless Web, while open platforms give applications developers extensions to expand mobile software's future.

IEEE Xplore | IEEE PERIODICALS | 01-JAN-2009 | IEEE Pervasive Computing

30. **TranSquid: transcoding and caching proxy for heterogenous e-commerce environments**

With the advent of the wireless Internet, the client space has become heterogeneous in terms of device capabilities. To cater to the needs of these devices in e-commerce applications, smart intermediaries have been developed to increase the user satisfaction by hiding the inherent weakness of some...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2002 | Proceedings Twelfth International Workshop on Research Issues in Data Engineering: Engineering E-Commerce/E-Business Systems RIDE-2EC 2002 (Page(s): 50-59)

31. **Online newspaper transcoding for handheld devices proposal for dyslexic people**

User requirements for handheld and mobile devices are increasing day by day and with this the demand for accessing internet on these devices has also increased drastically. Wireless networks have some limitations like bandwidth, display screen size and the battery power available. Working and...

IEEE Xplore | IEEE CONFERENCES | 01-DEC-2013 | 2013 IEEE International Conference in MOOC, Innovation and Technology in Education (MITE) (Page(s): 53-56)

32. **A composable framework for secure multi-modal access to Internet services from post-PC devices**

The post-PC revolution is bringing information access to a wide-range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However existing deployed Internet services are geared toward the secure rich interface...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2000 | Proceedings Third IEEE Workshop on Mobile Computing Systems and Applications (Page(s): 171-182)

33. **Content delivery networks: status and trends**

CDNs improve network performance and offer fast and reliable applications and services by distributing content to cache servers located close to users. The Web's growth has transformed communications and business services such that speed, accuracy, and availability of network-delivered content has...

IEEE Xplore | IEEE PERIODICALS | 01-NOV-2003 | IEEE Internet Computing

34. **Cmew/U-a multimedia Web annotation sharing system**

We describe the design and implementation of a multimedia Web annotation system that enables users to add information to multimedia contents obtained through the World Wide Web. We have developed a highly modular annotation server that stores users' annotations and embeds them into multiple types of...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | Proceedings of IEEE. IEEE Region 10 Conference. TENCON 99. 'Multimedia Technology for Asia-Pacific Information Infrastructure' (Cat. No.99CH37030)

35. **Distributed Information Object Resolution**

The established host-centric networking paradigm is challenged due to handicaps related with disconnected operation, mobility, and broken locator/identifier semantics. This paper soberly examines another topic of great interest: distributed information object resolution. After recapping the notion...

IEEE Xplore | IEEE CONFERENCES | 01-MAR-2009 | 2009 Eighth International Conference on Networks (Page(s): 360-366)

36. **PDA access to Internet content: focus on forms**

Many Web applications in business, personal finances, medicine, sales, and education, are ideal scenarios for the integrated use of different devices, both wired and wireless. From the user's perspective, accessing Web content using multiple devices is not enough, there needs to be continuity of...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | 36th Annual Hawaii International Conference on System Sciences, 2003. Proceedings of the (Page(s): 9 pp.)

37. **An Internet framework to bring coherence between WAP and HTTP ensuring better mobile Internet security**

To bring coherence between wireless access protocol (WAP) and hyper text transfer protocol (HTTP), in this paper, we have proposed an enhanced Internet framework, which incorporates a new markup language and a browser compatible with both of the access control protocols. This markup language and the...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2006 | 2006 8th International Conference Advanced Communication Technology

38. **Web caching and content switching for performance of content delivery**

With the emergence of web 2.0 the web has evolved from informational posting board to rich application platform. Web applications have replaced desktop applications from office productivity to 3d rendering. In this paper we'll present issues that degrade user web experience and increase demand for...

IEEE Xplore | IEEE CONFERENCES | 01-NOV-2015 | 2015 23rd Telecommunications Forum Telfor (TELFOR) (Page(s): 998-1001)

39. **Usage patterns of a Web-based image collection**

This paper presents a study of user access patterns to a large, Web-based, image collection. The images are the entire collection of the Fine Arts Museums of San Francisco, the largest on-line collection of high resolution art images in the world. The images are served using a tile-based solution...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | 16th IEEE Symposium on Mass Storage Systems in cooperation with the 7th NASA Goddard Conference on Mass Storage Systems and Technologies (Cat. No.99CB37098) (Page(s): 203-214)

40. **Developing secure transcoding intermediary for SVG medical images within peer-to-peer ubiquitous environment**

This work is intended to be an objective introduction to the topic of secure image transcoding for ubiquitous P2P environments. The focus of the article is on the "XMLization" (or computer imaging in XML) in general, and SVG in particular. This article develop a framework for achieving such goal...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2005 | 3rd Annual Communication Networks and Services Research Conference (CNSR'05) (Page(s): 151-156)

41. **A markup language and system for heterogeneous I/O devices**

With its growth the WWW has become a powerful and popular means of information dissemination. So does the demand for a faster, more efficient, and more convenient way for accessing the Internet. Thus, even for many non-computer devices, such as the telephone, fax machine, and hand-held devices,...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings 15th International Conference on Information Networking (Page(s): 427-434)

42. **Workflow steps to create a digital master format**

The typical result of an entire digital film production chain are multiple versions of a media file. This constitutes a great challenge in creating and managing for content creators. Especially in post production processes, different versions arise for final distribution of several resolutions,...

IEEE Xplore | IEEE CONFERENCES | 01-SEP-2016 | 2016 IEEE 6th International Conference on Consumer Electronics - Berlin (ICCE-Berlin) (Page(s): 154-158)

43. **Adapting Web content to mobile user agents**

In this article, we describe an adaptation proxy we developed as a part of a Kortti research project at VTT Information Technology that lets mobile users access Web content that's not directly targeted to mobile user agents. More and more content is now available on the Internet, and there's a...

IEEE Xplore | IEEE PERIODICALS | 01-MAR-2005 | IEEE Internet Computing

44. **Towards cross-platform collaboration - Transferring real-time groupware to the browser**

Mobile devices such as smartphones and tablets play an increasing role in today's working environment. The variety of computer platforms increased in the same way, which makes the development of cross-platform applications even more challenging. Tele-Board is a real-time remote collaboration system...

IEEE Xplore | IEEE CONFERENCES | 01-JUN-2013 | Proceedings of the 2013 IEEE 17th International Conference on Computer Supported Cooperative Work in Design (CSCWD) (Page(s): 49-54)

45. **Web caching and prefetching: What, why, and how?**

The demand for Internet content rose dramatically in recent years. Servers became more and more powerful and the bandwidth of end user connections and backbones grew constantly during the last decade. Nevertheless users often experience poor performance when they access web sites or download files....

IEEE Xplore | IEEE CONFERENCES | 01-AUG-2008 | 2008 International Symposium on Information Technology

46. **The art of massive storage: a Web image archive**

Museums can make their entire collections available to the world via the Internet. The Thinker ImageBase, the San Francisco Fine Arts Museums' online art image database, demonstrates issues involved in managing large storage systems and delivering their contents to users.

IEEE Xplore | IEEE PERIODICALS | 01-NOV-2000 | Computer

47. **Mosaic and the World Wide Web**

The World-Wide Web, an information service on the Internet, uses hypertext links to other textual documents or files. Users can click on a highlighted word or words in the text to provide additional information about the selected word(s). Users can also access graphic pictures, images, audio clips,...

IEEE Xplore | IEEE PERIODICALS | 01-OCT-1994 | Computer

48. **A review of network latency optimization techniques**

With the growth of the speed of and access to the Internet, the use of networked or cloud-based applications have grown substantially. Even though there is an increase in the speed of the network, latencies presented to networked applications are often unacceptable and result in lowering user...

IEEE Xplore | IEEE CONFERENCES | 01-AUG-2013 | 2013 IEEE Pacific Rim Conference on Communications, Computers and Signal Processing (PACRIM) (Page(s): 20-25)

49. **Distributed application service for Internet information portal**

As Internet information portals become prevalent for both Internet and Intranet, most existing Internet Application Server architectures are not scalable to support the large amount of personalization, customization and content adaptation required. We propose a framework to capture the information...

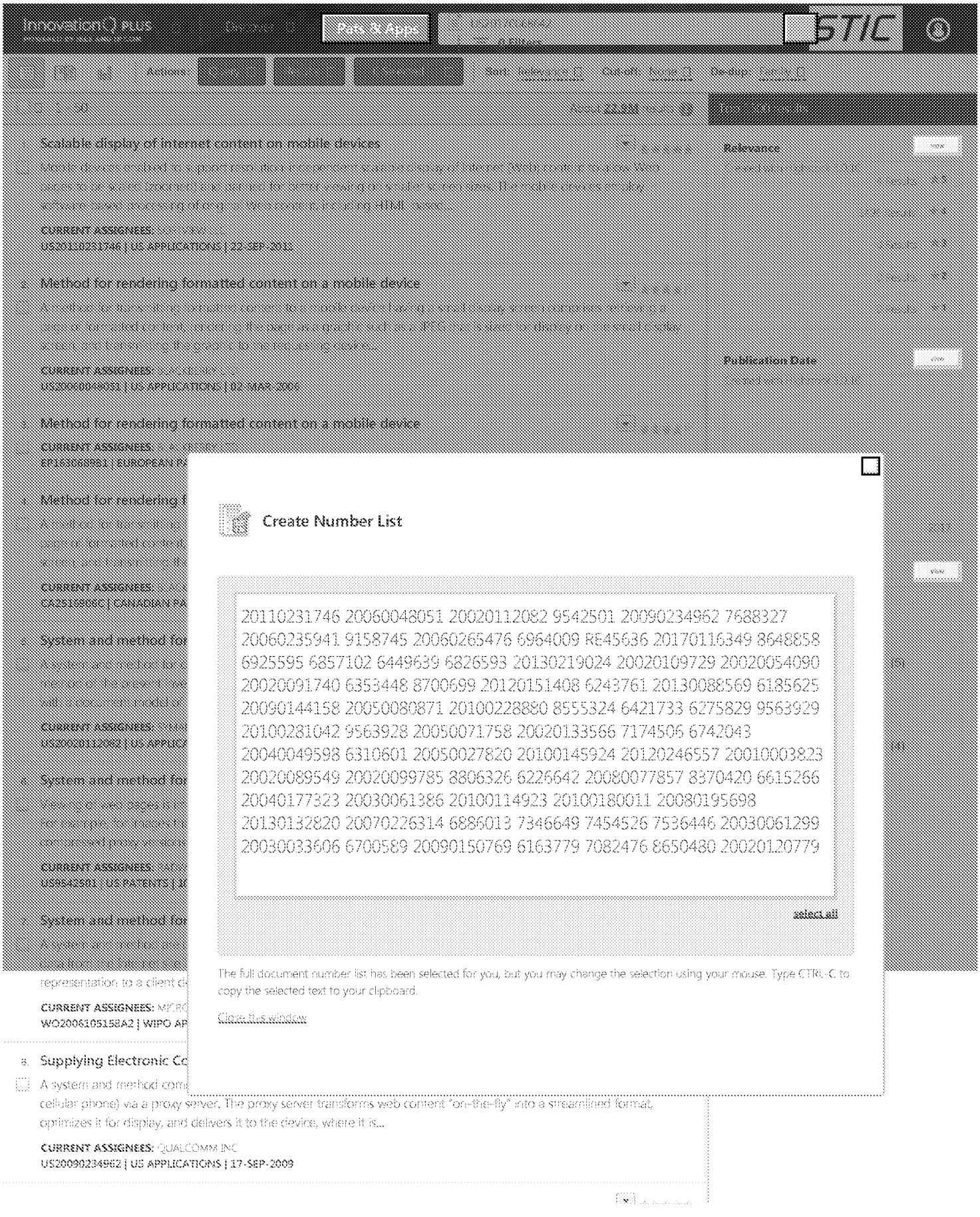
IEEE Xplore | IEEE CONFERENCES | 01-JAN-2000 | 2000 IEEE International Symposium on Circuits and Systems. Emerging Technologies for the 21st Century. Proceedings (IEEE Cat No.00CH36353)

50. **Click-once hypertext: now you see it, now you don't**

SMASH (Self-Modifying As-Selected Hypertext) is a system for automatically removing text from a Web page as hyperlinks are selected. Making links (and, optionally, other related text) click-once allows a system to avoid clutter and provide visual feedback to a user. Unlike other typical adaptive...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings. The Second IEEE Workshop on Internet Applications. WIAPP 2001 (Page(s): 84-93)

Show next: 50 | 100 | 250 | 500 | 1000 Results


Create Number List
20110231746 20060048051 20020112082 9542501 20090234962 7688327
20060235941 9158745 20060265476 6964009 RE45636 20170116349 8648858
6925595 6857102 6449639 6826593 20130219024 20020109729 20020054090
20020091740 6353448 8700699 20120151408 6243761 20130088569 6185625
20090144158 20050080871 20100228880 8555324 6421733 6275829 9563929
20100281042 9563928 20050071758 20020133566 7174506 6742043
20040049598 6310601 20050027820 20100145924 20120246557 20010003823
20020089549 20020099785 8806326 6226642 20080077857 8370420 6615266
20040177323 20030061386 20100114923 20100180011 20080195698
20130132820 20070226314 6886013 7346649 7454526 7536446 20030061299
20030033606 6700589 20090150769 6163779 7082476 8650480 20020120779
select all
The full document number list has been selected for you, but you may change the selection using your mouse. Type CTRL-C to copy the selected text to your clipboard.
Close this window

9. **Visual content browsing with zoom and pan features**

The present invention relates to display of visual content on a client device using server-side rasterization of visual content. Visual content is rendered on a server system, transformed into bitmaps compatible with the display attributes of a client device, and transmitted for display on the...

CURRENT ASSIGNEES: CALLAHAN CELLULAR LLC
US7688327 | US PATENTS | 30-MAR-2010

10. **System and method for transferring web page data**

The system and method may include the method comprising: accessing an Internet site through the proxy server, and converting it into a multiresolution representation of the image data from the Internet site, and transmitting to the client device a plurality of image data resolution representation...

CURRENT ASSIGNEES: マイクロソフト コーポレーション
JP2008535098A | JAPANESE APPLICATIONS | 28-AUG-2008

11. **System and method for transferring web page data**

A system and method are disclosed which may include accessing an Internet site by a proxy server; converting image data from the Internet site into a multiresolution representation; and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20060235941 | US APPLICATIONS | 19-OCT-2006

12. **Optimization of media content using generated intermediate media content**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US9158745 | US PATENTS | 13-OCT-2015

13. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: ROCKY OFFNER NELSON H [+4]
US20060265476 | US APPLICATIONS | 23-NOV-2006

14. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US6964009 | US PATENTS | 08-NOV-2005

15. **Method and system for streaming images to wireless devices**

CURRENT ASSIGNEES: BARTAMVA DRIO DATA LLC
EP180049181 | EUROPEAN PATENTS | 19-MAR-2014

16. **System, method, and computer program component for changing web content to be displayed by general computing device**

(57) and that to facilitate the display of the web content due to the spread computing device that might be compared [summary] and [challenge] desktop computing device has a performance limit and various smaller display. For comparison with the [SOLUTION] desktop computing device, and displays the...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
JP2000222276A | JAPANESE APPLICATIONS | 11-AUG-2000

17. **Controlling the order in which content is displayed in a browser**

A main document and referenced frame documents to be rendered by a browser for a display page are parsed by the browser to identify where text and graphics objected are to be located. The location of a cursor that is used by the user to interact with the browser is tracked, and the object nearest to...

CURRENT ASSIGNEES: INTELLECTUAL VENTURES I LLC
USRE45636 | US PATENTS | 28-JUL-2015

View More Visualizations

18. **Creation and delivery of pre-rendered web pages for accelerated browsing**

The process of rendering web pages can be significantly improved with a content delivery system that pre-renders web content for a client device. A web page "program" can be pre-executed and the result delivered to a requesting client device, rather than or before sending a traditional set of web...

CURRENT ASSIGNEES: AKAMAI TECH INC
US20170116349 | US APPLICATIONS | 27-APR-2017

19. **A method and apparatus for reformatting of content for display on interactive television**

CURRENT ASSIGNEES: OPENTV INC
EP1356668081 | EUROPEAN PATENTS | 22-MAY-2013

20. **Hybrid text and image based encoding**

A configuration for encoding and decoding the data is disclosed herein. A server retrieves webpage content to filter and extract text and image data. The text data is encoded using a lossless encoder, whereas the image data is downsampled to a lower resolution and encoded using a lossy encoder. The...

CURRENT ASSIGNEES: PERFORMANCE & PRIVACY IRELAND LTD
US8648858 | US PATENTS | 11-FEB-2014

21. **Multiple graphics image viewer**

A method, apparatus, and system in which a multiple-image viewer (102) concurrently displays and manipulates multiple images within a single window in a network system (108). The multiple-image viewer (102) is displayed on a client computer (104), which in turn communicates with an image database...

CURRENT ASSIGNEES: PICSURF INC
WO2001052034A1 | WIPO APPLICATIONS | 19-JUL-2001

22. **Method and system for content conversion of hypertext data using data mining**

Method and system for content conversion of electronic data using data mining. A user is able select one or more hypertext elements from one or more hypertext electronic document for conversion based on user conversion preferences. For example, a user selects one or more display elements from one or...

CURRENT ASSIGNEES: OPENTV INC
US6925595 | US PATENTS | 02-AUG-2005

23. **Document re-authoring systems and methods for providing device-independent access to the world wide web**

An automatic re-authoring system and method re-author a document originally designed for display on a desktop computer screen for display on a smaller display screen, such as those used with a PDA or a cellular telephone. The automatic re-authoring system and method input a document to be...

CURRENT ASSIGNEES: FUJI XEROX CO LTD [+1]
US6857102 | US PATENTS | 15-FEB-2005

24. **Method and system for client-less viewing of scalable documents displayed using internet imaging protocol commands**

A method and system for viewing a document containing at least one page and at least one image, the document being located on a server computer, including sending by a client computer a page display request to the server computer creating by the server computer a layout page containing a reference...

CURRENT ASSIGNEES: CANON INC [+1]
US6449639 | US PATENTS | 10-SEP-2002

25. **Computer implemented method and apparatus for fulfilling a request for information content with a user-selectable version of a file containing that information content**

A method of fulfilling a request for information content with a user-selectable version of a file containing that information content. Selection of a hyperlink to information content results in generation of a menu of versions of files containing that information content. The menu displays options...

CURRENT ASSIGNEES: ALCATEL LUCENT USA INC
US6826593 | US PATENTS | 30-NOV-2004

26. **System and methodology for delivering media to multiple disparate client devices based on their capabilities**

An online media delivery system incorporating combining on-the-fly media reformatting with advanced client detection capabilities enabling delivery of appropriate media content to connected client devices is described. The system receives

requests from client devices for media documents or objects,...

CURRENT ASSIGNEES: LIGHTSURF TECH INC
EP1451662A2 | EUROPEAN APPLICATIONS | 01-SEP-2004

27. **Methods and apparatus for accelerating content authored for multiple devices**

Disclosed herein are systems, methods, and apparatus for improving the delivery of web content that has been authored for multiple devices. In certain embodiments, an intermediary device such as a proxy server determines the characteristics of a client device requesting multi-device content, obtains...

CURRENT ASSIGNEES: AKAMAI TECH INC
US20130219024 | US APPLICATIONS | 22-AUG-2013

28. **Conversion process for document data that is communicated over the Internet uses data base of conversion preferences**

The invention relates to a method and a system for the contents of various design of electronic documents, the one or more conversion preferences use. Original electronic documents in a standard format (for example, svga, 800 × 600 pixels - and / or image points resolution, 256 colors) are converted...

CURRENT ASSIGNEES: SPYGLASS INC
DE19936314A1 | GERMAN APPLICATIONS | 17-FEB-2000

29. **Integrating content with virtual advertisements using vector graphics images obtainable on the web**

A system and method for virtual advertising on the web are disclosed. According to this system and method, scalable vector graphic (SVG) images representing advertising content may be inserted into web pages so that they are unobtrusively superimposed over other SVG images on the page. This...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20020109729 | US APPLICATIONS | 15-AUG-2002

30. **Gathering enriched web server activity data of cached web content**

According to the present invention, there is provided a method and system for collecting activity data rich web server in a global communication network, the requested file information are cached in a plurality of network devices. As the Web over the Internet caching is widespread, the origin web...

CURRENT ASSIGNEES:
KR100612711B1 | KOREAN PATENTS | 18-AUG-2006

31. **Method and apparatus for creating and providing personalized access to web content and services from terminals having diverse capabilities**

A personalized Web view of content in a Web page is created for later access by users through diverse terminals having different types of processing and display capabilities. The Web view provides a shortcut to specific content and services, which a user is interested in retrieving through limited...

CURRENT ASSIGNEES: ALCATEL LUCENT USA INC
US20020054090 | US APPLICATIONS | 09-MAY-2002

32. **Method of adapting a page in a markup language**

A method and system of adapting a WWW page in a markup language alters how it is displayed, for example modification of text font, colour or size. The method identifies at least one boundary of an area of content within the page and then converts the display characteristics of the content, whilst...

CURRENT ASSIGNEES: MARTIN SABRY [+1]
GB2442248A | GREAT BRITAIN APPLICATIONS | 02-APR-2008

33. **Electronic publishing method and system**

A method of electronically publishing. Information is received. The information is transformed into an MVR document. The MVR document is stored on a document server. The MVR document is sent to a recipient.

CURRENT ASSIGNEES: MULTIVIEW INC
US20020091740 | US APPLICATIONS | 11-JUL-2002

34. **Graphic user interface display method**

A method of displaying graphic user interface layouts including the steps of accessing a data repository storing an instruction set for constructing a graphic user interface layout through a network connection, rendering the graphic user interface layout associated with the instruction set and...

CURRENT ASSIGNEES: EZ ONLINE NETWORK INC

US6353448 | US PATENTS | 05-MAR-2002

35. **Using a proxy server for a mobile browser**

Techniques describe providing a web page for a proxy-based browser on a mobile device to enhance user experience. A proxy server receives a layout of the web page, extracts web elements from the web page, and captures images of the web elements of the web page. The web elements are incorporated with...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US8700699 | US PATENTS | 15-APR-2014

36. **Dynamic network browser**

A system and method of browsing digital content, and is related to companion applications filed simultaneously, all of which are part and parcel of a method for browsing digital content and composing digital media and data, via dynamic interaction of tiled images, external video, audio, text, and...

CURRENT ASSIGNEES: LILA APS AHEAD
US20120151408 | US APPLICATIONS | 14-JUN-2012

37. **Method for dynamically adjusting multimedia content of a web page by a server in accordance to network path characteristics between client and server**

A computer implemented method adjusts a Web page including multimedia content according to the effective bandwidth and/or latency monitored on a network path connecting a server computer storing the Web page, and a client computer requesting the Web page. In response to receiving a request for the...

CURRENT ASSIGNEES: HEWLETT PACKARD DEV CO LP
US6243761 | US PATENTS | 05-JUN-2001

38. **Apparatuses, methods and systems for provision of 3d content over a communication network**

The APPARATUSES, METHODS AND SYSTEMS FOR PROVISION OF 3D CONTENT OVER A COMMUNICATION NETWORK ("3D-WCP") implement on-demand client-independent network streaming of three-dimensional ("3D") media content. In one embodiment, a 3D media streaming processor-implemented method is disclosed, comprising:...

CURRENT ASSIGNEES: GLOBAL DEV HLDG LTD
US20130088569 | US APPLICATIONS | 11-APR-2013

39. **Method for dynamically transcoding data transmitted between computers**

CURRENT ASSIGNEES: INTEL CORP
EP1701508B1 | EUROPEAN PATENTS | 14-SEP-2016

40. **Scaling proxy server sending to the client a graphical user interface for establishing object encoding preferences after receiving the client's request for the object**

A system for enhancing data access over a communications link is disclosed. In accordance with a particular embodiment, a system for retrieving an object over a computer network includes a network client with a browser for rendering an object to a user and a user interface enabling the user to...

CURRENT ASSIGNEES: INTEL CORP
US6185625 | US PATENTS | 06-FEB-2001

41. **System And Method For Enabling Viewing Of Documents Not In HTML Format**

A system and method for enabling viewing of non-HTML content. A content provider receives a request to view non-HTML content from a user and forwards JavaScript code to the user. The content provider sends the non-HTML content over a network to a document hosting service. The document hosting...

CURRENT ASSIGNEES: VUZIT LLC
US20090144158 | US APPLICATIONS | 04-JUN-2009

42. **Image distribution for dynamic server pages**

Methods, systems, and products for distributing images in a data processing system, including receiving a request for a dynamic server page having a multiplicity of associated images, each image having a storage location identified in the dynamic server page by an image resource locator; inserting...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20050080871 | US APPLICATIONS | 14-APR-2005

43. **System and Method for Providing and Displaying Information Content**

A system and method is provided for enabling an electronic device to efficiently access information content. A server

browser accesses the information content over a network. The accessed information content is retrieved and adapted for presentation for the electronic device. A serializer...

CURRENT ASSIGNEES: NOKIA CORP
US20100228880 | US APPLICATIONS | 09-SEP-2010

44. **Video download mechanism for transferring large data**

A content delivery system stores large content as frames of video that can be served by content servers already optimized for streaming video. Instead of storing image tiles in separate files, the system treats each tile as a frame of a video and stores the tiles in a video format. This allows...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US8555324 | US PATENTS | 08-OCT-2013

45. **System for dynamically transcoding data transmitted between computers**

A system for dynamically transcoding data transmitted between computers is implemented in an apparatus for use in transmitting data between a network server and a network client over a communications link. The apparatus includes a parser coupled to a transcode service provider. The parser is...

CURRENT ASSIGNEES: INTEL CORP
US6421738 | US PATENTS | 16-JUL-2002

46. **Representing a graphic image on a web page with a thumbnail-sized image**

An original (full size) image is automatically represented by a thumbnail (reduced size) image on a Web page. A user selects the original image that will be represented by the thumbnail image. The thumbnail image is produced and placed into a Web page that is being created or edited. While viewing...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US6275829 | US PATENTS | 14-AUG-2001

47. **Caching of content page layers**

Server systems are disclosed that receive content request and respond with hardware-independent graphics commands instead of, or in addition to, unprocessed content items. Some server systems may act as intermediaries between user devices and content sources. The server systems can obtain content...

CURRENT ASSIGNEES: AMAZON TECH INC
US9563929 | US PATENTS | 07-FEB-2017

48. **Method and System for Transforming and Delivering Video File Content for Mobile Devices**

A method and system for accessing video file content is provided. When a user encounters a web page with video content, the user can select to view the video content and wait for the server to transcode the video file and to stream the transcoded video file to the user's client device....

CURRENT ASSIGNEES: NOKIA CORP
US20100281042 | US APPLICATIONS | 04-NOV-2010

49. **Method of providing a web page with inserted content**

Methods and systems are provided for filtering content into a web page and provided the modified web page to a web browser (801). A request for a web page is intercepted and redirected to a web page processing agent (811), which fetches the requested web content. New web page is generated that...

CURRENT ASSIGNEES: MOBILAPS LLC
EP1815347A2 | EUROPEAN APPLICATIONS | 08-AUG-2007

50. **Bandwidth reduction through delivery of hardware-independent graphics commands for portions of content pages**

Server systems are disclosed that receive content request and respond with hardware-independent graphics commands instead of, or in addition to, unprocessed content items. Some server systems may act as intermediaries between user devices and content sources. The server systems can obtain content...

CURRENT ASSIGNEES: AMAZON TECH INC
US9563928 | US PATENTS | 07-FEB-2017

Patent Applications | Patents & Apps | HIDE WIDGET
Document Research | Query Terms | TERMS (20) | Fr | Des
US20110231746 Scalable display of internet content on mobile devices
DOCUMENT ACTIONS
Front Page | Family (25) | Citations | Description | Claims
Figures (23) | Pages (35) | Legal | Litigation (8)

RELATED APPLICATIONS

This application is a Continuation of U.S. Non-provisional application Ser. No. 11/738,486, filed Apr. 21, 2007, (to be issued as U.S. Pat. No. 7,831,926) entitled "SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES," which is a Continuation of U.S. Non-provisional application Ser. No. 09/878,097, filed Jun. 8, 2001, (issued as U.S. Pat. No. 7,210,099) entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT" which is a Continuation-in-Part of U.S. Non-provisional application Ser. No. 09/828,511, filed Apr. 7, 2001, (Abandoned) entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT" the benefit of the filing dates of which is claimed under 35 U.S.C. §120. U.S. Non-provisional application Ser. No. 09/878,097 further claims the benefit of the filing dates of U.S. Provisional Application No. 60/211,019, filed Jun. 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 Jul. 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 U.S. Non-provisional application Ser. No. 09/878,097) U.S. Non-provisional application Ser. No. 11/045,649 (issued as U.S. Pat. No. 7,584,423) entitled Method, Flow and System to Support Full-Page Web Browsing on Hand-held Devices, and Ser. No. 11/045,757 (issued as U.S. Pat. No. 7,461,353) entitled SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES, both filed Jan. 28, 2005. This application also contains subject matter related to U.S. Non-provisional application Ser. Nos. 11/735,477 and 11/735,482, both filed on Apr. 15, 2007, Ser. No. 11/738,932 filed on Apr. 23, 2007, Ser. No. 11/868,124 filed on Oct. 5, 2007, and Ser. No. 12/326,092 filed on Dec. 1, 2008.

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BACKGROUND OF THE INVENTION

1. Field of the Invention

The invention relates generally to viewing of Internet content on mobile devices, and more particularly concerns to novel processing of Internet and World Wide Web content to scalable forms for resolution independent rendering and zooming and pan-enabling the display of content on mobile devices.

2. Description of the Related Art

The only Internet information system 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. It 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.

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

[redacted] Font size and resizing [redacted] area for [redacted] can alter the size of the [redacted] of [redacted] in existing [redacted] The majority of [redacted] [redacted] as a flat single [redacted] with no [redacted] support for [redacted]

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

BRIEF SUMMARY OF THE INVENTION

In accordance with aspects of the invention, mobile devices are enabled to support [redacted]

US20070198917 | US APPLICATIONS | 23-AUG-2007

View M Highlight None

11. **Resolution independent display of internet content**

Apparatus, methods and software for creating resolution-independent 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...

CURRENT ASSIGNEES: SOFTVIEW LLC
US7844889 | US PATENTS | 30-NOV-2010

12. **Resolution independent vector display of internet content**

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 Web content is...

CURRENT ASSIGNEES: SOFTVIEW LLC
US20070198916 | US APPLICATIONS | 23-AUG-2007

13. **Resolution independent vector display of internet content**

Apparatus and methods are provided 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. According to one embodiment, novel server processing of Web content is provided...

CURRENT ASSIGNEES: SOFTVIEW LLC
US20050131887 | US APPLICATIONS | 16-JUN-2005 LITIGATION

14. **Resolution independent vector display of internet content**

Apparatus and methods are provided 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. According to one embodiment, novel server processing of Web content is provided...

CURRENT ASSIGNEES: SOFTVIEW LLC
US7210099 | US PATENTS | 24-APR-2007

15. **Resolution independent vector display of internet content**

Apparatus and methods are provided 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. According to one embodiment, novel server processing of Web content is provided...

CURRENT ASSIGNEES: SOFTVIEW LLC
US20050132286 | US APPLICATIONS | 16-JUN-2005

16. **Resolution independent vector display of internet content**

Apparatus and methods are provided 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. According to one embodiment, novel server processing of Web content is provided...

CURRENT ASSIGNEES: SOFTVIEW LLC
US20020091738 | US APPLICATIONS | 11-JUL-2002

17. **Resolution independent vector display of internet content**

Apparatus and methods are provided 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 (Fig. 1A). According to one embodiment, novel server processing of Web content is...

CURRENT ASSIGNEES: SOFTSOURCE INC
WO2001096985A2 | WIPO APPLICATIONS | 20-DEC-2001

18. **Scalable display of internet content on mobile devices**

Mobile devices enabled to support resolution-independent scalable display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing on smaller screen sizes. The mobile devices employ software-based processing of original Web content, including HTML-based...

CURRENT ASSIGNEES: SOFTVIEW LLC
US8145995 | US PATENTS | 27-MAR-2012

19. **Method, browser client and apparatus to support full-page web browsing on hand-held devices**

Method, browser client, and apparatus for enabling users of hand-held devices to perform full page browsing of Web pages with zooming and panning. A proxy or proxy server is used to process HTML-based Web content corresponding to requested Web pages in their original form and generate translated ...

CURRENT ASSIGNEES: SOFTVIEW LLC
US7823083 | US PATENTS | 26-OCT-2010

20. **Method, proxy and system to support full-page web browsing on hand-held devices**

Method, proxy, and system for enabling users of hand-held devices to perform full page browsing of Web pages with zooming and panning. A proxy or proxy server is used to process HTML-based Web content corresponding to requested Web pages in their original form and generate translated content that is...

CURRENT ASSIGNEES: SOFTVIEW LLC
US7584423 | US PATENTS | 01-SEP-2009

21. **Method for rendering formatted content on a mobile device**

A method for transmitting formatted content to a mobile device having a small display screen comprises retrieving a page of formatted content, rendering the page as a graphic such as a JPEG that is sized for display on the small display screen, and transmitting the graphic to the requesting device...

CURRENT ASSIGNEES: BLACKBERRY LTD
US20060048051 | US APPLICATIONS | 02-MAR-2006

22. **Method for rendering formatted content on a mobile device**

CURRENT ASSIGNEES: BLACKBERRY LTD
EP1830688B1 | EUROPEAN PATENTS | 07-NOV-2007

23. **Method for rendering formatted content on a mobile device**

A method for transmitting formatted content to a mobile device having a small display screen comprises retrieving a page of formatted content, rendering the page as a graphic such as a JPEG that is sized for display on the small display screen, and transmitting the graphic to the requesting device...

CURRENT ASSIGNEES: BLACKBERRY LTD
EP1630689A1 | EUROPEAN APPLICATIONS | 01-MAR-2006

24. **Method for rendering formatted content on a mobile device**

A method for transmitting formatted content to a mobile device having a small display screen comprises retrieving a page of formatted content, rendering the page as a graphic such as a JPEG that is sized for display on the small display screen, and transmitting the graphic to the requesting device...

CURRENT ASSIGNEES: BLACKBERRY LTD
CA2516906C | CANADIAN PATENTS | 24-NOV-2009

25. **System and method for delivery of documents over a computer network**

A system and method for delivering a document by a first computer to a second computer over a computer network. A method of the present invention includes the following steps: (1) decomposing the document into nodes in accordance with a document model of the document; (2) associating the nodes with...

CURRENT ASSIGNEES: SYMANTEC CORP
US20020112082 | US APPLICATIONS | 15-AUG-2002

26. **System and method for delivery of documents over a computer network**

A system and method for delivering a document by a first computer to a second computer over a computer network. A method of the present invention includes the following steps: (1) decomposing the document into nodes in accordance with a document model of the document; (2) associating the nodes with...

CURRENT ASSIGNEES: SYMANTEC CORP
US7343555 | US PATENTS | 11-MAR-2008

27. **System and method for delivery of documents over a computer network**

A system and method for delivering a document by a first computer to a second computer over a computer network. A method of the present invention includes the steps of decomposing a document into nodes (210) in accordance with a document model of the document, associating the nodes with a virtual...

CURRENT ASSIGNEES: CINCRO COMM CORP
WO2002046946A1 | WIPO APPLICATIONS | 13-JUN-2002

28. **System and method for presenting content in a client/server environment**

Viewing of web pages is improved by prioritizing image rendering based on positioning of images within a web page. For example, for images that are likely to be initially viewable upon presentation of the web page (i.e., prior to scrolling), compressed proxy versions are made available so that the...

CURRENT ASSIGNEES: RADWARE CANADA HLDG INC
US9542501 | US PATENTS | 10-JAN-2017

29. **System and method for transferring web page data**

A system and method are disclosed which may include accessing an Internet site by a proxy server, converting image data from the Internet site into a multiresolution representation, and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT CORP
WO2006105158A2 | WIPO APPLICATIONS | 05-OCT-2006

30. **System and method for transferring web page data**

A system and method are disclosed which may include accessing an Internet site by a proxy server, converting image data from the Internet site into a multiresolution representation, and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT CORP
EP1864222A2 | EUROPEAN APPLICATIONS | 12-DEC-2007

31. **System and method for transferring web page data**

CURRENT ASSIGNEES: MICROSOFT CORP
AU2006230233A1 | AUSTRALIAN PATENT DOCUMENTS | 25-OCT-2007

32. **System and method for transferring web page data**

A system and method are disclosed which may include accessing an Internet site by a proxy server, converting image data from the Internet site into a multiresolution representation, and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT CORP
CA2599357A1 | CANADIAN APPLICATIONS | 05-OCT-2006

33. **Image Optimization**

Viewing of web pages is improved by prioritizing image rendering based on positioning of images within a web page. For example, for images that are likely to be initially viewable upon presentation of the web page (i.e., prior to scrolling), compressed proxy versions are made available so that the...

CURRENT ASSIGNEES: RADWARE CANADA HLDG INC
US20120194519 | US APPLICATIONS | 02-AUG-2012

34. **Supplying Electronic Content to Networked Appliances**

A system and method communicates data from a web content provider to a wireless computing device (e.g., a PDA, a cellular phone) via a proxy server. The proxy server transforms web content "on-the-fly" into a streamlined format, optimizes it for display, and delivers it to the device, where it is...

CURRENT ASSIGNEES: QUALCOMM INC
US20090234962 | US APPLICATIONS | 17-SEP-2009

35. **Supplying electronic content to networked appliances**

A system and method communicates data from a web content provider to a wireless computing device (e.g., a PDA, a cellular phone) via a proxy server. The proxy server transforms web content "on-the-fly" into a streamlined format, optimizes it for display, and delivers it to the device, where it is...

CURRENT ASSIGNEES: QUALCOMM INC
US8001257 | US PATENTS | 16-AUG-2011

36. **Supplying electronic content to networked appliances**

A system and method communicates data from a web content provider to a wireless computing device (e.g., a PDA, a cellular phone) via a proxy server. The proxy server transforms web content "on-the-fly" into a streamlined format, optimizes it for display, and delivers it to the device, where it is...

CURRENT ASSIGNEES: QUALCOMM INC
US7539766 | US PATENTS | 26-MAY-2009

37. **Visual content browsing with zoom and pan features**

The present invention relates to display of visual content on a client device using server-side rasterization of visual content. Visual content is rendered on a server system, transformed into bitmaps compatible with the display attributes of a client device, and transmitted for display on the...

CURRENT ASSIGNEES: CALLAHAN CELLULAR LLC
US7688327 | US PATENTS | 30-MAR-2010

38. **Apparatus and method for supplying electronic content to network appliances**

A system and method communicates data from a web content provider to a wireless computing device (e.g., a PDA, a cellular phone) via a proxy server. The proxy server transforms web content "on-the-fly" into a streamlined format, optimizes it for display, and delivers it to the device, where it is...

CURRENT ASSIGNEES: QUALCOMM INC [+1]
US7216177 | US PATENTS | 08-MAY-2007

39. **System and method for transferring web page data**

The system and method may include the method comprising, accessing an Internet site through the proxy server, and converting it into a multiresolution representation of the image data from the Internet site, and transmitting to the client device a plurality of image data resolution representation...

CURRENT ASSIGNEES: ﾏｲｸﾛｿﾌﾄ ｺｰﾎﾟﾚｰｼｮﾝ
JP2008535098A | JAPANESE APPLICATIONS | 28-AUG-2008

40. **Visual content browsing with zoom and pan features**

The present invention relates to display of visual content on a client device using server-side rasterization of visual content. Visual content is rendered on a server system, transformed into bitmaps compatible with the display attributes of a client device, and transmitted for display on the...

CURRENT ASSIGNEES: CALLAHAN CELLULAR LLC
US20070263007 | US APPLICATIONS | 15-NOV-2007

41. **System and method for transferring web page data**

A system and method are disclosed which may include accessing an Internet site by a proxy server; converting image data from the Internet site into a multiresolution representation; and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20060235941 | US APPLICATIONS | 19-OCT-2006

42. **Optimization of media content using generated intermediate media content**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US9158745 | US PATENTS | 13-OCT-2015

43. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation

procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US8495242 | US PATENTS | 23-JUL-2013

46. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author ..

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US8656046 | US PATENTS | 18-FEB-2014

45. **Automated Media Delivery System**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: BARGER SEAN [+5]
US20090089422 | US APPLICATIONS | 02-APR-2009

46. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US8381110 | US PATENTS | 19-FEB-2013

47. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author ..

CURRENT ASSIGNEES: EQUILIBRIUM AMPS INC
US20130138774 | US APPLICATIONS | 30-MAY-2013

48. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: EQUILIBRIUM AMPS INC [+1]
US20160036889 | US APPLICATIONS | 04-FEB-2016

49. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: ROCKY OPPNER NELSON H [+4]
US20060265476 | US APPLICATIONS | 23-NOV-2006

50. **Automated Media Delivery System**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author ..

CURRENT ASSIGNEES: BARGER SEAN [+5]
US20100153495 | US APPLICATIONS | 17-JUN-2010

InnovationQ PLUS
Discover
IPL
US20170068642
0 Filters
STIC
Actions:
Sort: Relevance
Cut-off: None
1 50
2,046,233 results
Page 1 of 40,925

1. **World Wide Web: whence, whither, what next?**

The World Wide Web (WWW) has become, next to electronic mail, the most popular Internet application. It has been a major contributor in turning the Internet into a household word. The WWW allows users to retrieve text and multimedia objects from servers located throughout the world, with objects...

IEEE Xplore | IEEE PERIODICALS | 01-MAR-1996 | IEEE Network

2. **Pixel Navigator - a simple mobile Internet paradigm**

The rise of the World Wide Web and the market growth of mobile devices with advanced data capability make the mobile Internet the inevitable next big wave of technology. Due to the form factor limitation, a mobile device will never be used as a Web browsing tool like its desktop counterpart. People...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | 2003 Symposium on Applications and the Internet, 2003. Proceedings. (Page(s): 394-397)

3. **Improving the performance of the World Wide Web over wireless networks**

The World Wide Web has become the largest source of Internet traffic, but it was not designed for wireless networks. This paper discusses some of the problems encountered when using the Web over wireless networks and describes solutions to those problems. By designing a multithreaded proxy server...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | GLOBECOM 97. IEEE Global Telecommunications Conference. Conference Record

4. **Adapting to network and client variation using infrastructural proxies: lessons and perspectives**

Today's Internet clients vary widely with respect to both hardware and software properties: screen size, color depth, effective bandwidth, processing power, and the ability to handle different data formats. The order-of-magnitude span of this variation is too large to hide at the network level,...

IEEE Xplore | IEEE PERIODICALS | 01-AUG-1998 | IEEE Personal Communications

5. **Thin Client Visualization**

We have developed a Web 2.0 thin client visualization framework called GeoBoostrade. Our framework focuses on geospatial visualization and using scalable vector graphics (SVG), AJAX, RSS and GeoRSS we have built a complete thin client component set. Our component set provides a rich user experience...

IEEE Xplore | IEEE CONFERENCES | 01-OCT-2007 | 2007 IEEE Symposium on Visual Analytics Science and Technology (Page(s): 51-58)

6. **Web interaction using very small Internet devices**

Internet-enabled cell phones typically accommodate only three to 12 text lines, and their design emphasizes portability. Web interaction has, so far, been a secondary concern. For the most part, automated techniques to address the feature gap between the desktop and these phonetops rely on the...

IEEE Xplore | IEEE PERIODICALS | 01-OCT-2002 | Computer

7. **A Hybrid Web Rendering Framework on Cloud**

In web browsers with cloud assisted rendering such as Opera Mini and UC Mini, the rendering information in the HTML file on the cloud server is compressed to an intermediate lightweight format to save speed and bandwidth before sending to the client device. This causes a loss in rendering quality of...

IEEE Xplore | IEEE CONFERENCES | 01-JUN-2016 | 2016 IEEE International Conference on Web Services (ICWS) (Page(s): 602-608)

8. **Visual realism and interactivity for the Internet**

The World Wide Web (Web) has emerged as the preeminent way to publish and access information on networks, both publicly (the Internet) and within companies (intranets). Although nominally based on the HTML standard, there has been a steady stream of innovation in the domains of multimedia and...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | Proceedings IEEE COMPCON 97. Digest of Papers (Page(s): 269-273)

9. **Image transcoding proxy for mobile Internet access**

Relevance
Created with Highstock 5.0.10
0 Results
256 Results
1244 Results
0 Results
0 Results
Collections
Created with Highstock 5.0.10[1142655271634764]IEEE Periodicals (266)
Publication Date
Created with Highstock 5.0.10
1998
2017

With advances in wireless and portable devices technologies, a new paradigm called mobile computing is promising to make it possible for mobile users to access information "anywhere anytime". This paradigm, however, faces many technical challenges such as limited wireless bandwidth and high error...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2002 | Proceedings IEEE 56th Vehicular Technology Conference

10. Understanding and reducing Web delays

Slow performance costs e-commerce Web sites as much as $4.35 billion annually in lost revenue. Perceived latency-the amount of time between when a user issues a request and receives a response-is a critical issue. Research into improving performance falls into two categories: work on servers and...

IEEE Xplore | IEEE PERIODICALS | 01-DEC-2001 | Computer

11. FACADE - a framework for context-aware content adaptation and delivery

Modern technology promises mobile users Internet connectivity anytime, anywhere, using any device. However, given the constrained capabilities of mobile devices, the limited bandwidth of wireless networks and the varying personal sphere, effective information access requires the development of new...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2004 | Proceedings. Second Annual Conference on Communication Networks and Services Research, 2004. (Page(s): 46-55)

View More Visualizations

12. Universal WWW access for heterogeneous client devices

With the growth of using World Wide Web (WWW), WWW has become a powerful means of dissemination of information. Thus, the demand for faster, more efficient, and more convenient ways for accessing to WWW are urgently required. Consequently, the heterogeneous I/O client devices, i.e., DTMF telephone...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings 27th EUROMICRO Conference. 2001: A Net Odyssey (Page(s): 315-322)

13. Globally progressive interactive web delivery

This paper suggests that since web browsing is an interactive process and downloading a web page can take several seconds to several minutes over slow links, the information presented to the user during this time is important. We present new metrics and visualization techniques to illustrate and...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | IEEE INFOCOM '99. Conference on Computer Communications. Proceedings. Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies. The Future is Now (Cat. No.99CH36320)

14. Distributing Internet services to the network's edge

In the context of industrial information technology, the Internet and World Wide Web increasingly are seen as a solution to the problem of providing "anywhere, anytime" services. In the classical view of an Internet-enabled IT infrastructure, services are requested and consumed by a user (e.g., a...

IEEE Xplore | IEEE PERIODICALS | 01-JUN-2003 | IEEE Transactions on Industrial Electronics

15. On Web annotations: promises and pitfalls of current Web infrastructure

Annotations are a broadly useful mechanism that can support a number of useful document management applications (third-party commentary, design rationale, information filtering and semantic labelling of document content, to name just a few). The ubiquity of World Wide Web content motivates the needi...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | Proceedings of the 32nd Annual Hawaii International Conference on Systems Sciences. 1999. HICSS-32. Abstracts and CD-ROM of Full Papers

16. Wireless-adaptation of WWW content over CDMA

Information access through the WWW has become one of the most important applications for mobile clients. However, efficient wireless data connectivity is difficult to achieve due to physical and technological limitations. In this paper, we propose a proxy server architecture that facilitates highly...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | 1999 IEEE International Workshop on Mobile Multimedia Communications (MoMuC'99) (Cat. No.99EX384) (Page(s): 368-372)

17. Adapting content for wireless Web services

Motorola Labs' Web-enabled museum system demonstrates how context-aware wireless Web services can adapt their content to a user's dynamic context.

IEEE Xplore | IEEE PERIODICALS | 01-SEP-2003 | IEEE Internet Computing

18. Web page design for HTML (and friends)

In a world where Web pages can be generated automatically what sense does it make to discuss Web page design? Why

can't a technical writer just write a document, "save as HTML" and coordinate with marketing's multimedia expert? The paper examines the presentation triangle as it applies to the First...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1996 | IPCC 96: Communication on the Fast Track. IPCC 96 Proceedings (Page(s): 89-103)

19. **Adapting multimedia Internet content for universal access**

Content delivery over the Internet needs to address both the multimedia nature of the content and the capabilities of the diverse client platforms the content is being delivered to. We present a system that adapts multimedia Web documents to optimally match the capabilities of the client device...

IEEE Xplore | IEEE PERIODICALS | 01-MAR-1999 | IEEE Transactions on Multimedia

20. **Web GIS in practice VIII: HTML5 and the canvas element for interactive online mapping**

HTML5 is being developed as the next major revision of HTML (Hypertext Markup Language), the core markup language of the World Wide Web. It aims at reducing the need for proprietary, plug-in-based rich Internet application (RIA) technologies such as Adobe Flash. The canvas element is part of HTML5...

PMC2838837 | PUBMED CENTRAL | 03-MAR-2010 | International Journal of Health Geographics, 9, 14

21. **Multi-Format Web Content Transcoding for Mobile Devices**

The objective of this work is to allow users of mobile devices to visualize Web sites without mattering if Web sites were designed or not specifically for these types of devices; in that way, it is necessary to adapt Web contents to the limitations of each mobile device. In this paper, Web content...

IEEE Xplore | IEEE CONFERENCES | 01-SEP-2006 | 2006 Seventh Mexican International Conference on Computer Science (Page(s): 109-115)

22. **Caching of large database objects in Web servers**

The popularity of the World Wide Web has been increasing at an exponential rate of late. As such growth was unanticipated, the infrastructure is increasingly experiencing problems. The combination of increased network bandwidth demand and overloaded servers results in increased data retrieval...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | Proceedings Seventh International Workshop on Research Issues in Data Engineering. High Performance Database Management for Large-Scale Applications (Page(s): 10-19)

23. **Device independence and the Web**

Device manufacturers, users, and authors have differing needs and expectations when it comes to Web content. Web software and hardware manufacturers naturally try to differentiate their products by supporting a special combination of capabilities, but few can expect Web authors to create content for...

IEEE Xplore | IEEE PERIODICALS | 01-SEP-2002 | IEEE Internet Computing

24. **Web tools for large-scale 3D biological images and atlases**

Background Large-scale volumetric biomedical image data of three or more dimensions are a significant challenge for distributed browsing and visualisation. Many images now exceed 10GB which for most users is too large to handle in terms of computer RAM and network bandwidth. This is aggravated when...

PMC3412715 | PUBMED CENTRAL | 07-JUN-2012 | BMC Bioinformatics, 13, 122

25. **Web-based distribution of GIS metropolitan maps**

Much research on spatial data retrieval has been accumulated in the past two decades. However, the research of Internet distribution of GIS contents is still in its infancy. This paper describes a systematic approach to optimize Internet distribution of GIS vector maps. The goal is to reduce...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings Fifth International Conference on Information Visualisation (Page(s): 419-424)

26. **WebVideo. A tool for WWW-based teleoperation**

The Internet and the WWW are a ubiquitous network with a media rich interface. WWW browsers display text, graphics, video, audio and data in open and proprietary formats. Forms convey input from the user to the server. Video and form-based feedback in the WWW allow remote control and teleoperation...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1997 | ISIE '97 Proceeding of the IEEE International Symposium on Industrial Electronics

27. **Attenuator: towards preserving the original appearance of large documents when rendered on small screen mobile devices**

Although compact mobile devices are convenient and have many advantages, their small screens can present problems. A significant proportion of HTML documents are optimally designed to look best when rendered on high-resolution

displays of desktop and laptop computers - not small screen mobile...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | 2003 International Conference on Multimedia and Expo. ICME '03. Proceedings (Cat. No.03TH8698)

28. **Mobile web browsing based on content preserving with reduced cost**

Internet has played a drastic change in today's life. Especially, web browsing has become more exclusive in compact devices. This tempts the people to migrate their innovations & skills into an unimaginable world. With these things in mind, it is necessary for us to concentrate more on the...

IEEE Xplore | IEEE CONFERENCES | 01-JUL-2013 | 2013 International Conference on Current Trends in Engineering and Technology (ICCTET) (Page(s): 402-405)

29. **War of the Mobile Browsers**

Wireless applications for mobile Web browsers can enrich user experience beyond the desktop environment. Server-transcoding and client rendering enable the wireless Web, while open platforms give applications developers extensions to expand mobile software's future.

IEEE Xplore | IEEE PERIODICALS | 01-JAN-2009 | IEEE Pervasive Computing

30. **TranSquid: transcoding and caching proxy for heterogenous e-commerce environments**

With the advent of the wireless Internet, the client space has become heterogeneous in terms of device capabilities. To cater to the needs of these devices in e-commerce applications, smart intermediaries have been developed to increase the user satisfaction by hiding the inherent weakness of some...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2002 | Proceedings Twelfth International Workshop on Research Issues in Data Engineering: Engineering E-Commerce/E-Business Systems RIDE-2EC 2002 (Page(s): 50-59)

31. **Online newspaper transcoding for handheld devices proposal for dyslexic people**

User requirements for handheld and mobile devices are increasing day by day and with this the demand for accessing internet on these devices has also increased drastically. Wireless networks have some limitations like bandwidth, display screen size and the battery power available. Working and...

IEEE Xplore | IEEE CONFERENCES | 01-DEC-2013 | 2013 IEEE International Conference in MOOC, Innovation and Technology in Education (MITE) (Page(s): 53-56)

32. **A composable framework for secure multi-modal access to Internet services from post-PC devices**

The post-PC revolution is bringing information access to a wide-range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However existing deployed Internet services are geared toward the secure rich interface...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2000 | Proceedings Third IEEE Workshop on Mobile Computing Systems and Applications (Page(s): 171-182)

33. **Content delivery networks: status and trends**

CDNs improve network performance and offer fast and reliable applications and services by distributing content to cache servers located close to users. The Web's growth has transformed communications and business services such that speed, accuracy, and availability of network-delivered content has...

IEEE Xplore | IEEE PERIODICALS | 01-NOV-2003 | IEEE Internet Computing

34. **Cmew/U-a multimedia Web annotation sharing system**

We describe the design and implementation of a multimedia Web annotation system that enables users to add information to multimedia contents obtained through the World Wide Web. We have developed a highly modular annotation server that stores users' annotations and embeds them into multiple types of...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | Proceedings of IEEE. IEEE Region 10 Conference. TENCON 99. 'Multimedia Technology for Asia-Pacific Information Infrastructure' (Cat. No.99CH37030)

35. **Distributed Information Object Resolution**

The established host-centric networking paradigm is challenged due to handicaps related with disconnected operation, mobility, and broken locator/identifier semantics. This paper soberly examines another topic of great interest: distributed information object resolution. After recapping the notion...

IEEE Xplore | IEEE CONFERENCES | 01-MAR-2009 | 2009 Eighth International Conference on Networks (Page(s): 360-366)

36. **PDA access to Internet content: focus on forms**

Many Web applications in business, personal finances, medicine, sales, and education, are ideal scenarios for the integrated use of different devices, both wired and wireless. From the user's perspective, accessing Web content using multiple devices is not enough, there needs to be continuity of...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | 36th Annual Hawaii International Conference on System Sciences, 2003. Proceedings of the (Page(s): 9 pp.)

37. **An Internet framework to bring coherence between WAP and HTTP ensuring better mobile Internet security**

To bring coherence between wireless access protocol (WAP) and hyper text transfer protocol (HTTP), in this paper, we have proposed an enhanced Internet framework, which incorporates a new markup language and a browser compatible with both of the access control protocols. This markup language and the...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2006 | 2006 8th International Conference Advanced Communication Technology

38. **Web caching and content switching for performance of content delivery**

With the emergence of web 2.0 the web has evolved from informational posting board to rich application platform. Web applications have replaced desktop applications from office productivity to 3d rendering. In this paper we'll present issues that degrade user web experience and increase demand for...

IEEE Xplore | IEEE CONFERENCES | 01-NOV-2015 | 2015 23rd Telecommunications Forum Telfor (TELFOR) (Page(s): 998-1001)

39. **Usage patterns of a Web-based image collection**

This paper presents a study of user access patterns to a large, Web-based, image collection. The images are the entire collection of the Fine Arts Museums of San Francisco, the largest on-line collection of high resolution art images in the world. The images are served using a tile-based solution...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | 16th IEEE Symposium on Mass Storage Systems in cooperation with the 7th NASA Goddard Conference on Mass Storage Systems and Technologies (Cat. No.99CB37098) (Page(s): 203-214)

40. **Developing secure transcoding intermediary for SVG medical images within peer-to-peer ubiquitous environment**

This work is intended to be an objective introduction to the topic of secure image transcoding for ubiquitous P2P environments. The focus of the article is on the "XMLization" (or computer imaging in XML) in general, and SVG in particular. This article develop a framework for achieving such goal...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2005 | 3rd Annual Communication Networks and Services Research Conference (CNSR'05) (Page(s): 151-156)

41. **A markup language and system for heterogeneous I/O devices**

With its growth the WWW has become a powerful and popular means of information dissemination. So does the demand for a faster, more efficient, and more convenient way for accessing the Internet. Thus, even for many non-computer devices, such as the telephone, fax machine, and hand-held devices,...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings 15th International Conference on Information Networking (Page(s): 427-434)

42. **Workflow steps to create a digital master format**

The typical result of an entire digital film production chain are multiple versions of a media file. This constitutes a great challenge in creating and managing for content creators. Especially in post production processes, different versions arise for final distribution of several resolutions,...

IEEE Xplore | IEEE CONFERENCES | 01-SEP-2016 | 2016 IEEE 6th International Conference on Consumer Electronics - Berlin (ICCE-Berlin) (Page(s): 154-158)

43. **Adapting Web content to mobile user agents**

In this article, we describe an adaptation proxy we developed as a part of a Kortti research project at VTT Information Technology that lets mobile users access Web content that's not directly targeted to mobile user agents. More and more content is now available on the Internet, and there's a...

IEEE Xplore | IEEE PERIODICALS | 01-MAR-2005 | IEEE Internet Computing

44. **Towards cross-platform collaboration - Transferring real-time groupware to the browser**

Mobile devices such as smartphones and tablets play an increasing role in today's working environment. The variety of computer platforms increased in the same way, which makes the development of cross-platform applications even more challenging. Tele-Board is a real-time remote collaboration system...

IEEE Xplore | IEEE CONFERENCES | 01-JUN-2013 | Proceedings of the 2013 IEEE 17th International Conference on Computer Supported Cooperative Work in Design (CSCWD) (Page(s): 49-54)

45. **Web caching and prefetching: What, why, and how?**

The demand for Internet content rose dramatically in recent years. Servers became more and more powerful and the bandwidth of end user connections and backbones grew constantly during the last decade. Nevertheless users often experience poor performance when they access web sites or download files....

IEEE Xplore | IEEE CONFERENCES | 01-AUG-2008 | 2008 International Symposium on Information Technology

46. **The art of massive storage: a Web image archive**

Museums can make their entire collections available to the world via the Internet. The Thinker ImageBase, the San Francisco Fine Arts Museums' online art image database, demonstrates issues involved in managing large storage systems and delivering their contents to users.

IEEE Xplore | IEEE PERIODICALS | 01-NOV-2000 | Computer

47. **Mosaic and the World Wide Web**

The World-Wide Web, an information service on the Internet, uses hypertext links to other textual documents or files. Users can click on a highlighted word or words in the text to provide additional information about the selected word(s). Users can also access graphic pictures, images, audio clips,...

IEEE Xplore | IEEE PERIODICALS | 01-OCT-1994 | Computer

48. **A review of network latency optimization techniques**

With the growth of the speed of and access to the Internet, the use of networked or cloud-based applications have grown substantially. Even though there is an increase in the speed of the network, latencies presented to networked applications are often unacceptable and result in lowering user...

IEEE Xplore | IEEE CONFERENCES | 01-AUG-2013 | 2013 IEEE Pacific Rim Conference on Communications, Computers and Signal Processing (PACRIM) (Page(s): 20-25)

49. **Distributed application service for Internet information portal**

As Internet information portals become prevalent for both Internet and Intranet, most existing Internet Application Server architectures are not scalable to support the large amount of personalization, customization and content adaptation required. We propose a framework to capture the information...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2000 | 2000 IEEE International Symposium on Circuits and Systems. Emerging Technologies for the 21st Century. Proceedings (IEEE Cat No.00CH36353)

50. **Click-once hypertext: now you see it, now you don't**

SMASH (Self-Modifying As-Selected Hypertext) is a system for automatically removing text from a Web page as hyperlinks are selected. Making links (and, optionally, other related text) click-once allows a system to avoid clutter and provide visual feedback to a user. Unlike other typical adaptive...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2001 | Proceedings. The Second IEEE Workshop on Internet Applications. WIAPP 2001 (Page(s): 84-93)

Show next: 50 | 100 | 250 | 500 | 1000 Results

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"95119729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/11/13 09:37
L2	2	"8145995".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/11/13 09:38
L3	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 09:39
L4	6	3 & ((hyperlink URL URL (domain with name) (web with resource)) with (function$5 active clickable life))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 09:41
L5	6	4 & (pan$4 zoom$4 enlarg$3 reduc$3 scal$3 shrink$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 09:45
L6	0	4 & ((pan$4 zoom$4 enlarg$3 reduc$3 scal$3 shrink$3) with "in" with "out")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 09:46
L7	6	4 & ((pan$4 zoom$4 enlarg$3 reduc$3 scal$3 shrink$3) with (view$3 display$3 screen window))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 09:47
L8	4	12/941,106 & ((pan$4 zoom$4	US-PGPUB;	OR	OFF	2017/11/13

		enlarg$3 reduc$3 scal$3 shrink$3) with (view$3 display$3 screen window))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			09:58
L9	3056	"20110231746" "20060048051" "20020112082" "9542501" "20090234962" "7688327" "20060235941" "9158745" "20060265476" "6964009" RE45636 "20170116349" "8648858" "6925595" "6857102" "6449639" "6826593" "20130219024" "20020109729" "20020054090" "20020091740" "6353448" "8700699" "20120151408" "6243761" "20130088569" "6185625" "20090144158" "20050080871" "20100228880" "8555324" "6421733" "6275829" "9563929" "20100281042" "9563928" "20050071758" "20020133566" "7174506" "6742043" "20040049598" "6310601" "20050027820" "20100145924" "20120246557" "20010003823" "20020089549" "20020099785" "8806326" "6226642" "20080077857" "8370420" "6615266" "20040177323" "20030061386" "20100114923" "20100180011" "20080195698" "20130132820" "20070226314" "6886013" "7346649" "7454526" "7536446" "20030061299" "20030033606" "6700589" "20090150769" "6163779" "7082476" "8650480" "20020120779"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:10
L10	262277	(G06F17/30905, G06F17/30902, G06F17/30899, G06F17/3089, G06F17/2247, G06Q30/02, H04L/67/02, H04L67/2823).CPC.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:16
L11	2	"20110231746".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:17
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L13	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/11/13 10:17

			IBM_TDB			
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L15	4470575	(pda mobile handheld smartphone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:17
L16	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:17
L17	1197	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:17
L18	425791	((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:17
L19	1197	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:17
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		6161126-$ or US-6249844-$ or US-6266684-$ or US-6311197-$ or US-6363376-$ or US-6393468-$ or US-6675385-$).did. or (US-6859819-$ or US-6864904-$ or US-6957383-$ or US-6981213-$ or US-6988240-$ or US-6993662-$ or US-RE39184-$ or US-7085999-$ or US-7100069-$).did.				
L21	2164234	L12 L13 L14 L15 L16 L17 L18 L19 L20	US-PGPUB; USPAT	OR	OFF	2017/11/13 10:17
L22	2363017	9 10 21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:21
L23	31778	22 & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & ((pan$4 zoom$4 enlarg$3 reduc$3 scal$3 shrink$3) with (view$3 display$3 screen window))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:21
L24	2476	23 & browser & (web with page document) &(browser same (render$4 rerender$3 digest$3 (re adj digest$3) author$3 (re adj author$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:23
L25	500	24 & ((preserv$3 retain$3 maintain$3) with (link$3 active clickable url url))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:24
L26	501	24 & ((preserv$3 retain$3 maintain$3) with (link$3 active clickable url url URl))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:25
L27	462	26 & (scalable rateriz$3 scal$3 (vector with (graphic bitmap)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:26
L28	194	27 & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:26
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			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
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L31	23	30 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:30
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L34	2	12/941,106	USPAT	OR	OFF	2017/11/13 10:34
L35	2	"20110231746".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L36	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
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			DERWENT; IBM_TDB			
L39	6	L38 & ((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
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			FPRS; EPO; JPO; DERWENT; IBM_TDB			
L46	49	(US-20090013245-$ or US-20150066895-$ or US-20040255233-$ or US-20070250783-$ or US-20090119580-$ or US-20100218084-$ or US-20110231746-$ or US-20110231782-$ or US-20110258535-$ or US-20120197971-$ or US-20120215755-$ or US-20090138449-$ or US-20040014013-$ or US-20120150899-$).did. or (US-7487444-$ or US-7461353-$ or US-7533406-$ or US-7721303-$ or US-7831926-$ or US-7844889-$ or US-8145995-$ or US-8341529-$ or US-8386959-$ or US-7505977-$ or US-7882108-$ or US-7437663-$ or US-8291313-$ or US-8527909-$ or US-9223770-$ or US-5845299-$ or US-5956484-$ or US-6035323-$ or US-6101530-$ or US-6161126-$ or US-6249844-$ or US-6266684-$ or US-6311197-$ or US-6363376-$ or US-6393468-$ or US-6675385-$).did. or (US-6859819-$ or US-6864904-$ or US-6957383-$ or US-6981213-$ or US-6988240-$ or US-6993662-$ or US-RE39184-$ or US-7085999-$ or US-7100069-$).did.	US-PGPUB; USPAT	OR	OFF	2017/11/13 10:34
L51	49	(US-20090013245-$ or US-20150066895-$ or US-20040255233-$ or US-20070250783-$ or US-20090119580-$ or US-20100218084-$ or US-20110231746-$ or US-20110231782-$ or US-20110258535-$ or US-20120197971-$ or US-20120215755-$ or US-20090138449-$ or US-20040014013-$ or US-20120150899-$).did. or (US-7487444-$ or US-7461353-$ or US-7533406-$ or US-7721303-$ or US-7831926-$ or US-7844889-$ or US-8145995-$ or US-8341529-$ or US-8386959-$ or US-7505977-$ or US-7882108-$ or US-7437663-$ or US-8291313-$ or US-8527909-$ or US-9223770-$ or US-5845299-$ or US-5956484-$ or US-6035323-$ or US-6101530-$ or US-6161126-$ or US-6249844-$ or US-6266684-$ or US-6311197-$ or US-6363376-$ or US-6393468-$ or US-6675385-$).did. or (US-6859819-$ or US-6864904-$ or US-6957383-$ or US-6981213-$ or US-6988240-$ or US-6993662-$ or US-RE39184-$ or US-7085999-$ or US-7100069-$).did.	US-PGPUB; USPAT	OR	OFF	2017/11/13 10:34
L52	4683	"20070288841" "7831926" "20090119580" "20110231782" "20080028335" "8386959" "7461353" "20070288855" "20070198917" "20070198916" "7844889"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/11/13 10:34

		"20050131887" "7210099" "20050132286" "20020091738" "7823083" "8145995" "7584423" "20060048051" "20020112082" "7343555" "20120194519" "20090234962" "8001257" "7539766" "7688327" "20070263007" "7216177" "20060235941" "9158745" "8495242" "8656046" "20090089422" "8381110" "20130138774" "20160036889" "20100153495" "6964009" "20060265476" "20020078093" "20090070485" "6792575" "7864186" "20100194753" RE45636 "6657647" "20150310126" "8169628" "7672002" "6457030" "6857102" "8648858" "20130219024" "6925595" "6449639" "6826593" "7243122" "20050065999" "20090164620" "6874131" "20090144439" "20030110234" "7667862" "20020194302" "20020109729" "20040239681" "20060085529" "7242406" "20020015042" "6704024" "7143347" "20020199190" RE41440 "6353448" "20020091740" "7216149" "20100306696" "20120151408" "20130088569" "6243761" "6185625" "8700699" "20100228880" "20090144158" "20050080871" "8555324" "8156248" "20040133848" "20020033837" "20110191812" "20100281042" "6275829" "20050071758" "6421733" "7747782" "20060031404" "20020054090" "20100268773" "20040049598" "7174506" "20020133566" "6310601" "20050027820" "7533144" "6742043" "20100145924" "6226642" "20120246557" "20020089549" "8806326" "20010003823" "20020099785" "6615266" "8370420" "6785707" "20080077857" "20100180011" "6886013" "20130132820" "20030061386" "20100114923" "20040177323" "20070226314" "20080195698" "6880014" "20020123334" "20100306643" "20140310338" "20080301578" "6311197" "7346649" "20120143909" "20030061299" "7454526" "7536446" "20030033606" "20150169509" "6944665" "20120265802" "6163779" "20060031759" "20090150769" "20030061309" "8650480" "6700589" "6708309" "20020120779" "8769114" "20040049737" "6886034" "20050144256" "7010581" "9135341" "20150120821" "7082476" "20140115020" "7281260" "20030061317" "20070233898" "20040158584" "7613810" "20040003117" "7062547"	DERWENT; IBM_TDB					

		"20150341459" "8166198" "20040205546" "8667387"				
L53	88	(L52 or L51) & (browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L54	11	L53 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L55	88	(L52 or L51) & (browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L56	56	L52 & (browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near (page document)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L57	10	L56 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L61	1197	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L64	6	(US-20110231746-$).did. or (US-8386959-$ or US-7461353-$ or US-7823083-$ or US-7831926-$ or US-7844889-$).did.	US-PGPUB; USPAT	OR	ON	2017/11/13 10:34
L65	1197	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L66	2	"8386959".pn.	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/11/13 10:34

			EPO; JPO; DERWENT; IBM_TDB			
L67	1	L66 & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L68	0	L67 & ((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L69	4683	"20070288841" "7831926" "20090119580" "20110231782" "20080028335" "8386959" "7461353" "20070288855" "20070198917" "20070198916" "7844889" "20050131887" "7210099" "20050132286" "20020091738" "7823083" "8145995" "7584423" "20060048051" "20020112082" "7343555" "20120194519" "20090234962" "8001257" "7539766" "7688327" "20070263007" "7216177" "20060235941" "9158745" "8495242" "8656046" "20090089422" "8381110" "20130138774" "20160036889" "20100153495" "6964009" "20060265476" "20020078093" "20090070485" "6792575" "7864186" "20100194753" RE45636 "6657647" "20150310126" "8169628" "7672002" "6457030" "6857102" "8648858" "20130219024" "6925595" "6449639" "6826593" "7243122" "20050065999" "20090164620" "6874131" "20090144439" "20030110234" "7667862" "20020194302" "20020109729" "20040239681" "20060085529" "7242406" "20020015042" "6704024" "7143347" "20020199190" RE41440 "6353448" "20020091740" "7216149" "20100306696" "20120151408" "20130088569" "6243761" "6185625" "8700699" "20100228880" "20090144158" "20050080871" "8555324" "8156248" "20040133848" "20020033837" "20110191812" "20100281042" "6275829" "20050071758" "6421733" "7747782" "20060031404" "20020054090" "20100268773" "20040049598" "7174506" "20020133566" "6310601" "20050027820" "7533144" "6742043" "20100145924" "6226642" "20120246557" "20020089549" "8806326" "20010003823"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34

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L70	49	(US-20090013245-$ or US-20150066895-$ or US-20040255233-$ or US-20070250783-$ or US-20090119580-$ or US-20100218084-$ or US-20110231746-$ or US-20110231782-$ or US-20110258535-$ or US-20120197971-$ or US-20120215755-$ or US-20090138449-$ or US-20040014013-$ or US-20120150899-$).did. or (US-7487444-$ or US-7461353-$ or US-7533406-$ or US-7721303-$ or US-7831926-$ or US-7844889-$ or US-8145995-$ or US-8341529-$ or US-8386959-$ or US-7505977-$ or US-7882108-$ or US-7437663-$ or US-8291313-$ or US-8527909-$ or US-9223770-$ or US-5845299-$ or US-5956484-$ or US-6035323-$ or US-6101530-$ or US-6161126-$ or US-6249844-$ or US-6266684-$ or US-6311197-$ or US-6363376-$ or US-6393468-$ or US-6675385-$).did. or (US-6859819-$ or US-6864904-$ or US-6957383-$ or US-6981213-$ or US-6988240-$ or US-6993662-$ or US-RE39184-$ or US-7085999-$ or US-7100069-$).did.	US-PGPUB; USPAT	OR	OFF	2017/11/13 10:34
L71	16743	715/800-825.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L72	20	(browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2017/11/13 10:34

		tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3)) & ((various plurality many different (in near4 out) toggl$3) same (zoom$3 enlarg$3 pan$4)) & ((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	EPO; JPO; DERWENT; IBM_TDB			
L75	56	L52 & (browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near (page document)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L76	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L77	1197	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L78	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L79	425791	((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L80	20	(browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3)) & ((various plurality many different (in near4 out) toggl$3) same (zoom$3 enlarg$3 pan$4)) &	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34

		((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))				
L81	0	L80 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L82	58	L52 & (browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L83	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L84	1197	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L85	22	L83 & L84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L86	6	L85 & ((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L87	6	L86 & (CSS (cascad$3 near4 style near4 sheet))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L88	22	L83 & L84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34

L89	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L90	2	"8386959".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L91	0	"008386959".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L92	1	L66 & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L11 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L93	22	L83 & L84	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L94	6	L85 & ((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L97	2	"20110231746".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L98	4683	"20070288841" "7831926" "20090119580" "20110231782" "20080028335" "8386959" "7461353" "20070288855" "20070198917" "20070198916" "7844889" "20050131887" "7210099" "20050132286" "20020091738" "7823083" "8145995" "7584423" "20060048051" "20020112082" "7343555" "20120194519" "20090234962" "8001257" "7539766" "7688327" "20070263007" "7216177" "20060235941" "9158745" "8495242"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34

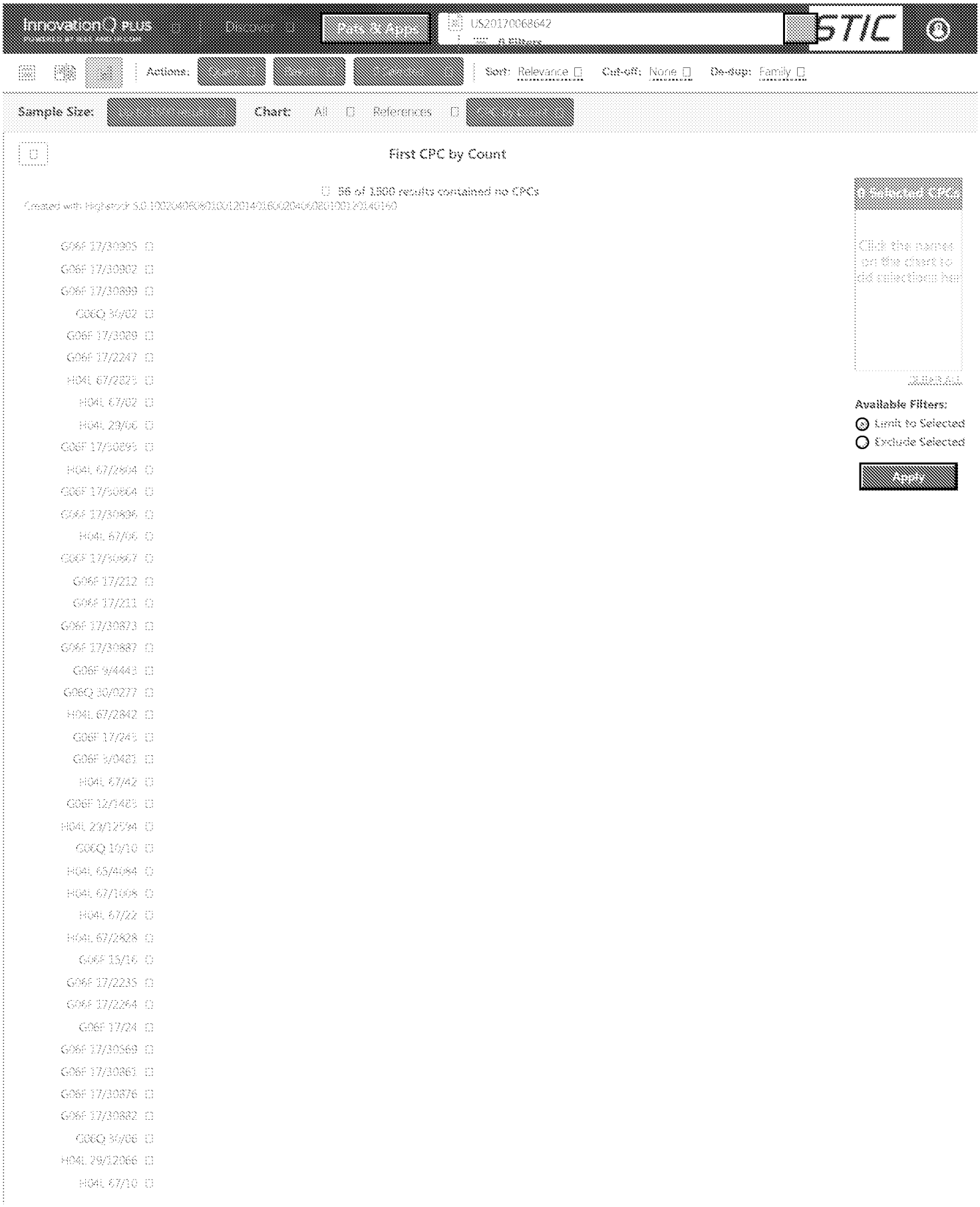
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L99	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2017/11/13 10:34

			IBM_TDB			
L100	16743	715/800-825.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L101	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L102	1197	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L97 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
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		"20050132286" "20020091738" "7823083" "8145995" "7584423" "20060048051" "20020112082" "7343555" "20120194519" "20090234962" "8001257" "7539766" "7688327" "20070263007" "7216177" "20060235941" "9158745" "8495242" "8656046" "20090089422" "8381110" "20130138774" "20160036889" "20100153495" "6964009" "20060265476" "20020078093" "20090070485" "6792575" "7864186" "20100194753" RE45636 "6657647" "20150310126" "8169628" "7672002" "6457030" "6857102" "8648858" "20130219024" "6925595" "6449639" "6826593" "7243122" "20050065999" "20090164620" "6874131" "20090144439" "20030110234" "7667862" "20020194302" "20020109729" "20040239681" "20060085529" "7242406" "20020015042" "6704024" "7143347" "20020199190" RE41440 "6353448" "20020091740" "7216149" "20100306696" "20120151408" "20130088569" "6243761" "6185625" "8700699" "20100228880" "20090144158" "20050080871" "8555324" "8156248" "20040133848" "20020033837" "20110191812" "20100281042" "6275829" "20050071758" "6421733" "7747782" "20060031404" "20020054090" "20100268773" "20040049598" "7174506" "20020133566" "6310601" "20050027820" "7533144" "6742043" "20100145924" "6226642" "20120246557" "20020089549" "8806326" "20010003823" "20020099785" "6615266" "8370420" "6785707" "20080077857" "20100180011" "6886013" "20130132820" "20030061386" "20100114923" "20040177323" "20070226314" "20080195698" "6880014" "20020123334" "20100306643" "20140310338" "20080301578" "6311197" "7346649" "20120143909" "20030061299" "7454526" "7536446" "20030033606" "20150169509" "6944665" "20120265802" "6163779" "20060031759" "20090150769" "20030061309" "8650480" "6700589" "6708309" "20020120779" "8769114" "20040049737" "6886034" "20050144256" "7010581" "9135341" "20150120821" "7082476" "20140115020" "7281260" "20030061317" "20070233898" "20040158584" "7613810" "20040003117" "7062547" "20150341459" "8166198"	IBM_TDB				

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L108	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/13 10:34
L109	49	(US-20090013245-$ or US-20150066895-$ or US-20040255233-$ or US-20070250783-$ or US-20090119580-$ or US-20100218084-$ or US-20110231746-$ or US-20110231782-$ or US-20110258535-$ or US-20120197971-$ or US-20120215755-$ or US-20090138449-$ or US-20040014013-$ or US-20120150899-$).did. or (US-7487444-$ or US-7461353-$ or US-7533406-$ or US-7721303-$ or US-7831926-$ or US-7844889-$ or US-8145995-$ or US-8341529-$ or US-8386959-$ or US-7505977-$ or US-7882108-$ or US-7437663-$ or US-8291313-$ or US-8527909-$ or US-9223770-$ or US-5845299-$ or US-5956484-$ or US-6035323-$ or US-6101530-$ or US-6161126-$ or US-6249844-$ or US-6266684-$ or US-6311197-$ or US-6363376-$ or US-6393468-$ or US-6675385-$).did. or (US-6859819-$ or US-6864904-$ or US-6957383-$ or US-6981213-$ or US-6988240-$ or US-6993662-$ or US-RE39184-$ or US-7085999-$ or US-7100069-$).did.	US-PGPUB; USPAT	OR	OFF	2017/11/13 10:34
L112	7	(US-20110231746-$).did. or (US-8386959-$ or US-7461353-$ or US-7823083-$ or US-7831926-$ or US-7844889-$ or US-8145995-$).did.	US-PGPUB; USPAT	OR	ON	2017/11/13 10:52

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15/356,456	11/18/2016	715	2177	61539-0002(P001XC3

APPLICANTS
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INVENTORS
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Scott A. Sherman, Seattle, WA;

**** CONTINUING DATA ***************************
This application is a CON of 12/941,106 11/08/2010 PAT 9519729
which is a CON of 11/738,486 04/21/2007 PAT 7831926
which is a CON of 09/878,097 06/08/2001 PAT 7210099
which is a CIP of 09/828,511 04/07/2001 ABN
and claims benefit of 60/217,345 07/11/2000
and claims benefit of 60/211,019 06/12/2000

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

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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	1	1

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840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660
UNITED STATES

TITLE
SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

FILING FEE RECEIVED		
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BIB (Rev. 05/07).

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15356456	ROHRABAUGH ET AL.
	Examiner	**Art Unit**
	QUOC A TRAN	2177

✓	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	11/13/2017								
	1	✓								
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15356456	ROHRABAUGH ET AL.
	Examiner	Art Unit
	QUOC A TRAN	2177

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 17/30905; 17/30900; 17/30899; 17/3089 & 17/2247	11/13/2017	QT
G06Q 30/02 & H04L 67/02; 67/2823	11/13/2017	QT

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (USPAT, USPGPUB, JPO, USOCR, FPRS, EPO, DERWENT & IBM_TDB)	11/13/2017	QT
NPL Searched (IP.COM Digital Library)	11/13/2017	QT
Inventors Searched Conducted- Considered Double Patent Rejection	11/13/2017	QT
Text Searched CPC G06F 17/30905; 17/30900; 17/30899; 17/3089 & 17/2247	11/13/2017	QT
Text Searched CPC G06Q 30/02 & H04L 67/02; 67/2823	11/13/2017	QT

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/QUOC A TRAN/ Primary Examiner.Art Unit 2177

Actions: | Sort: Relevance | Cut-off: None | De-dup: Family

1 50 About 22.9M results

1. **Scalable display of internet content on mobile devices**

Mobile devices enabled to support resolution-independent scalable display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing on smaller screen sizes. The mobile devices employ software-based processing of original Web content, including HTML-based...

CURRENT ASSIGNEES: SOFTVIEW LLC
US20110231746 | US APPLICATIONS | 22-SEP-2011

2. **Method for rendering formatted content on a mobile device**

A method for transmitting formatted content to a mobile device having a small display screen comprises retrieving a page of formatted content, rendering the page as a graphic such as a JPEG that is sized for display on the small display screen, and transmitting the graphic to the requesting device...

CURRENT ASSIGNEES: BLACKBERRY LTD
US20060048051 | US APPLICATIONS | 02-MAR-2006

3. **Method for rendering formatted content on a mobile device**

CURRENT ASSIGNEES: BLACKBERRY LTD
EP1630689B1 | EUROPEAN PATENTS | 07-NOV-2007

4. **Method for rendering formatted content on a mobile device**

A method for transmitting formatted content to a mobile device having a small display screen comprises retrieving a page of formatted content, rendering the page as a graphic such as a JPEG that is sized for display on the small display screen, and transmitting the graphic to the requesting device...

CURRENT ASSIGNEES: BLACKBERRY LTD
CA2516906C | CANADIAN PATENTS | 24-NOV-2009

5. **System and method for delivery of documents over a computer network**

A system and method for delivering a document by a first computer to a second computer over a computer network. A method of the present invention includes the following steps: (1) decomposing the document into nodes in accordance with a document model of the document; (2) associating the nodes with...

CURRENT ASSIGNEES: SYMANTEC CORP
US20020112082 | US APPLICATIONS | 15-AUG-2002

6. **System and method for presenting content in a client/server environment**

Viewing of web pages is improved by prioritizing image rendering based on positioning of images within a web page. For example, for images that are likely to be initially viewable upon presentation of the web page (i.e., prior to scrolling), compressed proxy versions are made available so that the...

CURRENT ASSIGNEES: RADWARE CANADA HLDG INC
US9542501 | US PATENTS | 10-JAN-2017

7. **System and method for transferring web page data**

A system and method are disclosed which may include accessing an Internet site by a proxy server, converting image data from the Internet site into a multiresolution representation, and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT CORP
WO2006105158A2 | WIPO APPLICATIONS | 05-OCT-2006

8. **Supplying Electronic Content to Networked Appliances**

A system and method communicates data from a web content provider to a wireless computing device (e.g., a PDA, a cellular phone) via a proxy server. The proxy server transforms web content "on-the-fly" into a streamlined format, optimizes it for display, and delivers it to the device, where it is...

CURRENT ASSIGNEES: QUALCOMM INC
US20090234962 | US APPLICATIONS | 17-SEP-2009

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MICROSOFT CORP (7)
QUALCOMM INC (6)
CALLAHAN CELLULAR LLC (3)
マイクロソフト コーポ レ... (4)

9. **Visual content browsing with zoom and pan features**

The present invention relates to display of visual content on a client device using server-side rasterization of visual content. Visual content is rendered on a server system, transformed into bitmaps compatible with the display attributes of a client device, and transmitted for display on the...

CURRENT ASSIGNEES: CALLAHAN CELLULAR LLC
US7688327 | US PATENTS | 30-MAR-2010

10. **System and method for transferring web page data**

The system and method may include the method comprising: accessing an Internet site through the proxy server, and converting it into a multiresolution representation of the image data from the Internet site, and transmitting to the client device a plurality of image data resolution representation...

CURRENT ASSIGNEES: マイクロソフト コーポレーション
JP2008535098A | JAPANESE APPLICATIONS | 28-AUG-2008

11. **System and method for transferring web page data**

A system and method are disclosed which may include accessing an Internet site by a proxy server; converting image data from the Internet site into a multiresolution representation; and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US20060235941 | US APPLICATIONS | 19-OCT-2006

12. **Optimization of media content using generated intermediate media content**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US9158745 | US PATENTS | 13-OCT-2015

13. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: ROCKY OFFNER NELSON H [+4]
US20060265476 | US APPLICATIONS | 23-NOV-2006

14. **Automated media delivery system**

An automatic graphics delivery system that operates in parallel with an existing Web site infrastructure is provided. The system streamlines the post-production process by automating the production of media through content generation procedures controlled by proprietary tags placed by an author...

CURRENT ASSIGNEES: AUTOMATED MEDIA PROCESSING SOLUTIONS INC
US6964009 | US PATENTS | 08-NOV-2005

15. **Method and system for streaming images to wireless devices**

CURRENT ASSIGNEES: BARTAMVA DRIO DATA LLC
EP1800491B1 | EUROPEAN PATENTS | 19-MAR-2014

16. **System, method, and computer program component for changing web content to be displayed by general computing device**

(57) and that to facilitate the display of the web content due to the spread computing device that might be compared [summary] and [challenge] desktop computing device has a performance limit and various smaller display. For comparison with the [SOLUTION] desktop computing device, and displays the...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
JP2000222276A | JAPANESE APPLICATIONS | 11-AUG-2000

17. **Controlling the order in which content is displayed in a browser**

A main document and referenced frame documents to be rendered by a browser for a display page are parsed by the browser to identify where text and graphics objected are to be located. The location of a cursor that is used by the user to interact with the browser is tracked, and the object nearest to...

CURRENT ASSIGNEES: INTELLECTUAL VENTURES I LLC
USRE45636 | US PATENTS | 28-JUL-2015

View More Visualizations

18. **Creation and delivery of pre-rendered web pages for accelerated browsing**

The process of rendering web pages can be significantly improved with a content delivery system that pre-renders web content for a client device. A web page "program" can be pre-executed and the result delivered to a requesting client device, rather than or before sending a traditional set of web...

CURRENT ASSIGNEES: AKAMAI TECH INC
US20170116349 | US APPLICATIONS | 27-APR-2017

19. **A method and apparatus for reformatting of content for display on interactive television**

CURRENT ASSIGNEES: OPENTV INC
EP1356668081 | EUROPEAN PATENTS | 22-MAY-2013

20. **Hybrid text and image based encoding**

A configuration for encoding and decoding the data is disclosed herein. A server retrieves webpage content to filter and extract text and image data. The text data is encoded using a lossless encoder, whereas the image data is downsampled to a lower resolution and encoded using a lossy encoder. The...

CURRENT ASSIGNEES: PERFORMANCE & PRIVACY IRELAND LTD
US8648858 | US PATENTS | 11-FEB-2014

21. **Multiple graphics image viewer**

A method, apparatus, and system in which a multiple-image viewer (102) concurrently displays and manipulates multiple images within a single window in a network system (108). The multiple-image viewer (102) is displayed on a client computer (104), which in turn communicates with an image database...

CURRENT ASSIGNEES: PICSURF INC
WO2001052034A1 | WIPO APPLICATIONS | 19-JUL-2001

22. **Method and system for content conversion of hypertext data using data mining**

Method and system for content conversion of electronic data using data mining. A user is able select one or more hypertext elements from one or more hypertext electronic document for conversion based on user conversion preferences. For example, a user selects one or more display elements from one or...

CURRENT ASSIGNEES: OPENTV INC
US6925595 | US PATENTS | 02-AUG-2005

23. **Document re-authoring systems and methods for providing device-independent access to the world wide web**

An automatic re-authoring system and method re-author a document originally designed for display on a desktop computer screen for display on a smaller display screen, such as those used with a PDA or a cellular telephone. The automatic re-authoring system and method input a document to be...

CURRENT ASSIGNEES: FUJI XEROX CO LTD [+1]
US6857102 | US PATENTS | 15-FEB-2005

24. **Method and system for client-less viewing of scalable documents displayed using internet imaging protocol commands**

A method and system for viewing a document containing at least one page and at least one image, the document being located on a server computer, including sending by a client computer a page display request to the server computer creating by the server computer a layout page containing a reference...

CURRENT ASSIGNEES: CANON INC [+1]
US6449639 | US PATENTS | 10-SEP-2002

25. **Computer implemented method and apparatus for fulfilling a request for information content with a user-selectable version of a file containing that information content**

A method of fulfilling a request for information content with a user-selectable version of a file containing that information content. Selection of a hyperlink to information content results in generation of a menu of versions of files containing that information content. The menu displays options...

CURRENT ASSIGNEES: ALCATEL LUCENT USA INC
US6826593 | US PATENTS | 30-NOV-2004

26. **System and methodology for delivering media to multiple disparate client devices based on their capabilities**

An online media delivery system incorporating combining on-the-fly media reformatting with advanced client detection capabilities enabling delivery of appropriate media content to connected client devices is described. The system receives

requests from client devices for media documents or objects,...

CURRENT ASSIGNEES: LIGHTSURF TECH INC
EP1451662A2 | EUROPEAN APPLICATIONS | 01-SEP-2004

27. **Methods and apparatus for accelerating content authored for multiple devices**

Disclosed herein are systems, methods, and apparatus for improving the delivery of web content that has been authored for multiple devices. In certain embodiments, an intermediary device such as a proxy server determines the characteristics of a client device requesting multi-device content, obtains...

CURRENT ASSIGNEES: AKAMAI TECH INC
US20130219024 | US APPLICATIONS | 22-AUG-2013

28. **Conversion process for document data that is communicated over the Internet uses data base of conversion preferences**

The invention relates to a method and a system for the contents of various design of electronic documents, the one or more conversion preferences use. Original electronic documents in a standard format (for example, svga, 800 × 600 pixels - and / or image points resolution, 256 colors) are converted...

CURRENT ASSIGNEES: SPYGLASS INC
DE19936314A1 | GERMAN APPLICATIONS | 17-FEB-2000

29. **Integrating content with virtual advertisements using vector graphics images obtainable on the web**

A system and method for virtual advertising on the web are disclosed. According to this system and method, scalable vector graphic (SVG) images representing advertising content may be inserted into web pages so that they are unobtrusively superimposed over other SVG images on the page. This...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20020109729 | US APPLICATIONS | 15-AUG-2002

30. **Gathering enriched web server activity data of cached web content**

According to the present invention, there is provided a method and system for collecting activity data rich web server in a global communication network, the requested file information are cached in a plurality of network devices. As the Web over the Internet caching is widespread, the origin web...

CURRENT ASSIGNEES:
KR100612711B1 | KOREAN PATENTS | 18-AUG-2006

31. **Method and apparatus for creating and providing personalized access to web content and services from terminals having diverse capabilities**

A personalized Web view of content in a Web page is created for later access by users through diverse terminals having different types of processing and display capabilities. The Web view provides a shortcut to specific content and services, which a user is interested in retrieving through limited...

CURRENT ASSIGNEES: ALCATEL LUCENT USA INC
US20020054090 | US APPLICATIONS | 09-MAY-2002

32. **Method of adapting a page in a markup language**

A method and system of adapting a WWW page in a markup language alters how it is displayed, for example modification of text font, colour or size. The method identifies at least one boundary of an area of content within the page and then converts the display characteristics of the content, whilst...

CURRENT ASSIGNEES: MARTIN SABRY [+1]
GB2442248A | GREAT BRITAIN APPLICATIONS | 02-APR-2008

33. **Electronic publishing method and system**

A method of electronically publishing. Information is received. The information is transformed into an MVR document. The MVR document is stored on a document server. The MVR document is sent to a recipient.

CURRENT ASSIGNEES: MULTIVIEW INC
US20020091740 | US APPLICATIONS | 11-JUL-2002

34. **Graphic user interface display method**

A method of displaying graphic user interface layouts including the steps of accessing a data repository storing an instruction set for constructing a graphic user interface layout through a network connection, rendering the graphic user interface layout associated with the instruction set and...

CURRENT ASSIGNEES: EZ ONLINE NETWORK INC

US6353448 | US PATENTS | 05-MAR-2002

35. **Using a proxy server for a mobile browser**

Techniques describe providing a web page for a proxy-based browser on a mobile device to enhance user experience. A proxy server receives a layout of the web page, extracts web elements from the web page, and captures images of the web elements of the web page. The web elements are incorporated with...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US8700699 | US PATENTS | 15-APR-2014

36. **Dynamic network browser**

A system and method of browsing digital content, and is related to companion applications filed simultaneously, all of which are part and parcel of a method for browsing digital content and composing digital media and data, via dynamic interaction of tiled images, external video, audio, text, and...

CURRENT ASSIGNEES: LILA APS AHEAD
US20120151408 | US APPLICATIONS | 14-JUN-2012

37. **Method for dynamically adjusting multimedia content of a web page by a server in accordance to network path characteristics between client and server**

A computer implemented method adjusts a Web page including multimedia content according to the effective bandwidth and/or latency monitored on a network path connecting a server computer storing the Web page, and a client computer requesting the Web page. In response to receiving a request for the...

CURRENT ASSIGNEES: HEWLETT PACKARD DEV CO LP
US6243761 | US PATENTS | 05-JUN-2001

38. **Apparatuses, methods and systems for provision of 3d content over a communication network**

The APPARATUSES, METHODS AND SYSTEMS FOR PROVISION OF 3D CONTENT OVER A COMMUNICATION NETWORK ("3D-WCP") implement on-demand client-independent network streaming of three-dimensional ("3D") media content. In one embodiment, a 3D media streaming processor-implemented method is disclosed, comprising:...

CURRENT ASSIGNEES: GLOBAL DEV HLDG LTD
US20130088569 | US APPLICATIONS | 11-APR-2013

39. **Method for dynamically transcoding data transmitted between computers**

CURRENT ASSIGNEES: INTEL CORP
EP1701508B1 | EUROPEAN PATENTS | 14-SEP-2016

40. **Scaling proxy server sending to the client a graphical user interface for establishing object encoding preferences after receiving the client's request for the object**

A system for enhancing data access over a communications link is disclosed. In accordance with a particular embodiment, a system for retrieving an object over a computer network includes a network client with a browser for rendering an object to a user and a user interface enabling the user to...

CURRENT ASSIGNEES: INTEL CORP
US6185625 | US PATENTS | 06-FEB-2001

41. **System And Method For Enabling Viewing Of Documents Not In HTML Format**

A system and method for enabling viewing of non-HTML content. A content provider receives a request to view non-HTML content from a user and forwards JavaScript code to the user. The content provider sends the non-HTML content over a network to a document hosting service. The document hosting...

CURRENT ASSIGNEES: YUZIT LLC
US20090144158 | US APPLICATIONS | 04-JUN-2009

42. **Image distribution for dynamic server pages**

Methods, systems, and products for distributing images in a data processing system, including receiving a request for a dynamic server page having a multiplicity of associated images, each image having a storage location identified in the dynamic server page by an image resource locator; inserting...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20050080871 | US APPLICATIONS | 14-APR-2005

43. **System and Method for Providing and Displaying Information Content**

A system and method is provided for enabling an electronic device to efficiently access information content. A server

browser accesses the information content over a network. The accessed information content is retrieved and adapted for presentation for the electronic device. A serializer...

CURRENT ASSIGNEES: NOKIA CORP
US20100228880 | US APPLICATIONS | 09-SEP-2010

44. **Video download mechanism for transferring large data**

A content delivery system stores large content as frames of video that can be served by content servers already optimized for streaming video. Instead of storing image tiles in separate files, the system treats each tile as a frame of a video and stores the tiles in a video format. This allows...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US8555324 | US PATENTS | 08-OCT-2013

45. **System for dynamically transcoding data transmitted between computers**

A system for dynamically transcoding data transmitted between computers is implemented in an apparatus for use in transmitting data between a network server and a network client over a communications link. The apparatus includes a parser coupled to a transcode service provider. The parser is...

CURRENT ASSIGNEES: INTEL CORP
US6421738 | US PATENTS | 16-JUL-2002

46. **Representing a graphic image on a web page with a thumbnail-sized image**

An original (full size) image is automatically represented by a thumbnail (reduced size) image on a Web page. A user selects the original image that will be represented by the thumbnail image. The thumbnail image is produced and placed into a Web page that is being created or edited. While viewing...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US6275829 | US PATENTS | 14-AUG-2001

47. **Caching of content page layers**

Server systems are disclosed that receive content request and respond with hardware-independent graphics commands instead of, or in addition to, unprocessed content items. Some server systems may act as intermediaries between user devices and content sources. The server systems can obtain content...

CURRENT ASSIGNEES: AMAZON TECH INC
US9563929 | US PATENTS | 07-FEB-2017

48. **Method and System for Transforming and Delivering Video File Content for Mobile Devices**

A method and system for accessing video file content is provided. When a user encounters a web page with video content, the user can select to view the video content and wait for the server to transcode the video file and to stream the transcoded video file to the user's client device....

CURRENT ASSIGNEES: NOKIA CORP
US20100281042 | US APPLICATIONS | 04-NOV-2010

49. **Method of providing a web page with inserted content**

Methods and systems are provided for filtering content into a web page and provided the modified web page to a web browser (801). A request for a web page is intercepted and redirected to a web page processing agent (811), which fetches the requested web content. New web page is generated that...

CURRENT ASSIGNEES: MOBILAPS LLC
EP1815347A2 | EUROPEAN APPLICATIONS | 08-AUG-2007

50. **Bandwidth reduction through delivery of hardware-independent graphics commands for portions of content pages**

Server systems are disclosed that receive content request and respond with hardware-independent graphics commands instead of, or in addition to, unprocessed content items. Some server systems may act as intermediaries between user devices and content sources. The server systems can obtain content...

CURRENT ASSIGNEES: AMAZON TECH INC
US9563928 | US PATENTS | 07-FEB-2017

Show next: 50 | 100 | 250 | 500 | 1000 Results

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/356,456	Filing Date 11/18/2016	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	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 $310 ($155 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	

APPLICATION AS AMENDED – PART II

AMENDMENT **03/16/2018**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 35	Minus	** 20	= 15	X $100 =	1500
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $460 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	**1500**

AMENDMENT

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

LIE
ELMIRA Y. HALL

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Gary B. Rohrabaugh *et al.* Application No.: 15/356,456 Filing Date: November 18, 2016 For: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	Examiner: Quoc A. Tran Art Unit: 2177

AMENDMENT AND RESPONSE

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

Sir:

The Applicant submits this Amendment and Response to the Office Action dated November 16, 2017 in the above-referenced application.

Amendment to the Specification begins on page 2 of this paper;

Amendments to the Claims begins on page 3 of this paper; and,

Remarks begin on page 12 of this paper.

AMENDMENT TO THE SPECIFICATION

Please replace paragraph [0001] as follows:

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application is a Continuation of U.S. Non-provisional Application No. 12/941,106, filed November 8, 2010, entitled "SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES", Patent No. 9,519,729,which is a Continuation of U.S. Non-provisional Application No. 11/738,486, filed April 21, 2007, (~~to be~~ issued as U.S. 7,831,926) entitled "SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES," which 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. 09/828,511, filed April 7, 2001, (Abandoned) entitled "RESOLUTION INDEPENDENT VECTOR DISPLAY OF INTERNET CONTENT," the benefit of the filing dates of which is claimed under 35 U.S.C. § 120. 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.

CLAIMS

Claims 2-12 were previously canceled without prejudice or disclaimer.

Please cancel claim 1 without prejudice or disclaimer.

Please add new claims 13-47 as follows:

1-12. (Canceled)

13. (New) A mobile hand-held device, comprising:

a processor;

a wireless communications device, to facilitate wireless communication with a network that supports access to the Internet;

a touch-sensitive display; and

flash memory, operatively coupled to the processor, in which a plurality of instructions are stored comprising a plurality of software components including an HTML rendering engine, wherein the instructions are configured to be executed by the processor to enable the mobile hand-held device to,

receive an HTML document including HTML code and cascading style sheet (CSS) code and content associated with the HTML document, the HTML code comprising a plurality of HTML elements including at least one HTML paragraph element, at least one HTML image element, and at least one HTML hyperlink element;

process the HTML document with the HTML rendering engine to render a first representation of the HTML document having an interpreted page layout, functionality, and design of the content associated with the HTML document that is in accordance with the HTML code and CSS code, wherein rendering the first representation of the HTML document includes,

parse the HTML document to identify the plurality of HTML elements;

logically group content associated with HTML elements into HTML objects;

generate page layout information including a bounding box for each HTML object; and

store information that links each HTML object with its corresponding page layout information,

wherein the page layout information further includes information from which a page layout location of each of the bounding boxes can be determined;

translate the first representation of the HTML document to generate a scalable vector representation of the HTML document; and

render the scalable vector representation of the HTML document on the touch-sensitive display using a first scale factor to display the HTML document at a first zoom level under which the HTML document is displayed to fit across a width of the touch-sensitive display,

wherein the scalable vector representation of the HTML document is configured to enable a user to view the HTML document at one or more user-defined zoom levels by rendering the scalable vector representation on the touch-sensitive display using one or more respective scale factors in response to associated user inputs made via the touch-sensitive display, and wherein the interpreted page layout, functionality, and design of the content associated with the HTML document is preserved at each of the first zoom level and the one or more user-defined zoom levels.

14. (New) The mobile hand-held device of claim 13, wherein execution of the instructions performs further enables the device to:

define a primary datum corresponding to the interpreted page layout; and,

for each HTML object,

define an object datum corresponding to a layout location datum for the HTML object's bounding box;

generate a vector from the primary datum to the object datum for the HTML object's bounding box; and

create a reference that links the HTML object to the vector that is generated.

15. (New) The mobile hand-held device of claim 13, wherein the mobile hand-held device is a mobile phone.

16. (New) The mobile hand-held device of claim 13, wherein the mobile hand-held device is a hand-held computer.

17. (New) The mobile hand-held device of claim 13, wherein execution of the instructions further enables the user to zoom in on a user-selectable portion of a view of the HTML document in response to a user interface input made via the touch-sensitive display.

18. (New) The mobile hand-held device of claim 13, wherein the views of the HTML document are rendered in real-time to effect zooming operations.

19. (New) The mobile hand-held device of claim 18, wherein the zooming operations are effected in a fraction of a second.

20. (New) The mobile hand-held device of claim 13, wherein execution of the instructions performs further enables the device to:

generate a vector-based display list associated with the scalable vector representation; and

employ the vector-based display list to render views of the HTML document on the touch-sensitive display at different scale factors to effect zooming operations.

21. (New) The mobile hand-held device of claim 13, wherein the HTML document is an HTML parent document for a Web page.

22. (New) The mobile hand-held device of claim 13, wherein the HTML elements includes an HTML table having a plurality of cells, each cell having at least one of associated text content and associated image content, and the CSS code includes CSS code defining how the table and its associated content is to be rendered.

23. (New) The mobile hand-held device of claim 13, wherein the content associated with the HTML document includes a plurality of images that are referenced using respective Universal

Resource Locators (URLs) in the HTML document, and wherein execution of the instructions further enables the device to:

for each of the plurality of images;

retrieve the image via the URL for the image; and

generate a respective bounding box for the image; and

employ the respective bounding boxes to scale images in the rendered views of the HTML document.

24. (New) The mobile hand-held device of claim 13, wherein the HTML document includes a reference to an XML document containing XML content, and wherein execution of the instructions further enables the device to:

retrieve the XML document and processing the XML content in connection with rendering the first representation of the HTML document, wherein the XML content is used to define one or more of the interpreted page layout, functionality, and design of the content associated with the HTML document.

25. (New) A method performed by a mobile hand-held device including a touch-sensitive display and an HTML rendering engine, comprising:

receiving an HTML document including HTML code and cascading style sheet (CSS) code and content associated with the HTML document, the HTML code comprising a plurality of HTML elements including at least one HTML paragraph element, at least one HTML image element, and at least one HTML hyperlink element;

processing the HTML document with the HTML rendering engine to render a first representation of the HTML document having an interpreted page layout, functionality, and design of the content associated with the HTML document that is in accordance with the HTML code and CSS code, wherein rendering the first representation of the HTML document includes,

parsing the HTML document to identify the plurality of HTML elements;

logically grouping content associated with HTML elements into HTML objects;

generating page layout information including a bounding box for each HTML object; and

storing information that links each HTML object with its corresponding page layout information,

wherein the page layout information further includes information from which a page layout location of each of the bounding boxes can be determined;

translating the first representation of the HTML document to generate a scalable vector representation of the HTML document; and

render the scalable vector representation of the HTML document on the touch-sensitive display using a first scale factor to display the HTML document at a first zoom level under which the HTML document is displayed to fit across a width of the touch-sensitive display,

wherein the scalable vector representation of the HTML document is configured to enable a user to view the HTML document at one or more user-defined zoom levels by rendering the scalable vector representation on the touch-sensitive display using one or more respective scale factors in response to associated user inputs made via the touch-sensitive display, and wherein the interpreted page layout, functionality, and design of the content associated with the HTML document is preserved at each of the first zoom level and the one or more user-defined zoom levels.

26. (New) The method of claim 25, wherein execution of the instructions performs further operations comprising:

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

for each HTML object,

defining an object datum corresponding to a layout location datum for the HTML object's bounding box;

generating a vector from the primary datum to the object datum for the HTML object's bounding box; and

creating a reference that links the HTML object to the vector that is generated.

27. (New) The method of claim 25, wherein the mobile hand-held device is a mobile phone.

28. (New) The method of claim 25, wherein the mobile hand-held device is a hand-held computer.

29. (New) The method of claim 25, further comprising enabling the user to zoom in on a user-selectable portion of a view of the HTML document in response to a user interface input made via the touch-sensitive display.

30. (New) The method of claim 25, wherein the views of the HTML document are rendered in real-time to effect zooming operations.

31. (New) The method of claim 30, wherein the zooming operations are effected in a fraction of a second.

32. (New) The method of claim 25, further comprising:

generating a vector-based display list associated with the scalable vector representation; and

employing the vector-based display list to render views of the HTML document on the touch-sensitive display at different scale factors to effect zooming operations.

33. (New) The method of claim 25, wherein the HTML document is an HTML parent document for a Web page.

34. (New) The method of claim 25, wherein the HTML elements includes an HTML table having a plurality of cells, each cell having at least one of associated text content and associated image content, and the CSS code includes CSS code defining how the table and its associated content is to be rendered.

35. (New) The method of claim 25, wherein the content associated with the HTML document includes a plurality of images that are referenced using respective Universal Resource Locators (URLs) in the HTML document, further comprising:

for each of the plurality of images;

retrieving the image via the URL for the image; and

generating a respective bounding box for the image; and

employing the respective bounding boxes to scale images in the rendered views of the HTML document.

36. (New) The method of claim 25, wherein the HTML document includes a reference to an XML document containing XML content, further comprising:

retrieving the XML document and processing the XML content in connection with rendering the first representation of the HTML document, wherein the XML content is used to define one or more of the interpreted page layout, functionality, and design of the content associated with the HTML document.

37. (New) A mobile hand-held device, comprising:

a processor;

a wireless communications device, to facilitate wireless communication with a network that supports access to the Internet;

a touch-sensitive display; and

flash memory, operatively coupled to the processor, in which a plurality of instructions are stored comprising a plurality of software components including an HTML rendering engine, wherein the instructions, when executed by the mobile hand-held device, enable the mobile hand-held device to,

receive an HTML document comprising HTML-based content including HTML code and cascading style sheet (CSS) code and content associated with the HTML document;

produce scalable content by,

processing the HTML-based content with the rendering engine to render an interpreted page layout, functionality, and design of the content associated with the HTML document in accordance with the HTML code and CSS code;

logically grouping selected content into HTML objects, each HTML object including associated display content;

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

for each HTML object,

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

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

creating a reference that links the HTML object to the vector that is generated; and

employ at least one of the scalable content or data derived therefrom to,

render a view of the HTML document on the touch-sensitive display at a first zoom level under which the HTML document is displayed to fit across a width of the touch-sensitive display; and

render views of the HTML document on the touch-sensitive display in response to associated user inputs to enable the HTML document to be viewed at various zoom levels and panned views while preserving the interpreted page layout, functionality, and design of the content associated with the HTML document at each zoom level and panned view including the first zoom level.

38. (New) The mobile hand-held device of claim 37, wherein the mobile hand-held device is a mobile phone.

39. (New) The mobile hand-held device of claim 37, wherein the mobile hand-held device is a hand-held computer.

40. (New) The mobile hand-held device of claim 37, wherein execution of the instructions further enables the user to zoom in on a user-selectable portion of a view of the HTML document in response to a user interface input made via the touch-sensitive display.

41. (New) The mobile hand-held device of claim 37, wherein the views of the HTML document are rendered in real-time to effect zooming operations.

42. (New) The mobile hand-held device of claim 41, wherein the zooming operations are effected in a fraction of a second.

43. (New) The mobile hand-held device of claim 37, wherein execution of the instructions further enables the device to:

generate a vector-based display list associated with the scalable content; and

employ the vector-based display list to render views of the HTML document on the touch-sensitive display at different scale factors to effect zooming operations.

44. (New) The mobile hand-held device of claim 37, wherein the HTML document is an HTML parent document for a Web page.

45. (New) The mobile hand-held device of claim 37, wherein the HTML-based content includes an HTML table, and the CSS code includes CSS code defining how the table is to be formatted in the interpreted page layout page of the HTML document.

46. (New) The mobile hand-held device of claim 37, wherein execution of the instructions further enables the device to:

for each HTML object,

generate a bounding box for the HTML object; and

employ the bounding boxes to interpret the interpreted page layout of the HTML document.

47. (New) The mobile hand-held device of claim 33, wherein the HTML document includes references to a plurality of images, each reference comprising a respective Universal Resource Locators (URLs), and wherein execution of the instructions performs further operations comprising:

for each of the plurality of images;

retrieving the image via the URL for the image; and

generating a respective bounding box for the image; and

employing the respective bounding boxes to scale images in the rendered views of the HTML document.

REMARKS

Claims 1 was previously pending in this application, with claims 2-12 previously canceled. Applicant respectfully requests reconsideration and withdrawal of the pending rejection in view of the foregoing amendments and/or the following remarks. By this Amendment/Response, Applicant has canceled claims 1 without prejudice or disclaimer and has added new claims 13-47. Applicant submits that support for the new claims may be found throughout the originally filed specification, drawings and claims, and that no new matter has been added by way of the instant Amendment/Response. Applicant maintains that the original claims were in condition for allowance and explicitly reserves the right to add/pursue the original claims at a later time and/or in one or more continuation and/or divisional applications. Claims 13-47 are currently pending.

Double Patenting

Claim 1 has been rejected under the doctrine of obviousness-type double patenting in view of claims 1-22 of U.S. patent no. 9,519,729. Although Applicant respectfully traverses this rejection, Applicant has amended the claims to cancel claim 1 without prejudice or disclaimer and add new claims 13-47. Accordingly, Applicant respectfully submits that this basis of rejection has been rendered moot.

Claim Rejections – 35 U.S.C. § 103

Claim 1 has been rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over Van Ee, U.S. patent publication no. 2002/0030699 (hereinafter, "Van Ee") in view of Chithambaram et al., U.S. patent no. 6,674,445 (hereinafter, "Chithambaram"). Although Applicant respectfully traverses this rejection and submits that a *prima facie* showing of obviousness has not been established, and that claim 1 is not anticipated or rendered obvious by the applied references, taken individually or in combination, Applicant has canceled claim 1 without prejudice or disclaimer. Accordingly, Applicant respectfully submits that this basis of rejection has been rendered moot. Moreover, Applicant submits that new claims 13-47 are

patentable over the cited references at least because the references fail, individually and in combination, to anticipate or render obvious ever element of each pending claim.

Authorization

Applicant hereby authorizes and requests that the Commissioner charge any additional fees that may be required for consideration of this and/or any accompanying and/or necessary papers to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3). In the event that an extension of time is required (or which may be required in addition to that requested in a petition for an extension of time), Applicant requests that the Commissioner grant a petition for an extension of time required to make this response timely, and, Applicant hereby authorizes and requests that the Commissioner charge any fee or credit any overpayment for such an extension of time to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3).

In the event that a telephone conference would facilitate examination of the application in any way, Applicant invites the Examiner to contact the undersigned at the number provided.

Respectfully submitted,

Dated: March 16, 2018

/Babak Redjaian/
Babak Redjaian, Reg. No. 42,096
IRELL & MANELLA LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660
(949) 760-0991

CERTIFICATE OF TRANSMISSION

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being transmitted via electronic filing (EFS-Web) on the date shown below to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

March 16, 2018 /Pia S. Kamath/
Date of Transmission

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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): 161539-0002(P001XC3)

Application Number: 15/356,456

Filed: November 18, 2016

For: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

Art Unit: 2177

Examiner: Quoc A. Tran

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	Micro Entity Fee	
☑	One month (37 CFR 1.17(a)(1))	$200	$100	$50	$ 200.00
☐	Two months (37 CFR 1.17(a)(2))	$600	$300	$150	$
☐	Three months (37 CFR 1.17(a)(3))	$1,400	$700	$350	$
☐	Four months (37 CFR 1.17(a)(4))	$2,200	$1,100	$550	$
☐	Five months (37 CFR 1.17(a)(5))	$3,000	$1,500	$750	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies 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.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

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☑ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant.

☑ attorney or agent of record. Registration number 42,096.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Babak Redjaian/ — Signature

March 16, 2018 — Date

Babak Redjaian — Typed or printed name

(949) 760-0991 — Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☑ * Total of 4 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). 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 6 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: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

In the United States Patent and Trademark Office

Serial No.:	15/356,456	**Filed:**	November 18, 2016		
Applicant:	Softview L.L.C.	**Conf. No.:**	3543	**Art Unit:**	2177
Inventors(s):	Gary B. Rohrabaugh et al.	**Examiner:**	Quoc A. Tran		
For:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES				

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

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98. The items listed on Form PTO-SB08, a copy of which is enclosed, are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

1. ☐ For each of the following items listed on the enclosed copy of Form PTO-SB08 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed.

2. ☐ For each of the following items listed on the enclosed copy of Form PTO-SB08 that is not in the English language, a concise explanation of the relevance of that item is incorporated in the specification of the above-identified application.

3. ☒ Any copy of the items listed on the enclosed copy of Form PTO-SB08 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in application Serial No. 09/828,511, filed April 7, 2001, Serial No. 09/878,097, filed June 8, 2001, Serial No. 11/738,486, filed April 21, 2007, and Serial No. 12/941,106, filed November 8, 2010.

4. ☐ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:

   ☐ 37 C.F.R. §1.97(b)(1), within three months of the filing date of a national application other than a CPA; or

   ☐ 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application; or

   ☐ 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits; or

   ☐ 37 C.F.R. §1.97(b)(4) before the mailing date of a first office action after the filing of an RCE under §1.114.

CERTIFICATE OF TRANSMISSION
I hereby certify that this paper (along with any referred to as being attached or enclosed) is being transmitted via electronic filing (EFS-WEB) March 16, 2018. /Pia S. Kamath/

5. ☐ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below.

6. ☒ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 4 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):

   ☐ A check in the amount of $180.00 is enclosed in payment of the fee.

   ☒ Charge the fee to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3).

7. ☐ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:

   a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below; and

   b. the fee due under 37 C.F.R. §1.17(p) which is paid as set forth in paragraph 11 below.

8. ☐ This Information Disclosure Statement is being filed in compliance with:

   a. ☐ 37 C.F.R. §1.313(b)(3) or §1.313(c)(1), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h);

   b. ☐ 37 C.F.R. §1.313(c)(2) or §1.313(c)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Request for Continued Examination (RCE) or a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue and fee pursuant to 37 C.F.R. §1.17(h).

   c. ☐ The fee due under 37 C.F.R. §§1.17(h) is paid as set forth in paragraph 11 below.

9. ☐ I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

   ☐ I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

10. ☐ This document is accompanied by ☐a Search Report ☐Communication which was cited in a corresponding ☐ PCT or ☐ Foreign counterpart application.

11. ☐ A check in the amount of $ is enclosed in payment of the fees due under 37 C.F.R. §§1.17(h) and 1.17(p).

    ☐ Charge the fees due under 37 C.F.R. §§1.17(h) and 1.17(p) to Deposit Account No. 09-0946.

☒ Applicant hereby authorizes and requests that the Commissioner charge any additional fees that may be required for consideration of this and/or any accompanying and/or necessary papers to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3). In the event that an extension of time is required (or which may be required in addition to that requested in a petition for an extension of time), Applicant requests that the Commissioner grant a petition for an extension of time required to make this response timely, and, Applicant hereby authorizes and requests that the Commissioner charge any fee or credit any overpayment for such an extension of time to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3).

In the event that a telephone conference would facilitate examination of the application in any way, Applicant invites the Examiner to contact the undersigned at the number provided.

Respectfully submitted,
Attorney(s) for Applicant,
IRELL & MANELLA LLP

Dated: March 16, 2018

By: */s/ Babak Redjaian*
Babak Redjaian
Registration No.: 42,096

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949-760-0991 (Telephone)
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patents@irell.com (E-mail)

PTO/AIA/22 (03-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)	Docket Number (Optional) 161539-0002(P001XC3)
Application Number 15/356,456	Filed November 18, 2016
For SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES	
Art Unit 2177	Examiner Quoc A. Tran

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	Micro Entity Fee	
☑	One month (37 CFR 1.17(a)(1))	$200	$100	$50	$ 200.00
☐	Two months (37 CFR 1.17(a)(2))	$600	$300	$150	$
☐	Three months (37 CFR 1.17(a)(3))	$1,400	$700	$350	$
☐	Four months (37 CFR 1.17(a)(4))	$2,200	$1,100	$550	$
☐	Five months (37 CFR 1.17(a)(5))	$3,000	$1,500	$750	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies 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.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 0-0946.

☑ Payment made via EFS-Web.

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I am the

☐ applicant.

☑ attorney or agent of record. Registration number 42,096.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Babak Redjaian/	March 16, 2018
Signature	Date
Babak Redjaian	(949) 760-0991
Typed or printed name	Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☑ * Total of 4 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). 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 6 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: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	15356456
	Filing Date	2016-11-18
	First Named Inventor	Gary B. Rohrabaugh
	Art Unit	2177
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	161539-0002(P001XC3)

U.S.PATENTS						
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	6700589		2004-03-02	Canelones et al.	
	2	7142205		2006-11-28	Chithambaram et al.	
	3	7236173		2007-06-26	Chithambaram et al.	
	4	6874131		2005-03-29	Blumberg	
	5	6449639		2002-09-10	Blumberg	
	6	6134566		2000-10-17	Berman et al.	
	7	6535896		2003-03-18	Britton et al.	
	8	6605120		2003-08-12	Fields et al.	

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	Examiner Name	Quoc A. Tran
	Attorney Docket Number	161539-0002(P001XC3)

	9	6272484		2001-08-07	Martin et al.	
	10	6300947		2001-10-09	Kanevsky	
	11	6650343		2003-11-18	Fujita et al.	
	12	6307562		2001-10-23	Taivalsaari	
	13	6003046		1999-12-14	Nielsen	
	14	6556217		2003-04-29	Makipaa et al	
	15	5987256		1999-11-16	Wu etal.	
	16	7051276		2006-05-23	Mogilevsky et al	
	17	6826727		2004-11-30	Mohr et al.	
	18	6795089		2004-09-21	Rajarajan et al.	
	19	7737993		2010-06-15	Kaasila et al.	

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	20	6791571		2004-09-14	Lamb	
	21	7036076		2006-04-25	Anwar	
	22	6925597		2005-08-02	Anwar	
	23	6343377		2002-01-29	Gessner et al.	
	24	5897644		1999-04-27	Nielsen	
	25	7162493		2007-01-09	Weiss et al.	
	26	6161114		2000-12-12	King et al.	
	27	7055095		2006-05-30	Anwar	
	28	7009626		2006-03-07	Anwar	
	29	6857102		2005-02-15	Bickmore et al.	
	30	5920327		1999-07-06	Seidensticker, Jr.	

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	Examiner Name	Quoc A. Tran
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	31	7441196		2008-10-21	Gottfurcht et al.	
	32	7222306		2007-05-22	Kaasila et al.	
	33	7287220		2007-10-23	Kaasila et al.	
	34	6873343		2005-03-29	Chui	
	35	6674445		2004-01-06	Chitambaram et al.	
	36	5966135		1999-10-12	Roy et al.	
	37	6011905		2000-01-04	Huttenlocher et al.	
	38	6057854		2000-05-02	Davis, Jr., et al.	
	39	6337693		2002-01-08	Roy et al.	
	40	7450114		2008-11-11	Anwar et al.	
	41	6456305		2002-09-24	Qureshi et al.	

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	Attorney Docket Number	161539-0002(P001XC3)

	42	5615384		1997-03-25	Allard et al.	
	43	5952994		1999-09-14	Ong et al.	
	44	6553410		2003-04-22	Kikinis	
	45	6829746		2004-12-07	Schwerdtfeger et al.	
	46	6925595		2005-08-02	Whitledge et al.	
	47	6421733		2002-07-16	Tso et al.	
	48	6457030		2002-09-24	Adams et al.	
	49	7308649		2007-12-11	Ehrich et al.	
	50	6704024		2004-03-09	Robotham et al.	
	51	7823083		2010-10-26	Robotham et al.	
	52	7831926		2010-11-09	Robotham et al.	

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	53	6684087		2004-01-27	Yu et al.	
	54	6674445		2004-06-06	Chithambaram et al.	
	55	5966135		1999-10-12	Roy et al.	
	56	6011905		2000-01-04	Huttenlocher et al.	
	57	6057854		2000-05-02	Davis, Jr. et al.	
	58	6337693		2002-01-08	Roy et al.	
	59	7023572		2006-04-04	Tuli	
	60	7072984		2006-07-04	Polonsky et al.	
	61	7219309		2007-05-15	Kaasila et al.	
	62	5956025		1999-09-21	Goulden et al.	
	63	6076166		2000-06-13	Moshfeghi et al.	

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	64	6211856		2001-04-03	Choi et al.	
	65	6456308		2002-09-24	Agranet et al.	
	66	6466203		2002-10-15	Van Ee	
	67	6546397		2003-04-08	Rempell	
	68	6615212		2003-09-02	Dutta et al.	
	69	6781600		2004-08-24	Anwar	
	70	6886034		2005-04-26	Blumberg	
	71	6978418		2005-12-20	Bain et al.	
	72	6996533		2006-02-07	Ikeda et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code1	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear

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	Attorney Docket Number	161539-0002(P001XC3)

	1	20070080958		2007-04-12	Chithambaram et al.	
	2	20020023110		2002-02-21	Fortin et al.	
	3	20020158908		2002-10-31	Vaajala et al.	
	4	20040049598		2004-03-11	Tucker et al.	
	5	20050131887		2005-06-16	Rohrabaugh et al.	
	6	20020091738		2002-07-11	Rohrabaugh et al.	
	7	20010015719		2001-08-23	Van Ee et al.	
	8	20020030669		2002-03-14	Van Ee, Jan	
	9	20050144256		2005-06-30	Blumberg, Robert	
	10	20020112237		2002-08-15	Ketts, Brett R.	
	11	20010047428		2001-11-29	Hunter, Kevin D.	

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FOREIGN PATENT DOCUMENTS

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	200071514	AU		2001-05-17	Canon KK		☐
	2	00091298	GB		2000-04-14	Picsel Technologies Limited		☐
	3	2344197	GB		2000-05-31	Carlino		☐
	4	10-326169	JP		1998-12-08	Toshiba Corp.		☐
	5	04-259029	JP		1992-09-14	Fujitsu Ltd.		☐
	6	04-291675	JP		1992-10-15	Fujitsu Ltd.		☐
	7	05-165459	JP		1993-07-02	Toshiba Corp.		☐
	8	09-009160	JP		1997-01-10	Sony Corp.		☐
	9	09-016788	JP		1997-01-17	Toppan Printing Co. Ltd.		☐

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	Attorney Docket Number	161539-0002(P001XC3)

	10	09319537	JP		1997-12-12	Sharp Corp.		☐
	11	10-069473	JP		1998-03-10	Sharp Corp.		☐
	12	10-326136	JP		1998-12-08	Sun Microsyst Inc.		☐
	13	10-326244	JP		1998-12-08	Toyota Motor Corp.		☐
	14	11-015749	JP		1999-01-22	Nippon Telegr & Teleph Corp.		☐
	15	11-250009	JP		1999-09-17	Uniden Corp.		☐
	16	2000-076473	JP		2000-03-14	Fuji Xerox Co Ltd.		☐
	17	2000-090001	JP		2000-03-31	Spyglass Inc.		☐
	18	200-0115527	JP		2000-04-21	Canon Inc.		☐
	19	2000-222330	JP		2000-08-11	NEC Corp.		☐
	20	2000-267967	JP		2000-09-29	Fuji Xerox Corp.		☐

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	Examiner Name	Quoc A. Tran
	Attorney Docket Number	161539-0002(P001XC3)

	21	2000-330547	JP		2000-11-30	Fluency Kenkysho:KK		☐
	22	2001-043125	JP		2001-02-16	Sun Microsyst Inc.		☐
	23	09-305472	JP		1997-11-28	Hitachi Ltd.		☐
	24	10-162002	JP		1998-06-19	Matsushita Electric Ind Co Ltd.		☐
	25	11-015819	JP		1999-01-22	NEC Corp.		☐
	26	2000-284884	JP		2000-10-13	Matsushita Electric Ind Co Ltd.		☐
	27	10-021224	JP		1998-01-23	Toshiba Corp.		☐
	28	10334082	JP		1998-12-18	A Hong Kong Company		☐
	29	9937095	WO		1999-07-22	Koninklijke Philips Electronics N.V.		☐

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NON-PATENT LITERATURE DOCUMENTS

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.	T5

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	Attorney Docket Number	161539-0002(P001XC3)

	1		☐
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Examiner Signature		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	15356456
Filing Date	2016-11-18
First Named Inventor	Gary B. Rohrabaugh
Art Unit	2177
Examiner Name	Quoc A. Tran
Attorney Docket Number	161539-0002(P001XC3)

U.S.PATENTS

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FOREIGN PATENT DOCUMENTS

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NON-PATENT LITERATURE DOCUMENTS

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	1	Michael J. Albers and Loel Kim, User Web Browsing Characteristics Using Palm Handhelds for Information Retrieval, September 24, 2000, p. 125-135.	☐
	2	Matt Jones et al., Improving Web Interaction on Small Displays, May 17, 1999, p. 1-11.	☐
	3	Geoffrey M. Voelker and Brian N. Bershad, Mobisaic: An Information System for a Mobile Wireless Computing Environment, December 8-9, 1994, p. 1-6.	☐
	4	Terri Watson, Application Design for Wireless Computing, December 8-9, 1994, p. 91-94.	☐
	5	Changes to SVF, date unknown, SoftSource, available at http://www.svf.org/diff.html, p. 1-2.	☐
	6	Softview's Motion to Dismiss & Strike Apple's AT&T Mobility LLC's Inequitable Conduct Defenses, January 24, 2011, p. 1-9.	☐
	7	Apple's Opposition to Softview's Motion to Dismiss, February 7, 2011, p. 1-14.	☐
	8	Timothy Bickmore et al., Web Page Filtering and Re-Authoring for Mobile Users,The Computer Journal, January 1999, vol. 42, no. 6, p. 534-546.	☐
	9	Stefan Gessler & Andreas Kotulla, PDAs as Mobile WWW Browsers, University of Karlsruhe, December 1, 1995, p. 1-11.	☐
	10	Joel F. Bartlett, Experience with a Wireless World Wide Web Client, Digital Equipment Corp., Western Research Laboratory, March 1, 1995, p. 1-13.	☐
	11	Armando Fox et al., Experience with Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot ("Fox"), Univ. of Cal. at Berkeley, June 22, 1998, p. 1-20.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	12	Benjamin B. Bederson & James D. Hollan, Pad++: A Zoomable Graphical Interface System ("Bederson-1"), ACM, CHI '95 Mosaic of Creativity, 1995, p. 23-24.	☐
	13	George W. Furnas & Benjamin B. Bederson, Space-Scale Diagrams: Understanding Multiscale Interfaces ("Bederson-2"), ACM Press, Proceedings of CHI '05 Human Factors in Computing Systems, 2005, p. 1-12.	☐
	14	Benjamin B. Bederson et al., A Zooming Web Browser ("Bederson-3"), SPIE, vol. 2667, 1996, p. 1-12.	☐
	15	Ben Bederson & Jon Meyer, Implementing a Zooming User Interface: Experience Building Pad++ ("Bederson-4"), John Wiley & Sons, Ltd, Software-Practice and Experience, 1998, Vol. 28(10), p. 1101-1135.	☐
	16	Benjamin B. Bederson et al., Pad++: A Zoomable Graphical Sketchpad for Exploring Alternate Interface Physics ("Bederson-5"), Academic Press Ltd., Journal of Visual Languages and Computing, 1996, Vol. 7, p. 3-31.	☐
	17	Nokia Unveils World's First All-in-One Communicator for the Americas ("Nokia"), Nokia, 1996, p. 1.	☐
	18	3Com Announces the Palm VII Connected Organizer, the First Handheld Solution for Out-of-the-Box Wireless Internet Access ("Palm"), Palm Computing, Inc., December 2, 1998, p. 1-5.	☐
	19	Apple Outlines Plethora of Newton Wireless Communications Solutions at MessagePad 120 Lauch ("Newton"), Apple Computer, Inc., January 30, 1995, p. 1-4.	☐
	20	Kaoru Misaki, Locatio Beginner's Guide (and English translation thereof) ("Locatio"), Cutt Systems, July 30, 1999, p. 1-179.	☐
	21	Tim Bray, XML in XML ("Bray"), XML.com, March 18, 1999, p. 1-6.	☐
	22	Scalable Vector Graphics (SVG) Specification, W3C Working Draft, WD-SVG-19990211, at http:// www.w3.org/ TR/1999/WD-SVG-19990211/, February 11, 1999, p. 1-7.	☐

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	23	Scalable Vector Graphics (SVG) Specification, W3C Working Draft, WD-SVG-19990412, at http://VvWW. w3.org/ TR/1999/WD-SVG-19990412/, April 12, 1999, p. 1-7.	☐
	24	Scalable Vector Graphics (SVG) 1.0 Specification, W3C Candidate Recommendation, November 2, 2000, p. 1-513.	☐
	25	Introduction to SVG, W3C Working Draft, Part of WD-SVG-19990211 at http://WWW.w3.org/TR/1999/WED-SVG-19990211/intro.htmi#Document, p. 1-3.	☐
	26	Steve Mulder, Sneak Peak at SVG, March 4, 1999, p. 1.	☐
	27	Janus Boye, SVG Brings Fast Vector Graphics to Web, Irt.org, available at http://WWW.irt.org/articles/ js176/, July 29, 1999, p. 1-5.	☐
	28	Rich Graham, Mobile SVG at BitFiash Inc., W3C, available at http://WWW.w3.org/Talks/2002/1007-DI- Helskinki/ bitflash/index.html, May 1, 2001, p. 1-4.	☐
	29	Vector Markup Language (VML), World Wide Web Consortium Note NOTE-VML-19980513, May 13, 1998, p. 1-41.	☐
	30	Precision Graphics Markup Language (PGML), World Wide Web Consortium Note NOTE- PGML-19980410, at http:// WWW.w3.org/TR/1998/NOTE-PGML-19980410, April 10, 1998, p. 1-32.	☐
	31	Specification for Simple Vector Format (SVF) v1.1, SoftSource, available at http://WWW.softsource. com/svf/spec.html, January 16, 1995, p. 1-8.	☐
	32	Specification for Simple Vector Format (SVF) v.2.0, SoftSource, available at http://WWW.svf.org/ spec.html, December 6, 2000, p. 1-21.	☐
	33	Provisional U.S. Application No. 60/159,069 to Chithambaram et al., October 12, 1999, p. 1-30.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	34	Screenshot of Web pages using Opera 3.60: Altavista.com, May 1, 1999, p. 1-13.	☐
	35	Screenshot of Web pages using Opera 3.60: Cnet.com, May 8, 1999, p. 1-23.	☐
	36	Screenshot of Web pages using Opera 3.60: Excite. com, May 8, 1999, p. 1-14.	☐
	37	Screenshot of Web pages using Opera 3.60: NYTimes.com, April 22, 1999, p. 1-15.	☐
	38	Screenshot of Web pages using Opera 3.60: Opera.com, October 10, 1999, p. 1-14.	☐
	39	Screenshot of Web pages using Opera 3.60: Softsource.com, April 17, 1999, p. 1-16.	☐
	40	Screenshot of Web pages using Opera 3.60: uTexas.edu, April 17, 1999, p. 1-12.	☐
	41	Screenshot of Web pages using Opera 3.60: USPTO.gov, May 5, 1999, p. 1-13.	☐
	42	Screenshot of Web pages using Opera 3.60: Yahoo.com, May 8, 1999, p. 1-10.	☐
	43	Provisional U.S. Application No. 60/193,862 to Chithambaram et al., March 30, 2000, p. 1-32.	☐
	44	KEVIN MCCLUSKEY, Mozilla, Widget Library, July 10, 2005, p. 1-5.	☐

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	45	Vector Markup Language (VML), World Wide Web Consortium Note, NOTE-VML-19980513, http:/www. w3.org/ TR/1998/NOTE-VML_19980513, May 13, 1998, p. 1-47.	☐
	46	PCT International Search Report for International Application No. PCT/US01/40920, International Searching Authority, European Patent Office, December 27, 2001, p. 1-8.	☐
	47	PCT International Preliminary Exam Report for International Application No. PCT/US01/40920, International Preliminary Examining Authority, European Patent Office, June 20, 2002, p. 1-5.	☐
	48	Chapple, "Rethinking the role of an embedded Internet client in digital set-top boxes," Web TV Workshop Submission Paper, http://www.w3.org/Architecture/1998/06/Workshop/paper11/, June 1, 1998, p. 1-4.	☐
	49	Koncz, "Working with Autodesk Mapguide," http://www.directionsmag.com/article.php? article_id=77&trv=1, November 1, 2000, p. 1-6.	☐
	50	Schaffer et al, "Navigating Hierarchically Cluster Networks through Fisheye and Full-Zoom Methods," March 24, 1988, p. 1-20.	☐

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EXAMINER SIGNATURE

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	1	RICK POTTS, Mozilla, NGLayout Embedding APIs, Last modified, March 9, 1999, p. 1-12.	☐
	2	MICHAEL PLITKINS, Mozilla, View System, January 14, 1999, p. 1-4.	☐
	3	(Author Unknown), Mozilla, Threading Model, October 29, 1998, p. 1-3.	☐
	4	RICK GESSNER, Mozilla, HTML Tag Handling Chart, October 23, 1998, p. 1-9.	☐
	5	CHRIS WATERSON, Gecko Overview, June 10, 2002, p. 1-36.	☐
	6	MIKE SHAVER, MICHAEL ANG, Inside the Lizard: A Look at the Mozilla Technology and Architecture, May 29, 2000, p. 1-6.	☐
	7	KIPP HICKMAN, Mozilla, Base Library Roadmap, July 15, 1998, p. 1-2.	☐
	8	KIPP HICKMAN, Mozilla, The Content Model, July 15, 1998, p. 1-3.	☐
	9	VIDUR APPARAO, TOM PIXLEY, Mozilla, The NGLayout Document Object Model (DOM) Roadmap, May 26, 2001, p. 1-12.	☐
	10	CHRIS KARNAZE, Mozilla, Forms, January 14, 1999, p. 1-4.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	161539-0002(P001XC3)

	11	TROY CHEVALIER et al., Mozilla, New Layout: HTML Layout, July 20, 1998, p. 1-7.	☐
	12	(Author Unknown), Mozilla, Layout Engine Technical Documentation, April 4, 2008, p. 1-3.	☐
	13	JAMES EVERINGHAM, Mozilla, BAM Roadmap, July 15, 1998, p. 1-6.	☐
	14	RICK GESSNER, Mozilla, Parsing Engine, January 14, 1999, p. 1-5.	☐
	15	MICHAEL PLITKINS, Mozilla, Java and Plugins, January 14, 1999, p. 1-3.	☐
	16	MICHAEL PLITKINS, Mozilla, Printing, January 14, 1999, p. 1-2.	☐
	17	MICHAEL PLITKINS, Mozilla, Redering, January 14, 1999, p. 1-6.	☐
	18	PETER LINSS, Mozilla, Style System, July 15, 1998, p. 1-5.	☐
	19	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, May 10, 2010, 58 pages.	☐
	20	Report on the Filing or Determination of an Action Regarding a Patent or Trademark Case 1:10-cv-00389-JJF-LPS, May 11, 2010, 1 page.	☐
	21	MICHAEL PLITKINS, Mozilla, View System, Last modified January 14, 1999, p. 1-4.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	22	(Author Unknown), Mozilla, Layout Engine Technical Documentation, Last modified April 4, 2008, p. 1-3.	☐
	23	AT&T Mobility LLC's First Supplemental Objections and Responses to Softview LLC's Amended First Set of 5 Interrogatories (Nos. 1-8 to ATIM; Nos. 1-7 and 10 in Softview LLC's Amended First Set of Interrogatories to D Defendants, July 12, 2011 (39 pages).	☐
	24	Opera 3.60 Help Document, available on May 12, 1999 (e.g. PDF pages 7-28, 36-87).	☐
	25	SVF XML (http://www.svf.org/svfxml.html) p. 1-18 (Date Unknown).	☐
	26	Defendant Apple Inc.'s Answer, Defenses, and Counterclaims to First Amended Complaint (10-cv-00389, D.Del), January 3, 2011, p. 1-22	☐
	27	Defendant AT&T Mobility, LLC.'s Answer, Defenses, and Counterclaims to First Amended Complaint (10-cv-00389, D. Del.), January 3, 2011, p. 1-22.	☐
	28	Plaintiff SoftView LLC's Reply to Defendant Apple Inc.'s Defenses and Counterclaims (10-cv-00389, D. Del.), January 24, 2011, p. 1-8.	☐
	29	SoftView LLC's Brief In Support of Its Motion for Leave to Amend Its Complaint (1 0-cv-00389, D. Del.), November 10, 2011, p. 1-9.	☐
	30	SoftView LLC's First Amended Complaint (10-cv-00389 D. Del.), December 3, 2010, p. 1-7.	☐
	31	KIPP HICKMAN, Mozilla, Base Library Roadmap, Last modified July 15, 1998, p. 1.	☐
	32	KIPP HICKMAN, Mozilla, The Content Model, Last modified July 15, 1998, p. 1.	☐

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	33	Benjamin B Bederson et al., "Pad++, September 19, 1995, p. 1-30.	☐
	34	Dennis, "Webraska Joins W3C for Next Generation Internet Graphics," Newsbytes, May 8, 2000, p. 1	☐
	35	Jones et al. "From the large screen to the small screen- retaining the designer's design for effective user interaction," 3 IEEE Colloquium on Issues for Networked Interpersonal Communicators, May 1997, p. 3/1-3/4.	☐
	36	Pacchiano, "Adobe's New View," Computer Shopper, Vol. 19, No.4, April 1999, p. 346.	☐
	37	"TADPOLE TECHNOLOGY: I LOG technology within Tadpole's Cartesia Red line system making repairs simpler," M2 Presswire, January 1999. p. 1-5.	☐
	38	Thryft, "Wireless link ramped for 'always on' Internet," EETimes, March 23, 1999, p. 1-2., https://www.eetimes.com/document.asp?doc_ID=1138842.	☐
	39	Bharadvaj et al., "An Active Transcoding Proxy to Support Mobile Web Access," Proc. of the IEEE Symposium on Reliable Distributed Systems, 1998, p. 1-6.	☐
	40	Bjork, et al., "WEST: A Web Browser for Small Terminals," Proceedings of the 12 ACM symposium on User Interface Software and Technology, 1999, p. 1-8.	☐
	41	Holmquist, "The Zoom Browser," Human IT Tridskrift for studier av IT ur ett humanvetenskaplight perspektive, March, 1998, p. 1-4.	☐
	42	Knudsen, Jonathan, "Java 20 Graphics," O'Reilly and Associates, Inc., May 5, 1999 (Electronic Form), p. 1-287.	☐
	43	Official USPTO Action for Application Serial No. 11/868,124 Mailed August 24, 2010, p. 1-15.	☐

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	44	US Provisional Application No. 60/288,287 filed May 2, 2001, 144 pages.	☐
	45	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 (HCIInternational '97), 1997, p. 719-722.	☐
	46	US Provisional Application No. 60/203,494 filed May 11, 2000, 20 pages.	☐
	47	BENJAMIN B. BEDERSON ET AL., Pad++: A Zoomable Graphical Sketchpad For Exploring Alternate Interface Physics, September 19, 1995, p. 1-30, http://www.cs.unm.edu/pad++.	☐
	48	BENJAMIN B. BEDERSON ET AL., A Zooming Web Browser, SPIE 1996, http:/www.cs.umd.edu/hcil/jazz/learn/papers/spie-96-webbrowser.pdf, 1996, entirety (pages not numbered).	☐
	49	SVF XML http://www.svf.org/svfml.html, date unknown, p. 1-18.	☐
	50	Introduction to SVG, part of WD-SVG-19990211, http://www.w3.org/TR/1999/ WD-SVG-19990211/intro. html., date unknown, p. 1-3.	☐

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	1	Holmquist "Flip Zooming: Focus+Context Visualization of Linearly Ordered Discrete Visual Structures," Published 2000, p. 27-53.	☐
	2	Notice of Allowance for US Application Serial No. 11/735,482 dated October 4, 2010, 40 pages.	☐
	3	US App. No. 11/738,486 Applicants Comments on Reasons for Allowance dated September 9, 2010, 63 pages.	☐
	4	SoftView Motion for Leave to Amend Complaint, SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, November 10, 2011, 1 page.	☐
	5	SoftView Brief in Support of Motion to Amend Complaint, SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, November 10, 2011, 21 pages.	☐
	6	SoftView's First Amended Complaint (Proposed), SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, December 3, 2010, 98 pages.	☐
	7	Defendant Apple Corporation Answer to Complaint (Revised). SoftView LLC v. Apple Inc. et al. 2 Case No. 1:10-cv-00389-JJF-LPS. July 12, 2010, 10 pages.	☐
	8	Defendant AT&T Corporation Answer to Complaint. SoftView LLC v. Apple Inc. et al. 3 Case No. 1:10-cv-00389-JJF-LPS, July 12, 2010, 10 pages.	☐
	9	SoftView LLC reply to Apple's Answer (Revised), SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, August 2, 2010, 5 pages.	☐
	10	Combined Printout of HTML Help Files for Opera 3.60 (HTML pages printed to PDF docs and combined), May 12, 1999, 3 pages.	☐
	11	Non-Final Office Action for US Application Serial No. 09/828,511 mailed on March 22, 2004, number of pages unknown.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15356456
	Filing Date	2016-11-18
	First Named Inventor	Gary B. Rohrabaugh
	Art Unit	2177
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	161539-0002(P001XC3)

	12	Notice of Allowance for US Application Serial No. 11/738,486 dated June 9, 2010, pages 29.	☐
	13	Notice of Allowance for US Application Serial No. 11/738,932 dated June 10, 2010, pages 6.	☐
	14	Non-Final Office Action for US Application Serial No. 11/735,482, Mailed April 27, 2010, pages 8.	☐
	15	US Provisional Application No. 60/288,287 filed May 2, 2001, pages 144.	☐
	16	US Provisional Application No. 60/296,275 filed June 5, 2001, pages 253.	☐
	17	US Provisional Application No. 60/296,237 filed June 5, 2001, pages 261.	☐
	18	US Provisional Application No. 60/296,274 filed June 5, 2001, pages 270.	☐
	19	US Provisional Application No. 60/296,284 filed June 5, 2001, pages 267.	☐
	20	US Provisional Application No. 60/296,231 filed June 5, 2001, pages 256.	☐
	21	US Provisional Application No. 60/296,224 filed June 5, 2001, pages 267.	☐
	22	US Provisional Application No. 60/296,273 filed June 5, 2001, pages 248.	☐

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	Examiner Name	Quoc A. Tran
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	23	US Provisional Application No. 60/296,283 filed June 5, 2001, pages 251.	☐
	24	US Provisional Application No. 60/296,281 filed June 5, 2001, pages 252.	☐
	25	US Provisional Application No. 60/296,327 filed June 5, 2001, pages 250.	☐
	26	HIGHTOWER, RON R., et al., Graphical Multiscale Web Histories: A Study of PadPrints, Proceedings of the 11th Annual ACM Symposium on User Interface Software and Technology, November 1998, pages 1-8, HCIL Technical Report No. 98-06, Albuquerque, New Mexico.	☐
	27	IEEE Recommended Practice for Software Requirements Specifications, Software Engineering Standards Committee of the IEEE Computer Society, IEEE Std 830-1998, June 25, 1998, pages 1-37, New York, New York.	☐
	28	GETTYS, JAMES, et al., The (Re)Architecture of the X Window System, Proceedings of the 2004 Linux Symposium, July 2003, pages 1-12, Volume 1, HP Cambridge Research Laboratory, Ottawa, ON, Canada.	☐
	29	HAMBURGEN, WILLIAM R. et al., Itsy: Stretching the Bounds of Mobile Computing, Computing Practices, April 2001, pages 28-36, Volume 34, Issue: 4, IEEE, Houston, Texas.	☐
	30	BEDERSON, BEJAMIN B., et al., DateLens: A Fisheye Calendar Interface for PDAs, Human-Computer Interaction Laboratory, Institute for Advanced Computer Studies, September 2002, pages 1-32, College Park, Maryland.	☐
	31	Excerpts from the May 3, 2013 deposition transcript of Scott Forstall (Apple Inc., et al., Civil Action No. 10-389-LPS) ("Forstall Depo.") submitted with the July 17, 2017 information disclosure statement in inter partes reexamination Serial No. 95/000,635, 12 pages.	☐
	32	HIGHTOWER, RON R., et al. "PadPrints: graphical multiscale Web histories." Proceedings of the 11th annual ACM symposium on User interface software and technology. ACM, 1998, 8 pages.	☐
	33	Intel StrongARM* SA-1110 Microprocessor Brief Datasheet, Intel, April 2000, pages 1-10, www.datasheetcatalog.com.	☐

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	34	BEDERSON, BEN, Piccolo.NET: A Scalable Structured Graphics Toolkit, University of Maryland, Human-Computer Interaction Lab, Computer Science Department, PowerPoint presentation, pages 1-22.	☐
	35	KARLSON, Amy K., AppLens and LaunchTile: Two Designs for One-Handed Thumb Use on Small Devices, Association for Computing Machinery, Inc., Proceedings of CHI 2005, January 1, 2005, pages 201-2010, Portland, Oregon.	☐
	36	Mozilla Hacker's Getting Started Guide, An Introduction to Hacking Mozilla., http://www-archive.mozilla.org/hacking/coding-introduction.html, 1998-2009 by individual mozilla.org contibutors, last modified September 24, 2004, printed on November 21, 2016, 15 pages.	☐
	37	Mozilla Hacker's Getting Started Guide, An Introduction to Hacking Mozilla., https://web.archive.org/web/20020802223454/http://www.mozilla.org/hacking/coding-introduction.html, 1998-2002, last modified May 14, 2002, printed on November 21, 2016, 10 pages.	☐
	38	An overview of the Minimo (Mini Mozilla) project, http://linuxdevices.linuxgizmos.com, May 19, 2004, LinuxDevices, 6 pages.	☐
	39	Chapter One: Fundamental Concepts, http://mb.escew.org/1, October 27, 2004, printed on November 23, 2016, 19 pages.	☐
	40	Chapter Two: XUL Layout, http://mb.escew.org/2, October 27, 2004, printed on November 23, 2016, 26 pages.	☐
	41	Introduction: Welcome to Software Development the Mozilla Way, http://mb.eschew.org/intro, printed on November 23, 2016, 5 pages.	☐
	42	Bug 167162 - Fonts interacts badly with CanonicalPixalScale, https://bugzilla.mozilla.org/show_bug.cgi?id=167162, reported September 6, 2002, modified April 13, 2010, printed November 23, 2016, 4 pages.	☐
	43	Bug 177805 - (pixels) Fix the use of units in Gecko, https://bugzilla.mozilla.org/show_bug.cgi?id=177805, reported October 31, 2002, modified April 26, 2014, printed November 23, 2016, 56 pages.	☐
	44	Bug 418468 - Zoom manager preferences are not live, https://bugzilla.mozilla.org/show_bug.cgi?id=418468, reported February 19, 2008, modified April 1, 2009, printed November 23, 2016, 5 pages.	☐

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	Attorney Docket Number	161539-0002(P001XC3)

	45	SillyDog701's Netscape Version Guide and Timeline, http://sillydog,org/netscape/verinfo.php, 1997-2007, 8 pages.	☐
	46	BARTLETT, JOEL F. et al., The Itsy Pocket Computer, Compaq Western Research Laboratory, October 2000, pages 1-24, WRL Research Report 2000/6, Palo Alto, California.	☐
	47	Excerpts from the February 13, 2013 deposition transcript of Ben Bederson (Apple Inc., et al., Civil Action No. 10-389-LPS) ("Bederson Depo.") submitted with the July 17, 2017 information disclosure statement in inter partes reexamination Serial No. 95/000,635, 317 pages.	☐
	48	W3C, "HTML 4.0 Specification, W3C Recommendation," https://www.w3.org/TR/REC-html32.html, December 18, 1997, 178 pages.	☐
	49	W3C, "HTML 3.2 References Specification, W3C Recommendation," https://www.w3.org/TR/REC-html32.html, January 14, 1997, 44 pages.	☐
	50	W3 Consortium, Introducing HTML 3.2, https://www.w3.org/MarkUp/Wilbur, February 2, 2014, 2 pages.	☐

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	Art Unit	2177
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	161539-0002(P001XC3)

	1	W3 Consortium, Cascading Style Sheets, Level 2, CSS 2.0 specification, April 2008, available at https://www.w3.org/TR/2008/REC-CSS2-20080411/css2.pdf, 340 pages.	☐
	2	Declaration of Michael L. Howard, dated November 16, 2016, submitted with the August 21, 2017 information disclosure statement in ex parte reexamination Serial No. 90/009,995, 82 pages.	☐
	3	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins), dated July 15, 2017, submitted in related inter partes reexamination Serial No. 95/000,635, 21 pages.	☐
	4	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins) dated June 7, 2017, submitted in related inter partes reexamination Serial No. 95/002,126, 26 pages.	☐
	5	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins), dated July 24 2017, submitted in related inter partes reexamination Serial No. 95/000,634, 21 pages.	☐
	6	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins), dated June 7 2017, submitted in related inter partes reexamination Serial No. 95/002,132, 31 pages.	☐
	7	Declaration of Glenn Reinman, Ph.D., dated July 19, 2013, submitted with the August 21, 2017 information disclosure statement in ex parte reexamination Serial No. 90/009,995, 49 pages.	☐
	8	Declaration of Glenn Reinman, Ph.D., dated July 19, 2013, submitted as Exhibit 2003 in IPR2013-00004 and IPR2013-00007, 49 pages.	☐

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Electronic Patent Application Fee Transmittal

Application Number:	15356456
Filing Date:	18-Nov-2016
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	Babak Redjaian/Pia Kamath
Attorney Docket Number:	161539-0002(P001XC3)

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
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Claims:				
CLAIMS IN EXCESS OF 20	1202	15	100	1500
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
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Extension-of-Time:				
Extension - 1 month with $0 paid	1251	1	200	200
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	240	240
		Total in USD ($)		**1940**

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EFS ID:	32070071
Application Number:	15356456
International Application Number:	
Confirmation Number:	3543
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	29000
Filer:	Babak Redjaian/Pia Kamath
Filer Authorized By:	Babak Redjaian
Attorney Docket Number:	161539-0002(P001XC3)
Receipt Date:	16-MAR-2018
Filing Date:	18-NOV-2016
Time Stamp:	18:58:34
Application Type:	Utility under 35 USC 111(a)

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Payment was successfully received in RAM	$1940
RAM confirmation Number	031918INTEFSW00005394090946
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In the United States Patent and Trademark Office

Serial No.:	15/356,456	**Filed:**	November 18, 2016		
Applicant:	Softview L.L.C.	**Conf. No.:**	3543	**Art Unit:**	2177
Inventors(s):	Gary B. Rohrabaugh et al.	**Examiner:**	Quoc A. Tran		
For:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES				

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

TRANSMITTAL FOR AMENDMENT AND RESPONSE, REQUEST FOR EXTENTION OF TIME, AND INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant submits, herewith, the following documents for appropriate action by the U.S. Patent and Trademark Office.

- ☒ Amendment and Response
- ☒ Petition for Extension of Time
- ☒ Information Disclosure Statement Transmittal, PTO/SB08a/Form with cited references
- ☒ The Commissioner is hereby authorized to charge the fee to Deposit Account No. 09-0946.

☒ Applicant hereby authorizes and requests that the Commissioner charge any additional fees that may be required for consideration of this and/or any accompanying and/or necessary papers to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3). In the event that an extension of time is required (or which may be required in addition to that requested in a petition for an extension of time), Applicant requests that the Commissioner grant a petition for an extension of time required to make this response timely, and, Applicant hereby authorizes and requests that the Commissioner charge any fee or credit any overpayment for such an extension of time to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3).

In the event that a telephone conference would facilitate examination of the application in any way, Applicant invites the Examiner to contact the undersigned at the number provided.

Respectfully submitted,
Attorney(s) for Applicant,
IRELL & MANELLA LLP

Dated: March 16, 2018

By: */s/ Babak Redjaian*
Babak Redjaian
Registration No.: 42,096

Correspondence Address:
IRELL & MANELLA LLP
840 Newport Center Drive, Suite 400
Newport Beach, CA 92660

949-760-0991 (Telephone)
949-760-5200 (Facsimile)
patents@irell.com (E-mail)

PLUS Search Results for S/N 15356456, Searched Tue Jun 12 17:18:55 EDT 2018

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6073175 99
6055408 93
5869819 92
5983218 92
5992752 92
6012087 92
6045048 92
6068188 92
6076733 92
6152369 92
4549932 91
4596632 91
5190991 91
5870552 91
5892825 91
5905251 91
5937164 91
6027024 91
6070167 91
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6185306 91
6263371 91
5365720 90
5635033 90
5774660 90
5778367 90
5888352 90
5920856 90
5996000 90
6006264 90
6026371 90
6034661 90
6131162 90
6141678 90
6157933 90
6175830 90
6175832 90
6182091 90
6205432 90
6224387 90
6224387 90
6243750 90
7895077 90
4245397 89
4279695 89
4357758 89
4399403 89
4439881 89
4443492 89
4452669 89

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	15356456
Filing Date	18-Nov-2016
First Named Inventor	Gary Rohrabaugh
Attorney Docket Number	161539-0002(P001XC3)
Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
Softview L.L.C.	100%

The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

9519729

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ○ Small Entity ○ Micro Entity ◉ Regular Undiscounted 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 Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ○ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number _____ ◉ A sole inventor ○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ○ A joint inventor; all of whom are signing this request	
Signature	/Gary B. Rohrabaugh/
Name	Gary B. Rohrabaugh

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	15356456
Filing Date:	18-Nov-2016
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	Kamran Vakili
Attorney Docket Number:	161539-0002(P001XC3)

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 15356456

Filing Date: 18-Nov-2016

Applicant/Patent under Reexamination: Rohrabaugh

Electronic Terminal Disclaimer filed on June 18, 2018

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	32929375
Application Number:	15356456
International Application Number:	
Confirmation Number:	3543
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	29000
Filer:	Kamran Vakili
Filer Authorized By:	
Attorney Docket Number:	161539-0002(P001XC3)
Receipt Date:	18-JUN-2018
Filing Date:	18-NOV-2016
Time Stamp:	18:22:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$160
RAM confirmation Number	061918INTEFSW00005134090946
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33394 36068c033520e2a7018c22f584eb940cb016f5a4	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30843 89c98864bac31be6afa841756f138eca690c55a7	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64237		

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

29000 7590 07/03/2018

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

EXAMINER
TRAN, QUOC A

ART UNIT	PAPER NUMBER
2177	

DATE MAILED: 07/03/2018

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)	3543

TITLE OF INVENTION: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0	$0	$1000	10/03/2018

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 ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

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)

29000 7590 07/03/2018
Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

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.
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)	3543

TITLE OF INVENTION: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0	$0	$1000	10/03/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRAN, QUOC A	2177	715-517000

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 credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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.
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)	3543

29000 7590 07/03/2018

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

EXAMINER	
TRAN, QUOC A	
ART UNIT	PAPER NUMBER
2177	

DATE MAILED: 07/03/2018

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

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.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B 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.

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.

Notice of Allowability	Application No. 15/356,456	Applicant(s) ROHRABAUGH ET AL.	
	Examiner QUOC A. TRAN	Art Unit 2177	AIA (First Inventor to File) Status No

-- 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 *See Continuation Sheet*.

   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are *13, 15-24, 48, 25, 27-33, 47, 34-36, 49 and 37-46 (renumbering as 1-35 respectively)* . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

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

   Certified copies:

   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.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

   ☐ 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. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 03/16/2018 x (5)
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date *06/18/2018* .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/QUOC A TRAN/
Primary Examiner, Art Unit 2177

Continuation of Item 1. This communication is responsive to : Applicant's amendments/remarks filed 03/16/2018, in light of telephone interview on 06/18/2018.

DETAILED ACTION

The present application is being examined under the pre-AIA first to invent provisions. In response to Applicant's amendments/remarks filed 03/16/2018, in light of telephone interview on 06/18/2018. In addition, the examiner's amendment was authorized by the Applicant. Claim(s) 13, 15-25 and 27-49 are pending.

Claim(s) 13, 24-25 are currently amended to further clarification the claims invention and the allowable subject matter. **Claim(s) 1-12, 14 and 26 are currently cancelled**. **Claim(s) 15-23 and 27-47 were previously presented**. **Claim(s) 48-49 are new**.

It is noted the current application is a continuation of 12/941,106, filed 11/08/2010 ,now U.S. Patent #9519729; 1/2941,106 is a continuation of 11738486, filed 04/21/2007 ,now U.S. Patent #7831926; 11/738,486 is a continuation of 09878097, filed 06/08/2001 ,now U.S. Patent #7210099; 09/878,097 is a continuation in part of 09/828,511, filed 04/07/2001 ,now abandoned; 09/878,097 Claims Priority from Provisional Application 60217345, filed 07/11/2000; 09/878,097 Claims Priority from Provisional Application 60211019, filed 06/12/2000.

The present application is being examined under the pre-AIA first to invent provisions. In response to Applicant's amendments/remarks filed 01/15/2018, in light of telephone interview on 05/09/2018.

In addition, the Examiner is hereby withdrawn the nonstatutory double patenting rejection, in light of the “Terminal Disclaimer” filed and approved on 06/18/2018.

Information Disclosure Statement

A signed and dated copy of applicant's IDS, which were filed on 03/16/2018 (five times), is/are attached to this Office Action.

EXAMINER'S AMENDMENT

The application has been amended as follows:

In the Claims:

1-12. (Cancelled)

13. (Currently Amended) A mobile hand-held device, comprising:

a processor;

a wireless communications device, to facilitate wireless communication with a network that supports access to the Internet;

a touch-sensitive display; and

flash memory, operatively coupled to the processor, in which a plurality of instructions are stored comprising a plurality of software components including an HTML rendering engine, wherein the instructions are configured to be executed by the processor to enable the mobile hand-held device to,

receive an HTML document including HTML code and cascading style sheet (CSS) code and content associated with the HTML document, the HTML code comprising a plurality of HTML elements including at least one HTML paragraph element, at least one HTML image element, and at least one HTML hyperlink element;

process the HTML document with the HTML rendering engine to render a first representation of the HTML document having an interpreted page layout,

functionality, and design of the content associated with the HTML document that is in accordance with the HTML code and CSS code, wherein rendering the first representation of the HTML document includes,

~~parse~~ parsing the HTML document to identify the plurality of HTML elements;

logically ~~group~~ grouping content associated with HTML elements into HTML objects;

~~generate~~ generating page layout information including a bounding box for each HTML object; and

~~store~~ storing information that links each HTML object with its corresponding page layout information,

wherein the page layout information further includes information from which a page layout location of each of the bounding boxes can be determined;

translate the first representation of the HTML document to generate a scalable vector representation of the HTML document~~; and~~ wherein generating the scalable vector representation includes,

defining a primary datum corresponding to the interpreted page layout;

for each HTML object,

defining an object datum corresponding to a layout location datum for the HTML object's bounding box;

generating a vector from the primary datum to the object datum for the HTML object's bounding box; and

creating a reference that links the HTML object to the vector that is generated; and

render the scalable vector representation of the HTML document on the touch-sensitive display using a first scale factor to display the HTML document at a first zoom level under which the HTML document is displayed to fit across a width of the touch-sensitive display,

wherein the scalable vector representation of the HTML document is configured to enable a user to view the HTML document at one or more user-defined zoom levels by rendering the scalable vector representation on the touch-sensitive display using one or more respective scale factors in response to associated user inputs made via the touch-sensitive display, and wherein the interpreted page layout, functionality, and design of the content associated with the HTML document is preserved at each of the first zoom level and the one or more user-defined zoom levels.

14. (Cancelled)

15. (Previously Presented) The mobile hand-held device of claim 13, wherein the mobile hand-held device is a mobile phone.

16. (Previously Presented) The mobile hand-held device of claim 13, wherein the mobile hand-held device is a hand-held computer.

17. (Previously Presented) The mobile hand-held device of claim 13, wherein execution of the instructions further enables the user to zoom in on a user-selectable portion of a view of the HTML document in response to a user interface input made via the touch-sensitive display.

18. (Previously Presented) The mobile hand-held device of claim 13, wherein the views of the HTML document are rendered in real-time to effect zooming operations.

19. (Previously Presented) The mobile hand-held device of claim 18, wherein the zooming operations are effected in a fraction of a second.

20. (Previously Presented) The mobile hand-held device of claim 13, wherein execution of the instructions performs further enables the device to:

generate a vector-based display list associated with the scalable vector representation; and

employ the vector-based display list to render views of the HTML document on the touch-sensitive display at different scale factors to effect zooming operations.

21. (Previously Presented) The mobile hand-held device of claim 13, wherein the HTML document is an HTML parent document for a Web page.

22. (Previously Presented) The mobile hand-held device of claim 13, wherein the HTML elements includes an HTML table having a plurality of cells, each cell having at least one of associated text content and associated image content, and the CSS code includes CSS code defining how the table and its associated content is to be rendered.

23. (Previously Presented) The mobile hand-held device of claim 13, wherein the content associated with the HTML document includes a plurality of images that are referenced using respective Universal Resource Locators (URLs) in the HTML document, and wherein execution of the instructions further enables the device to:

for each of the plurality of images;

retrieve the image via the URL for the image; and

generate a respective bounding box for the image; and

employ the respective bounding boxes to scale images in the rendered views of the HTML document.

24. (Currently Amended) The mobile hand-held device of claim 13, wherein the HTML document includes a reference to an XML document containing XML content, and wherein execution of the instructions further enables the mobile hand-held device to: retrieve the XML document and processing the XML content in connection with

rendering the first representation of the HTML document, wherein the XML content is used to define one or more of the interpreted page layout, functionality, and design of the content associated with the HTML document.

25. (Currently Amended) A method performed by a mobile hand-held device including a touch-sensitive display and an HTML rendering engine, comprising:

receiving an HTML document including HTML code and cascading style sheet (CSS) code and content associated with the HTML document, the HTML code comprising a plurality of HTML elements including at least one HTML paragraph element, at least one HTML image element, and at least one HTML hyperlink element;

processing the HTML document with the HTML rendering engine to render a first representation of the HTML document having an interpreted page layout, functionality, and design of the content associated with the HTML document that is in accordance with the HTML code and CSS code, wherein rendering the first representation of the HTML document includes,

parsing the HTML document to identify the plurality of HTML elements;

logically grouping content associated with HTML elements into HTML objects;

generating page layout information including a bounding box for each HTML object; and

storing information that links each HTML object with its corresponding page layout information,

wherein the page layout information further includes information from which a page layout location of each of the bounding boxes can be determined;

translating the first representation of the HTML document to generate a scalable vector representation of the HTML document~~; and~~ wherein generating the scalable vector representation includes,

defining a primary datum corresponding to the interpreted page layout;

for each HTML object,

defining an object datum corresponding to a layout location datum for the HTML object's bounding box;

generating a vector from the primary datum to the object datum for the HTML object's bounding box; and

creating a reference that links the HTML object to the vector that is generated; and

render the scalable vector representation of the HTML document on the touch-sensitive display using a first scale factor to display the HTML document at a first zoom level under which the HTML document is displayed to fit across a width of the touch-sensitive display,

wherein the scalable vector representation of the HTML document is configured to enable a user to view the HTML document at one or more user-defined zoom levels by rendering the scalable vector representation on the touch-sensitive display using one or more respective scale factors in response to associated user inputs made via the

touch-sensitive display, and wherein the interpreted page layout, functionality, and design of the content associated with the HTML document is preserved at each of the first zoom level and the one or more user-defined zoom levels.

26. (Cancelled)

27. (Previously Presented) The method of claim 25, wherein the mobile hand-held device is a mobile phone.

28. (Previously Presented) The method of claim 25, wherein the mobile hand-held device is a hand-held computer.

29. (Previously Presented) The method of claim 25, further comprising enabling the user to zoom in on a user-selectable portion of a view of the HTML document in response to a user interface input made via the touch-sensitive display.

30. (Previously Presented) The method of claim 25, wherein the views of the HTML document are rendered in real-time to effect zooming operations.

31. (Previously Presented) The method of claim 30, wherein the zooming operations are effected in a fraction of a second.

32. (Previously Presented) The method of claim 25, further comprising:

generating a vector-based display list associated with the scalable vector representation; and

employing the vector-based display list to render views of the HTML document on the touch-sensitive display at different scale factors to effect zooming operations.

33. (Previously Presented) The method of claim 25, wherein the HTML document is an HTML parent document for a Web page.

34. (Previously Presented) The method of claim 25, wherein the HTML elements includes an HTML table having a plurality of cells, each cell having at least one of associated text content and associated image content, and the CSS code includes CSS code defining how the table and its associated content is to be rendered.

35. (Previously Presented) The method of claim 25, wherein the content associated with the HTML document includes a plurality of images that are referenced using respective Universal Resource Locators (URLs) in the HTML document, further comprising:

for each of the plurality of images;

retrieving the image via the URL for the image; and

generating a respective bounding box for the image; and

employing the respective bounding boxes to scale images in the rendered views of the HTML document.

36. (Previously Presented) The method of claim 25, wherein the HTML document includes a reference to an XML document containing XML content, further comprising:

retrieving the XML document and processing the XML content in connection with rendering the first representation of the HTML document, wherein the XML content is used to define one or more of the interpreted page layout, functionality, and design of the content associated with the HTML document.

37. (Previously Presented) A mobile hand-held device, comprising:

a processor;

a wireless communications device, to facilitate wireless communication with a network that supports access to the Internet;

a touch-sensitive display; and

flash memory, operatively coupled to the processor, in which a plurality of instructions are stored comprising a plurality of software components including an HTML rendering engine, wherein the instructions, when executed by the mobile hand-held device, enable the mobile hand-held device to,

receive an HTML document comprising HTML-based content including HTML code and cascading style sheet (CSS) code and content associated with the HTML document;

produce scalable content by,

processing the HTML-based content with the rendering engine to render an interpreted page layout, functionality, and design of the content associated with the HTML document in accordance with the HTML code and CSS code;

logically grouping selected content into HTML objects, each HTML object including associated display content;

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

for each HTML object,

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

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

creating a reference that links the HTML object to the vector that is generated; and

employ at least one of the scalable content or data derived therefrom to,

render a view of the HTML document on the touch-sensitive display at a first zoom level under which the HTML document is displayed to fit across a width of the touch-sensitive display; and

render views of the HTML document on the touch-sensitive display in response to associated user inputs to enable the HTML document to be viewed at various zoom levels and panned views while preserving the interpreted page

layout, functionality, and design of the content associated with the HTML document at each zoom level and panned view including the first zoom level.

38. (Previously Presented) The mobile hand-held device of claim 37, wherein the mobile hand-held device is a mobile phone.

39. (Previously Presented) The mobile hand-held device of claim 37, wherein the mobile hand-held device is a hand-held computer.

40. (Previously Presented) The mobile hand-held device of claim 37, wherein execution of the instructions further enables the user to zoom in on a user-selectable portion of a view of the HTML document in response to a user interface input made via the touch-sensitive display.

41. (Previously Presented) The mobile hand-held device of claim 37, wherein the views of the HTML document are rendered in real-time to effect zooming operations.

42. (Previously Presented) The mobile hand-held device of claim 41, wherein the zooming operations are effected in a fraction of a second.

43. (Previously Presented) The mobile hand-held device of claim 37, wherein execution of the instructions further enables the device to:

generate a vector-based display list associated with the scalable content; and

employ the vector-based display list to render views of the HTML document on the touch-sensitive display at different scale factors to effect zooming operations.

44. (Previously Presented) The mobile hand-held device of claim 37, wherein the HTML document is an HTML parent document for a Web page.

45. (Previously Presented) The mobile hand-held device of claim 37, wherein the HTML-based content includes an HTML table, and the CSS code includes CSS code defining how the table is to be formatted in the interpreted page layout page of the HTML document.

46. (Previously Presented) The mobile hand-held device of claim 37, wherein execution of the instructions further enables the device to:

for each HTML object,

generate a bounding box for the HTML object; and

employ the bounding boxes to interpret the interpreted page layout of the HTML document.

47. (Previously Presented) The mobile hand-held device of claim 33, wherein the HTML document includes references to a plurality of images, each reference comprising

a respective Universal Resource Locators (URLs), and wherein execution of the instructions performs further operations comprising:

for each of the plurality of images;

retrieving the image via the URL for the image; and

generating a respective bounding box for the image; and

employing the respective bounding boxes to scale images in the rendered views of the HTML document.

48. (New) The mobile hand-held device of claim 13, wherein the primary datum is an origin in a two-dimensional XY coordinate system and the vectors from the primary datum to the object datums for the HTML object bounding boxes comprise XY coordinates in the coordinate system.

49. (New) The method of claim 25, wherein the primary datum is an origin in a two-dimensional XY coordinate system and the vectors from the primary datum to the object datums for the HTML object bounding boxes comprise XY coordinates in the coordinate system.

Reason for Allowance

The following is an examiner's statement of reasons for allowance: Claims 13, 15-25 and 27-49 are allowed.

Interpreting the claims in light of the specification, Examiner finds the claimed invention is patentably distinct from the prior art made of record and **not relied upon is considered pertinent to applicant's disclos**ure, which set forth in the followings:

Van Ee (US20020030699A1 -Continuation In Part of No.09/062,364 filed 04/17/1998) discloses the "auto -zoom", within the context of a user-interface for control functionalities represented graphically by icons. … [Van: Para(s) 8-9]. Also Van further discloses the apparatus has a touch screen for enabling a user to interact with the apparatus. The system is operative to enable the user to select via the touch screen a portion (paragraph having width and height, column) of the image when displayed at a first scale. Upon the portion being selected the system renders the selected portion on the display at a second scale larger than the first scale (zoom-in) [Van: Para 10]. However, Van Ee fails to teach or fairly suggest discloses or suggests the generating the scalable vector representation includes, defining a primary datum corresponding to the interpreted page layout; for each HTML object, defining an object datum corresponding to a layout location datum for the HTML object's bounding box; generating a vector from the primary datum to the object datum for the HTML object's bounding box; and creating a reference that links the HTML object to the vector that is

generated…… as recited in amended independent Claims 13, 25 and previously presented in claim 37 and the specification in Para(s) 80 and 86-88 also in Fig. 4C.

Chithambaram et al. (US006674445B1 -Provisional No.60/159,069 filed 10/12/1999) discloses the indexing raster (i.e. Raster maps provide multiple zoom levels with each zoom level, by scaling existing raster tiles) and vector based for interacting and highlighting with user objects… [Chithambaram: @ Column 4 Line 60]; … The raster map on the PDA allows panning (virtual roaming paradigm), and zooming across discrete multiple levels. A smart-cache on thin client 102 allows the swapping of compact tiles from the database to memory, in a manner appropriate to the device [Chithambaram: @ Column 7 lines 1-10]. Also In Chithambaram: @ Col. 4 line 66, which discloses Raster maps provide multiple zoom levels with each zoom level comprising multiple tiles that allow for " virtual roaming" across a map. However, Chithambaram fails to teach or fairly suggest discloses or suggests the generating the scalable vector representation includes, defining a primary datum corresponding to the interpreted page layout; for each HTML object, defining an object datum corresponding to a layout location datum for the HTML object's bounding box; generating a vector from the primary datum to the object datum for the HTML object's bounding box; and creating a reference that links the HTML object to the vector that is generated…… as recited in amended independent Claims 13, 25 and previously presented in claim 37 and the specification in Para(s) 80 and 86-88 also in Fig. 4C.

Under the broadest reasonable interpretation of the claimed limitation which is consistence with the Applicant's Specification. The prior art cited above fails to teach all of the Applicant's claimed limitation. In particularly, the claimed invention advantageously provides a finer level of detail, particularly the generating the scalable vector representation includes, defining a primary datum corresponding to the interpreted page layout; for each HTML object, defining an object datum corresponding to a layout location datum for the HTML object's bounding box; generating a vector from the primary datum to the object datum for the HTML object's bounding box; and creating a reference that links the HTML object to the vector that is generated…… as recited in amended independent Claims 13, 25 and previously presented in claim 37 and the specification in Para(s) 80 and 86-88 also in Fig. 4C.

The Examiner asserts that the claims overcome the prior art of record as describes above when the limitations are read in combination with the respective claimed limitations in their entirety.

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."

Examiner Comments

Claims Claim(s) 13, 15-25 and 27-49 are allowed:

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 9AM - 5PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cesar Paula can be reached on (571)272-4128. 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/QUOC A TRAN/
Primary Examiner, Art Unit 2177

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	15/356,456	ROHRABAUGH ET AL.	
	Examiner	Art Unit	
	QUOC A. TRAN	2177	

All participants (applicant, applicant's representative, PTO personnel):

(1) *QUOC A. TRAN (USPTO)*. (3)_____.

(2) *Gary Rohrabaugh (Applicant)* . (4)_____.

Date of Interview: *18 June 2018*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *13,14,25,26 and 37*.

Identification of prior art discussed: *Van Ee (US20020030699A1 -Continuation In Part of No.09/062,364 filed 04/17/1998) and Chithambaram et al. (US006674445B1 -Provisional No.60/159,069 filed 10/12/1999)* .

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

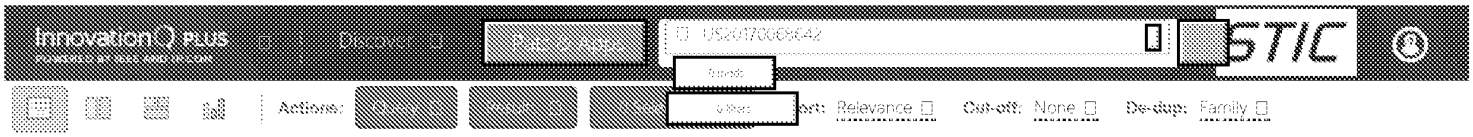
The Examiner is invited to contract the undersigned for any reason related to the advancement of this case. Applicant's Attorney agrees to the following: Claim(s) 13, 24-25 are currently amended to further clarification the claims invention and the allowable subject matter. Claim(s) 1-12, 14 and 26 are currently cancelled. Claim(s) 15-23 and 27-47 were previously presented. Claim(s) 48-49 are new. 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 .

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/QUOC A TRAN/ Primary Examiner, Art Unit 2177	



1 - 50 About 18.1M results

1. Scalable display of internet content on mobile devices

Mobile devices enabled to support resolution-independent scalable display of Internet (Web) content to allow Web pages to be scaled (zoomed) and panned for better viewing on smaller screen sizes. The mobile devices employ software-based processing of original Web content, including HTML-based...

CURRENT ASSIGNEES: SOFTVIEW LLC
US20110231746 | US APPLICATIONS | 22-SEP-2011

2. Method for rendering formatted content on a mobile device

CURRENT ASSIGNEES: BLACKBERRY LTD
EP1850639B1 | EPO PATENTS | 07-NOV-2007

3. Method for rendering formatted content on a mobile device

A method for transmitting formatted content to a mobile device having a small display screen comprises retrieving a page of formatted content, rendering the page as a graphic such as a JPEG that is sized for display on the small display screen, and transmitting the graphic to the requesting device...

CURRENT ASSIGNEES: BLACKBERRY LTD
US20060049031 | US APPLICATIONS | 02-MAR-2006

4. System and method for transferring web page data

A system and method are disclosed which may include accessing an Internet site by a proxy server; converting image data from the Internet site into a multiresolution representation; and transmitting the image data in said multiresolution representation to a client device.

CURRENT ASSIGNEES: MICROSOFT CORP
WO2006105158A2 | WIPO APPLICATIONS | 05-OCT-2006

5. System and method for transferring web page data

The system and method may include the method comprising, accessing an Internet site through the proxy server, and converting it into a multiresolution representation of the image data from the Internet site, and transmitting to the client device a plurality of image data resolution representation...

CURRENT ASSIGNEES: マイクロソフト コーポレーション
JP2008535093A | JAPAN APPLICATIONS | 28-AUG-2008

6. Method for rendering formatted content on a mobile device

A method for transmitting formatted content to a mobile device having a small display screen comprises retrieving a page of formatted content, rendering the page as a graphic such as a JPEG that is sized for display on the small display screen, and transmitting the graphic to the requesting device...

CURRENT ASSIGNEES: BLACKBERRY LTD
CA2516906C | CANADA PATENTS | 24-NOV-2009

7. System and method for delivery of documents over a computer network

A system and method for delivering a document by a first computer to a second computer over a computer network. A method of the present invention includes the following steps: (1) decomposing the document into nodes in accordance with a document model of the document; (2) associating the nodes with...

CURRENT ASSIGNEES: SYMANTEC CORP
US7343555 | US PATENTS | 11-MAR-2008

8. System and Method for Providing and Displaying Information Content

A system and method is provided for enabling an electronic device to efficiently access information content. A server browser accesses the information content over a network. The accessed information content is retrieved and adapted for presentation for the electronic device. A serializer...

CURRENT ASSIGNEES: NOKIA CORP
US20100228880 | US APPLICATIONS | 09-SEP-2010

9. A system and method for providing and displaying information content

A System and method is provided for enabling an electronic device to efficiently access information content. A server browser accesses the information content over a network. The accessed information content is retrieved and adapted for presentation for the electronic device. A serializer...

CURRENT ASSIGNEES: NOVARRA INC
WO2004040481A1 | WIPO APPLICATIONS | 13-MAY-2004

16. Creation and delivery of pre-rendered web pages for accelerated browsing

The process of rendering web pages can be significantly improved with a content delivery system that pre-renders web content for a client device. A web page "program" can be pre-executed and the result delivered to a requesting client device, rather than or before sending a traditional set of web...

CURRENT ASSIGNEES: AKAMAI TECH INC
US20150310026 | US APPLICATIONS | 29-OCT-2015

11. System and Method for Displaying Information Content with Selective Horizontal Scrolling

A system and method is provided for enabling an electronic device to efficiently access information content. A server browser accesses the information content over a network. The accessed information content is retrieved and adapted for presentation for the electronic device. A serializer...

CURRENT ASSIGNEES: NOKIA CORP
US20100268773 | US APPLICATIONS | 21-OCT-2010

12. Device-Specific Content Versioning

Embodiments relate to display of visual content on a client device using server-side rasterization of visual content. According to some embodiments, visual content is rendered on a server system, transformed into bitmaps compatible with the display attributes of a client device, and transmitted for...

Result #1 Prev Next

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	"9519729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L2	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L3	22	L2 & (datum same page same layout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L4	13	L3 & (datum with page with layout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L5	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L8	6	"9519729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L9	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L10	22	L9 & (datum same page same layout)	US-PGPUB;	OR	OFF	2018/06/14

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:00
L11	13	L10 & (datum with page with layout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L12	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:00
L15	211	("6073175" "6055408" "5869819" "5983218" "5992752" "6012087" "6045048" "6068188" "6076733" "6152369" "4549932" "4596632" "5190991" "5870552" "5892825" "5905251" "5937164" "6027024" "6070167" "6182097" "6185306" "6263371" "5365720" "5635033" "5774660" "5778367" "5888352" "5920856" "5996000" "6006264" "6026371" "6034661" "6131162" "6141678" "6157933" "6175830" "6175832" "6182091" "6205432" "6224387" "6224387" "6243750" "7895077" "4245397" "4279695" "4357758" "4399403" "4439881" "4443492" "4452669").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 10:52
L17	24989	(pda mobile handheld smartphone) & (CSS (cascad$3 near4 style near4 sheet))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 12:59
L19	4633770	(Scalable rateriz$3 scal$3 (vector with (graphic bitmap)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:16
L22	4787	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & (browser column row layout) & (XML HTMl (web near2 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:17
L23	4664156	((various plurality many different (in near4 out) toggl$3) & (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/06/14 13:17

			EPO; JPO; DERWENT; IBM_TDB			
L24	212	(browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blackberry (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near "S22" (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:18
L27	2649	"20110231746" "20060048051" "7343555" "20100228880" "20150310126" "20100268773" "20100194753" "8656046" "20020078093" "20060265476" "9542501" "20180089327" "20090234962" "20100333153" "6857102" "6925595" "6457030" "20120151408" "20020054090" "20180159955" "20100145794" "20060235941" "20070057911" "20100281042" "20070192739" "20160337426" "6657647" "7987420" "8301999" "7860309" "9922007" "20090235187" "20080163202" "20090177996" "7287220" "7574486" "7240067" "20060136571" "20080215672" "6185625" "20090150769" "7072984" "20120047176" "8700699" "8595308" "7219309" "20130085871" "8169628" "20100161826" "20100115452" "20160267060" "8533580" "20060062362" "8648858" "7500188" "20130088569" "9471556" "20110161843" "9996515" "6226642" "20050195221" "20100023855" "20070061488" "20020120779" "7894984" "7346649" "8806326" "6886013" "20020156702" "6353448" "9037975" "6133913" "20140344705"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:21
L28	259015	(G06F17/30905, G06F17/2247, G06F17/30899, G06F17/3089, G06F17/3092, G06Q30/02, H04L67/02, H04L57/2823).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:23
L30	279340	2 5 9 12 15 28 17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:26
L31	4634467	19 22	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/06/14 13:27

			EPO; JPO; DERWENT; IBM_TDB			
L32	4867540	30 31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:28
L33	4633770	32 & (Scalable rateriz$3 scal$3 (vector with (graphic bitmap)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:28
L34	2137	33 & (browser with (desktop PC computer client (work adj station)) same (browser near4 pda mobile blackberry (small near4 device) handheld portable tablet Droid)) & (span$4 zoom$4 enlag$3) & (XML HTML (web with (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:29
L35	2137	34 & (Scalable rasteriz$3 scal$3 (vector near3 (graphic bitmap)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:30
L36	1630	35 & ((various plurality many different (in near4 out) toggl$3) & (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:31
L37	1	36 & (bounding with box with HTML with object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:32
L38	147	36 & (bounding & box & object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:32
L39	32	36 & (bounding same box same object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/06/14 13:32

			IBM_TDB			
L40	0	39 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:33
L41	147	38 & (bounding & box & object)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:33
L42	15	41 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:33
L43	81	35 & ((various plurality) with (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:35
L44	12	43 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:35
L56	337	33 & ((defin$3 determin$3) same (data datum) same HTML same object same (location (bounding with (frame box coordinate))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:55
L57	120	56 & ((various plurality many different (in near4 out) toggl$3) & (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:55
L58	7	57 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/14 13:55
S1	6	"9519729".pn.	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2018/06/13 08:54

			EPO; JPO; DERWENT; IBM_TDB			
S2	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 08:55
S3	22	S2 & (datum same page same layout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 08:57
S4	13	S3 & (datum with page with layout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 08:59
S5	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 09:01
S8	6	"9519729".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 10:18
S9	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 10:18
S10	22	S9 & (datum same page same layout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 10:18
S11	13	S10 & (datum with page with layout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 10:18
S12	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT;	OR	OFF	2018/06/13 10:18

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB				

6/ 14/ 2018 2:21:35 PM
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Google Scholar | SVG and scalable vector representation of the HTML document allows mobile devices to zoom in and out in various levels | SIGN IN

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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

... G06F2212/10---Providing a specific technical effect; G06F2212/1048---**Scalability**. G---PHYSICS; G06 ... Because the client-side viewer manipulates **vectors**, there is no loss in quality as ... an FTP site 30, wherein the content is translated into a **scalable vector representation** (ie, SVF ...

Cited by 76 Related articles All 4 versions

[HTML] Web GIS in practice VIII: HTML5 and the canvas element for interactive online mapping

[HTML] biomedcentral.com
Full-Text @ USPTO-STIC

MNK Boulos, J Warren, J Gong, P Yue - 2010 - ij-healthgeographics.biomedcentral ...

... This frees us from a single projection, **zoom level** or **representation** (fetched per single server request), and **enables** a more dynamic, interactive, and narrative cartographic style ... GSS and **vector** data ... This would **represent** any feature tagged as a 'park' with a 3px green border ...

Cited by 74 Related articles All 23 versions

Ontology driven visualisation of maps with **SVG**-an example for semantic programming

[PDF] lmu.de

F Ipfelkofer, B Lorenz... - ... Visualization, 2006. IV ..., 2006 - ieeexplore.ieee.org

... Since **SVG** objects have a **Document** Object Model (DOM) **representation** [4] in the browser, script lan- guages like JavaScript can interact with it ... http://www.w3.org/ TR/SVGMobile, January 2003. [20] **Scalable Vector** Graphics (**SVG**) 1.1 Specification, W3C Recommendation ...

Cited by 20 Related articles All 18 versions

Handheld devices for applications using dynamic multimedia data

[PDF] qut.edu.au

B Pham, O Wong - Proceedings of the 2nd international conference on ... , 2004 - dl.acm.org

... PC environments from four perspectives: functionality, data type, communication and **scalability** (Pham, 2002 ... for graphically rich 2D content in **mobile** 3D games." **SVG** Open 2003 Conference and Exhibition: 2nd Annual Conference on **Scalable Vector** Graphics, Vancouver ...

Cited by 33 Related articles All 10 versions

Towards an open architecture for **vector** GIS

Full-Text @ USPTO-STIC

RI Dunfey, BM Gittings, JK Batcheller - Computers & Geosciences, 2006 - Elsevier

... OGC geometry type, OGC Description, Suitable **SVG** elements for **representation**. Point, A point in 2D space ... Peng and Zhang, 2004 Z.-R. Peng, C. ZhangThe role of geography markup language (GML), **scalable vector** graphics (**SVG**), and Web feature service (WFS ...

Cited by 52 Related articles All 6 versions

Document markup language and system and method for generating and displaying **documents** therein

RE Fortin, LR Bershad, BT Brady - US Patent App. 09/012,293, 2002 - Google Patents

... wherein the diagram object includes a plurality of shape objects which **represent** graphic markup ... [0065]. It should be understood that the invention is not limited to **representation** of processing ... Such information may be **represented** in a markup language either by an element tag ...

Cited by 79 Related articles All 2 versions

Web 2D graphics **file** formats

[PDF] ivan-herman.net
Full-Text @ USPTO-STIC

D Duce, I Herman, B Hopgood - Computer Graphics forum, 2002 - Wiley Online Library

... Adobe has been a significant supporter for the **scalable vector** graphics (**SVG**) **file** format for the

Web and Adobe ... These submissions resulted in a Working Group being formed to define a single language for **vector** drawings on the ... Some examples of the influences on **SVG** are ...
Cited by 39 Related articles All 15 versions

Method and system for streaming **documents**, e-mail attachments and maps to wireless **devices**

A Opala, R Ziegler - US Patent 7,808,511, 2010 - Google Patents
... A **vector** image pre-processor 610 receives as input a **vector** image as input, such as a **scalable vector** graphics (**SVG**) image, and generates as output a tiled multi ... Specifically, when the present invention is used to stream **vector** images, such as **SVG documents**, as frames ...
Cited by 46 Related articles All 5 versions

Real-time generalization of XML-encoded spatial data for the Web and **mobile devices**

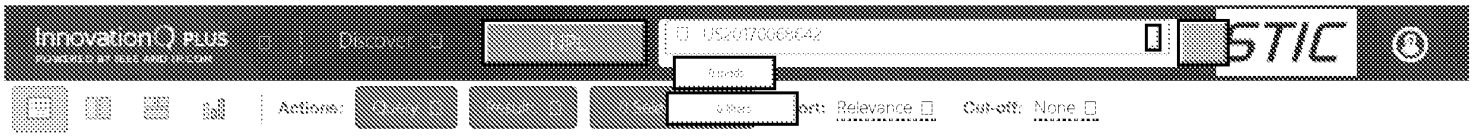
Full-Text @ USPTO-STIC

I Lehto, LT Sarjakoski - International Journal of Geographical ..., 2005 - Taylor & Francis
... 124, PhD dissertation, Kirkkonummi. KILPELA¨ INEN, T., 2001, Maintenance of **multiple representation** databases for topographic data. The Cartographic Journal, 37, pp. 101–107 ... **SVG**, 2001, **Scalable Vector** Graphics (**SVG**) 1.0 Specification ...
Cited by 41 Related articles

Scalable vector graphics and monitoring diagram displays

J Parakkuth, K Vasudevan - US Patent App. 10/839,300, 2004 - Google Patents
... System and method for dynamically generating a textual description for a visual data **representation** ... en) *, 2012-12-26, 2013-04-10, 江苏西电南自智能电力设备有限公司, Method for embedding dynamic real-time monitoring chart in **scalable vector** graphics (**SVG**) interface ...
Cited by 34 Related articles All 2 versions

Google
1 2 3 4 5 6 7 8 9 10
Previous 2 Next



1. Pixel Navigator - a simple mobile Internet paradigm

The rise of the World Wide Web and the market growth of mobile devices with advanced data capability make the mobile Internet the inevitable next big wave of technology. Due to the form factor limitation, a mobile device will never be used as a Web browsing tool like its desktop counterpart. People...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2003 | 2003 Symposium on Applications and the Internet, 2003. Proceedings. (Page(s): 394-397)

2. Adapting to network and client variation using infrastructural proxies: lessons and perspectives

Today's Internet clients vary widely with respect to both hardware and software properties: screen size, color depth, effective bandwidth, processing power, and the ability to handle different data formats. The order-of-magnitude span of this variation is too large to hide at the network level,...

IEEE Xplore | IEEE PERIODICALS | 01-AUG-1998 | IEEE Personal Communications

3. World Wide Web: whence, whither, what next?

The World Wide Web (WWW) has become, next to electronic mail, the most popular Internet application. It has been a major contributor in turning the Internet into a household word. The WWW allows users to retrieve text and multimedia objects from servers located throughout the world, with objects...

IEEE Xplore | IEEE PERIODICALS | 01-MAR-1996 | IEEE Network

4. Web interaction using very small Internet devices

Internet-enabled cell phones typically accommodate only three to 12 text lines, and their design emphasizes portability. Web interaction has, so far, been a secondary concern. For the most part, automated techniques to address the feature gap between the desktop and these phonetops rely on the...

IEEE Xplore | IEEE PERIODICALS | 01-OCT-2002 | Computer

5. Thin Client Visualization

We have developed a Web 2.0 thin client visualization framework called GeoBoosttrade. Our framework focuses on geospatial visualization and using scalable vector graphics (SVG), AJAX, RSS and GeoRSS we have built a complete thin client component set. Our component set provides a rich user experience...

IEEE Xplore | IEEE CONFERENCES | 01-OCT-2007 | 2007 IEEE Symposium on Visual Analytics Science and Technology (Page(s): 51-58)

6. Web GIS in practice VIII: HTML5 and the canvas element for interactive online mapping

HTML5 is being developed as the next major revision of HTML (HyperText Markup Language), the core markup language of the World Wide Web. It aims at reducing the need for proprietary, plug-in-based rich Internet application (RIA) technologies such as Adobe Flash. The canvas element is part of HTML5...

PMC2808837 | PUBMED CENTRAL | 08-MAR-2010 | International Journal of Health Geographics, 9, 14

7. FACADE - a framework for context-aware content adaptation and delivery

Modern technology promises mobile users Internet connectivity anytime, anywhere, using any device. However, given the constrained capabilities of mobile devices, the limited bandwidth of wireless networks and the varying personal sphere, effective information access requires the development of new...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2004 | Proceedings. Second Annual Conference on Communication Networks and Services Research, 2004. (Page(s): 46-55)

8. Globally progressive interactive web delivery

This paper suggests that since web browsing is an interactive process and downloading a web page can take several seconds to several minutes over slow links, the information presented to the user during this time is important. We present new metrics and visualization techniques to illustrate and...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-1999 | IEEE INFOCOM '99. Conference on Computer Communications. Proceedings. Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies. The Future Is Now (Cat. No.99CH36320)

9. Addressing the challenges of Web applications on mobile handheld devices

Access to Web applications using hand-held devices is becoming a necessity for gathering information, conducting transactions, and interacting with people, and other information systems. However, developing and deploying Web applications on mobile devices is not straightforward as it might sound....

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2005 | International Conference on Mobile Business (ICMB'05) (Page(s): 199-205)

10. War of the Mobile Browsers

Wireless applications for mobile Web browsers can enrich user experience beyond the desktop environment. Server-transcoding and client rendering enable the wireless Web, while open platforms give applications developers extensions to expand mobile software's future.

IEEE Xplore | IEEE PERIODICALS | 01-JAN-2009 | IEEE Pervasive Computing

11. Image transcoding proxy for mobile internet access

With advances in wireless and portable devices technologies, a new paradigm called mobile computing is promising to make it possible for mobile users to access information "anywhere anytime". This paradigm, however, faces many technical challenges such as limited wireless bandwidth and high error...

IEEE Xplore | IEEE CONFERENCES | 01-JAN-2002 | Proceedings. IEEE 56th Vehicular Technology Conference

12. Web tools for large-scale 3D biological images and atlases

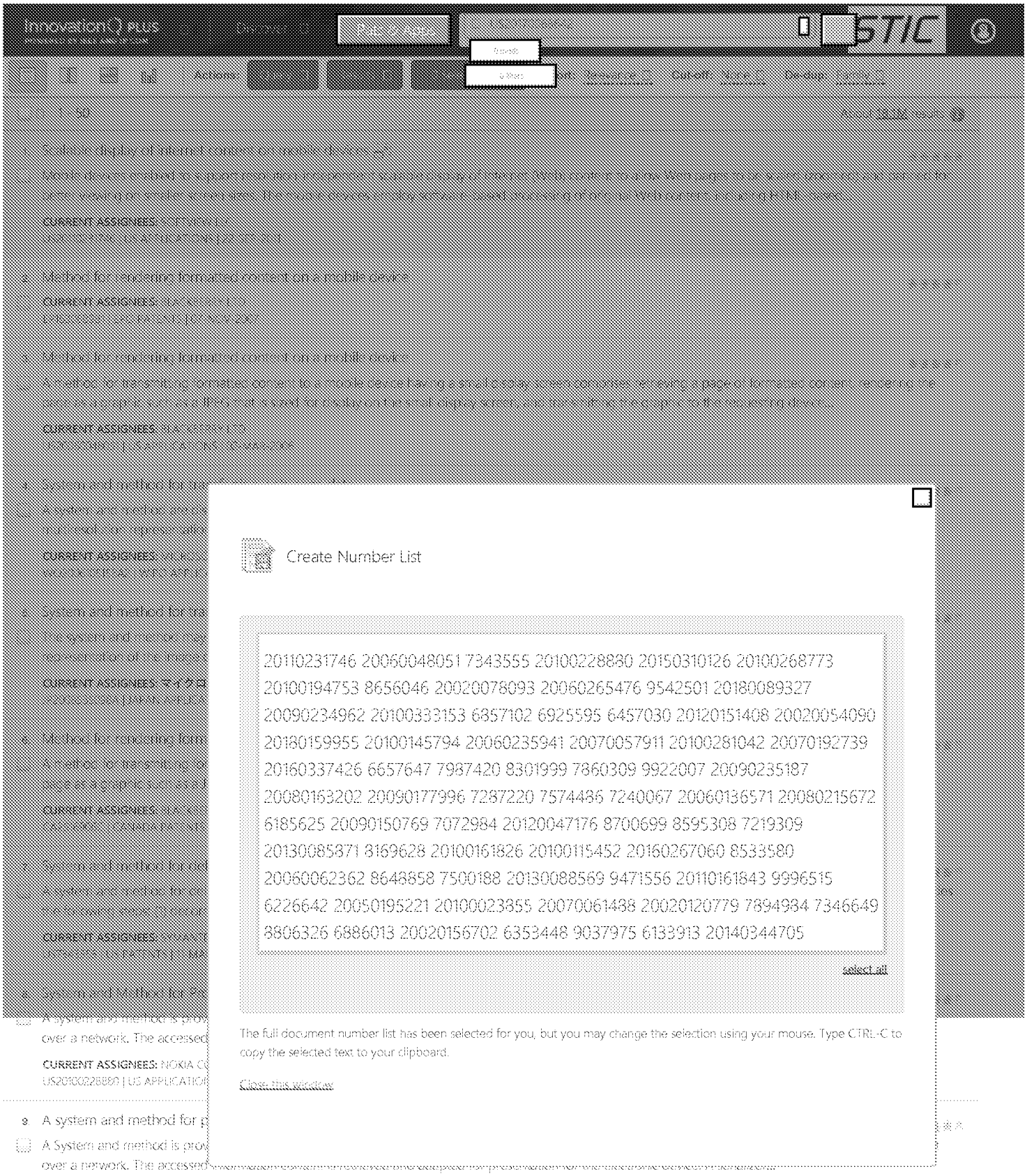
Background Large-scale volumetric biomedical image data of three or more dimensions are a significant challenge for distributed browsing and visualisation. Many images now exceed 10GB which for most users is too large to handle in terms of computer RAM and network bandwidth. This is aggravated when...

PMC3412715 | PUBMED CENTRAL | 07-JUN-2012 | BMC Bioinformatics, 13, 122

13. Rapid display of Web content: a simple method for prefetching Web files

Increasing the speed of access to Web sites, whose presentation relies more and more on sophisticated graphics and multimedia, is very desirable from the point of view of the home user connected via a voice-band modem and the emerging wireless subscriber market. More sophisticated modulation...

Result #1 of 5: Prev Next



9. A system and method for p

A System and method is pro
over a network. The accessed

CURRENT ASSIGNEES: NOVARRA INC
WO2004040481A1 | WIPO APPLICATIONS | 13-MAY-2004

16. Creation and delivery of pre-rendered web pages for accelerated browsing

The process of rendering web pages can be significantly improved with a content delivery system that pre-renders web content for a client device. A web page "program" can be pre-executed and the result delivered to a requesting client device, rather than or before sending a traditional set of web...

CURRENT ASSIGNEES: AKAMAI TECH INC
US20150310026 | US APPLICATIONS | 29-OCT-2015

11. System and Method for Displaying Information Content with Selective Horizontal Scrolling

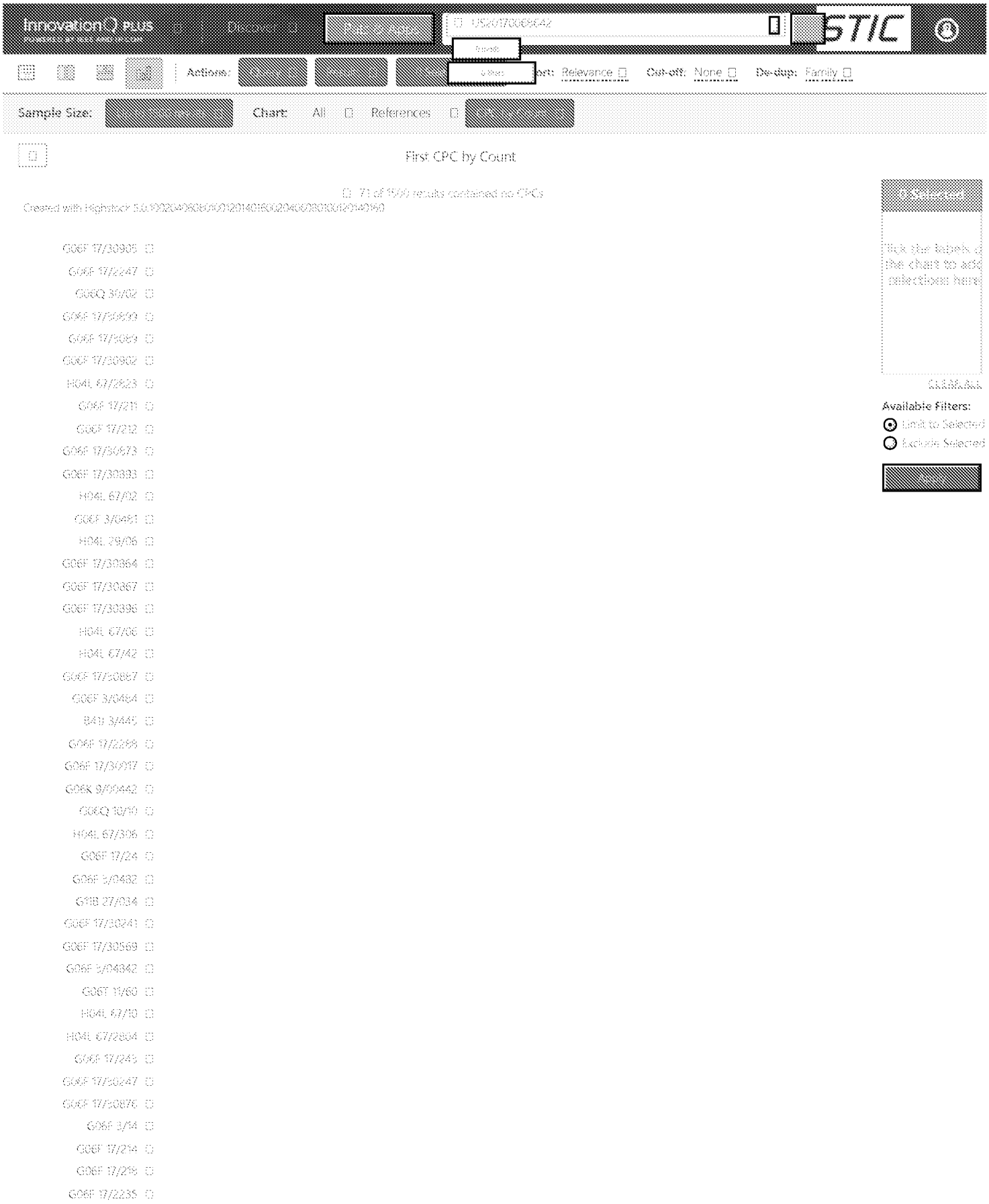
A system and method is provided for enabling an electronic device to efficiently access information content. A server browser accesses the information content over a network. The accessed information content is retrieved and adapted for presentation for the electronic device. A serializer...

CURRENT ASSIGNEES: NOKIA CORP
US20100268773 | US APPLICATIONS | 21-OCT-2010

12. Device-Specific Content Versioning

Embodiments relate to display of visual content on a client device using server-side rasterization of visual content. According to some embodiments, visual content is rendered on a server system, transformed into bitmaps compatible with the display attributes of a client device, and transmitted for...

Result #1  Prev Next


Innovation Q PLUS
US20170068642
STIC
Actions:
Relevance
Cut-off:
None
De-dup:
Family
Sample Size:
Chart:
All
References
First CPC by Count
71 of 1000 results contained no CPCs
Created with Highstock 5.0.10
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
0
20
40
60
80
100
120
140
160
0 Selected
Tick the labels in the chart to add selections here
Clear All
Available Filters:
Limit to Selected
Exclude Selected
Apply
G06F 17/30905
G06F 17/2247
G06Q 30/02
G06F 17/30539
G06F 17/3089
G06F 17/30902
H04L 67/2823
G06F 17/211
G06F 17/212
G06F 17/30673
G06F 17/30893
H04L 67/02
G06F 3/0481
H04L 29/06
G06F 17/30864
G06F 17/30867
G06F 17/30896
H04L 67/06
H04L 67/42
G06F 17/30827
G06F 3/0484
B41J 3/445
G06F 17/2288
G06F 17/30017
G06K 9/00442
G06Q 10/10
H04L 67/306
G06F 17/24
G06F 3/0482
G11B 27/034
G06F 17/30241
G06F 17/30569
G06F 3/04842
G06T 11/60
H04L 67/10
H04L 67/2804
G06F 17/245
G06F 17/30247
G06F 17/30876
G06F 3/14
G06F 17/214
G06F 17/218
G06F 17/2235

G06F 17/227 ☐

G06F 17/241 ☐

G06F 17/30011 ☐

G06F 17/3002 ☐

G06F 17/30879 ☐

G06F 17/30882 ☐

G06F 17/30884 ☐



Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15356456	ROHRABAUGH ET AL.
	Examiner	Art Unit
	QUOC A TRAN	2177

✓	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	11/13/2017	06/19/2018							
	1	✓	-							
	2	-	-							
	3	-	-							
	4	-	-							
	5	-	-							
	6	-	-							
	7	-	-							
	8	-	-							
	9	-	-							
	10	-	-							
	11	-	-							
	12	-	-							
1	13		=							
	14		-							
2	15		=							
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14	27		=							
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18	31		=							
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20	33		=							
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23	35		=							
24	36		=							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15356456	ROHRABAUGH ET AL.
	Examiner	**Art Unit**
	QUOC A TRAN	2177

✓	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	11/13/2017	06/19/2018							
26	37		=							
27	38		=							
28	39		=							
29	40		=							
30	41		=							
31	42		=							
32	43		=							
33	44		=							
34	45		=							
35	46		=							
21	47		=							
12	48		=							
25	49		=							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15356456	ROHRABAUGH ET AL.
	Examiner	Art Unit
	QUOC A TRAN	2177

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 17/30905; 17/30900; 17/30899; 17/3089 & 17/2247	11/13/2017	QT
G06Q 30/02 & H04L 67/02; 67/2823	11/13/2017	QT
Updated	6/19/2018	QT

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
EAST (USPAT, USPGPUB, JPO, USOCR, FPRS, EPO, DERWENT & IBM_TDB)	11/13/2017	QT
NPL Searched (IP.COM Digital Library)	11/13/2017	QT
Inventors Searched Conducted- Considered Double Patent Rejection	11/13/2017	QT
Text Searched CPC G06F 17/30905; 17/30900; 17/30899; 17/3089 & 17/2247	11/13/2017	QT
Text Searched CPC G06Q 30/02 & H04L 67/02; 67/2823	11/13/2017	QT
Updated	6/19/2018	QT
NPL Searched (Google Scholar Digital Library)	6/19/2018	QT
NPL Searched (IEEE Digital Library)	6/19/2018	QT
STIC 2100 PLUS Searched	6/19/2018	QT
Interference Searched EAST (USPAT, USPGPUB)	6/19/2018	QT

	/QUOC A TRAN/ Primary Examiner.Art Unit 2177

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
G06F	17/30905; 17/30900; 17/30899; 17/3089 & 17/2247	6/19/2018	QT
G06Q & H04L	G06Q 30/02 & H04L 67/02; 67/2823	6/19/2018	QT

	/QUOC A TRAN/ Primary Examiner.Art Unit 2177

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Art Unit	2177
Examiner Name	Quoc A. Tran
Attorney Docket Number	161539-0002(P001XC3)

U.S.PATENTS						
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	6700589		2004-03-02	Canelones et al.	
	2	7142205		2006-11-28	Chithambaram et al.	
	3	7236173		2007-06-26	Chithambaram et al.	
	4	6874131		2005-03-29	Blumberg	
	5	6449639		2002-09-10	Blumberg	
	6	6134566		2000-10-17	Berman et al.	
	7	6535896		2003-03-18	Britton et al.	
	8	6605120		2003-08-12	Fields et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	9	6272484		2001-08-07	Martin et al.	
	10	6300947		2001-10-09	Kanevsky	
	11	6650343		2003-11-18	Fujita et al.	
	12	6307562		2001-10-23	Taivalsaari	
	13	6003046		1999-12-14	Nielsen	
	14	6556217		2003-04-29	Makipaa et al	
	15	5987256		1999-11-16	Wu etal.	
	16	7051276		2006-05-23	Mogilevsky et al	
	17	6826727		2004-11-30	Mohr et al.	
	18	6795089		2004-09-21	Rajarajan et al.	
	19	7737993		2010-06-15	Kaasila et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	20	6791571		2004-09-14	Lamb	
	21	7036076		2006-04-25	Anwar	
	22	6925597		2005-08-02	Anwar	
	23	6343377		2002-01-29	Gessner et al.	
	24	5897644		1999-04-27	Nielsen	
	25	7162493		2007-01-09	Weiss et al.	
	26	6161114		2000-12-12	King et al.	
	27	7055095		2006-05-30	Anwar	
	28	7009626		2006-03-07	Anwar	
	29	6857102		2005-02-15	Bickmore et al.	
	30	5920327		1999-07-06	Seidensticker, Jr.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	31	7441196		2008-10-21	Gottfurcht et al.	
	32	7222306		2007-05-22	Kaasila et al.	
	33	7287220		2007-10-23	Kaasila et al.	
	34	6873343		2005-03-29	Chui	
	35	6674445		2004-01-06	Chitambaram et al.	
	36	5966135		1999-10-12	Roy et al.	
	37	6011905		2000-01-04	Huttenlocher et al.	
	38	6057854		2000-05-02	Davis, Jr., et al.	
	39	6337693		2002-01-08	Roy et al.	
	40	7450114		2008-11-11	Anwar et al.	
	41	6456305		2002-09-24	Qureshi et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	42	5615384		1997-03-25	Allard et al.	
	43	5952994		1999-09-14	Ong et al.	
	44	6553410		2003-04-22	Kikinis	
	45	6829746		2004-12-07	Schwerdtfeger et al.	
	46	6925595		2005-08-02	Whitledge et al.	
	47	6421733		2002-07-16	Tso et al.	
	48	6457030		2002-09-24	Adams et al.	
	49	7308649		2007-12-11	Ehrich et al.	
	50	6704024		2004-03-09	Robotham et al.	
	51	7823083		2010-10-26	Robotham et al.	
	52	7831926		2010-11-09	Robotham et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	53	6684087		2004-01-27	Yu et al.	
	54	6674445		2004-06-06	Chithambaram et al.	
	55	5966135		1999-10-12	Roy et al.	
	56	6011905		2000-01-04	Huttenlocher et al.	
	57	6057854		2000-05-02	Davis, Jr. et al.	
	58	6337693		2002-01-08	Roy et al.	
	59	7023572		2006-04-04	Tuli	
	60	7072984		2006-07-04	Polonsky et al.	
	61	7219309		2007-05-15	Kaasila et al.	
	62	5956025		1999-09-21	Goulden et al.	
	63	6076166		2000-06-13	Moshfeghi et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	64	6211856		2001-04-03	Choi et al.	
	65	6456308		2002-09-24	Agranet et al.	
	66	6466203		2002-10-15	Van Ee	
	67	6546397		2003-04-08	Rempell	
	68	6615212		2003-09-02	Dutta et al.	
	69	6781600		2004-08-24	Anwar	
	70	6886034		2005-04-26	Blumberg	
	71	6978418		2005-12-20	Bain et al.	
	72	6996533		2006-02-07	Ikeda et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

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	1	20070080958		2007-04-12	Chithambaram et al.	
	2	20020023110		2002-02-21	Fortin et al.	
	3	20020158908		2002-10-31	Vaajala et al.	
	4	20040049598		2004-03-11	Tucker et al.	
	5	20050131887		2005-06-16	Rohrabaugh et al.	
	6	20020091738		2002-07-11	Rohrabaugh et al.	
	7	20010015719		2001-08-23	Van Ee et al.	
	8	20020030669		2002-03-14	Van Ee, Jan	
	9	20050144256		2005-06-30	Blumberg, Robert	
	10	20020112237		2002-08-15	Ketts, Brett R.	
	11	20010047428		2001-11-29	Hunter, Kevin D.	

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FOREIGN PATENT DOCUMENTS

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	1	200071514	AU		2001-05-17	Canon KK		☐
	2	00091298	GB		2000-04-14	Picsel Technologies Limited		☐
	3	2344197	GB		2000-05-31	Carlino		☐
	4	10-326169	JP		1998-12-08	Toshiba Corp.		☐
	5	04-259029	JP		1992-09-14	Fujitsu Ltd.		☐
	6	04-291675	JP		1992-10-15	Fujitsu Ltd.		☐
	7	05-165459	JP		1993-07-02	Toshiba Corp.		☐
	8	09-009160	JP		1997-01-10	Sony Corp.		☐
	9	09-016788	JP		1997-01-17	Toppan Printing Co. Ltd.		☐

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	10	09319537	JP		1997-12-12	Sharp Corp.		☐
	11	10-069473	JP		1998-03-10	Sharp Corp.		☐
	12	10-326136	JP		1998-12-08	Sun Microsyst Inc.		☐
	13	10-326244	JP		1998-12-08	Toyota Motor Corp.		☐
	14	11-015749	JP		1999-01-22	Nippon Telegr & Teleph Corp.		☐
	15	11-250009	JP		1999-09-17	Uniden Corp.		☐
	16	2000-076473	JP		2000-03-14	Fuji Xerox Co Ltd.		☐
	17	2000-090001	JP		2000-03-31	Spyglass Inc.		☐
	18	200-0115527	JP		2000-04-21	Canon Inc.		☐
	19	2000-222330	JP		2000-08-11	NEC Corp.		☐
	20	2000-267967	JP		2000-09-29	Fuji Xerox Corp.		☐

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	21	2000-330547	JP		2000-11-30	Fluency Kenkysho:KK		☐
	22	2001-043125	JP		2001-02-16	Sun Microsyst Inc.		☐
	23	09-305472	JP		1997-11-28	Hitachi Ltd.		☐
	24	10-162002	JP		1998-06-19	Matsushita Electric Ind Co Ltd.		☐
	25	11-015819	JP		1999-01-22	NEC Corp.		☐
	26	2000-284884	JP		2000-10-13	Matsushita Electric Ind Co Ltd.		☐
	27	10-021224	JP		1998-01-23	Toshiba Corp.		☐
	28	10334082	JP		1998-12-18	A Hong Kong Company		☐
	29	9937095	WO		1999-07-22	Koninklijke Philips Electronics N.V.		☐

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NON-PATENT LITERATURE DOCUMENTS

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Examiner Signature	/QUOC A TRAN/	Date Considered	06/19/2018

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Doc code: IDS
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	1	RICK POTTS, Mozilla, NGLayout Embedding APIs, Last modified, March 9, 1999, p. 1-12.	☐
	2	MICHAEL PLITKINS, Mozilla, View System, January 14, 1999, p. 1-4.	☐
	3	(Author Unknown), Mozilla, Threading Model, October 29, 1998, p. 1-3.	☐
	4	RICK GESSNER, Mozilla, HTML Tag Handling Chart, October 23, 1998, p. 1-9.	☐
	5	CHRIS WATERSON, Gecko Overview, June 10, 2002, p. 1-36.	☐
	6	MIKE SHAVER, MICHAEL ANG, Inside the Lizard: A Look at the Mozilla Technology and Architecture, May 29, 2000, p. 1-6.	☐
	7	KIPP HICKMAN, Mozilla, Base Library Roadmap, July 15, 1998, p. 1-2.	☐
	8	KIPP HICKMAN, Mozilla, The Content Model, July 15, 1998, p. 1-3.	☐
	9	VIDUR APPARAO, TOM PIXLEY, Mozilla, The NGLayout Document Object Model (DOM) Roadmap, May 26, 2001, p. 1-12.	☐
	10	CHRIS KARNAZE, Mozilla, Forms, January 14, 1999, p. 1-4.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	11	TROY CHEVALIER et al., Mozilla, New Layout: HTML Layout, July 20, 1998, p. 1-7.	☐
	12	(Author Unknown), Mozilla, Layout Engine Technical Documentation, April 4, 2008, p. 1-3.	☐
	13	JAMES EVERINGHAM, Mozilla, BAM Roadmap, July 15, 1998, p. 1-6.	☐
	14	RICK GESSNER, Mozilla, Parsing Engine, January 14, 1999, p. 1-5.	☐
	15	MICHAEL PLITKINS, Mozilla, Java and Plugins, January 14, 1999, p. 1-3.	☐
	16	MICHAEL PLITKINS, Mozilla, Printing, January 14, 1999, p. 1-2.	☐
	17	MICHAEL PLITKINS, Mozilla, Redering, January 14, 1999, p. 1-6.	☐
	18	PETER LINSS, Mozilla, Style System, July 15, 1998, p. 1-5.	☐
	19	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, May 10, 2010, 58 pages.	☐
	20	Report on the Filing or Determination of an Action Regarding a Patent or Trademark Case 1:10-cv-00389-JJF-LPS, May 11, 2010, 1 page.	☐
	21	MICHAEL PLITKINS, Mozilla, View System, Last modified January 14, 1999, p. 1-4.	☐

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	22	(Author Unknown), Mozilla, Layout Engine Technical Documentation, Last modified April 4, 2008, p. 1-3.	☐
	23	AT&T Mobility LLC's First Supplemental Objections and Responses to Softview LLC's Amended First Set of 5 Interrogatories (Nos. 1-8 to ATIM; Nos. 1-7 and 10 in Softview LLC's Amended First Set of Interrogatories to D Defendants, July 12, 2011 (39 pages).	☐
	24	Opera 3.60 Help Document, available on May 12, 1999 (e.g. PDF pages 7-28, 36-87).	☐
	25	SVF XML (http://www.svf.org/svfxml.html) p. 1-18 (Date Unknown).	☐
	26	Defendant Apple Inc.'s Answer, Defenses, and Counterclaims to First Amended Complaint (10-cv-00389, D.Del), January 3, 2011, p. 1-22	☐
	27	Defendant AT&T Mobility, LLC.'s Answer, Defenses, and Counterclaims to First Amended Complaint (10-cv-00389, D. Del.), January 3, 2011, p. 1-22.	☐
	28	Plaintiff SoftView LLC's Reply to Defendant Apple Inc.'s Defenses and Counterclaims (10-cv-00389, D. Del.), January 24, 2011, p. 1-8.	☐
	29	SoftView LLC's Brief In Support of Its Motion for Leave to Amend Its Complaint (1 0-cv-00389, D. Del.), November 10, 2011, p. 1-9.	☐
	30	SoftView LLC's First Amended Complaint (10-cv-00389 D. Del.), December 3, 2010, p. 1-7.	☐
	31	KIPP HICKMAN, Mozilla, Base Library Roadmap, Last modified July 15, 1998, p. 1.	☐
	32	KIPP HICKMAN, Mozilla, The Content Model, Last modified July 15, 1998, p. 1.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	33	Benjamin B Bederson et al., "Pad++, September 19, 1995, p. 1-30.	☐
	34	Dennis, "Webraska Joins W3C for Next Generation Internet Graphics," Newsbytes, May 8, 2000, p. 1	☐
	35	Jones et al. "From the large screen to the small screen- retaining the designer's design for effective user interaction," 3 IEEE Colloquium on Issues for Networked Interpersonal Communicators, May 1997, p. 3/1-3/4.	☐
	36	Pacchiano, "Adobe's New View," Computer Shopper, Vol. 19, No.4, April 1999, p. 346.	☐
	37	"TADPOLE TECHNOLOGY: I LOG technology within Tadpole's Cartesia Red line system making repairs simpler," M2 Presswire, January 1999. p. 1-5.	☐
	38	Thryft, "Wireless link ramped for 'always on' Internet," EETimes, March 23, 1999, p. 1-2., https://www.eetimes.com/document.asp?doc_ID=1138842.	☐
	39	Bharadvaj et al., "An Active Transcoding Proxy to Support Mobile Web Access," Proc. of the IEEE Symposium on Reliable Distributed Systems, 1998, p. 1-6.	☐
	40	Bjork, et al., "WEST: A Web Browser for Small Terminals," Proceedings of the 12 ACM symposium on User Interface Software and Technology, 1999, p. 1-8.	☐
	41	Holmquist, "The Zoom Browser," Human IT Tridskrift for studier av IT ur ett humanvetenskaplight perspektive, March, 1998, p. 1-4.	☐
	42	Knudsen, Jonathan, "Java 20 Graphics," O'Reilly and Associates, Inc., May 5, 1999 (Electronic Form), p. 1-287.	☐
	43	Official USPTO Action for Application Serial No. 11/868,124 Mailed August 24, 2010, p. 1-15.	☐

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	Attorney Docket Number	161539-0002(P001XC3)

	44	US Provisional Application No. 60/288,287 filed May 2, 2001, 144 pages.	☐
	45	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 (HCIInternational '97), 1997, p. 719-722.	☐
	46	US Provisional Application No. 60/203,494 filed May 11, 2000, 20 pages.	☐
	47	BENJAMIN B. BEDERSON ET AL., Pad++: A Zoomable Graphical Sketchpad For Exploring Alternate Interface Physics, September 19, 1995, p. 1-30, http://www.cs.unm.edu/pad++.	☐
	48	BENJAMIN B. BEDERSON ET AL., A Zooming Web Browser, SPIE 1996, http:/www.cs.umd.edu/hcil/jazz/learn/papers/spie-96-webbrowser.pdf, 1996, entirety (pages not numbered).	☐
	49	SVF XML http://www.svf.org/svfml.html, date unknown, p. 1-18.	☐
	50	Introduction to SVG, part of WD-SVG-19990211, http://www.w3.org/TR/1999/ WD-SVG-19990211/intro. html., date unknown, p. 1-3.	☐

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EXAMINER SIGNATURE

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	1	Holmquist "Flip Zooming: Focus+Context Visualization of Linearly Ordered Discrete Visual Structures," Published 2000, p. 27-53.	☐
	2	Notice of Allowance for US Application Serial No. 11/735,482 dated October 4, 2010, 40 pages.	☐
	3	US App. No. 11/738,486 Applicants Comments on Reasons for Allowance dated September 9, 2010, 63 pages.	☐
	4	SoftView Motion for Leave to Amend Complaint, SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, November 10, 2011, 1 page.	☐
	5	SoftView Brief in Support of Motion to Amend Complaint, SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, November 10, 2011, 21 pages.	☐
	6	SoftView's First Amended Complaint (Proposed), SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, December 3, 2010, 98 pages.	☐
	7	Defendant Apple Corporation Answer to Complaint (Revised). SoftView LLC v. Apple Inc. et al. 2 Case No. 1:10-cv-00389-JJF-LPS. July 12, 2010, 10 pages.	☐
	8	Defendant AT&T Corporation Answer to Complaint. SoftView LLC v. Apple Inc. et al. 3 Case No. 1:10-cv-00389-JJF-LPS, July 12, 2010, 10 pages.	☐
	9	SoftView LLC reply to Apple's Answer (Revised), SoftView LLC v. Apple Inc. et al. Case No. 1:10-cv-00389-JJF-LPS, August 2, 2010, 5 pages.	☐
	10	Combined Printout of HTML Help Files for Opera 3.60 (HTML pages printed to PDF docs and combined), May 12, 1999, 3 pages.	☐
	11	Non-Final Office Action for US Application Serial No. 09/828,511 mailed on March 22, 2004, number of pages unknown.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

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	12	Notice of Allowance for US Application Serial No. 11/738,486 dated June 9, 2010, pages 29.	☐
	13	Notice of Allowance for US Application Serial No. 11/738,932 dated June 10, 2010, pages 6.	☐
	14	Non-Final Office Action for US Application Serial No. 11/735,482, Mailed April 27, 2010, pages 8.	☐
	15	US Provisional Application No. 60/288,287 filed May 2, 2001, pages 144.	☐
	16	US Provisional Application No. 60/296,275 filed June 5, 2001, pages 253.	☐
	17	US Provisional Application No. 60/296,237 filed June 5, 2001, pages 261.	☐
	18	US Provisional Application No. 60/296,274 filed June 5, 2001, pages 270.	☐
	19	US Provisional Application No. 60/296,284 filed June 5, 2001, pages 267.	☐
	20	US Provisional Application No. 60/296,231 filed June 5, 2001, pages 256.	☐
	21	US Provisional Application No. 60/296,224 filed June 5, 2001, pages 267.	☐
	22	US Provisional Application No. 60/296,273 filed June 5, 2001, pages 248.	☐

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	23	US Provisional Application No. 60/296,283 filed June 5, 2001, pages 251.	☐
	24	US Provisional Application No. 60/296,281 filed June 5, 2001, pages 252.	☐
	25	US Provisional Application No. 60/296,327 filed June 5, 2001, pages 250.	☐
	26	HIGHTOWER, RON R., et al., Graphical Multiscale Web Histories: A Study of PadPrints, Proceedings of the 11th Annual ACM Symposium on User Interface Software and Technology, November 1998, pages 1-8, HCIL Technical Report No. 98-06, Albuquerque, New Mexico.	☐
	27	IEEE Recommended Practice for Software Requirements Specifications, Software Engineering Standards Committee of the IEEE Computer Society, IEEE Std 830-1998, June 25, 1998, pages 1-37, New York, New York.	☐
	28	GETTYS, JAMES, et al., The (Re)Architecture of the X Window System, Proceedings of the 2004 Linux Symposium, July 2003, pages 1-12, Volume 1, HP Cambridge Research Laboratory, Ottawa, ON, Canada.	☐
	29	HAMBURGEN, WILLIAM R. et al., Itsy: Stretching the Bounds of Mobile Computing, Computing Practices, April 2001, pages 28-36, Volume 34, Issue: 4, IEEE, Houston, Texas.	☐
	30	BEDERSON, BEJAMIN B., et al., DateLens: A Fisheye Calendar Interface for PDAs, Human-Computer Interaction Laboratory, Institute for Advanced Computer Studies, September 2002, pages 1-32, College Park, Maryland.	☐
	31	Excerpts from the May 3, 2013 deposition transcript of Scott Forstall (Apple Inc., et al., Civil Action No. 10-389-LPS) ("Forstall Depo.") submitted with the July 17, 2017 information disclosure statement in inter partes reexamination Serial No. 95/000,635, 12 pages.	☐
	32	HIGHTOWER, RON R., et al. "PadPrints: graphical multiscale Web histories." Proceedings of the 11th annual ACM symposium on User interface software and technology. ACM, 1998, 8 pages.	☐
	33	Intel StrongARM* SA-1110 Microprocessor Brief Datasheet, Intel, April 2000, pages 1-10, www.datasheetcatalog.com.	☐

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	34	BEDERSON, BEN, Piccolo.NET: A Scalable Structured Graphics Toolkit, University of Maryland, Human-Computer Interaction Lab, Computer Science Department, PowerPoint presentation, pages 1-22.	☐
	35	KARLSON, Amy K., AppLens and LaunchTile: Two Designs for One-Handed Thumb Use on Small Devices, Association for Computing Machinery, Inc., Proceedings of CHI 2005, January 1, 2005, pages 201-2010, Portland, Oregon.	☐
	36	Mozilla Hacker's Getting Started Guide, An Introduction to Hacking Mozilla., http://www-archive.mozilla.org/hacking/coding-introduction.html, 1998-2009 by individual mozilla.org contibutors, last modified September 24, 2004, printed on November 21, 2016, 15 pages.	☐
	37	Mozilla Hacker's Getting Started Guide, An Introduction to Hacking Mozilla., https://web.archive.org/web/20020802223454/http://www.mozilla.org/hacking/coding-introduction.html, 1998-2002, last modified May 14, 2002, printed on November 21, 2016, 10 pages.	☐
	38	An overview of the Minimo (Mini Mozilla) project, http://linuxdevices.linuxgizmos.com, May 19, 2004, LinuxDevices, 6 pages.	☐
	39	Chapter One: Fundamental Concepts, http://mb.escew.org/1, October 27, 2004, printed on November 23, 2016, 19 pages.	☐
	40	Chapter Two: XUL Layout, http://mb.escew.org/2, October 27, 2004, printed on November 23, 2016, 26 pages.	☐
	41	Introduction: Welcome to Software Development the Mozilla Way, http://mb.eschew.org/intro, printed on November 23, 2016, 5 pages.	☐
	42	Bug 167162 - Fonts interacts badly with CanonicalPixalScale, https://bugzilla.mozilla.org/show_bug.cgi?id=167162, reported September 6, 2002, modified April 13, 2010, printed November 23, 2016, 4 pages.	☐
	43	Bug 177805 - (pixels) Fix the use of units in Gecko, https://bugzilla.mozilla.org/show_bug.cgi?id=177805, reported October 31, 2002, modified April 26, 2014, printed November 23, 2016, 56 pages.	☐
	44	Bug 418468 - Zoom manager preferences are not live, https://bugzilla.mozilla.org/show_bug.cgi?id=418468, reported February 19, 2008, modified April 1, 2009, printed November 23, 2016, 5 pages.	☐

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	45	SillyDog701's Netscape Version Guide and Timeline, http://sillydog,org/netscape/verinfo.php, 1997-2007, 8 pages.	☐
	46	BARTLETT, JOEL F. et al., The Itsy Pocket Computer, Compaq Western Research Laboratory, October 2000, pages 1-24, WRL Research Report 2000/6, Palo Alto, California.	☐
	47	Excerpts from the February 13, 2013 deposition transcript of Ben Bederson (Apple Inc., et al., Civil Action No. 10-389-LPS) ("Bederson Depo.") submitted with the July 17, 2017 information disclosure statement in inter partes reexamination Serial No. 95/000,635, 317 pages.	☐
	48	W3C, "HTML 4.0 Specification, W3C Recommendation," https://www.w3.org/TR/REC-html32.html, December 18, 1997, 178 pages.	☐
	49	W3C, "HTML 3.2 References Specification, W3C Recommendation," https://www.w3.org/TR/REC-html32.html, January 14, 1997, 44 pages.	☐
	50	W3 Consortium, Introducing HTML 3.2, https://www.w3.org/MarkUp/Wilbur, February 2, 2014, 2 pages.	☐

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	1	W3 Consortium, Cascading Style Sheets, Level 2, CSS 2.0 specification, April 2008, available at https://www.w3.org/TR/2008/REC-CSS2-20080411/css2.pdf, 340 pages.	☐
	2	Declaration of Michael L. Howard, dated November 16, 2016, submitted with the August 21, 2017 information disclosure statement in ex parte reexamination Serial No. 90/009,995, 82 pages.	☐
	3	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins), dated July 15, 2017, submitted in related inter partes reexamination Serial No. 95/000,635, 21 pages.	☐
	4	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins) dated June 7, 2017, submitted in related inter partes reexamination Serial No. 95/002,126, 26 pages.	☐
	5	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins), dated July 24 2017, submitted in related inter partes reexamination Serial No. 95/000,634, 21 pages.	☐
	6	Declaration of Patent Owner's Expert Wolf (Formerly Scott Collins), dated June 7 2017, submitted in related inter partes reexamination Serial No. 95/002,132, 31 pages.	☐
	7	Declaration of Glenn Reinman, Ph.D., dated July 19, 2013, submitted with the August 21, 2017 information disclosure statement in ex parte reexamination Serial No. 90/009,995, 49 pages.	☐
	8	Declaration of Glenn Reinman, Ph.D., dated July 19, 2013, submitted as Exhibit 2003 in IPR2013-00004 and IPR2013-00007, 49 pages.	☐

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	Attorney Docket Number	161539-0002(P001XC3)

	1	Michael J. Albers and Loel Kim, User Web Browsing Characteristics Using Palm Handhelds for Information Retrieval, September 24, 2000, p. 125-135.	☐
	2	Matt Jones et al., Improving Web Interaction on Small Displays, May 17, 1999, p. 1-11.	☐
	3	Geoffrey M. Voelker and Brian N. Bershad, Mobisaic: An Information System for a Mobile Wireless Computing Environment, December 8-9, 1994, p. 1-6.	☐
	4	Terri Watson, Application Design for Wireless Computing, December 8-9, 1994, p. 91-94.	☐
	5	Changes to SVF, date unknown, SoftSource, available at http://www.svf.org/diff.html, p. 1-2.	☐
	6	Softview's Motion to Dismiss & Strike Apple's AT&T Mobility LLC's Inequitable Conduct Defenses, January 24, 2011, p. 1-9.	☐
	7	Apple's Opposition to Softview's Motion to Dismiss, February 7, 2011, p. 1-14.	☐
	8	Timothy Bickmore et al., Web Page Filtering and Re-Authoring for Mobile Users,The Computer Journal, January 1999, vol. 42, no. 6, p. 534-546.	☐
	9	Stefan Gessler & Andreas Kotulla, PDAs as Mobile WWW Browsers, University of Karlsruhe, December 1, 1995, p. 1-11.	☐
	10	Joel F. Bartlett, Experience with a Wireless World Wide Web Client, Digital Equipment Corp., Western Research Laboratory, March 1, 1995, p. 1-13.	☐
	11	Armando Fox et al., Experience with Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot ("Fox"), Univ. of Cal. at Berkeley, June 22, 1998, p. 1-20.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /Q.A.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15356456
	Filing Date	2016-11-18
	First Named Inventor	Gary B. Rohrabaugh
	Art Unit	2177
	Examiner Name	Quoc A. Tran
	Attorney Docket Number	161539-0002(P001XC3)

	12	Benjamin B. Bederson & James D. Hollan, Pad++: A Zoomable Graphical Interface System ("Bederson-1"), ACM, CHI '95 Mosaic of Creativity, 1995, p. 23-24.	☐
	13	George W. Furnas & Benjamin B. Bederson, Space-Scale Diagrams: Understanding Multiscale Interfaces ("Bederson-2"), ACM Press, Proceedings of CHI '05 Human Factors in Computing Systems, 2005, p. 1-12.	☐
	14	Benjamin B. Bederson et al., A Zooming Web Browser ("Bederson-3"), SPIE, vol. 2667, 1996, p. 1-12.	☐
	15	Ben Bederson & Jon Meyer, Implementing a Zooming User Interface: Experience Building Pad++ ("Bederson-4"), John Wiley & Sons, Ltd, Software-Practice and Experience, 1998, Vol. 28(10), p. 1101-1135.	☐
	16	Benjamin B. Bederson et al., Pad++: A Zoomable Graphical Sketchpad for Exploring Alternate Interface Physics ("Bederson-5"), Academic Press Ltd., Journal of Visual Languages and Computing, 1996, Vol. 7, p. 3-31.	☐
	17	Nokia Unveils World's First All-in-One Communicator for the Americas ("Nokia"), Nokia, 1996, p. 1.	☐
	18	3Com Announces the Palm VII Connected Organizer, the First Handheld Solution for Out-of-the-Box Wireless Internet Access ("Palm"), Palm Computing, Inc., December 2, 1998, p. 1-5.	☐
	19	Apple Outlines Plethora of Newton Wireless Communications Solutions at MessagePad 120 Lauch ("Newton"), Apple Computer, Inc., January 30, 1995, p. 1-4.	☐
	20	Kaoru Misaki, Locatio Beginner's Guide (and English translation thereof) ("Locatio"), Cutt Systems, July 30, 1999, p. 1-179.	☐
	21	Tim Bray, XML in XML ("Bray"), XML.com, March 18, 1999, p. 1-6.	☐
	22	Scalable Vector Graphics (SVG) Specification, W3C Working Draft, WD-SVG-19990211, at http:// www.w3.org/ TR/1999/WD-SVG-19990211/, February 11, 1999, p. 1-7.	☐

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	23	Scalable Vector Graphics (SVG) Specification, W3C Working Draft, WD-SVG-19990412, at http://VvWW. w3.org/ TR/1999/WD-SVG-19990412/, April 12, 1999, p. 1-7.	☐
	24	Scalable Vector Graphics (SVG) 1.0 Specification, W3C Candidate Recommendation, November 2, 2000, p. 1-513.	☐
	25	Introduction to SVG, W3C Working Draft, Part of WD-SVG-19990211 at http://WWW.w3.org/TR/1999/WED-SVG-19990211/intro.htmi#Document, p. 1-3.	☐
	26	Steve Mulder, Sneak Peak at SVG, March 4, 1999, p. 1.	☐
	27	Janus Boye, SVG Brings Fast Vector Graphics to Web, Irt.org, available at http://WWW.irt.org/articles/ js176/, July 29, 1999, p. 1-5.	☐
	28	Rich Graham, Mobile SVG at BitFiash Inc., W3C, available at http://WWW.w3.org/Talks/2002/1007-DI- Helskinki/ bitflash/index.html, May 1, 2001, p. 1-4.	☐
	29	Vector Markup Language (VML), World Wide Web Consortium Note NOTE-VML-19980513, May 13, 1998, p. 1-41.	☐
	30	Precision Graphics Markup Language (PGML), World Wide Web Consortium Note NOTE- PGML-19980410, at http:// WWW.w3.org/TR/1998/NOTE-PGML-19980410, April 10, 1998, p. 1-32.	☐
	31	Specification for Simple Vector Format (SVF) v1.1, SoftSource, available at http://WWW.softsource. com/svf/spec.html, January 16, 1995, p. 1-8.	☐
	32	Specification for Simple Vector Format (SVF) v.2.0, SoftSource, available at http://WWW.svf.org/ spec.html, December 6, 2000, p. 1-21.	☐
	33	Provisional U.S. Application No. 60/159,069 to Chithambaram et al., October 12, 1999, p. 1-30.	☐

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	Examiner Name	Quoc A. Tran
	Attorney Docket Number	161539-0002(P001XC3)

	34	Screenshot of Web pages using Opera 3.60: Altavista.com, May 1, 1999, p. 1-13.	☐
	35	Screenshot of Web pages using Opera 3.60: Cnet.com, May 8, 1999, p. 1-23.	☐
	36	Screenshot of Web pages using Opera 3.60: Excite. com, May 8, 1999, p. 1-14.	☐
	37	Screenshot of Web pages using Opera 3.60: NYTimes.com, April 22, 1999, p. 1-15.	☐
	38	Screenshot of Web pages using Opera 3.60: Opera.com, October 10, 1999, p. 1-14.	☐
	39	Screenshot of Web pages using Opera 3.60: Softsource.com, April 17, 1999, p. 1-16.	☐
	40	Screenshot of Web pages using Opera 3.60: uTexas.edu, April 17, 1999, p. 1-12.	☐
	41	Screenshot of Web pages using Opera 3.60: USPTO.gov, May 5, 1999, p. 1-13.	☐
	42	Screenshot of Web pages using Opera 3.60: Yahoo.com, May 8, 1999, p. 1-10.	☐
	43	Provisional U.S. Application No. 60/193,862 to Chithambaram et al., March 30, 2000, p. 1-32.	☐
	44	KEVIN MCCLUSKEY, Mozilla, Widget Library, July 10, 2005, p. 1-5.	☐

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	45	Vector Markup Language (VML), World Wide Web Consortium Note, NOTE-VML-19980513, http:/www. w3.org/ TR/1998/NOTE-VML_19980513, May 13, 1998, p. 1-47.	☐
	46	PCT International Search Report for International Application No. PCT/US01/40920, International Searching Authority, European Patent Office, December 27, 2001, p. 1-8.	☐
	47	PCT International Preliminary Exam Report for International Application No. PCT/US01/40920, International Preliminary Examining Authority, European Patent Office, June 20, 2002, p. 1-5.	☐
	48	Chapple, "Rethinking the role of an embedded Internet client in digital set-top boxes," Web TV Workshop Submission Paper, http://www.w3.org/Architecture/1998/06/Workshop/paper11/, June 1, 1998, p. 1-4.	☐
	49	Koncz, "Working with Autodesk Mapguide," http://www.directionsmag.com/article.php? article_id=77&trv=1, November 1, 2000, p. 1-6.	☐
	50	Schaffer et al, "Navigating Hierarchically Cluster Networks through Fisheye and Full-Zoom Methods," March 24, 1988, p. 1-20.	☐

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EAST Search History

EAST Search History (Prior Art)

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L3	2	"20110231746".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
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L44	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L45	17009	715/800-825.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L46	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L47	1259	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L33 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L48	1259	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L33 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L49	49	(US-20090013245-$ or US-20150066895-$ or US-20040255233-$ or US-20070250783-$ or US-20090119580-$ or US-20100218084-$ or US-20110231746-$ or US-	US-PGPUB; USPAT	OR	OFF	2018/06/12 13:16

		20110231782-$ or US-20110258535-$ or US-20120197971-$ or US-20120215755-$ or US-20090138449-$ or US-20040014013-$ or US-20120150899-$).did. or (US-7487444-$ or US-7461353-$ or US-7533406-$ or US-7721303-$ or US-7831926-$ or US-7844889-$ or US-8145995-$ or US-8341529-$ or US-8386959-$ or US-7505977-$ or US-7882108-$ or US-7437663-$ or US-8291313-$ or US-8527909-$ or US-9223770-$ or US-5845299-$ or US-5956484-$ or US-6035323-$ or US-6101530-$ or US-6161126-$ or US-6249844-$ or US-6266684-$ or US-6311197-$ or US-6363376-$ or US-6393468-$ or US-6675385-$).did. or (US-6859819-$ or US-6864904-$ or US-6957383-$ or US-6981213-$ or US-6988240-$ or US-6993662-$ or US-RE39184-$ or US-7085999-$ or US-7100069-$).did.				
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L51	17009	715/800-825.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L52	21	(browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16

		L33 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3)) & ((various plurality many different (in near4 out) toggl$3) same (zoom$3 enlarg$3 pan$4)) & ((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))				
L55	56	L20 & (browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near (page document)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L56	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L57	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L58	21	(browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L33 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3)) & ((various plurality many different (in near4 out) toggl$3) same (zoom$3 enlarg$3 pan$4)) & ((various plurality many different (in near4 out) toggl$3) near4 (zoom$3 enlarg$3 pan$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L59	0	L58 & (@pd or @ptad or @prad or @ad or @rlad)<"20000612"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L60	58	L20 & (browser near4 (desktop PC computer client (work adj station)) same (browser near4 pda mobile blakbaeery (small near4 device) handheld portable tablet Droid)) & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L33 (page document)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16

L61	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L62	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L63	2	"8386959".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
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L65	1	L39 & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & browser & column & row & (XML HTMl (web near L33 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L67	2	"20110231746".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L68	4857	"20070288841" "7831926" "20090119580" "20110231782" "20080028335" "8386959" "7461353" "20070288855" "20070198917" "20070198916" "7844889" "20050131887" "7210099" "20050132286" "20020091738" "7823083" "8145995" "7584423" "20060048051" "20020112082" "7343555" "20120194519" "20090234962" "8001257" "7539766" "7688327" "20070263007" "7216177" "20060235941" "9158745" "8495242" "8656046" "20090089422" "8381110" "20130138774" "20160036889" "20100153495" "6964009" "20060265476" "20020078093" "20090070485" "6792575" "7864186" "20100194753" RE45636 "6657647" "20150310126" "8169628" "7672002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16

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L69	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L70	17009	715/800-825.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2018/06/12 13:16

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L75	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L76	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16

L77	49	(US-20090013245-$ or US-20150066895-$ or US-20040255233-$ or US-20070250783-$ or US-20090119580-$ or US-20100218084-$ or US-20110231746-$ or US-20110231782-$ or US-20110258535-$ or US-20120197971-$ or US-20120215755-$ or US-20090138449-$ or US-20040014013-$ or US-20120150899-$).did. or (US-7487444-$ or US-7461353-$ or US-7533406-$ or US-7721303-$ or US-7831926-$ or US-7844889-$ or US-8145995-$ or US-8341529-$ or US-8386959-$ or US-7505977-$ or US-7882108-$ or US-7437663-$ or US-8291313-$ or US-8527909-$ or US-9223770-$ or US-5845299-$ or US-5956484-$ or US-6035323-$ or US-6101530-$ or US-6161126-$ or US-6249844-$ or US-6266684-$ or US-6311197-$ or US-6363376-$ or US-6393468-$ or US-6675385-$).did. or (US-6859819-$ or US-6864904-$ or US-6957383-$ or US-6981213-$ or US-6988240-$ or US-6993662-$ or US-RE39184-$ or US-7085999-$ or US-7100069-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/12 13:16
L80	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L81	6	L80 & ((hyperlink URL URL (domain with name) (web with resource)) with (function$5 active clickable life))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
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L85	45	((Sharp same Zaurus) same PDA)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16
L86	25	(gary same rohrabaugh).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/12 13:16

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The roles of geography markup language (GML), **scalable vector** graphics (**SVG**), and Web feature service (WFS) specifications in the development of Internet ... [PDF] springer.com Full-Text @ USPTO-STIC
ZR Peng, C Zhang - Journal of Geographical Systems, 2004 - Springer
... First, it **reduces** the size of the map images by **allowing** complex **scalable** cartography in a ... Object Model (DOM), it becomes possible to implement straightforward and efficient **vector** graphics animation ... Users interact with the GML and **SVG** data directly on the Web client without ...
Cited by 166 Related articles All 17 versions

Resolution independent **vector** display of internet content
GB Rohrabaugh, SA Sherman - US Patent 7,210,099, 2007 - Google Patents
... G06F2212/10—Providing a specific technical effect; G06F2212/1048—**Scalability**. G—PHYSICS; G06 ... Because the client-side viewer manipulates **vectors**, there is no loss in ... As before, the retrieved **HTML documents** are translated into **scalable vector representations** by **HTML** ...
Cited by 282 Related articles All 4 versions

Scalable display of internet content on **mobile devices**
GB Rohrabaugh, SA Sherman - US Patent 8,145,995, 2012 - Google Patents
... G06F2212/10—Providing a specific technical effect; G06F2212/1048—**Scalability**. G—PHYSICS; G06 ... 4G is a schematic diagram illustrating new **vectors** and bounding box parameters for a ... used by the invention when translating content into a **scalable vector representation** of that ...
Cited by 78 Related articles All 5 versions

Scalable display of internet content on **mobile devices**
GB Rohrabaugh, SA Sherman - US Patent 9,519,729, 2016 - Google Patents
... **Scalable** display of internet content on **mobile devices** ... number US9519729B2. Authority US Grant status Grant. Patent type. Prior art keywords content web **html** display Prior ... Google has not performed a legal analysis and **makes** no **representation** as to the accuracy of the status ...
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Tactile web browsing for blind people [PDF] springer.com Full-Text @ USPTO-STIC
M Rotard, C Taras, T Ertl - Multimedia Tools and Applications, 2008 - Springer
... The advantages of this kind of graphics are **scalability**, small **file** size and the ability to store shapes,
attributes, and meta information in a well defined way ... World Wide Web Consortium (2003) **Scalable Vector** Graphics (**SVG**) 1.1 specification (W3C recommendation 14 ...
Cited by 41 Related articles All 15 versions

Scalable display of internet content on **mobile devices**
GB Rohrabaugh, SA Sherman - US Patent 7,461,353, 2008 - Google Patents
... G06F2212/10—Providing a specific technical effect; G06F2212/1048—**Scalability**. G—PHYSICS; G06 ... Because the client-side viewer manipulates **vectors**, there is no loss in quality as ... an FTP site 30, wherein the content is translated into a **scalable vector representation** (eg, SVF ...
Cited by 93 Related articles All 4 versions

Scalable display of internet content on **mobile devices**
GB Rohrabaugh, SA Sherman - US Patent 7,831,926, 2010 - Google Patents
... G06F2212/10—Providing a specific technical effect; G06F2212/1048—**Scalability**. G—PHYSICS; G06 ... Because the client-side viewer manipulates **vectors**, there is no loss in quality as ... an FTP site 30, wherein the content is translated into a **scalable vector representation** (eg, SVF ...
Cited by 67 Related articles All 5 versions

Scalable display of internet content on **mobile devices**
G Rohrabaugh, S Sherman - US Patent App. 11/868,124, 2008 - Google Patents
... G06F2212/10—Providing a specific technical effect; G06F2212/1048—**Scalability**. G—PHYSICS; G06 ... Because the client-side viewer manipulates **vectors**, there is no loss in quality as ... an FTP site 30, wherein the content is translated into a **scalable vector representation** (eg, SVF ...
Cited by 36 Related articles All 2 versions

Method, browser client and apparatus to support full-page web browsing on hand-held **devices**
GB Rohrabaugh, SA Sherman - US Patent 7,823,083, 2010 - Google Patents
... G06F2212/10—Providing a specific technical effect; G06F2212/1048—**Scalability**. G—PHYSICS; G06 ... Because the client-side viewer manipulates **vectors**, there is no loss in quality as ... an FTP site 30, wherein the content is translated into a **scalable vector representation** (eg, SVF ...
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A tactile web browser for the visually disabled **[PDF]** psu.edu
M Rotard, S Knödler, T Ertl - ... of the sixteenth ACM conference on ..., 2005 - dl.acm.org
... [23] Schweikhardt, W., Klöpfer, K., Computer Aided Conversion of Videotex-Graphics into a Tactile **Representation** ... Home, http://www.w3.org/Math/ [26] World Wide Web Consortium (W3C), **Scalable Vector** Graphics 1.1 Specification, http://www.w3.org/TR/**SVG**/ [27] Xalan ...
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15356456	ROHRABAUGH ET AL.
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	QUOC A TRAN	2177

CPC						
Symbol					Type	Version
G06F		17	/	211	F	2013-01-01
G06F		3	/	0481	A	2013-01-01
G06F		17	/	30899	A	2013-01-01
G06F		17	/	30902	A	2013-01-01
G06F		2212	/	1048	A	2013-01-01
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G06F		17	/	30861	A	2013-01-01
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G06Q		30	/	02	A	2013-01-01
G06F		17	/	3087	A	2013-01-01
G06F		17	/	30905	I	2013-01-01
G09G		5	/	24	A	2013-01-01
G09G		2340	/	0407	A	2013-01-01
G09G		2340	/	0492	A	2013-01-01
H04L		67	/	2823	I	2013-01-01
H04L		67	/	04	I	2013-01-01
G06F		3	/	0488	I	2013-01-01
G06F		17	/	2235	I	2013-01-01
G06F		17	/	2247	I	2013-01-01
G06F		17	/	30896	I	2013-01-01
G06F		2203	/	04806	A	2013-01-01

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NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	35	
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(Primary Examiner)	(Date)	1	4C

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(Assistant Examiner)	(Date)	35	
/QUOC A TRAN/ Primary Examiner.Art Unit 2177	06/19/2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4C

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
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☐ 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
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NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 35	
/QUOC A TRAN/ Primary Examiner.Art Unit 2177 (Primary Examiner)	06/19/2018 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 4C

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EAST Search History

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L7	28	((Sharp same Zaurus) same PDA)	USPAT	OR	OFF	2018/06/14 10:00
L13	10	(gary same rohrabaugh).in.	USPAT	OR	OFF	2018/06/14 10:00
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L20	1512082	(Scalable rateriz$3 scal$3 (vector with (graphic bitmap)))	USPAT	OR	OFF	2018/06/14 13:16
L21	1966	(vector SVG scalable) & (span$4 zoom$4 enlag$3) & (browser column row layout) & (XML HTMl (web near2 (page document))) & (browser same (render$4 rerender$3 digest$3 redigest$3 author$3 reauthor$3))	USPAT	OR	OFF	2018/06/14 13:17
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L45	46251	6 7 13 16 18 26 29	USPAT	OR	OFF	2018/06/14 13:41
L46	17440	20 and 45	USPAT	OR	OFF	2018/06/14 13:41
L47	630	21 and 46	USPAT	OR	OFF	2018/06/14 13:42
L48	75	25 & 47	USPAT	OR	OFF	2018/06/14 13:42
L49	7	48 & ((various plurality) with (zoom$3 enlarg$3 pan$4))	USPAT	OR	OFF	2018/06/14 13:42
L50	893	45 & ((various plurality) with (zoom$3 enlarg$3 pan$4))	USPAT	OR	OFF	2018/06/14 13:43
L51	893	50 & ((various plurality many different (in near4 out) toggl$3) & (zoom$3 enlarg$3 pan$4))	USPAT	OR	OFF	2018/06/14 13:43
L52	477	51 & (Scalable rateriz$3 scal$3 (vector with (graphic bitmap)))	USPAT	OR	OFF	2018/06/14 13:43
L53	481	51 & (Scalable rasteriz$3 scal$3 (vector with (graphic bitmap)))	USPAT	OR	OFF	2018/06/14 13:44
L54	108	53 & (vector SVG scalable) & (span$4 zoom$4 enlag$3) & (browser column row layout) & (XML HTMl (web near2 (page document)))	USPAT	OR	OFF	2018/06/14 13:44
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L59	6	54 & ((defin$3 determin$3) same (data datum) same HTML same object same (location (bounding with (frame box coordinate))))	USPAT	OR	OFF	2018/06/14 13:56
S6	10	(gary same rohrabaugh).in.	USPAT	OR	OFF	2018/06/13 09:01
S7	28	((Sharp same Zaurus) same PDA)	USPAT	OR	OFF	2018/06/13 09:01
S13	10	(gary same rohrabaugh).in.	USPAT	OR	OFF	2018/06/13 10:18
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)	3543

7590 07/18/2018

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

EXAMINER	
TRAN, QUOC A	

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Serial No.:	15/356,456	**Filed:**	November 18, 2016		
Applicant:	Softview L.L.C.	**Conf. No.:**	3543	**Art Unit:**	2177
Inventors(s):	Gary B. Rohrabaugh et al.	**Examiner:**	Quoc A. Tran		
For:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES				

Commissioner for Patents
P.O. Box 1450
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Sir:

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☐ The Commissioner is hereby authorized to charge the fee to Deposit Account No. 09-0946.

☒ Applicant hereby authorizes and requests that the Commissioner charge any additional fees that may be required for consideration of this and/or any accompanying and/or necessary papers to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3). In the event that an extension of time is required (or which may be required in addition to that requested in a petition for an extension of time), Applicant requests that the Commissioner grant a petition for an extension of time required to make this response timely, and, Applicant hereby authorizes and requests that the Commissioner charge any fee or credit any overpayment for such an extension of time to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3).

In the event that a telephone conference would facilitate examination of the application in any way, Applicant invites the Examiner to contact the undersigned at the number provided.

Respectfully submitted,
Attorney(s) for Applicant,
IRELL & MANELLA LLP

Dated: July 20, 2018

By: */s/ Babak Redjaian*
Babak Redjaian
Registration No.: 42,096

Correspondence Address:
IRELL & MANELLA LLP
840 Newport Center Drive, Suite 400
Newport Beach, CA 92660

949-760-0991 (Telephone)
949-760-5200 (Facsimile)
patents@irell.com (E-mail)

Attorney Docket No.: 005207.P001XC3C 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.: 12/941,106
Filing Date: November 08, 2010
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:
SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

(Title of the Invention)

the specification of which

_____ is attached hereto **OR**

__X__ was filed on (11/08/2010)
as United States Application Number 12/941,106
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 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:

11/735,482	April 15, 2007	Patented
Application Number	Filing Date	Status – patented, pending, abandoned
09/878,097	June 8, 2001	Patented
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**

____ **Correspondence Address Below:**

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 1-8-2011

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 1-7-2011

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

Mailing Address ~~201 McGraw Street, Seattle, WA 98109~~
2446 Lorentz Pl
SA

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 Acknowledgement Receipt

EFS ID:	33172272
Application Number:	15356456
International Application Number:	
Confirmation Number:	3543
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	29000
Filer:	Babak Redjaian/Pia Kamath
Filer Authorized By:	Babak Redjaian
Attorney Docket Number:	161539-0002(P001XC3)
Receipt Date:	20-JUL-2018
Filing Date:	18-NOV-2016
Time Stamp:	21:11:11
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	Transmittal_for_Declaration.pdf	109603 79783c078ada3313e55b09de9ec0b86a11240134	no	2

Warnings:

Information:					
2	Oath or Declaration filed	Declaration.pdf	273804 5238628 4f832b198d5b4fda6a3b7275800e e31a5	no	4
Warnings:					
Information:					
			Total Files Size (in bytes):	383407	

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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)	3543

7590 07/26/2018

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

EXAMINER	
TRAN, QUOC A	
ART UNIT	PAPER NUMBER
2177	
NOTIFICATION DATE	DELIVERY MODE
07/26/2018	ELECTRONIC

NOTICE REQUIRING INVENTOR'S OATH OR DECLARATION

☐ An inventor's oath or declaration in compliance with 37 CFR 1.63 or substitute statement in compliance with 37 CFR 1.64 executed by or with respect to each inventor has not yet been submitted.

The inventor's oath or declaration or substitute statement dated 7-20-18 is defective. The inventor's oath or declaration does not comply with 37 CFR 1.63 or the substitute statement does not comply with 37 CFR 1.64 because it:

☐ does not include a statement that the person executing the oath or declaration or substitute statement believes the named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application for which the oath or declaration is being submitted.

☑ does not state that the application was made or was authorized to be made by the person executing the oath or declaration or substitute statement.

☐ does not acknowledge that any willful false statement made in such oath or declaration or substitute statement is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

☐ does not identify the person executing the oath or declaration or substitute statement by his or her legal name.

☐ does not identify the application to which the oath or declaration or substitute statement is directed.

☐ Other: _____

The substitute statement dated _____ does not comply with 37 CFR 1.64 because it:

☐ does not identify the inventor with respect to whom the statement applies.

☐ does not identify the relationship to the non-signing inventor.

☐ does not identify the circumstances permitting execution of the statement.

☐ was signed by someone other than the applicant.

☐ Other: _____

An oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each inventor MUST be filed **no later than the date on which the issue fee is paid.** See 35 U.S.C. 115(f). Failure to timely comply will result in ABANDONMENT of this application. This period for reply is not extendable under 37 CFR 1.136(a).

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

(571)-272-4200 or 1(888)-786-0101
Patent Publication Branch
Office of Data Management

In the United States Patent and Trademark Office

Serial No.:	15/356,456	**Filed:**	November 18, 2016		
Applicant:	Softview L.L.C.	**Conf. No.:**	3543	**Art Unit:**	2177
Inventors(s):	Gary B. Rohrabaugh et al.	**Examiner:**	Quoc A. Tran		
For:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES				

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

TRANSMITTAL

Sir:

Applicant submits, herewith, the following document for appropriate action by the U.S. Patent and Trademark Office.

☒ Executed Inventor Declaration of Gary B. Rohrabaugh

☒ Executed Inventor Declaration of Scott A. Sherman

☐ The Commissioner is hereby authorized to charge the fee to Deposit Account No. 09-0946.

☒ Applicant hereby authorizes and requests that the Commissioner charge any additional fees that may be required for consideration of this and/or any accompanying and/or necessary papers to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3). In the event that an extension of time is required (or which may be required in addition to that requested in a petition for an extension of time), Applicant requests that the Commissioner grant a petition for an extension of time required to make this response timely, and, Applicant hereby authorizes and requests that the Commissioner charge any fee or credit any overpayment for such an extension of time to Deposit Account No. 09-0946, Order No. 161539-0002(P001XC3).

In the event that a telephone conference would facilitate examination of the application in any way, Applicant invites the Examiner to contact the undersigned at the number provided.

Respectfully submitted,
Attorney(s) for Applicant,
IRELL & MANELLA LLP

Dated: August 7, 2018

By: */s/ Babak Redjaian*
Babak Redjaian
Registration No.: 42,096

Correspondence Address:
IRELL & MANELLA LLP
840 Newport Center Drive, Suite 400
Newport Beach, CA 92660

949-760-0991 (Telephone)
949-760-5200 (Facsimile)
patents@irell.com (E-mail)

PTO/AIA/01 (06-12)
Approved for use through 01/31/2014. 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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 15/356,456 filed on November 18, 2016.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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, petitioners/applicants 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.

LEGAL NAME OF INVENTOR

Inventor: Gary B. Rohrabaugh Date (Optional): 08-07-2018

Signature: Gary B Rohrabaugh

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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/AIA/01 (05-13)
Approved for use through 01/31/2014. 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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ■ United States application or PCT international application number 15/356,456 filed on November 18, 2016

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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, petitioners/applicants 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.

LEGAL NAME OF INVENTOR

Inventor: Scott A. Sherman Date (Optional): 8-7-18

Signature: /Scott A. Sherman/

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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:	33402745
Application Number:	15356456
International Application Number:	
Confirmation Number:	3543
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	29000
Filer:	Babak Redjaian/Pia Kamath
Filer Authorized By:	Babak Redjaian
Attorney Docket Number:	161539-0002(P001XC3)
Receipt Date:	07-AUG-2018
Filing Date:	18-NOV-2016
Time Stamp:	20:00:18
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	Transmittal_for_Declaration.pdf	109238 e7b48a27129177c5011c43dd642019c7511ac7bc	no	2

Warnings:

Information:					
2	Oath or Declaration filed	Signed_Declaration_Gary_Rohrabaugh.PDF	170339 ac5d7215752bd09ee00088afa56b5c19a288c180	no	1
Warnings:					
Information:					
3	Oath or Declaration filed	Signed_Declaration_Scott_Sherman.PDF	226522 40d5fd65af6638e6dc0c9d351f47bf4e66ce0725	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	506099	

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.

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)

29000 7590 07/03/2018

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

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.
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)	3543

TITLE OF INVENTION: SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0	$0	$1000	10/03/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRAN, QUOC A	2177	715-517000

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 Irell and Manella, LLP
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: Softview, L.L.C.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Bellingham, Washington

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 credits any overpayment, to Deposit Account Number 09-0946 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Babak Redjaian/ Date August 21, 2018

Typed or printed name Babak Redjaian Registration No. 42,096

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Electronic Patent Application Fee Transmittal

Application Number:	15356456
Filing Date:	18-Nov-2016
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Filer:	Babak Redjaian/Pia Kamath
Attorney Docket Number:	161539-0002(P001XC3)

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1000**

Electronic Acknowledgement Receipt	
EFS ID:	33485226
Application Number:	15356456
International Application Number:	
Confirmation Number:	3543
Title of Invention:	SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES
First Named Inventor/Applicant Name:	Gary B. Rohrabaugh
Customer Number:	29000
Filer:	Babak Redjaian/Pia Kamath
Filer Authorized By:	Babak Redjaian
Attorney Docket Number:	161539-0002(P001XC3)
Receipt Date:	21-AUG-2018
Filing Date:	18-NOV-2016
Time Stamp:	20:21:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1000
RAM confirmation Number	082218INTEFSW00013027090946
Deposit Account	090946
Authorized User	Pia Kamath
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

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)	IssueFeeTransmittal.pdf	88602 cff7e2dff44513834cacf24cd5f1b9ecfcba8261	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30838 286c8fda46c5e83cf7f0e88cfbd0b3a1cb876a9a	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	119440		

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.

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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.
15/356,456	09/25/2018	10083154	161539-0002(P001XC3)	3543

29000 7590 09/05/2018

Irell & Manella LLP
840 Newport Center Dr., Ste. 400
Newport Beach, CA 92660

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 0 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;
Softview L.L.C., Bellingham, WA;
Scott A. Sherman, Seattle, WA;

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P.O. Box 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
15/356,456	**02/25/2025 06:54:17 PM Z ET**	**161539-0002(P001XC3)**

Title of Invention

SCALABLE DISPLAY OF INTERNET CONTENT ON MOBILE DEVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	10083154
CONFIRMATION #	3543	FILED BY	Alan Burnett
PATENT CENTER #	69335109	FILING DATE	11/18/2016
CUSTOMER #	29000	FIRST NAMED INVENTOR	Gary B. Rohrabaugh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
sb0081a_POA_Patent_10083154_signed.pdf	1	Power of Attorney	402 KB
10083154_sb0096_Statement_Under_37_CFR_3.73b_2024_signed.pdf	1	Assignee showing of ownership per 37 CFR 3.73	415 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
sb0081a_POA_Patent_10083154_signed.pdf	B0B6383BD5986F19484E80E9FB0742E5BC656DED487588D322B58CD884AA24BE9A84C0CA56808378F5C305F75750429C12DF8127AA83985697A495D6110DDE9F

10083154_sb0096_Statement_Under_37_CFR_3.73b_2024_signed.pdf	AE62922846E1E186BC32B115A00998190E9F2FC82120E58BEF3F79DCA7D5D88BA9CE130A8E6DD506C8257345729085A059FA4B482E3A7535ECF2ADC0740E6976

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
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SoftView L.L.C.

Application No./Patent No.: 10083154 Filed/Issue Date: September 25, 2018

Titled:
Scalable Display of Internet Content on Mobile Devices

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 069660, Frame 0046, 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.

Richard Paulson
Signature

Feb 25 2025
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/81A (12-08)
Approved for use through 08/30/2025. 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	10083154
Issue Date	September 25, 2018
First Named Inventor	Gary B. Rohrabaugh
Title	Scalable Display of Internet Content on Mobile Devices
Attorney Docket No.	161539-0002(P001XC3)

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	2/26/26
Name	Richard Paulson	Telephone	360 738-1087
Title and Company	Manager, SoMview 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.

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UNITED STATES DEPARTMENT OF COMMERCE
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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
15/356,456	11/18/2016	Gary B. Rohrabaugh	161539-0002(P001XC3)

CONFIRMATION NO. 3543

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

POA ACCEPTANCE LETTER

OC000000085601526

Date Mailed: 03/11/2025

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/25/2025.

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**.

/sltorres/